

Cover Page

Order ID : Q3015

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q3015-01
Q3015-02
Q3015-03
Q3015-04
Q3015-05
Q3015-06
Q3015-07
Q3015-08
Q3015-09
Q3015-10
Q3015-11
Q3015-12
Q3015-13
Q3015-14
Q3015-15
Q3015-16
Q3015-17
Q3015-18
Q3015-19
Q3015-20
Q3015-21
Q3015-22

Client Sample Number

WP0925-PT-VOA-WP
WP0925-PT-VOA-WP
WP0925-PT-BN-WP
WP0925-PT-BN-WP
WP0925-PT-BN-WP
WP0925-PT-ACIDS-WP
WP0925-PT-ACIDS-WP
WP0925-PT-ACIDS-WP
WP0925-PT-PEST-WP
WP0925-PT-PEST-WP
WP0925-PT-CHLR-WP
WP0925-PT-CHLR-WP
WP0925-PT-TXP-WP
WP0925-PT-TXP-WP
WP0925-PT-PCBW-WP
WP0925-PT-PCBW-WP
WP0925-PT-HERB-WP
WP0925-RR-GAS-WP
WP0925-RR-DIES-WP
WP0925-RR-8011-WP
WP0925-RR-PAH-WP
WP0925-RR-TRIAZINE-WP

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: 9/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Waste Water PT

Project # N/A

Order ID # Q3015

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 09/04/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82X091625W.M) for 2-Chloroethyl Vinyl ether passing on Quadratic Regression.

The Tuning criteria met requirements.

E. Additional Comments:

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.



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

F. Manual Integration Comments:

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

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

Signature _____

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3015

MATRIX: Water

METHOD:8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The %RSD is greater than 20% in the Initial Calibration method (82X091625W.M) for 2-Chloroethyl Vinyl ether passing on Quadratic Regression.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds. The Blank Spike Duplicate met requirements for all compounds.		✓	
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: The Holding Times were met for all analysis.		✓	

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

NA NO YES

ADDITIONAL COMMENTS:

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 #: Q3015

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 09/24/2025



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

LAB CHRONICLE

OrderID:	Q3015	OrderDate:	9/4/2025 10:14:00 AM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Waste Water PT
Contact:	Mohammad Ahmed	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3015-01	WP0925-PT-VOA-WP	Water	VOCMS Group1	8260-Low	09/02/25		09/16/25	09/04/25

Hit Summary Sheet
SW-846

SDG No.: Q3015

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	WP0925-PT-VOA-WP							
Q3015-01	WP0925-PT-VOA- ¹ Water		Chloromethane	1.10	J	0.32	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Vinyl Chloride	71.0		0.26	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Bromomethane	56.2		1.40	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		1,1-Dichloroethene	88.1		0.23	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Acetone	140		1.50	25.0	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Methyl tert-butyl Ether	96.5		0.16	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Methylene Chloride	74.5		0.28	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		trans-1,2-Dichloroethene	88.2		0.23	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		2-Butanone	160		0.98	25.0	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		cis-1,2-Dichloroethene	120		0.19	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Chloroform	97.5		0.25	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Benzene	110		0.15	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		1,2-Dichloroethane	35.0		0.22	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Trichloroethene	90.4		0.090	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Dibromomethane	120		0.25	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Bromodichloromethane	17.1		0.22	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Toluene	35.4		0.14	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		t-1,3-Dichloropropene	62.0		0.17	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		cis-1,3-Dichloropropene	99.3		0.16	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		1,1,2-Trichloroethane	100		0.21	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		2-Hexanone	110		0.89	25.0	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Dibromochloromethane	68.9		0.18	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		1,2-Dibromoethane	33.3		0.15	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Tetrachloroethene	74.0		0.23	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Chlorobenzene	23.1		0.12	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		1,1,1,2-Tetrachloroethane	53.1		0.19	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Ethyl Benzene	48.6		0.13	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Total Xylenes	250		0.36	15.0	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		m/p-Xylenes	110		0.24	10.0	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		o-Xylene	140		0.12	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Bromoform	17.8		0.19	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		Isopropylbenzene	0.21	J	0.12	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		1,1,2,2-Tetrachloroethane	71.4		0.26	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		1,2,3-Trichloropropane	99.7		0.35	5.00	ug/L
Q3015-01	WP0925-PT-VOA- ¹ Water		sec-Butylbenzene	0.28	J	0.13	5.00	ug/L

Hit Summary Sheet
SW-846

SDG No.: Q3015

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3015-01	WP0925-PT-VOA-1	Water	1,3-Dichlorobenzene	0.22	J	0.16	5.00	ug/L
Q3015-01	WP0925-PT-VOA-1	Water	1,4-Dichlorobenzene	110		0.19	5.00	ug/L
Q3015-01	WP0925-PT-VOA-1	Water	n-Butylbenzene	0.43	J	0.15	5.00	ug/L
Q3015-01	WP0925-PT-VOA-1	Water	1,2,4-Trichlorobenzene	0.61	J	0.20	5.00	ug/L
Q3015-01	WP0925-PT-VOA-1	Water	Hexachlorobutadiene	1.40	J	0.30	5.00	ug/L
Q3015-01	WP0925-PT-VOA-1	Water	Naphthalene	78.4		0.20	5.00	ug/L
Q3015-01	WP0925-PT-VOA-1	Water	1,2,3-Trichlorobenzene	0.59	J	0.20	5.00	ug/L
Total Voc :				2700				
Total Concentration:				2700				



QC SUMMARY

Surrogate Summary

SDG No.: Q3015

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3015-01	WP0925-PT-VOA-WP	1,2-Dichloroethane-d4	50	51.3	103		74	125
		Dibromofluoromethane	50	49.3	99		75	124
		Toluene-d8	50	49.5	99		86	113
		4-Bromofluorobenzene	50	49.3	99		77	121
VX0916WBL01	VX0916WBL01	1,2-Dichloroethane-d4	50	56.2	112		74	125
		Dibromofluoromethane	50	49.5	99		75	124
		Toluene-d8	50	49.6	99		86	113
		4-Bromofluorobenzene	50	58.3	117		77	121
VX0916WBS01	VX0916WBS01	1,2-Dichloroethane-d4	50	55.7	111		74	125
		Dibromofluoromethane	50	52.0	104		75	124
		Toluene-d8	50	50.9	102		86	113
		4-Bromofluorobenzene	50	53.9	108		77	121
VX0916WBSD0	VX0916WBSD01	1,2-Dichloroethane-d4	50	49.7	99		74	125
		Dibromofluoromethane	50	50.5	101		75	124
		Toluene-d8	50	50.4	101		86	113
		4-Bromofluorobenzene	50	50.0	100		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3015	Analytical Method:	SW8260D
Client:	Alliance Technical Group, LLC - New	Datafile :	VX047595.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0916WBS01	Dichlorodifluoromethane	20	18.0	ug/L	90			69	116	
	Chloromethane	20	18.3	ug/L	92			65	116	
	Vinyl chloride	20	18.6	ug/L	93			65	117	
	Ethyl Acetate	20	19.4	ug/L	97			75	115	
	Bromomethane	20	20.6	ug/L	103			58	125	
	Chloroethane	20	19.1	ug/L	96			56	128	
	Trichlorofluoromethane	20	18.8	ug/L	94			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97			80	112	
	1,1-Dichloroethene	20	18.8	ug/L	94			74	110	
	Acrolein	100	94.4	ug/L	94			28	144	
	Acrylonitrile	100	100	ug/L	100			73	113	
	Acetone	100	83.7	ug/L	84			60	125	
	Carbon disulfide	20	18.1	ug/L	91			64	112	
	Methyl tert-butyl Ether	20	20.5	ug/L	103			78	114	
	Methylene Chloride	20	19.1	ug/L	96			72	114	
	trans-1,2-Dichloroethene	20	19.6	ug/L	98			75	108	
	Vinyl Acetate	100	100	ug/L	100			76	115	
	1,1-Dichloroethane	20	19.8	ug/L	99			78	112	
	2-Butanone	100	100	ug/L	100			65	122	
	Carbon Tetrachloride	20	19.1	ug/L	96			77	113	
	2,2-Dichloropropane	20	18.1	ug/L	91			56	164	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			77	110	
	Chloroform	20	20.3	ug/L	102			79	113	
	1,1,1-Trichloroethane	20	20.2	ug/L	101			80	108	
	1,1-Dichloropropene	20	18.2	ug/L	91			79	110	
	Benzene	20	19.3	ug/L	97			82	109	
	1,2-Dichloroethane	20	19.3	ug/L	97			80	115	
	Trichloroethene	20	19.2	ug/L	96			77	113	
	1,2-Dichloropropane	20	19.5	ug/L	98			83	111	
	Dibromomethane	20	19.3	ug/L	97			82	110	
	Bromodichloromethane	20	19.2	ug/L	96			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	19.3	ug/L	97			82	110	
	t-1,3-Dichloropropene	20	19.1	ug/L	96			79	110	
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			82	110	
	1,1,2-Trichloroethane	20	19.6	ug/L	98			83	112	
	1,3-Dichloropropane	20	20.2	ug/L	101			83	111	
	2-Chloroethyl vinyl ether	100	84.6	ug/L	85			75	124	
	2-Hexanone	100	100	ug/L	100			73	117	
	Dibromochloromethane	20	19.9	ug/L	100			82	110	
	1,2-Dibromoethane	20	20.3	ug/L	102			81	110	
	Tetrachloroethene	20	18.3	ug/L	92			67	123	
	Chlorobenzene	20	18.5	ug/L	93			82	109	
	1,1,1,2-Tetrachloroethane	20	18.7	ug/L	94			84	111	
	Ethyl Benzene	20	18.7	ug/L	94			83	109	
	m/p-Xylenes	40	37.4	ug/L	94			82	110	
	o-Xylene	20	18.7	ug/L	94			83	109	
	Styrene	20	18.6	ug/L	93			80	111	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3015</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VX047595.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0916WBS01	Bromoform	20	18.7	ug/L	94			79	109	
	Isopropylbenzene	20	17.9	ug/L	90			83	112	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/L	91			76	118	
	1,2,3-Trichloropropane	20	19.2	ug/L	96			75	112	
	Bromobenzene	20	17.8	ug/L	89			77	116	
	N-propylbenzene	20	17.8	ug/L	89			83	112	
	2-Chlorotoluene	20	18.1	ug/L	91			83	110	
	1,3,5-Trimethylbenzene	20	18.0	ug/L	90			85	112	
	4-Chlorotoluene	20	17.9	ug/L	90			82	110	
	1,2,4-Trimethylbenzene	20	18.0	ug/L	90			85	111	
	Sec-butylbenzene	20	17.9	ug/L	90			81	114	
	p-Isopropyltoluene	20	17.8	ug/L	89			78	116	
	1,3-Dichlorobenzene	20	17.8	ug/L	89			82	108	
	1,4-Dichlorobenzene	20	17.5	ug/L	88			82	107	
	n-Butylbenzene	20	18.0	ug/L	90			75	115	
	1,2-Dichlorobenzene	20	18.1	ug/L	91			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.2	ug/L	91			68	112	
	1,2,4-Trichlorobenzene	20	17.9	ug/L	90			75	113	
	Hexachlorobutadiene	20	17.6	ug/L	88			81	121	
	Naphthalene	20	17.8	ug/L	89			78	119	
	1,2,3-Trichlorobenzene	20	17.8	ug/L	89			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3015</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VX047596.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0916WBSD01	Dichlorodifluoromethane	20	17.8	ug/L	89	1		69	116	19
	Chloromethane	20	17.0	ug/L	85	8		65	116	21
	Vinyl chloride	20	18.3	ug/L	92	1		65	117	19
	Ethyl Acetate	20	19.3	ug/L	97	0		75	115	27
	Bromomethane	20	20.0	ug/L	100	3		58	125	20
	Chloroethane	20	18.6	ug/L	93	3		56	128	20
	Trichlorofluoromethane	20	18.9	ug/L	95	1		73	115	16
	1,1,2-Trichlorotrifluoroethane	20	19.5	ug/L	98	1		80	112	15
	1,1-Dichloroethene	20	19.2	ug/L	96	2		74	110	20
	Acrolein	100	95.1	ug/L	95	1		28	144	30
	Acrylonitrile	100	110	ug/L	110	10		73	113	29
	Acetone	100	82.6	ug/L	83	1		60	125	20
	Carbon disulfide	20	18.0	ug/L	90	1		64	112	20
	Methyl tert-butyl Ether	20	20.0	ug/L	100	3		78	114	20
	Methylene Chloride	20	19.1	ug/L	96	0		72	114	20
	trans-1,2-Dichloroethene	20	19.0	ug/L	95	3		75	108	16
	Vinyl Acetate	100	99.2	ug/L	99	1		76	115	26
	1,1-Dichloroethane	20	19.5	ug/L	98	1		78	112	20
	2-Butanone	100	98.8	ug/L	99	1		65	122	26
	Carbon Tetrachloride	20	19.5	ug/L	98	2		77	113	15
	2,2-Dichloropropane	20	17.6	ug/L	88	3		56	164	20
	cis-1,2-Dichloroethene	20	19.4	ug/L	97	3		77	110	20
	Chloroform	20	20.0	ug/L	100	2		79	113	20
	1,1,1-Trichloroethane	20	20.0	ug/L	100	1		80	108	20
	1,1-Dichloropropene	20	19.5	ug/L	98	7		79	110	16
	Benzene	20	19.5	ug/L	98	1		82	109	15
	1,2-Dichloroethane	20	19.5	ug/L	98	1		80	115	20
	Trichloroethene	20	19.5	ug/L	98	2		77	113	15
	1,2-Dichloropropane	20	19.9	ug/L	100	2		83	111	16
	Dibromomethane	20	20.2	ug/L	101	4		82	110	20
	Bromodichloromethane	20	19.9	ug/L	100	4		83	110	16
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		74	118	25
	Toluene	20	19.8	ug/L	99	2		82	110	16
	t-1,3-Dichloropropene	20	19.8	ug/L	99	3		79	110	20
	cis-1,3-Dichloropropene	20	19.3	ug/L	97	1		82	110	16
	1,1,2-Trichloroethane	20	20.0	ug/L	100	2		83	112	20
	1,3-Dichloropropane	20	20.6	ug/L	103	2		83	111	20
	2-Chloroethyl vinyl ether	100	85.5	ug/L	86	1		75	124	20
	2-Hexanone	100	100	ug/L	100	0		73	117	25
	Dibromochloromethane	20	20.1	ug/L	101	1		82	110	20
	1,2-Dibromoethane	20	20.6	ug/L	103	1		81	110	20
	Tetrachloroethene	20	19.7	ug/L	99	7		67	123	15
	Chlorobenzene	20	19.6	ug/L	98	5		82	109	15
	1,1,1,2-Tetrachloroethane	20	19.7	ug/L	99	5		84	111	20
	Ethyl Benzene	20	19.8	ug/L	99	5		83	109	16
	m/p-Xylenes	40	39.7	ug/L	99	5		82	110	15
	o-Xylene	20	20.1	ug/L	101	7		83	109	20
	Styrene	20	19.9	ug/L	100	7		80	111	17

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3015</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Alliance Technical Group, LLC - New</u>	Datafile :	<u>VX047596.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0916WBSD01	Bromoform	20	20.2	ug/L	101	7		79	109	20
	Isopropylbenzene	20	20.1	ug/L	101	12		83	112	29
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102	11		76	118	20
	1,2,3-Trichloropropane	20	18.6	ug/L	93	3		75	112	20
	Bromobenzene	20	20.0	ug/L	100	12		77	116	20
	N-propylbenzene	20	20.4	ug/L	102	14		83	112	20
	2-Chlorotoluene	20	20.3	ug/L	102	11		83	110	20
	1,3,5-Trimethylbenzene	20	20.4	ug/L	102	13		85	112	20
	4-Chlorotoluene	20	20.1	ug/L	101	12		82	110	20
	1,2,4-Trimethylbenzene	20	20.4	ug/L	102	13		85	111	20
	Sec-butylbenzene	20	20.8	ug/L	104	14		81	114	20
	p-Isopropyltoluene	20	20.6	ug/L	103	15		78	116	20
	1,3-Dichlorobenzene	20	20.4	ug/L	102	14		82	108	20
	1,4-Dichlorobenzene	20	19.8	ug/L	99	12		82	107	15
	n-Butylbenzene	20	20.9	ug/L	104	14		75	115	20
	1,2-Dichlorobenzene	20	20.3	ug/L	102	11		82	109	20
	1,2-Dibromo-3-Chloropropane	20	20.2	ug/L	101	10		68	112	20
	1,2,4-Trichlorobenzene	20	20.5	ug/L	103	13		75	113	29
	Hexachlorobutadiene	20	21.5	ug/L	108	20		81	121	20
	Naphthalene	20	20.5	ug/L	103	15		78	119	20
	1,2,3-Trichlorobenzene	20	20.9	ug/L	104	16		76	114	29

VOLATILE METHOD BLANK SUMMARY

Client ID

VX0916WBL01

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab File ID: VX047594.D

Lab Sample ID: VX0916WBL01

Date Analyzed: 09/16/2025

Time Analyzed: 14:53

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0916WBS01	VX0916WBS01	VX047595.D	09/16/2025
VX0916WBSD01	VX0916WBSD01	VX047596.D	09/16/2025
WP0925-PT-VOA-WP	Q3015-01	VX047597.D	09/16/2025

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: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab File ID: VX047584.D

BFB Injection Date: 09/16/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:56

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	67.3
175	5.0 - 9.0% of mass 174	5.4 (8.1) 1
176	95.0 - 101.0% of mass 174	66.3 (98.6) 1
177	5.0 - 9.0% of mass 176	4.3 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX047585.D	09/16/2025	09:23
VSTDIC005	VSTDIC005	VX047586.D	09/16/2025	10:16
VSTDIC020	VSTDIC020	VX047587.D	09/16/2025	10:37
VSTDIC050	VSTDIC050	VX047588.D	09/16/2025	10:58
VSTDIC100	VSTDIC100	VX047589.D	09/16/2025	11:40
VSTDIC150	VSTDIC150	VX047590.D	09/16/2025	12:01
VX0916WBL01	VX0916WBL01	VX047594.D	09/16/2025	14:53
VX0916WBS01	VX0916WBS01	VX047595.D	09/16/2025	15:21
VX0916WBSD01	VX0916WBSD01	VX047596.D	09/16/2025	15:46
WP0925-PT-VOA-WP	Q3015-01	VX047597.D	09/16/2025	16:07

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG NO.: Q3015
 Lab File ID: VX047588.D Date Analyzed: 09/16/2025
 Instrument ID: MSVOA_X Time Analyzed: 10:58
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	173407	5.54	307383	6.75	270040	10.04
UPPER LIMIT	346814	6.044	614766	7.245	540080	10.537
LOWER LIMIT	86703.5	5.044	153692	6.245	135020	9.537
EPA SAMPLE NO.						
WP0925-PT-VOA-WP	166705	5.54	308833	6.75	276674	10.04
VX0916WBL01	170934	5.54	354724	6.75	356396	10.04
VX0916WBS01	184711	5.53	338431	6.75	315471	10.04
VX0916WBSD01	181929	5.54	325791	6.75	290596	10.04

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG NO.: Q3015
 Lab File ID: VX047588.D Date Analyzed: 09/16/2025
 Instrument ID: MSVOA_X Time Analyzed: 10:58
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	127732	12.00€				
UPPER LIMIT	255464	12.50€				
LOWER LIMIT	63866	11.50€				
EPA SAMPLE NO.						
WP0925-PT-VOA-WP	133950	12.01				
VX0916WBL01	185546	12.01				
VX0916WBS01	158261	12.01				
VX0916WBSD01	138945	12.01				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	09/02/25	
Project:	NJ Waste Water PT		Date Received:	09/04/25	
Client Sample ID:	WP0925-PT-VOA-WP		SDG No.:	Q3015	
Lab Sample ID:	Q3015-01		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047597.D	1	09/16/25 16:07	VX091625

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	1.10	J	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	71.0		0.26	5.00	ug/L
74-83-9	Bromomethane	56.2		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
75-35-4	1,1-Dichloroethene	88.1		0.23	5.00	ug/L
107-02-8	Acrolein	7.10	U	7.10	25.0	ug/L
107-13-1	Acrylonitrile	0.83	U	0.83	25.0	ug/L
67-64-1	Acetone	140		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	96.5		0.16	5.00	ug/L
75-09-2	Methylene Chloride	74.5		0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	88.2		0.23	5.00	ug/L
108-05-4	Vinyl Acetate	0.66	U	0.66	25.0	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	160		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.21	U	0.21	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	120		0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	97.5		0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.15	U	0.15	5.00	ug/L
71-43-2	Benzene	110		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	35.0		0.22	5.00	ug/L
79-01-6	Trichloroethene	90.4		0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
74-95-3	Dibromomethane	120		0.25	5.00	ug/L
75-27-4	Bromodichloromethane	17.1		0.22	5.00	ug/L

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	09/02/25	
Project:	NJ Waste Water PT		Date Received:	09/04/25	
Client Sample ID:	WP0925-PT-VOA-WP		SDG No.:	Q3015	
Lab Sample ID:	Q3015-01		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047597.D	1	09/16/25 16:07	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	35.4		0.14	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	62.0		0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	99.3		0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	100		0.21	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.19	U	0.19	5.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	0.30	U	0.30	25.0	ug/L
591-78-6	2-Hexanone	110		0.89	25.0	ug/L
124-48-1	Dibromochloromethane	68.9		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	33.3		0.15	5.00	ug/L
127-18-4	Tetrachloroethene	74.0		0.23	5.00	ug/L
108-90-7	Chlorobenzene	23.1		0.12	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	53.1		0.19	5.00	ug/L
67-72-1	Hexachloroethane	0.32	U	0.32	5.00	ug/L
100-41-4	Ethyl Benzene	48.6		0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	10.0	ug/L
1330-20-7	Total Xylenes	250		0.36	15.0	ug/L
95-47-6	o-Xylene	140		0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	17.8		0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.21	J	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	71.4		0.26	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	99.7		0.35	5.00	ug/L
108-86-1	Bromobenzene	0.24	U	0.24	5.00	ug/L
103-65-1	n-propylbenzene	0.13	U	0.13	5.00	ug/L
95-49-8	2-Chlorotoluene	0.14	U	0.14	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.15	U	0.15	5.00	ug/L
106-43-4	4-Chlorotoluene	0.13	U	0.13	5.00	ug/L
98-06-6	tert-Butylbenzene	0.14	U	0.14	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.14	U	0.14	5.00	ug/L
135-98-8	sec-Butylbenzene	0.28	J	0.13	5.00	ug/L

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/02/25
Project:	NJ Waste Water PT	Date Received:	09/04/25
Client Sample ID:	WP0925-PT-VOA-WP	SDG No.:	Q3015
Lab Sample ID:	Q3015-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047597.D	1	09/16/25 16:07	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.13	U	0.13	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.22	J	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	110		0.19	5.00	ug/L
104-51-8	n-Butylbenzene	0.43	J	0.15	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	0.61	J	0.20	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.40	J	0.30	5.00	ug/L
91-20-3	Naphthalene	78.4		0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.59	J	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	49.5		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	5.538			
540-36-3	1,4-Difluorobenzene	309000	6.751			
3114-55-4	Chlorobenzene-d5	277000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	134000	12.006			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047597.D
 Acq On : 16 Sep 2025 16:07
 Operator : JC/MD
 Sample : Q3015-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP0925-PT-VOA-WP

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
 Supervised By :Semsettin Yesilyurt 09/23/2025

Quant Time: Sep 17 06:52:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	166705	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	308833	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	276674	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	133950	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	136237	51.342	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.680%			
35) Dibromofluoromethane	5.373	113	102057	49.274	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.540%			
50) Toluene-d8	8.635	98	354807	49.507	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.020%			
62) 4-Bromofluorobenzene	11.061	95	134055	49.286	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.580%			
Target Compounds					Qvalue	
3) Chloromethane	1.301	50	2396	1.056	ug/l	92
4) Vinyl Chloride	1.380	62	157647	70.984	ug/l	100
5) Bromomethane	1.624	94	79172	56.219	ug/l	99
10) Methyl Iodide	2.459	142	17284	5.748	ug/l	97
12) 1,1-Dichloroethene	2.325	96	174530	88.118	ug/l	94
16) Acetone	2.374	43	165914	143.803	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	697735	96.503	ug/l	99
20) Methylene Chloride	2.794	84	182020	74.531	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	188024	88.175	ug/l	98
25) 2-Butanone	4.538	43	229839	159.702	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	319167	122.218	ug/l	90
30) Chloroform	5.080	83	414814	97.504	ug/l	99
40) Benzene	6.025	78	1013580	110.264	ug/l	99
42) 1,2-Dichloroethane	6.074	62	122452	35.011	ug/l	100
44) Trichloroethene	7.111	130	200949	90.421	ug/l	99
46) Dibromomethane	7.568	93	211104	123.246	ug/l	98
47) Bromodichloromethane	7.812	83	60296	17.059	ug/l	97
52) Toluene	8.702	92	200563	35.414	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	223638	62.030	ug/l	98
54) cis-1,3-Dichloropropene	8.354	75	382625	99.292	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	225879	103.436	ug/l	99
59) 2-Hexanone	9.415	43	229816	108.592	ug/l	100
60) Dibromochloromethane	9.506	129	173345	68.892	ug/l	99
61) 1,2-Dibromoethane	9.592	107	74115	33.321	ug/l	98
64) Tetrachloroethene	9.256	164	133498	74.017	ug/l	99
65) Chlorobenzene	10.061	112	145444	23.140	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	115065	53.051	ug/l	100
67) Ethyl Benzene	10.177	91	527444	48.634	ug/l	99
68) m/p-Xylenes	10.287	106	446608	110.638	ug/l	99
69) o-Xylene	10.628	106	558297	142.992	ug/l	100
71) Bromoform	10.781	173	28772	17.766	ug/l #	97
73) Isopropylbenzene	10.945	105	2144	0.211	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.195	83	220089	71.432	ug/l	99
76) 1,2,3-Trichloropropane	11.220	75	270268	99.654	ug/l	91
85) sec-Butylbenzene	11.872	105	2861	0.281	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	1037m	0.223	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047597.D
Acq On : 16 Sep 2025 16:07
Operator : JC/MD
Sample : Q3015-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025

Quant Time: Sep 17 06:52:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) 1,4-Dichlorobenzene	12.024	146	533129	111.499	ug/l	99
89) n-Butylbenzene	12.317	91	3435	0.431	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	1756	0.609	ug/l	95
94) Hexachlorobutadiene	13.707	225	1413	1.442	ug/l	99
95) Naphthalene	13.756	128	688992	78.440	ug/l	100
96) 1,2,3-Trichlorobenzene	13.945	180	1578	0.588	ug/l	98

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

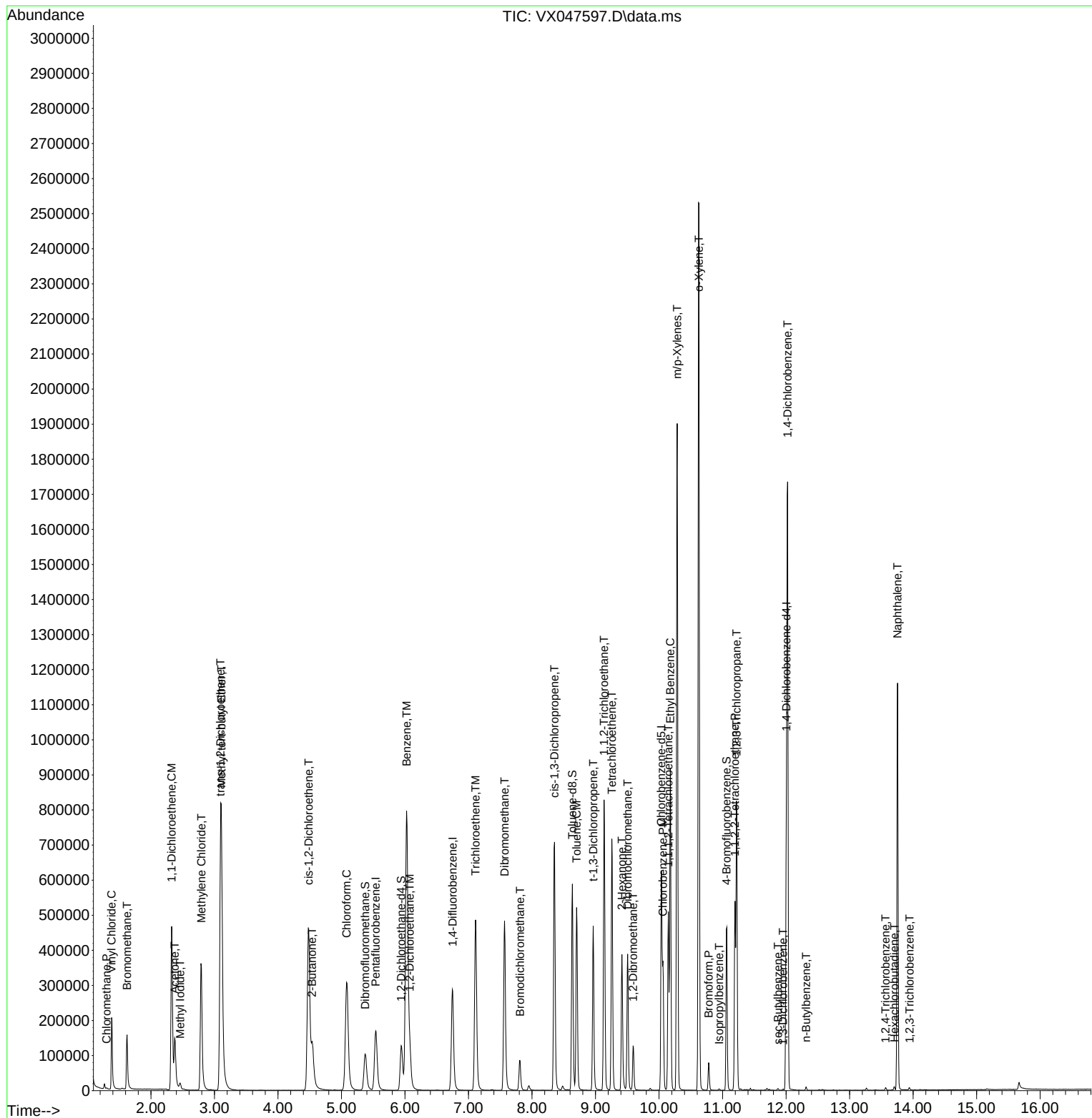
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047597.D
Acq On : 16 Sep 2025 16:07
Operator : JC/MD
Sample : Q3015-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

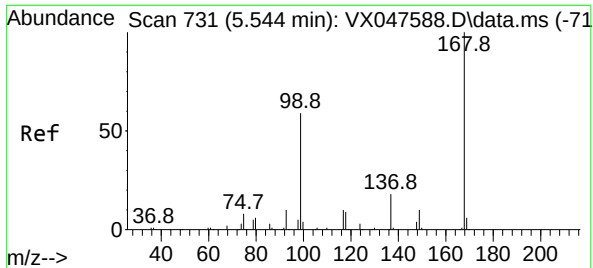
Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

Quant Time: Sep 17 06:52:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025





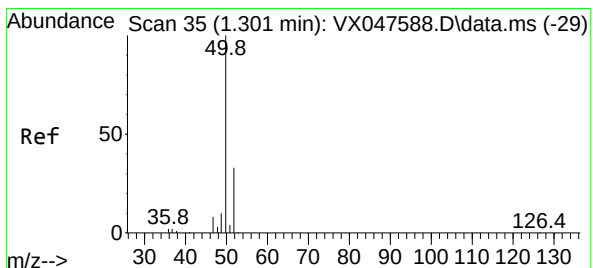
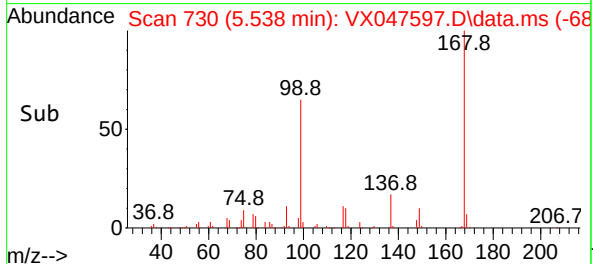
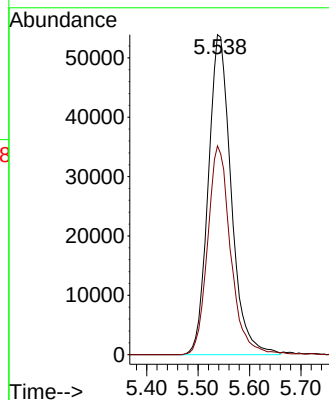
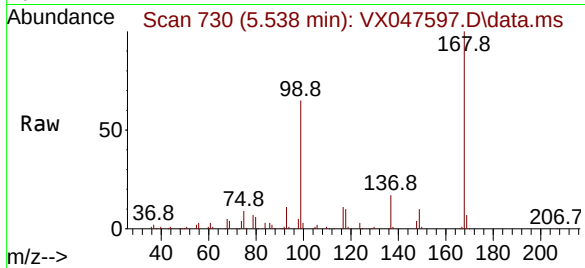
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

Tgt Ion:168 Resp: 16670
Ion Ratio Lower Upper
168 100
99 65.3 48.8 73.2

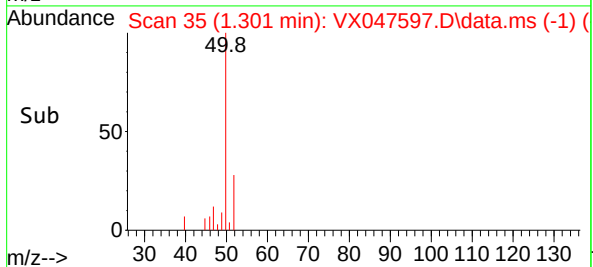
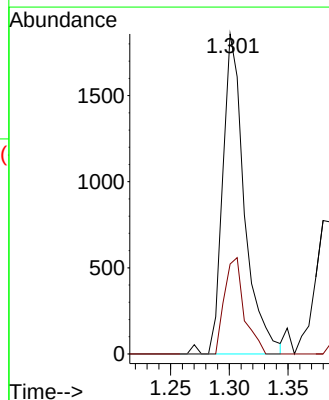
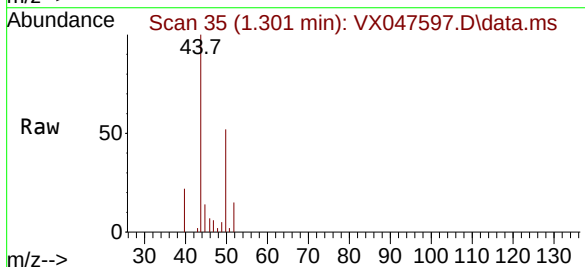
Manual Integrations
APPROVED

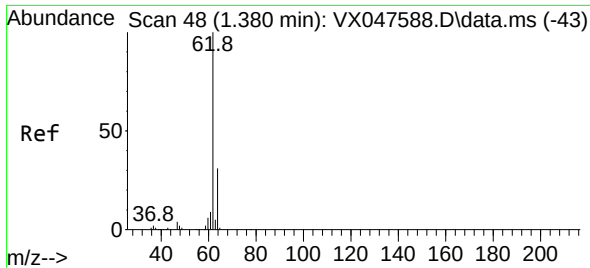
Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#3
Chloromethane
Concen: 1.056 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

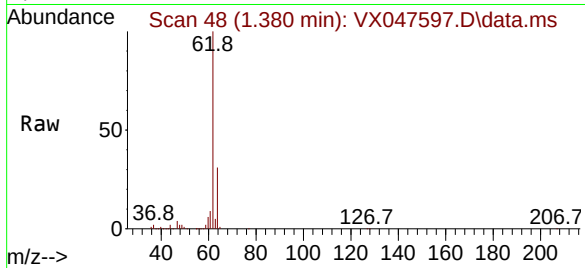
Tgt Ion: 50 Resp: 2396
Ion Ratio Lower Upper
50 100
52 28.1 26.1 39.1





#4
 Vinyl Chloride
 Concen: 70.984 ug/l
 RT: 1.380 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VX047597.D
 Acq: 16 Sep 2025 16:07

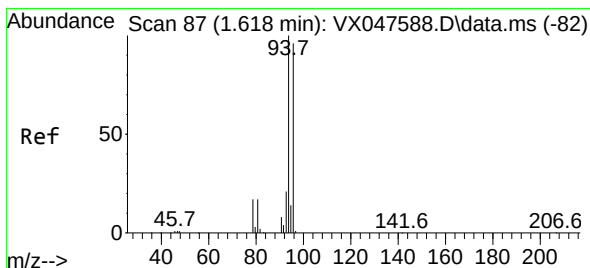
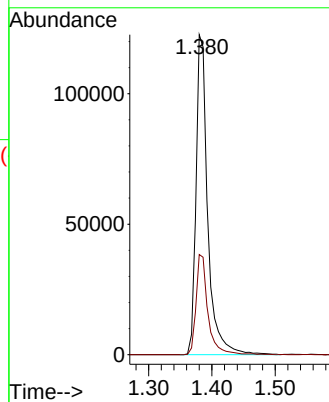
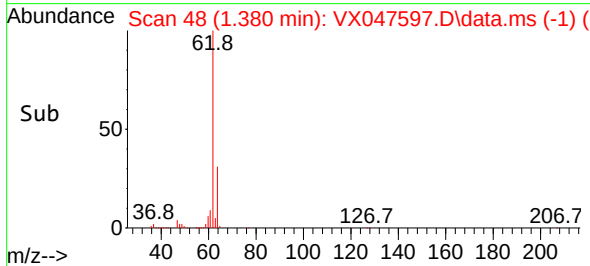
Instrument :
 MSVOA_X
 ClientSampleId :
 WP0925-PT-VOA-WP



Tgt Ion: 62 Resp: 15764
 Ion Ratio Lower Upper
 62 100
 64 31.3 24.9 37.3

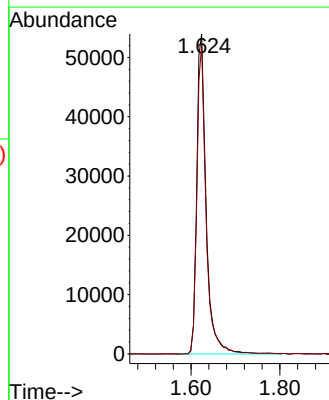
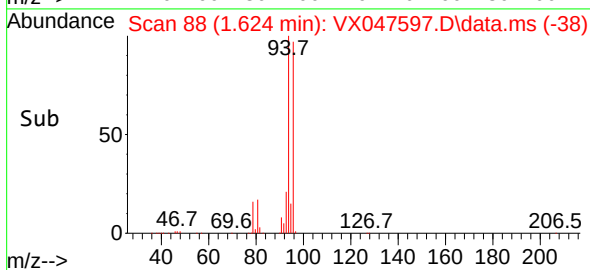
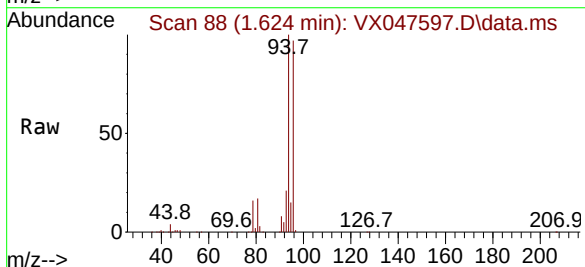
Manual Integrations
 APPROVED

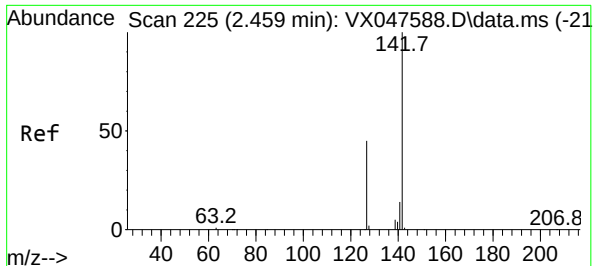
Reviewed By :Mahesh Dadoda 09/23/2025
 Supervised By :Semsettin Yesilyurt 09/23/2025



#5
 Bromomethane
 Concen: 56.219 ug/l
 RT: 1.624 min Scan# 88
 Delta R.T. 0.006 min
 Lab File: VX047597.D
 Acq: 16 Sep 2025 16:07

Tgt Ion: 94 Resp: 79172
 Ion Ratio Lower Upper
 94 100
 96 96.8 76.6 115.0





#10

Methyl Iodide

Concen: 5.748 ug/l

RT: 2.459 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

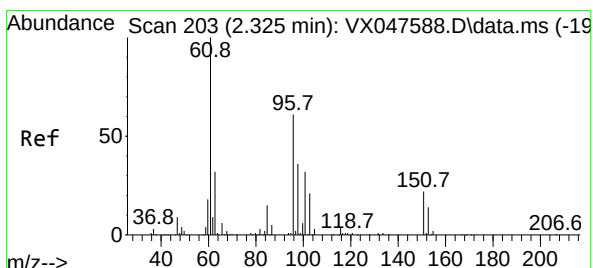
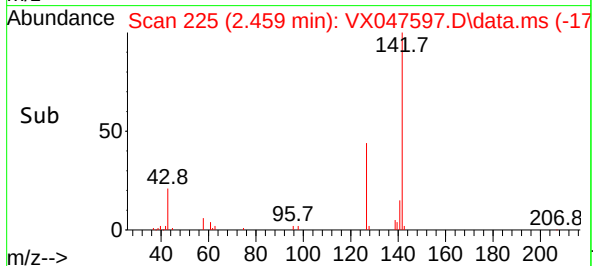
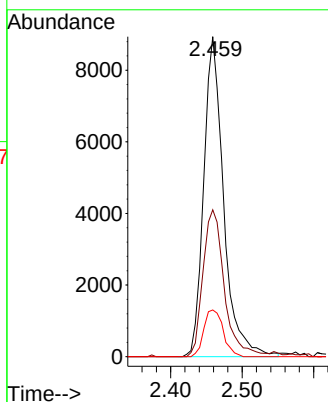
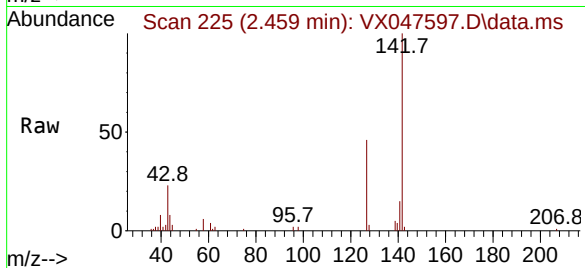
WP0925-PT-VOA-WP

Tgt Ion:	142	Resp:	17284
Ion Ratio	Lower	Upper	
142	100		
127	49.3	37.2	55.8
141	14.2	11.4	17.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#12

1,1-Dichloroethene

Concen: 88.118 ug/l

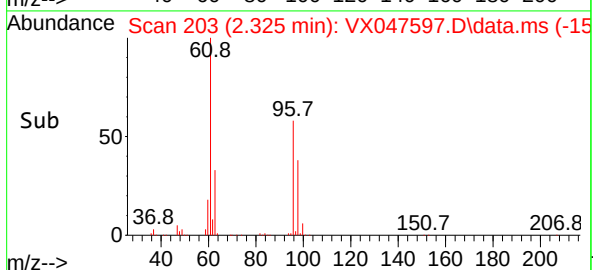
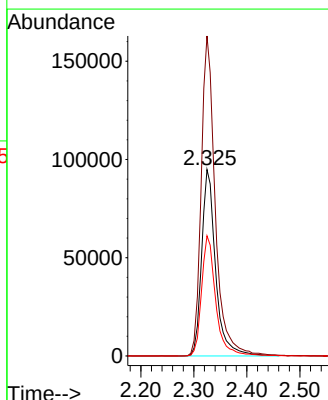
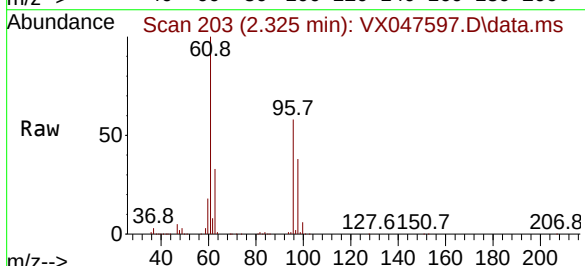
RT: 2.325 min Scan# 203

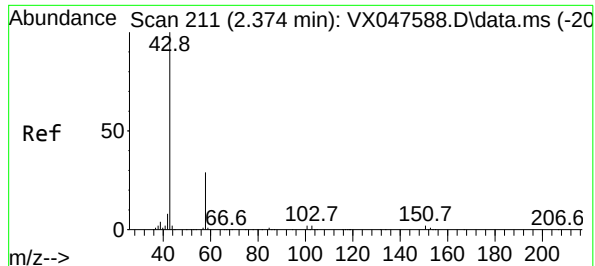
Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

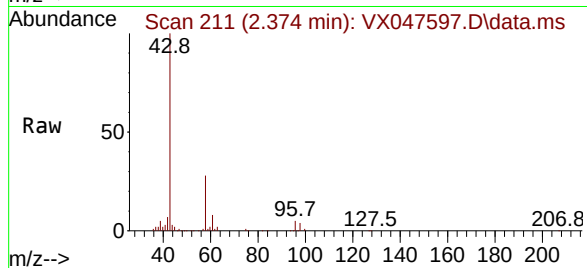
Tgt Ion:	96	Resp:	174530
Ion Ratio	Lower	Upper	
96	100		
61	171.6	131.0	196.6
98	64.5	47.7	71.5





#16
Acetone
Concen: 143.803 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

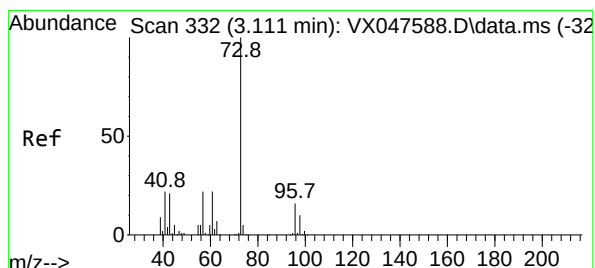
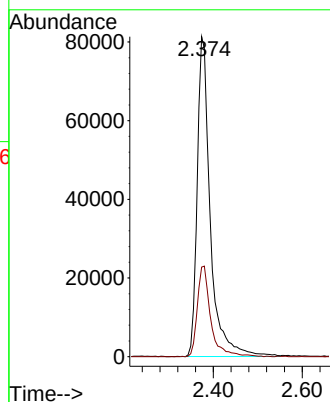
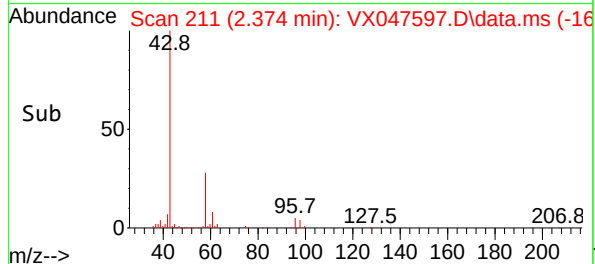
Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP



Tgt Ion: 43 Resp: 165914
Ion Ratio Lower Upper
43 100
58 28.2 23.4 35.0

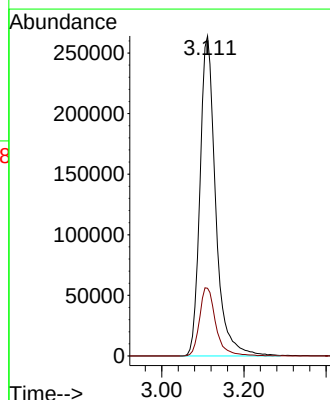
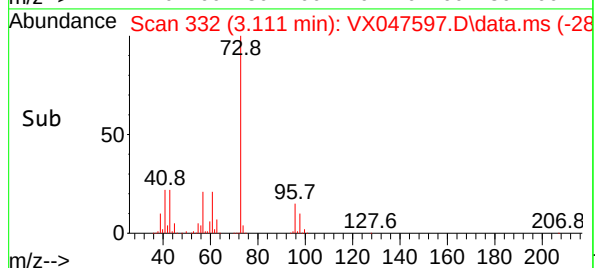
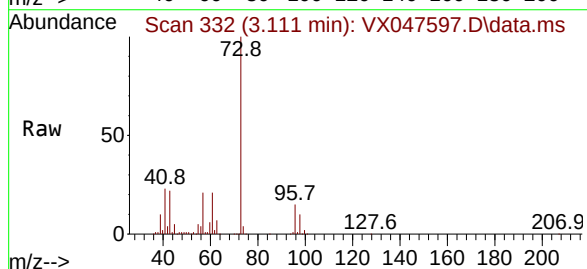
Manual Integrations
APPROVED

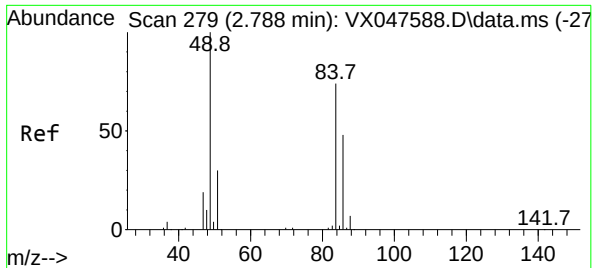
Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#19
Methyl tert-butyl Ether
Concen: 96.503 ug/l
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 73 Resp: 697735
Ion Ratio Lower Upper
73 100
57 21.2 17.4 26.2





#20

Methylene Chloride

Concen: 74.531 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX047597.D

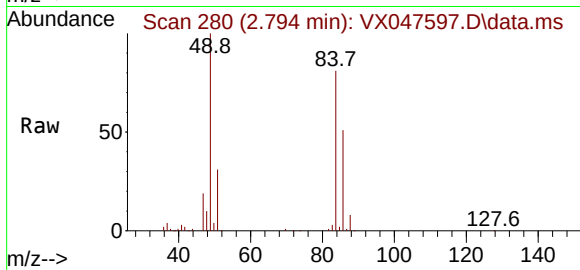
Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP



Tgt Ion: 84 Resp: 182020

Ion Ratio Lower Upper

84 100

49 123.7 108.6 162.8

51 37.7 32.6 48.8

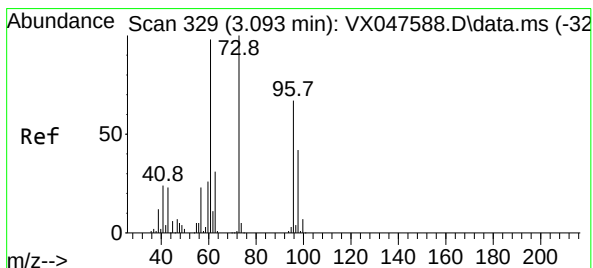
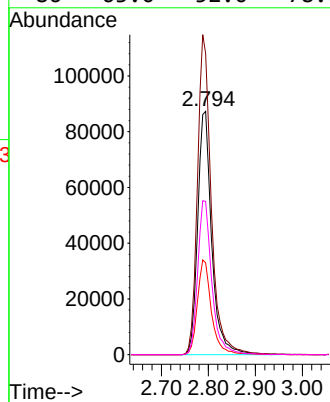
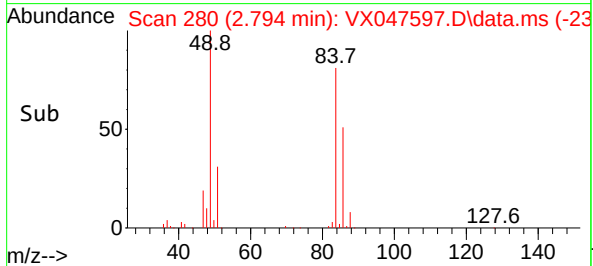
86 63.0 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025

Supervised By :Semsettin Yesilyurt 09/23/2025



#21

trans-1,2-Dichloroethene

Concen: 88.175 ug/l

RT: 3.093 min Scan# 329

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

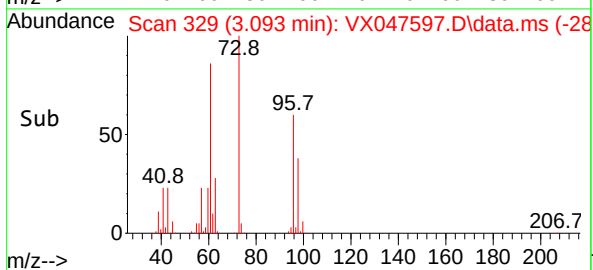
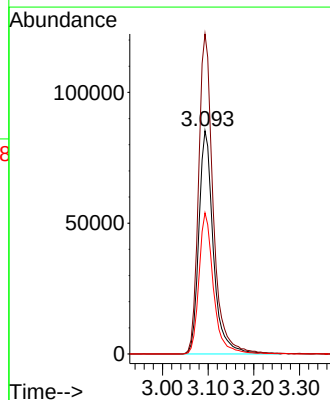
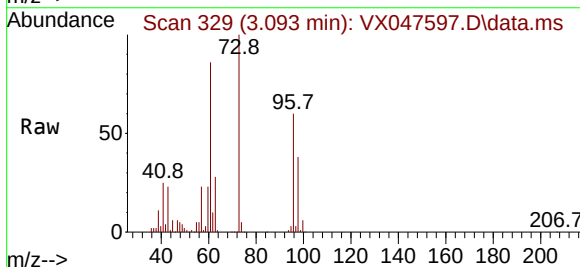
Tgt Ion: 96 Resp: 188024

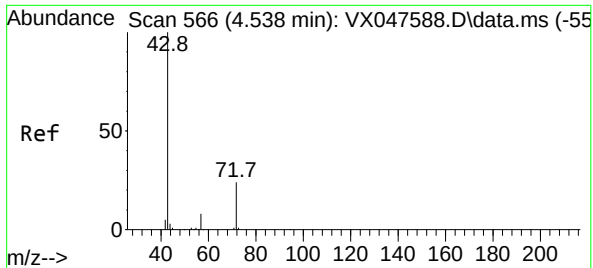
Ion Ratio Lower Upper

96 100

61 143.3 116.2 174.2

98 63.2 49.3 73.9





#25

2-Butanone

Concen: 159.702 ug/l

RT: 4.538 min Scan# 5

Delta R.T. -0.000 min

Lab File: VX047597.D

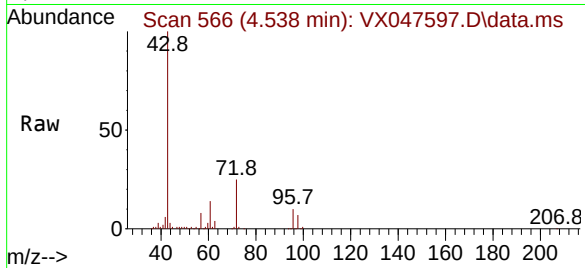
Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP



Tgt Ion: 43 Resp: 229839

Ion Ratio Lower Upper

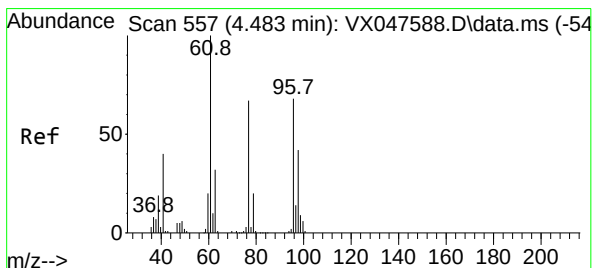
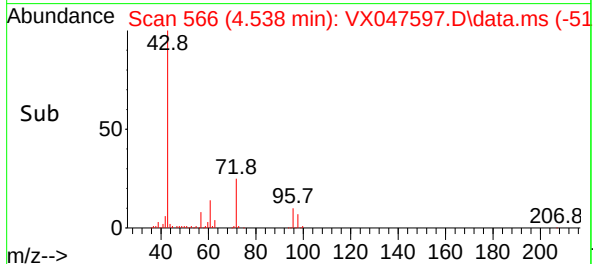
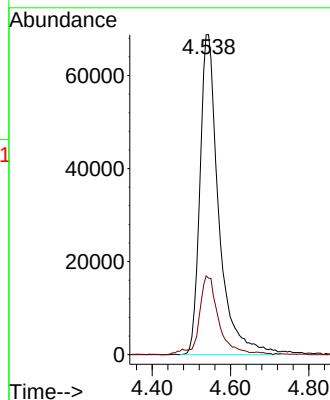
43 100

72 24.4 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#27

cis-1,2-Dichloroethene

Concen: 122.218 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

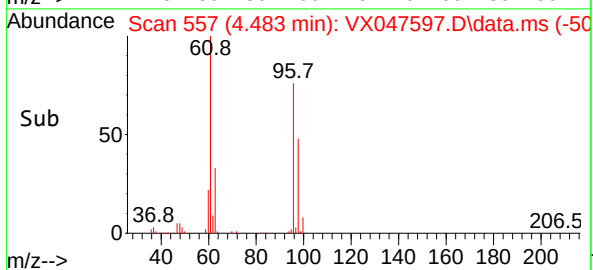
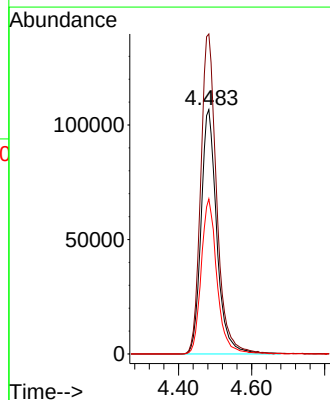
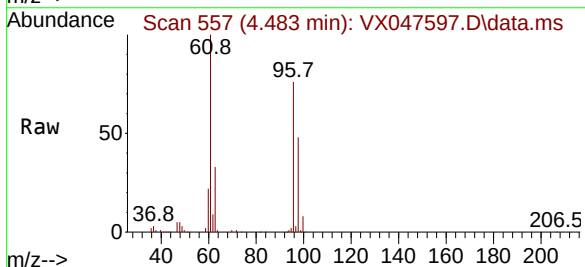
Tgt Ion: 96 Resp: 319167

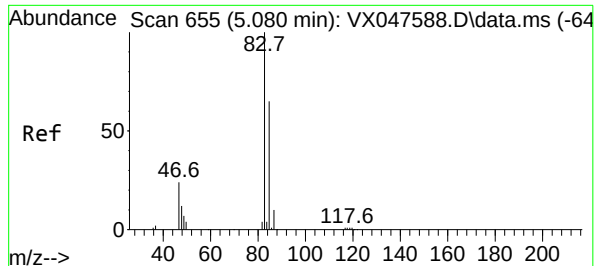
Ion Ratio Lower Upper

96 100

61 133.0 0.0 303.2

98 63.6 0.0 127.8





#30

Chloroform

Concen: 97.504 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion: 83 Resp: 414814

Ion Ratio Lower Upper

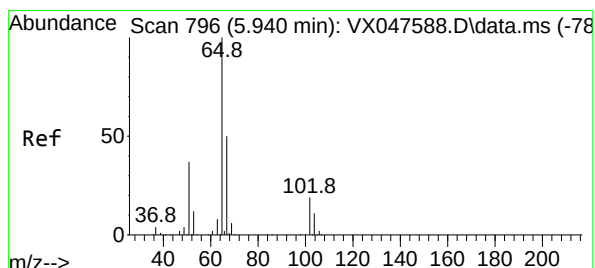
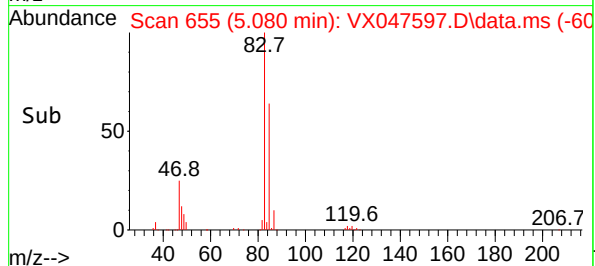
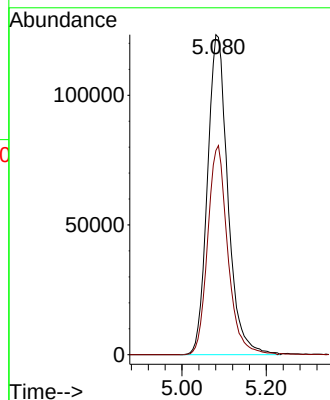
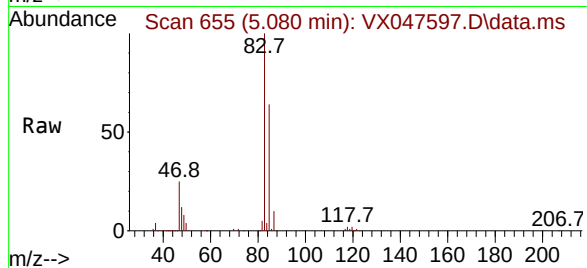
83 100

85 63.8 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
 Supervised By :Semsettin Yesilyurt 09/23/2025



#33

1,2-Dichloroethane-d4

Concen: 51.342 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX047597.D

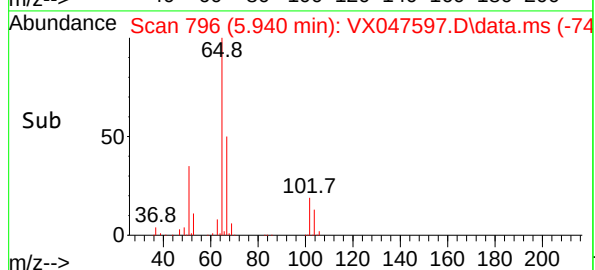
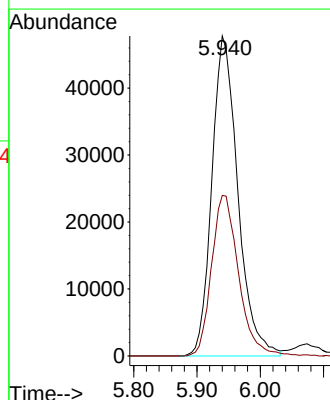
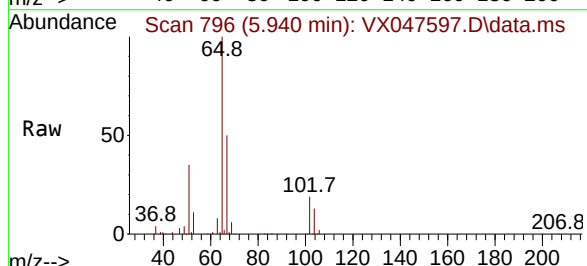
Acq: 16 Sep 2025 16:07

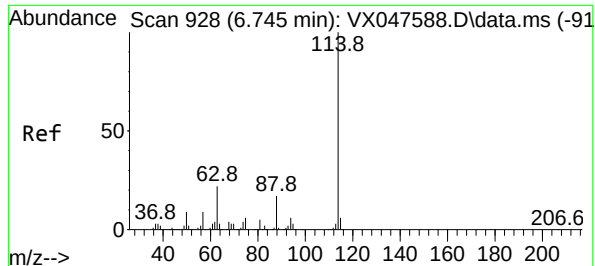
Tgt Ion: 65 Resp: 136237

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion:114 Resp: 30883

Ion Ratio Lower Upper

114 100

63 21.8 0.0 44.0

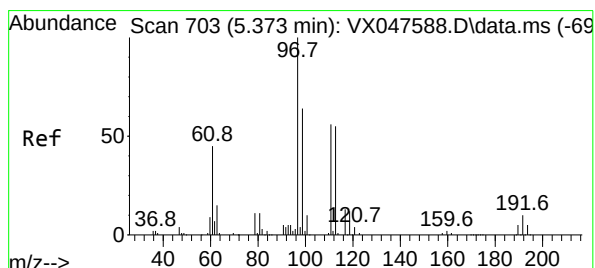
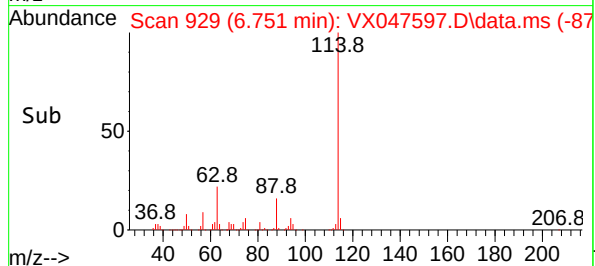
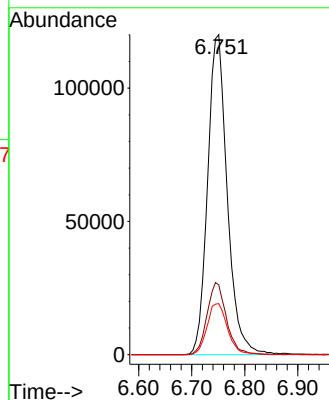
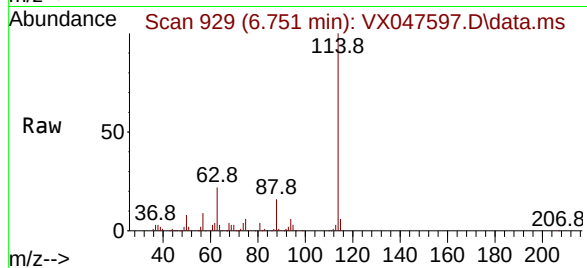
88 15.9 0.0 34.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025

Supervised By :Semsettin Yesilyurt 09/23/2025



#35

Dibromofluoromethane

Concen: 49.274 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

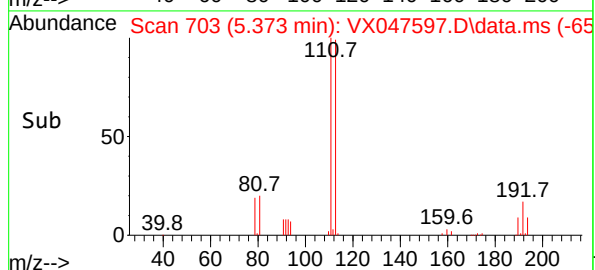
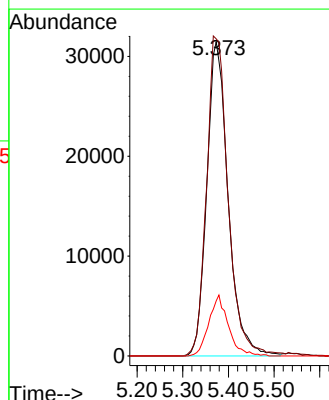
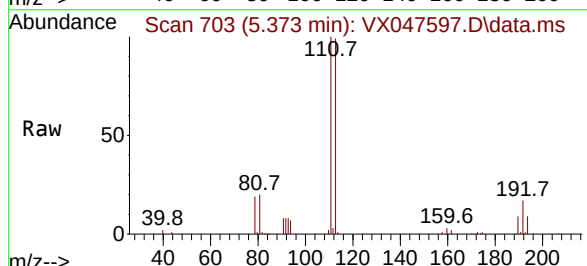
Tgt Ion:113 Resp: 102057

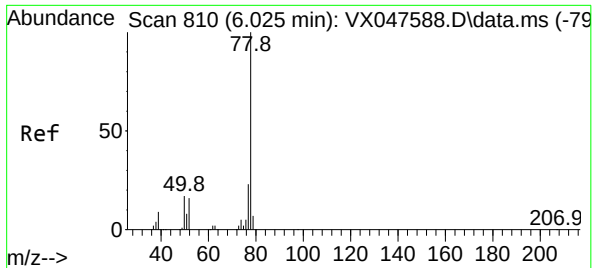
Ion Ratio Lower Upper

113 100

111 103.2 80.9 121.3

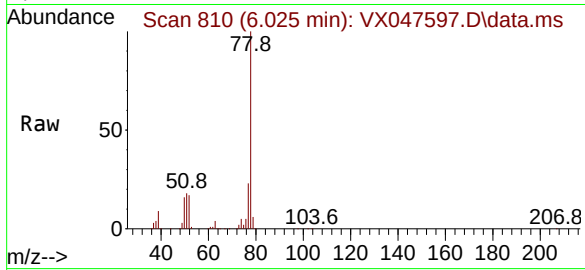
192 17.8 14.2 21.4





#40
Benzene
Concen: 110.264 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

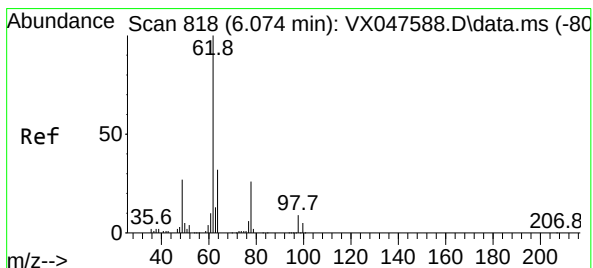
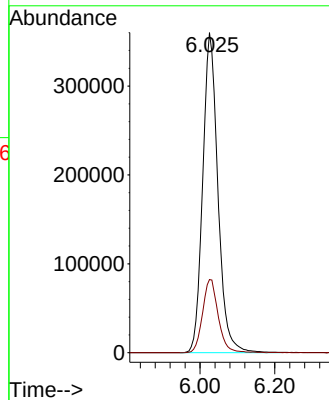
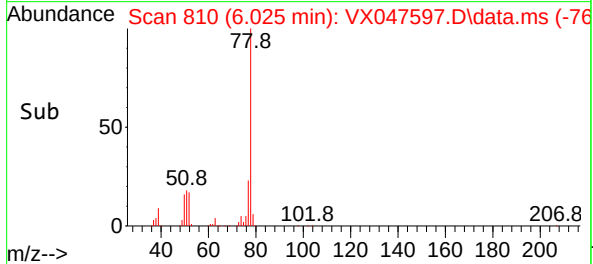
Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP



Tgt Ion: 78 Resp: 1013580
Ion Ratio Lower Upper
78 100
77 22.9 18.8 28.2

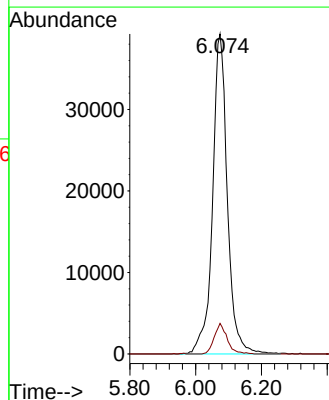
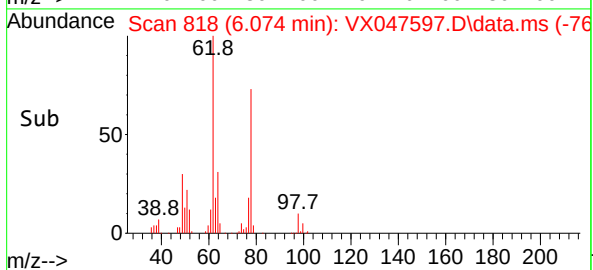
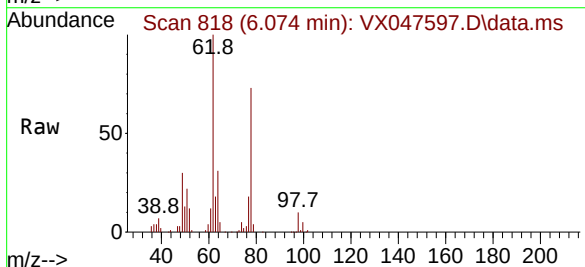
Manual Integrations
APPROVED

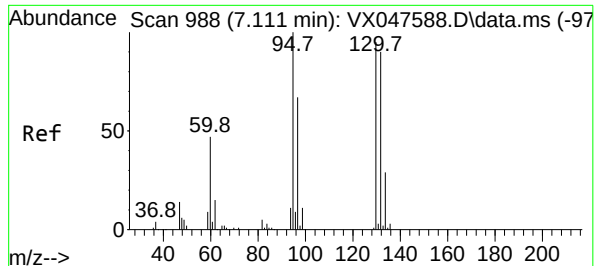
Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#42
1,2-Dichloroethane
Concen: 35.011 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 62 Resp: 122452
Ion Ratio Lower Upper
62 100
98 8.3 0.0 17.0





#44

Trichloroethene

Concen: 90.421 ug/l

RT: 7.111 min Scan# 988

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion:130 Resp: 200949

Ion Ratio Lower Upper

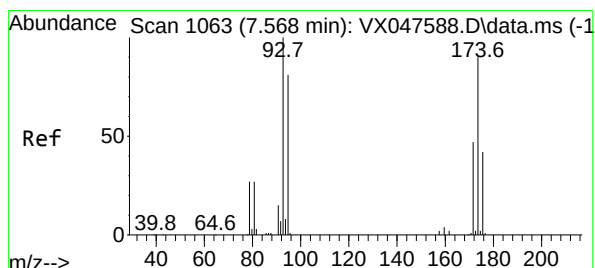
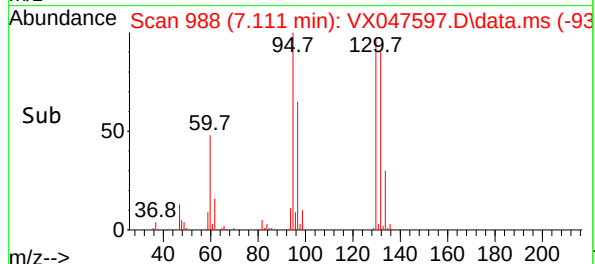
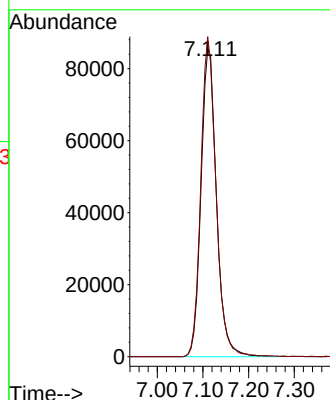
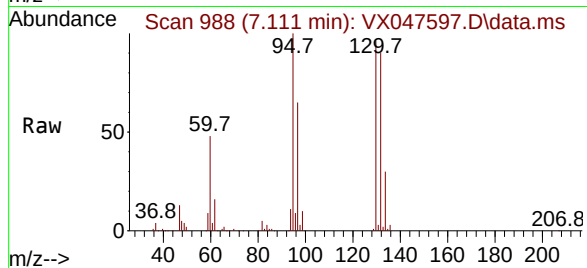
130 100

95 104.0 0.0 210.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#46

Dibromomethane

Concen: 123.246 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

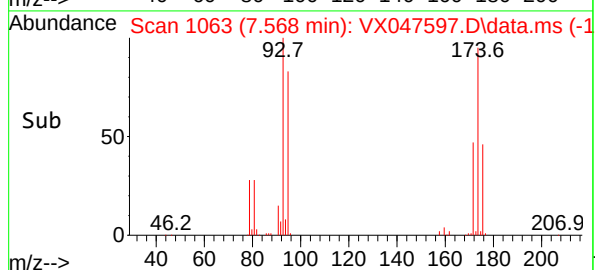
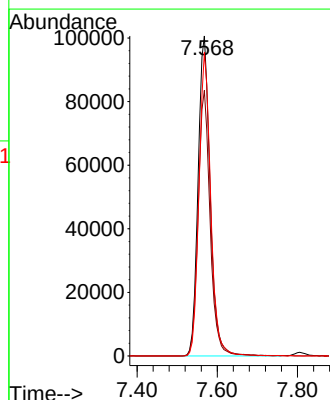
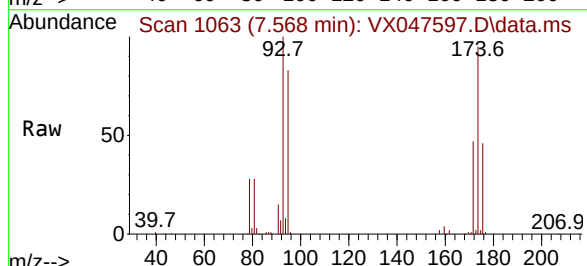
Tgt Ion: 93 Resp: 211104

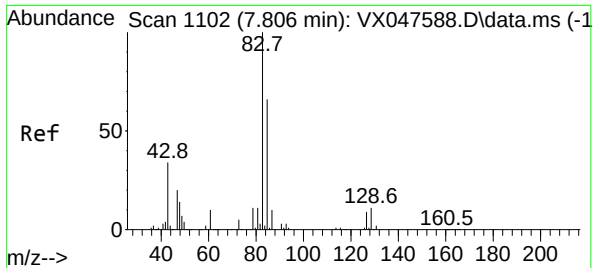
Ion Ratio Lower Upper

93 100

95 81.8 65.0 97.6

174 92.1 71.6 107.4





#47

Bromodichloromethane

Concen: 17.059 ug/l

RT: 7.812 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

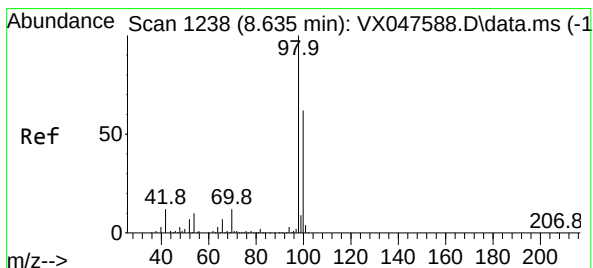
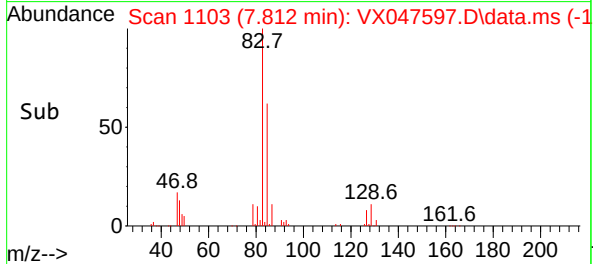
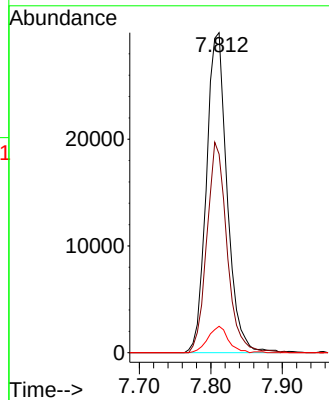
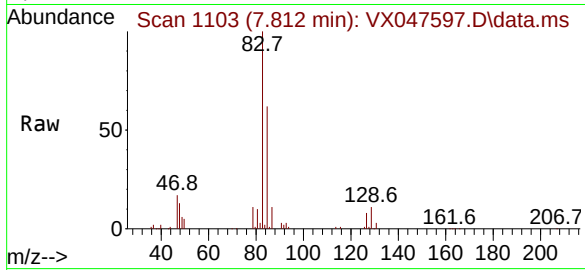
WP0925-PT-VOA-WP

Tgt Ion:	83	Resp:	60290
Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.5	78.7
127	8.3	6.9	10.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#50

Toluene-d8

Concen: 49.507 ug/l

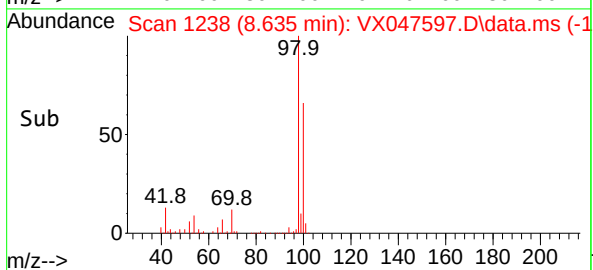
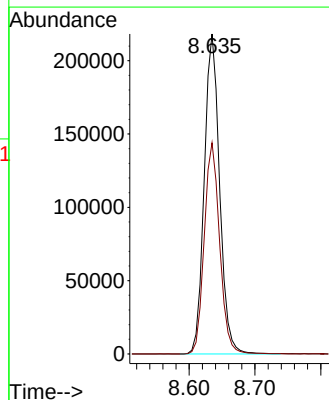
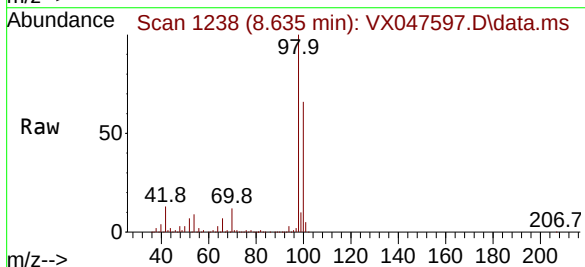
RT: 8.635 min Scan# 1238

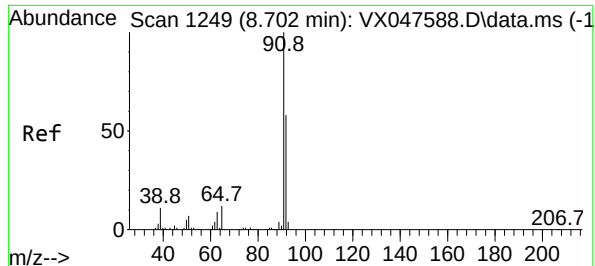
Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Tgt Ion:	98	Resp:	354807
Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4





#52

Toluene

Concen: 35.414 ug/l

RT: 8.702 min Scan# 1249

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion: 92 Resp: 20056

Ion Ratio Lower Upper

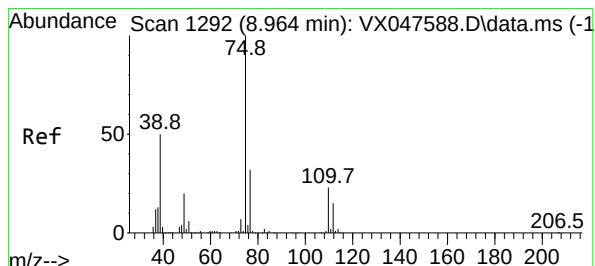
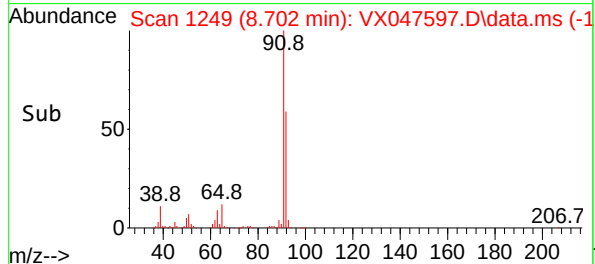
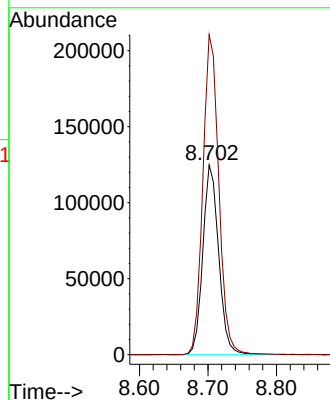
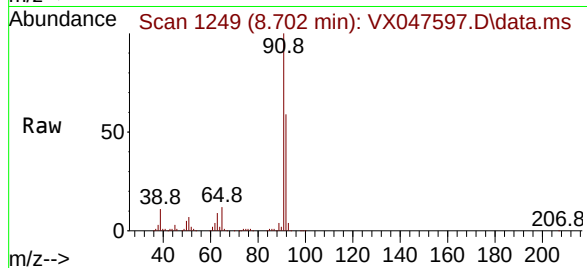
92 100

91 170.2 137.1 205.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#53

t-1,3-Dichloropropene

Concen: 62.030 ug/l

RT: 8.964 min Scan# 1292

Delta R.T. -0.000 min

Lab File: VX047597.D

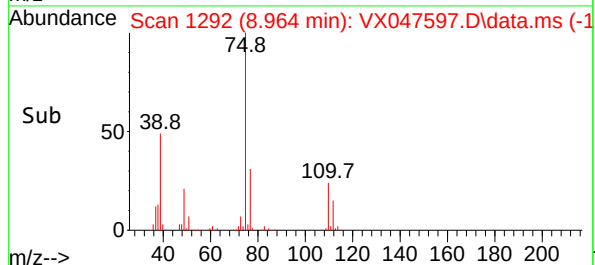
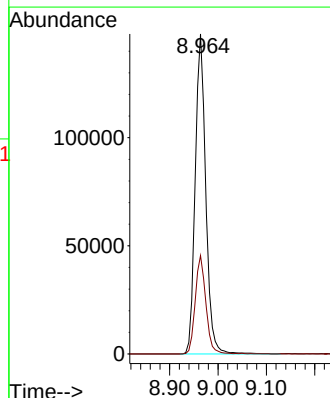
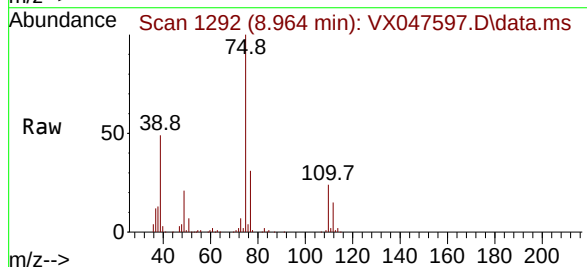
Acq: 16 Sep 2025 16:07

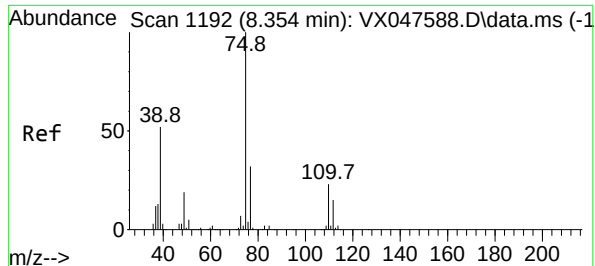
Tgt Ion: 75 Resp: 223638

Ion Ratio Lower Upper

75 100

77 30.8 25.4 38.2





#54

cis-1,3-Dichloropropene

Concen: 99.292 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion: 75 Resp: 38262

Ion Ratio Lower Upper

75 100

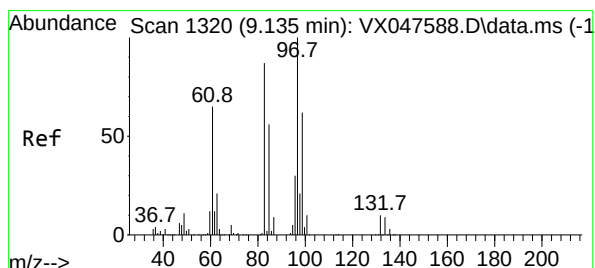
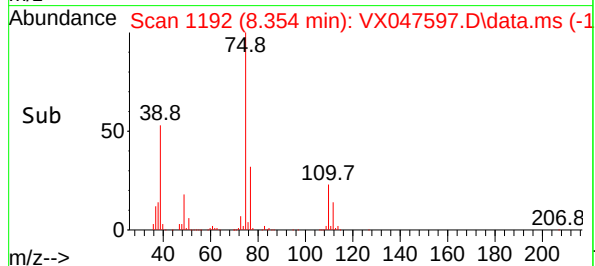
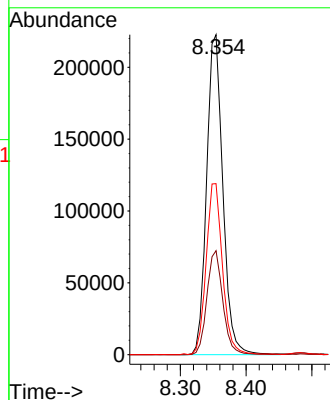
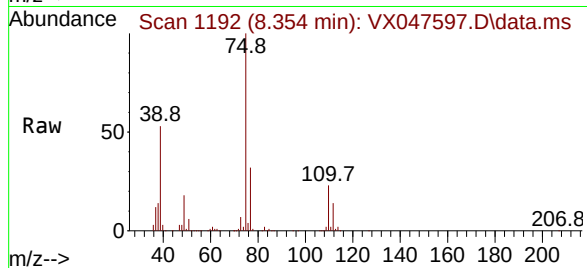
77 32.5 25.8 38.6

39 53.3 41.4 62.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#55

1,1,2-Trichloroethane

Concen: 103.436 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Tgt Ion: 97 Resp: 225879

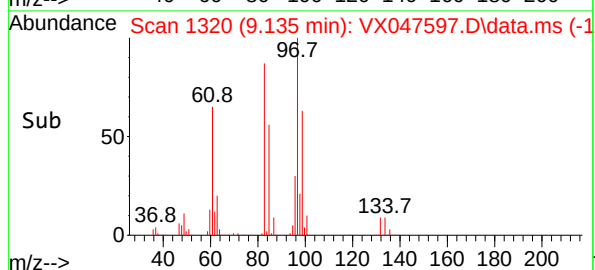
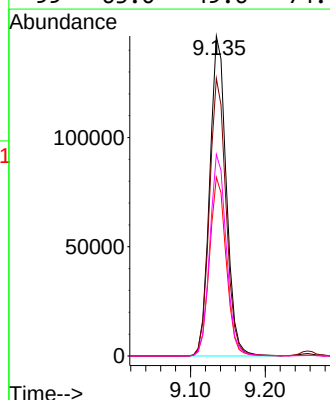
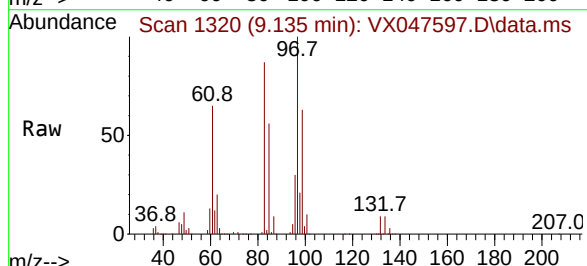
Ion Ratio Lower Upper

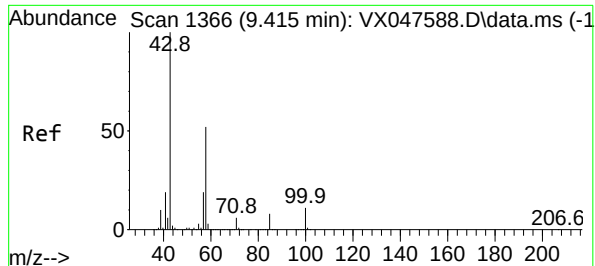
97 100

83 86.8 69.6 104.4

85 55.9 45.0 67.6

99 63.0 49.6 74.4





#59

2-Hexanone

Concen: 108.592 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion: 43 Resp: 229810

Ion Ratio Lower Upper

43

100

58

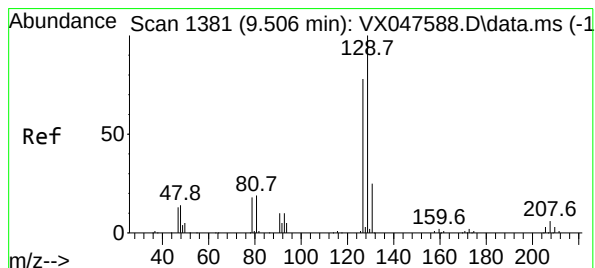
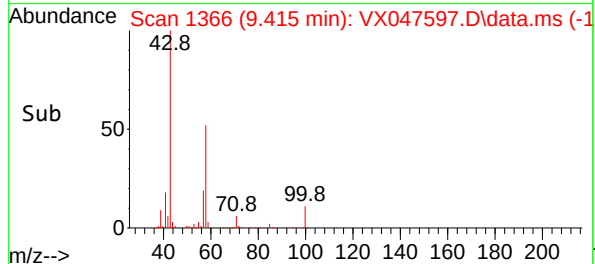
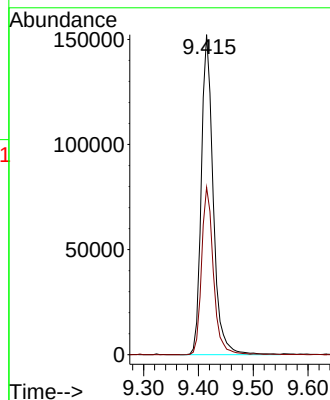
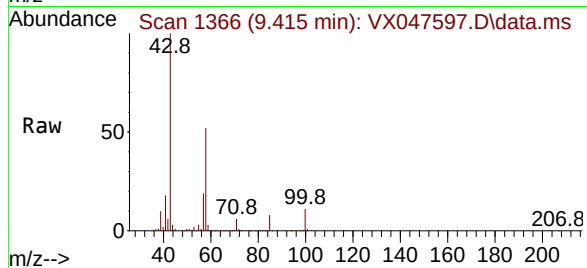
51.9

26.1

78.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025

#60

Dibromochloromethane

Concen: 68.892 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Tgt Ion:129 Resp: 173345

Ion Ratio Lower Upper

129

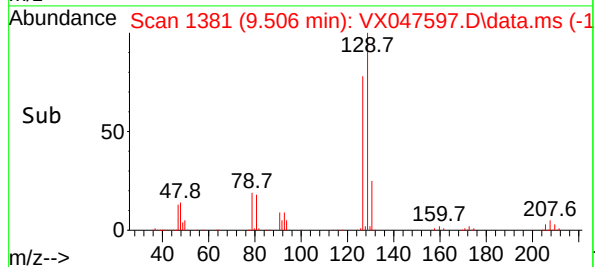
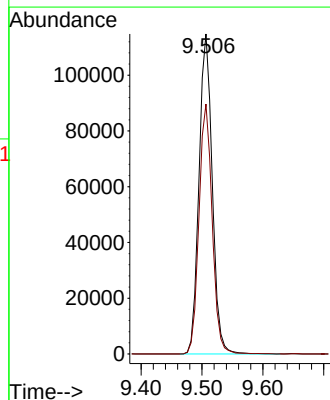
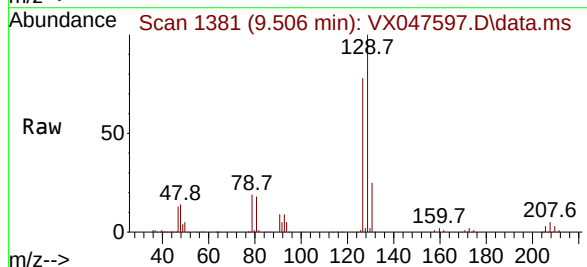
100

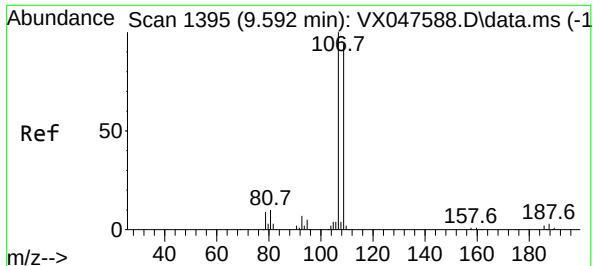
127

77.9

38.4

115.2





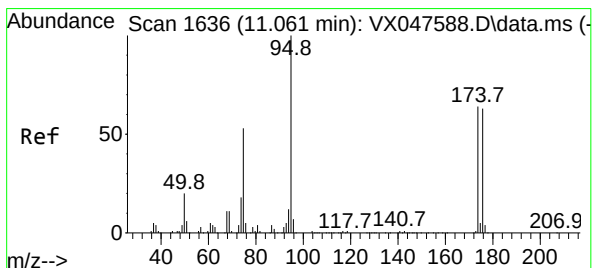
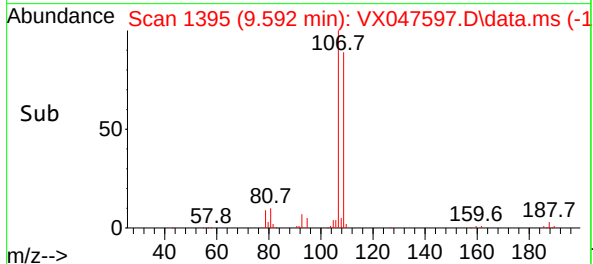
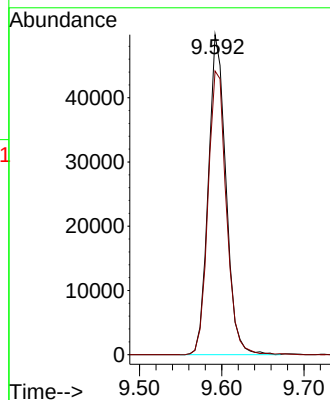
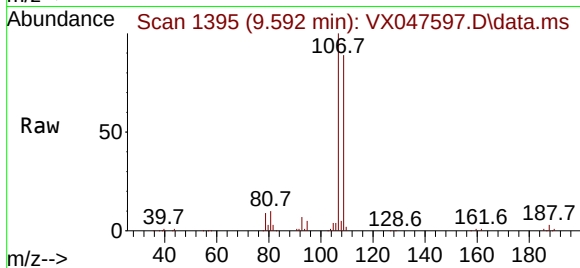
#61
1,2-Dibromoethane
Concen: 33.321 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

Tgt Ion: 107 Resp: 74115
Ion Ratio Lower Upper
107 100
109 92.4 75.3 112.9

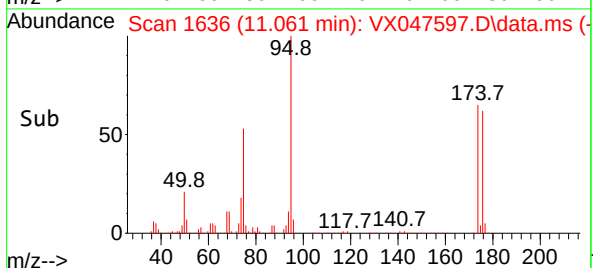
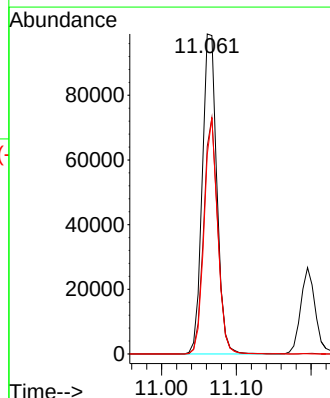
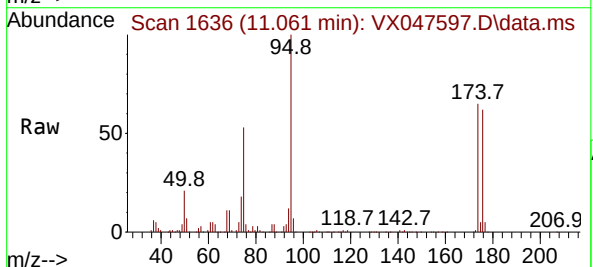
Manual Integrations
APPROVED

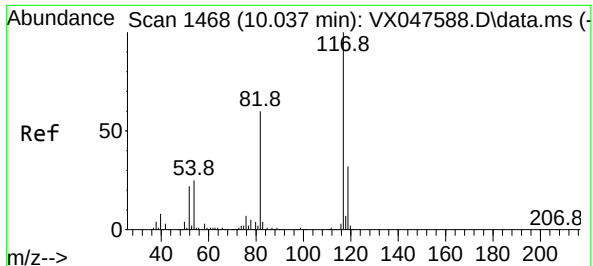
Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#62
4-Bromofluorobenzene
Concen: 49.286 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

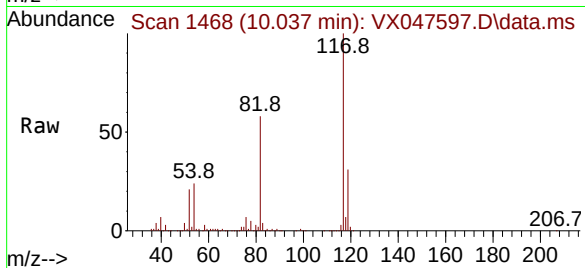
Tgt Ion: 95 Resp: 134055
Ion Ratio Lower Upper
95 100
174 71.0 0.0 141.6
176 68.5 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

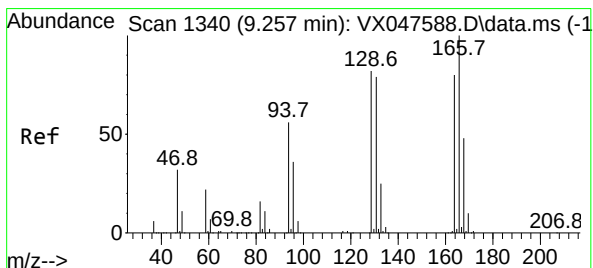
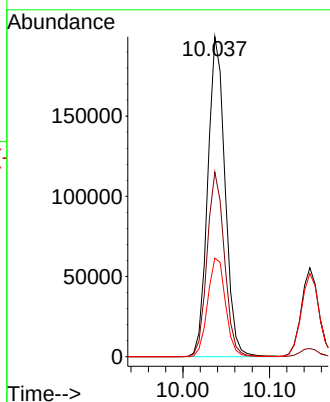
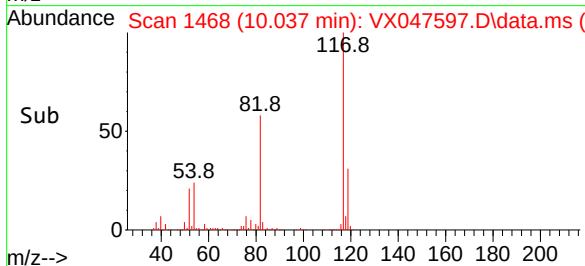
Instrument : MSVOA_X
ClientSampleId : WP0925-PT-VOA-WP



Tgt Ion:117 Resp: 276674
Ion Ratio Lower Upper
117 100
82 57.7 47.8 71.6
119 30.8 25.2 37.8

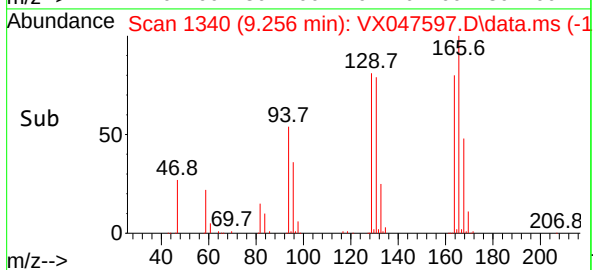
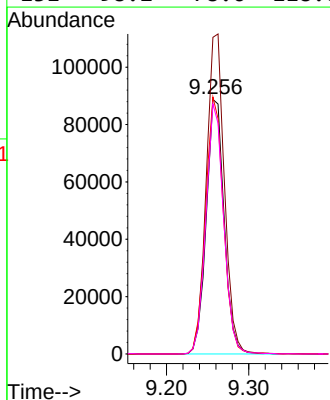
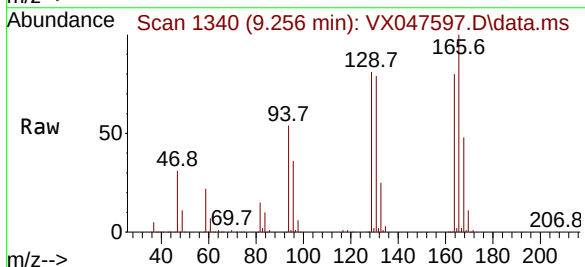
Manual Integrations
APPROVED

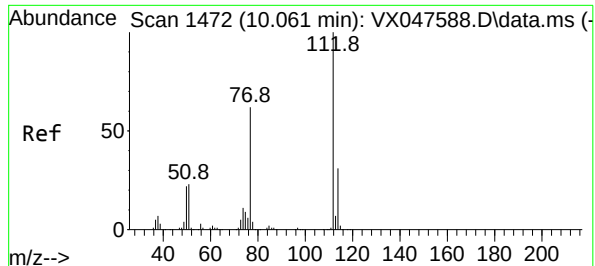
Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#64
Tetrachloroethene
Concen: 74.017 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:164 Resp: 133498
Ion Ratio Lower Upper
164 100
166 124.4 100.2 150.2
129 101.0 81.8 122.6
131 98.2 78.6 118.0





#65

Chlorobenzene

Concen: 23.140 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion:112 Resp: 14544

Ion Ratio Lower Upper

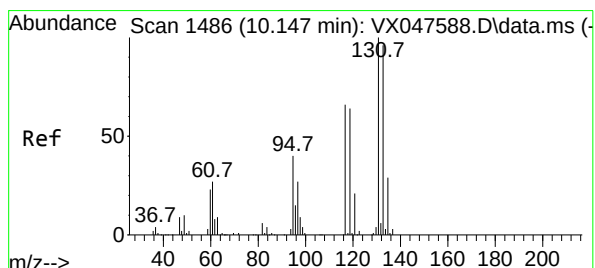
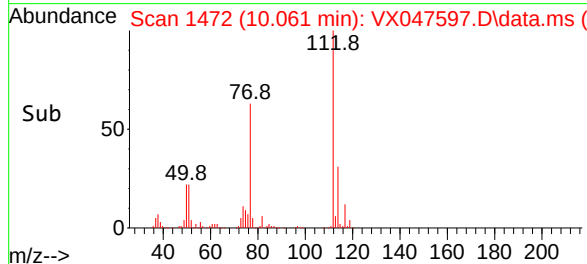
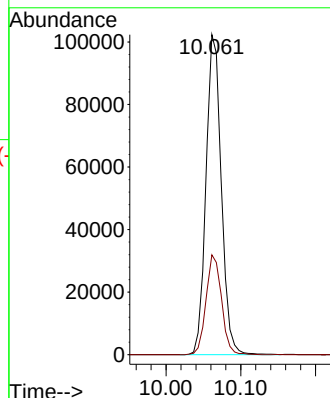
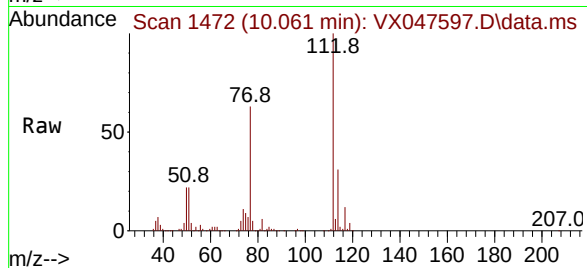
112 100

114 31.2 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 53.051 ug/l

RT: 10.147 min Scan# 1486

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

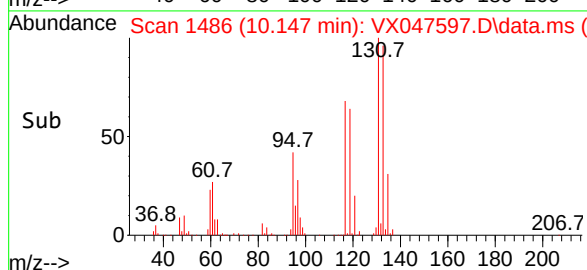
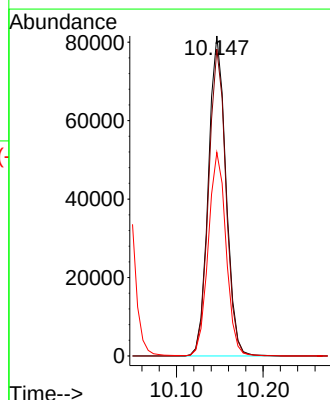
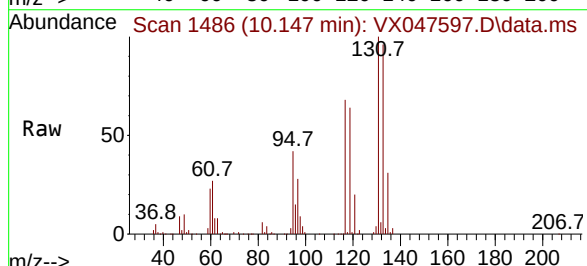
Tgt Ion:131 Resp: 115065

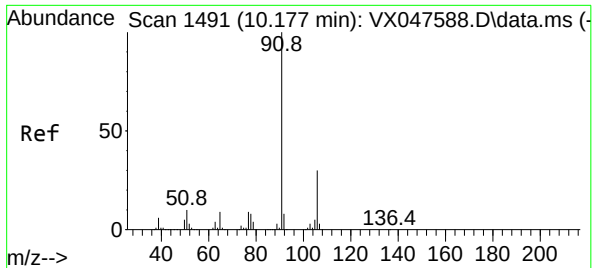
Ion Ratio Lower Upper

131 100

133 94.6 47.3 142.0

119 64.3 32.0 96.0





#67

Ethyl Benzene

Concen: 48.634 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion: 91 Resp: 52744

Ion Ratio Lower Upper

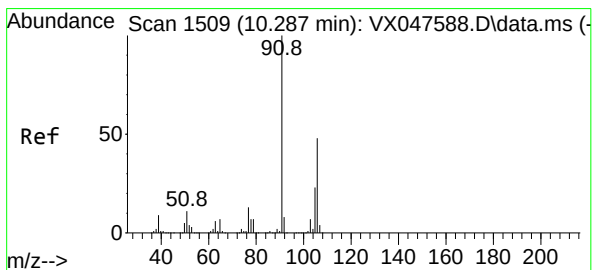
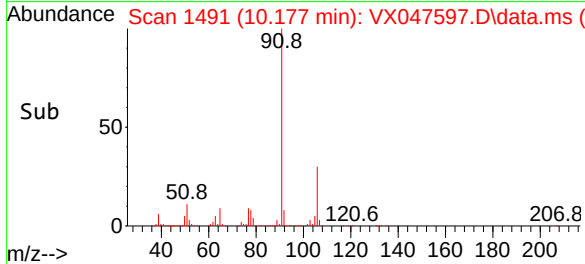
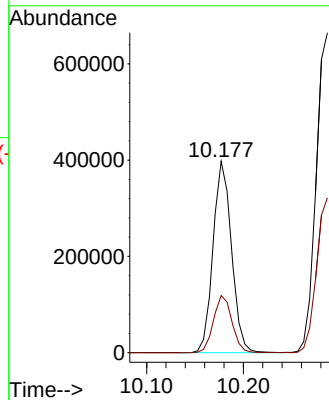
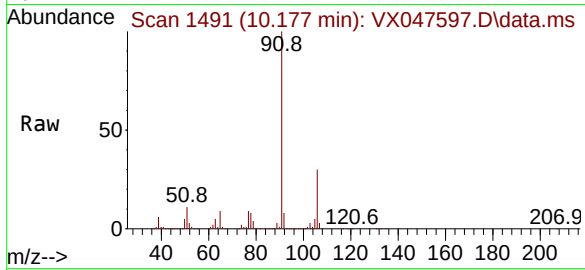
91 100

106 29.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
 Supervised By :Semsettin Yesilyurt 09/23/2025



#68

m/p-Xylenes

Concen: 110.638 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX047597.D

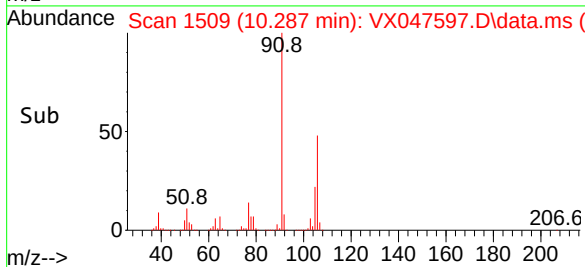
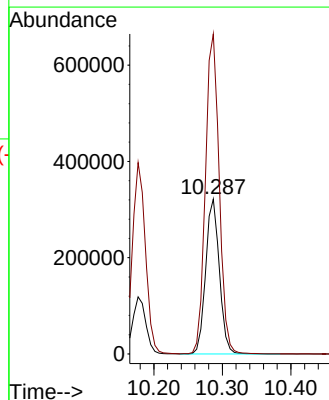
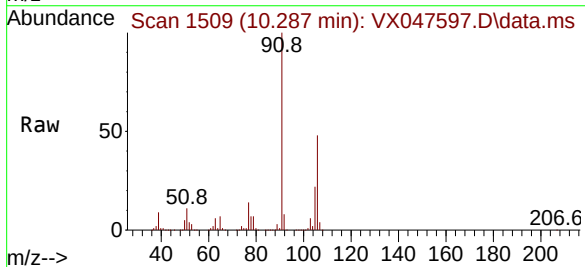
Acq: 16 Sep 2025 16:07

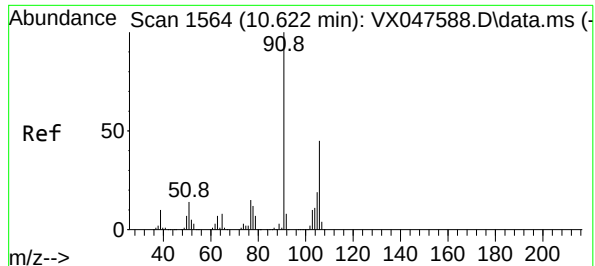
Tgt Ion:106 Resp: 446608

Ion Ratio Lower Upper

106 100

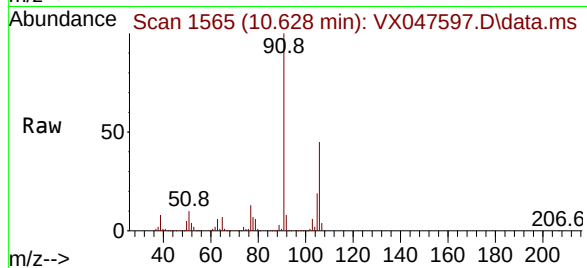
91 208.5 167.8 251.8





#69
o-Xylene
Concen: 142.992 ug/l
RT: 10.628 min Scan# 1564
Delta R.T. 0.006 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

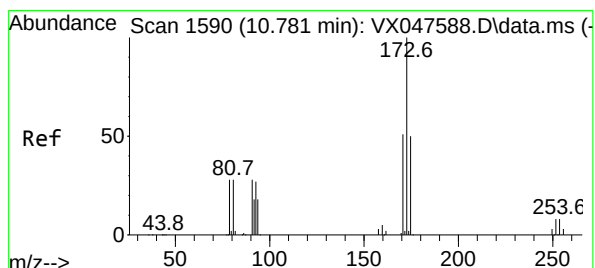
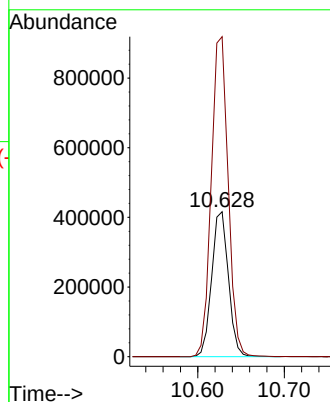
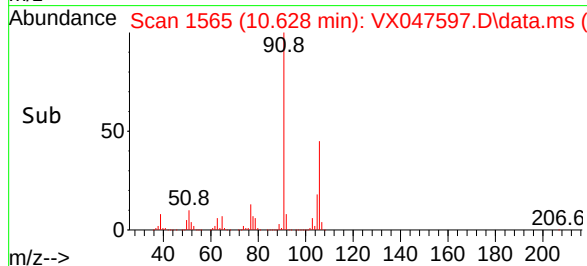
Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP



Tgt Ion:106 Resp: 55829
Ion Ratio Lower Upper
106 100
91 223.1 111.1 333.4

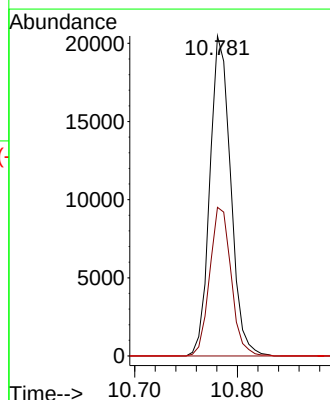
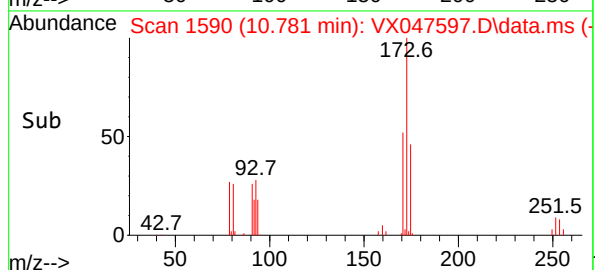
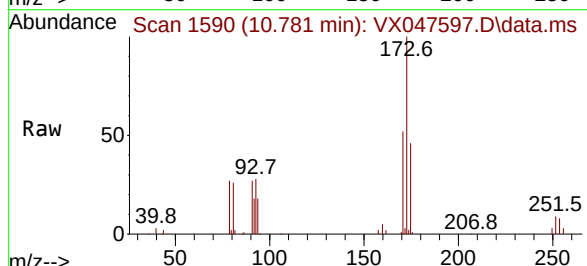
Manual Integrations
APPROVED

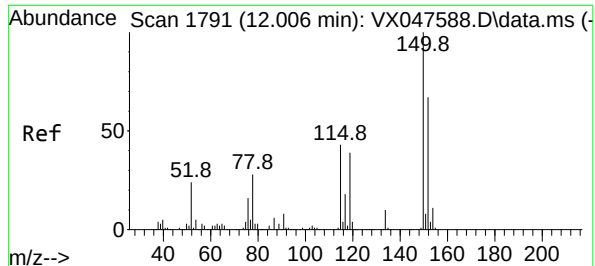
Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#71
Bromoform
Concen: 17.766 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:173 Resp: 28772
Ion Ratio Lower Upper
173 100
175 47.9 24.9 74.6
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion:152 Resp: 133950

Ion Ratio Lower Upper

152 100

115 63.0 44.9 134.5

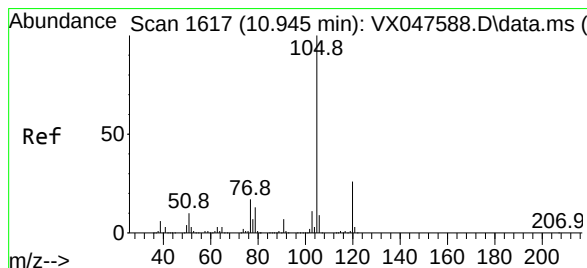
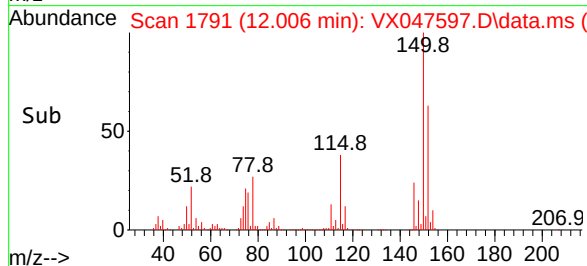
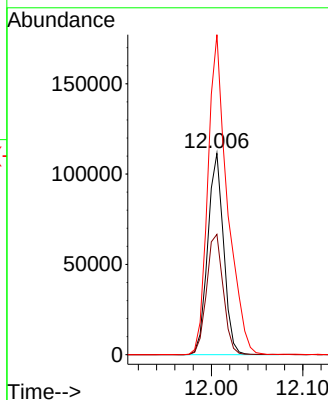
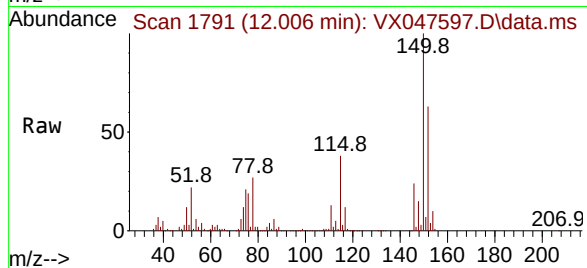
150 195.4 0.0 352.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025

Supervised By :Semsettin Yesilyurt 09/23/2025



#73

Isopropylbenzene

Concen: 0.211 ug/l

RT: 10.945 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VX047597.D

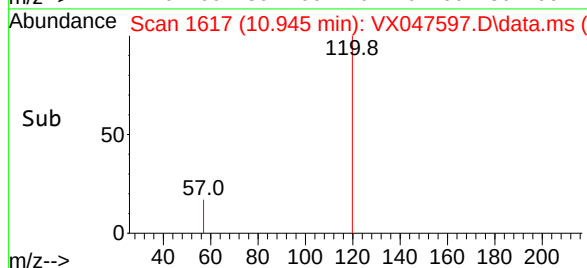
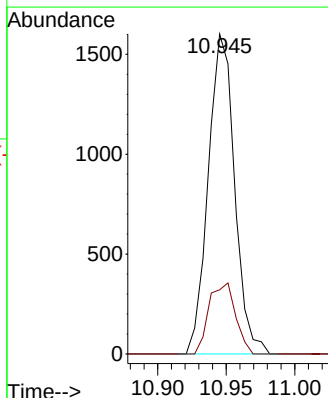
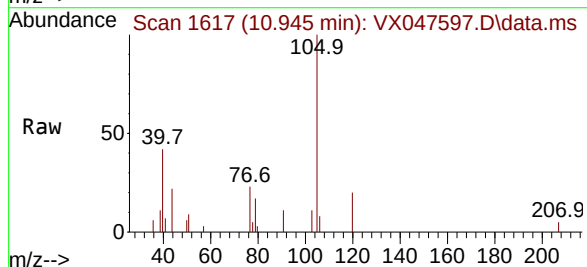
Acq: 16 Sep 2025 16:07

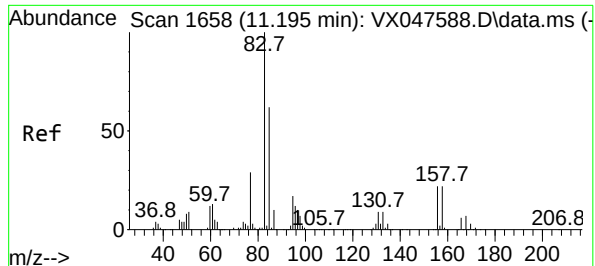
Tgt Ion:105 Resp: 2144

Ion Ratio Lower Upper

105 100

120 22.2 12.8 38.4





#75

1,1,2,2-Tetrachloroethane

Concen: 71.432 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion: 83 Resp: 220089

Ion Ratio Lower Upper

83 100

131 9.3 5.0 14.9

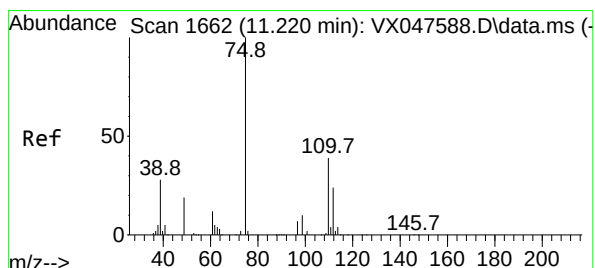
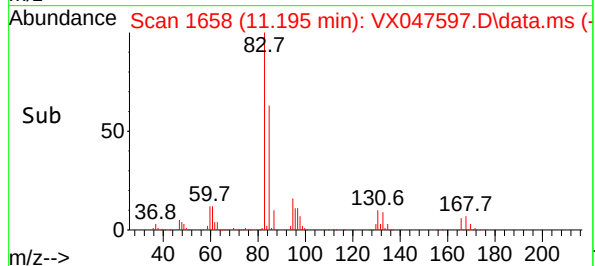
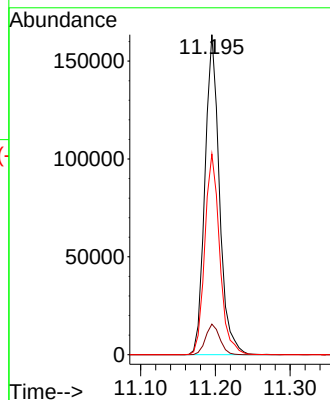
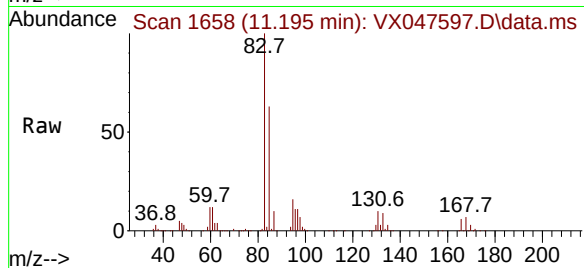
85 64.4 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025

Supervised By :Semsettin Yesilyurt 09/23/2025



#76

1,2,3-Trichloropropane

Concen: 99.654 ug/l

RT: 11.220 min Scan# 1662

Delta R.T. -0.000 min

Lab File: VX047597.D

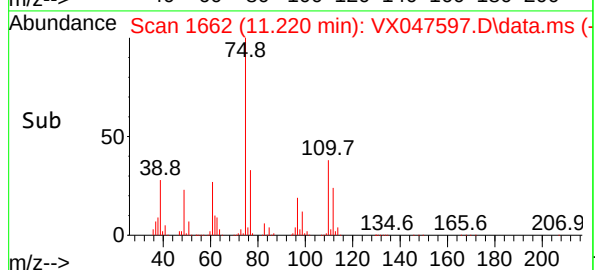
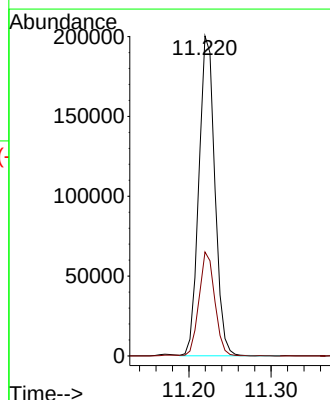
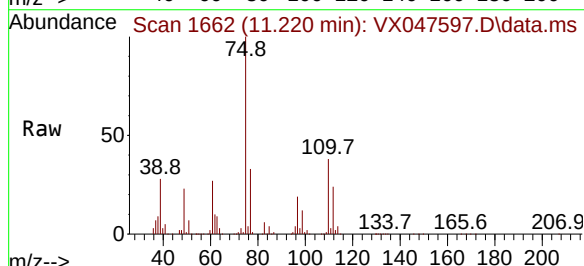
Acq: 16 Sep 2025 16:07

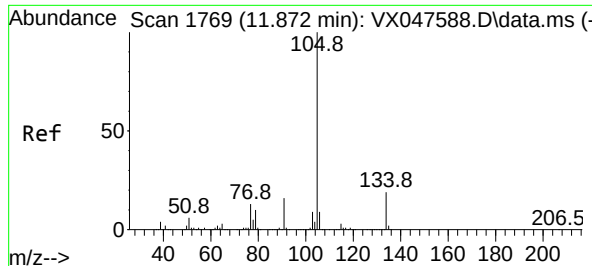
Tgt Ion: 75 Resp: 270268

Ion Ratio Lower Upper

75 100

77 32.0 18.8 56.4





#85

sec-Butylbenzene

Concen: 0.281 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion:105 Resp: 286

Ion Ratio Lower Upper

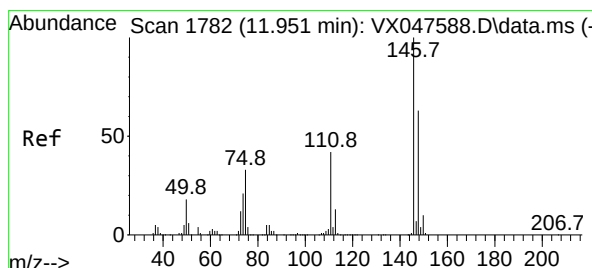
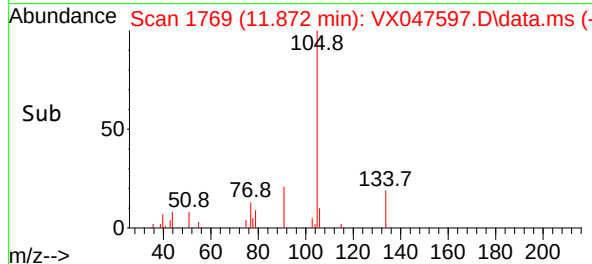
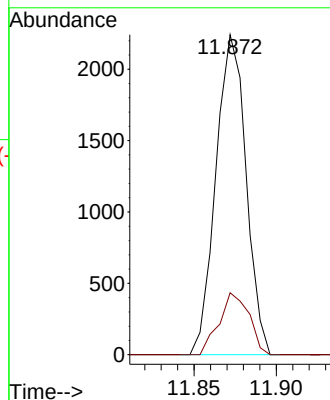
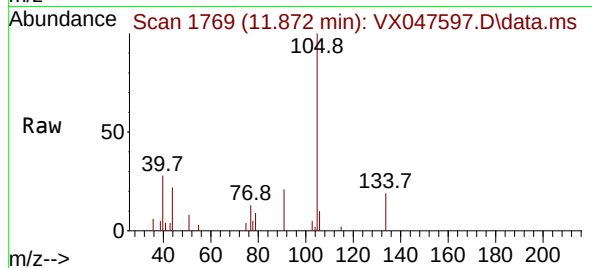
105 100

134 19.2 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
 Supervised By :Semsettin Yesilyurt 09/23/2025



#87

1,3-Dichlorobenzene

Concen: 0.223 ug/l m

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

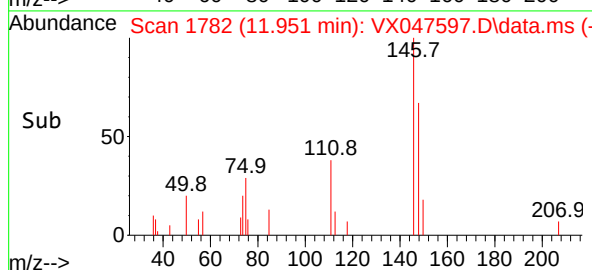
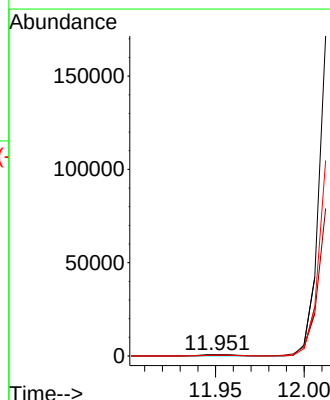
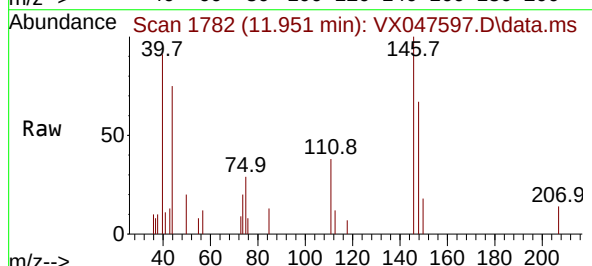
Tgt Ion:146 Resp: 1037

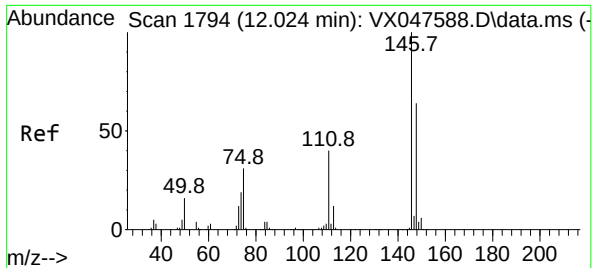
Ion Ratio Lower Upper

146 100

111 0.0 21.5 64.5#

148 0.0 32.0 96.0#





#88

1,4-Dichlorobenzene

Concen: 111.499 ug/l

RT: 12.024 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

WP0925-PT-VOA-WP

Tgt Ion:146 Resp: 533129

Ion Ratio Lower Upper

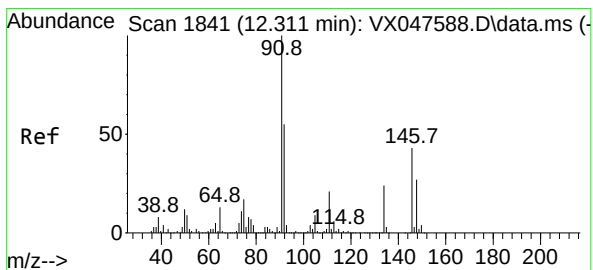
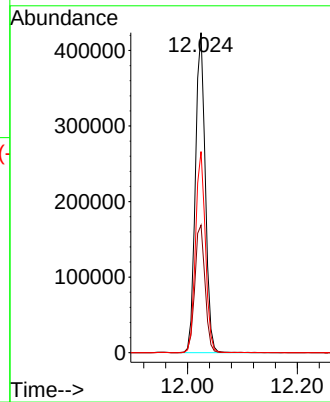
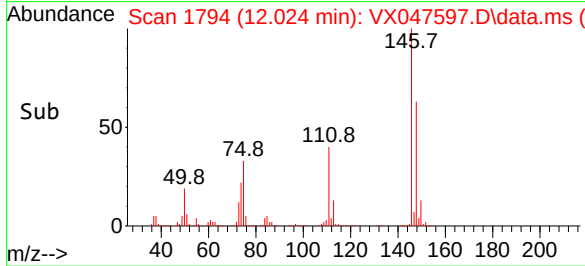
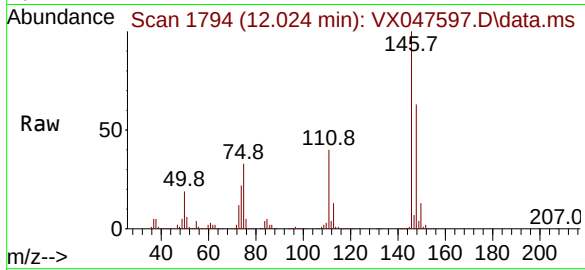
146 100

111 41.2 20.8 62.4

148 62.8 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025

#89

n-Butylbenzene

Concen: 0.431 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

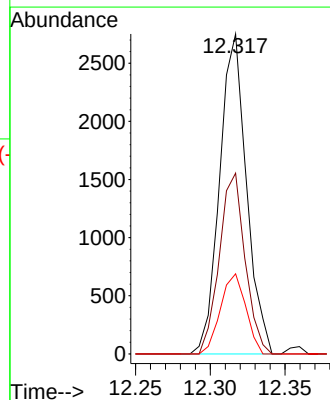
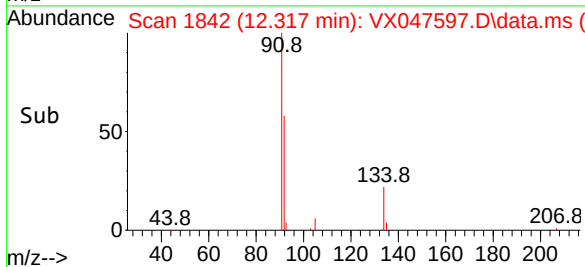
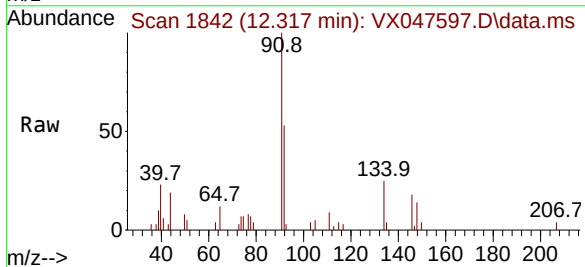
Tgt Ion: 91 Resp: 3435

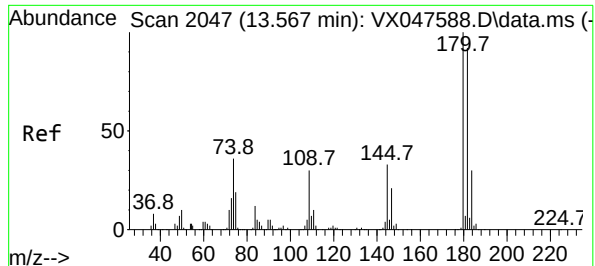
Ion Ratio Lower Upper

91 100

92 54.1 27.6 82.7

134 23.6 12.6 37.8





#93

1,2,4-Trichlorobenzene

Concen: 0.609 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

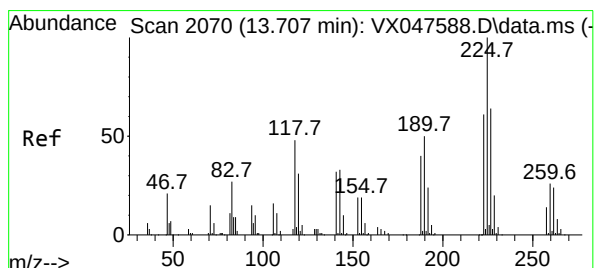
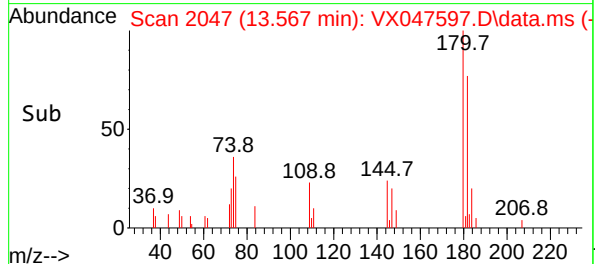
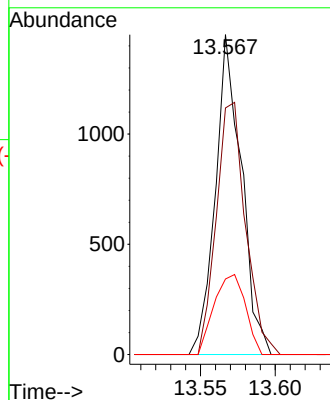
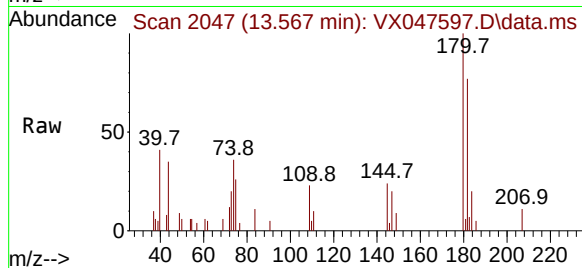
WP0925-PT-VOA-WP

Tgt Ion:	180	Resp:	1750
Ion Ratio	Lower	Upper	
180	100		
182	88.7	46.6	139.8
145	30.1	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#94

Hexachlorobutadiene

Concen: 1.442 ug/l

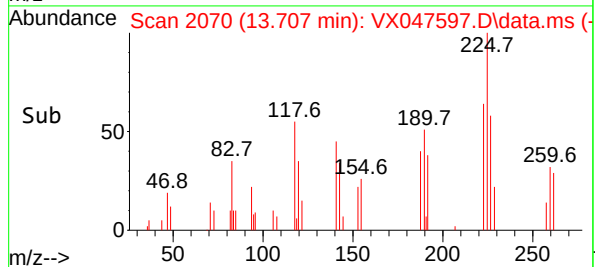
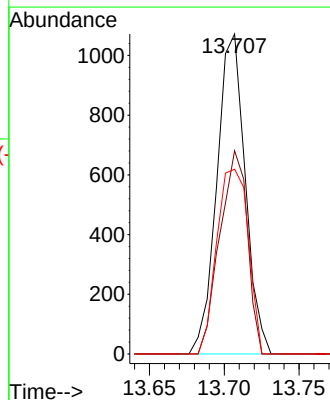
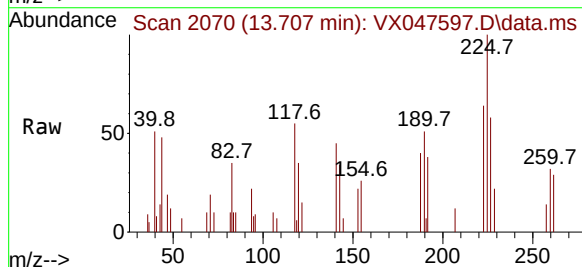
RT: 13.707 min Scan# 2070

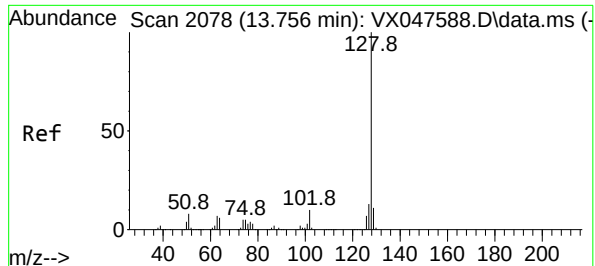
Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Tgt Ion:	225	Resp:	1413
Ion Ratio	Lower	Upper	
225	100		
223	61.5	31.7	95.1
227	64.2	32.0	96.0





#95

Naphthalene

Concen: 78.440 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Instrument :

MSVOA_X

ClientSampleId :

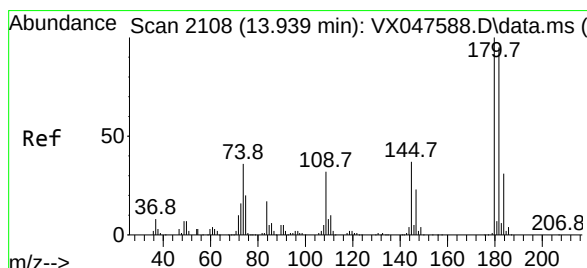
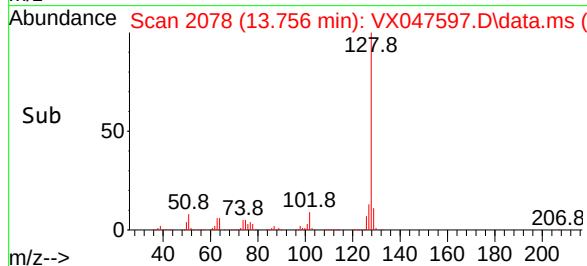
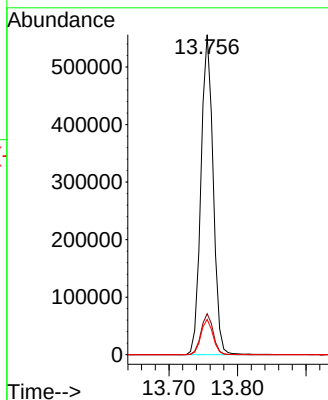
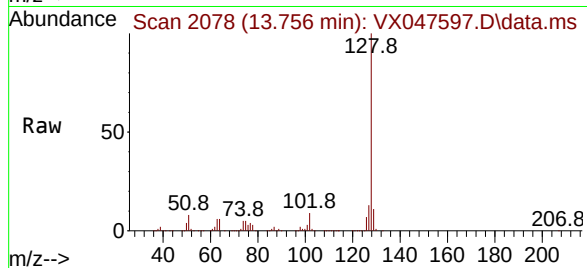
WP0925-PT-VOA-WP

Tgt Ion:	128	Resp:	68899
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025



#96

1,2,3-Trichlorobenzene

Concen: 0.588 ug/l

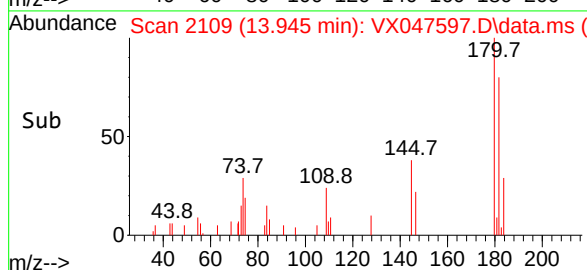
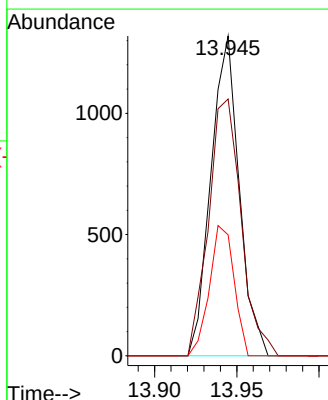
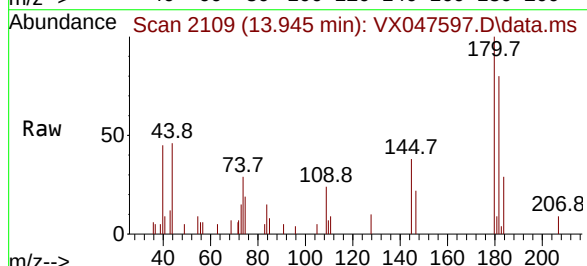
RT: 13.945 min Scan# 2109

Delta R.T. 0.006 min

Lab File: VX047597.D

Acq: 16 Sep 2025 16:07

Tgt Ion:	180	Resp:	1578
Ion Ratio	Lower	Upper	
180	100		
182	92.3	47.6	142.8
145	35.5	17.9	53.7





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG No.: Q3015
 Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:	RRF001 = VX047585.D			RRF005 = VX047586.D			RRF020 = VX047587.D		
	RRF050 = VX047588.D			RRF100 = VX047589.D			RRF150 = VX047590.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10	
Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.9	
Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.9	
Ethyl Acetate	0.429	0.561	0.554	0.532	0.533	0.539	0.525	9.2	
Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15	
Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.4	
Trichlorofluoromethane	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.5	
1,1,2-Trichlorotrifluoroethane	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.2	
1,1-Dichloroethene	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.7	
Acrolein		0.071	0.069	0.082	0.089	0.097	0.082	14.6	
Acrylonitrile	0.264	0.329	0.343	0.347	0.343	0.344	0.328	9.8	
Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.7	
Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.8	
Methyl tert-butyl Ether	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.5	
Methylene Chloride	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.5	
trans-1,2-Dichloroethene	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.3	
Vinyl Acetate	1.541	1.937	2.020	1.992	1.958	1.961	1.901	9.4	
1,1-Dichloroethane	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.8	
2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	9	
Carbon Tetrachloride	0.482	0.574	0.555	0.539	0.526	0.518	0.532	6	
2,2-Dichloropropane	0.945	1.096	1.074	1.068	1.055	1.060	1.050	5.1	
cis-1,2-Dichloroethene	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.4	
Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.7	
1,1,1-Trichloroethane	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.3	
1,1-Dichloropropene	0.484	0.520	0.508	0.487	0.471	0.469	0.490	4.2	
Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.1	
1,2-Dichloroethane	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.8	
Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.9	
1,2-Dichloropropane	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.4	
Dibromomethane	0.248	0.285	0.289	0.288	0.276	0.277	0.277	5.5	

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG No.: Q3015
 Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX047585.D		RRF005 = VX047586.D		RRF020 = VX047587.D			
		RRF050 = VX047588.D		RRF100 = VX047589.D		RRF150 = VX047590.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Bromodichloromethane	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.7	
4-Methyl-2-Pentanone	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.3	
Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.2	
t-1,3-Dichloropropene	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.3	
cis-1,3-Dichloropropene	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.7	
1,1,2-Trichloroethane	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.1	
1,3-Dichloropropane	0.507	0.648	0.636	0.638	0.607	0.609	0.607	8.5	
2-Chloroethyl Vinyl ether	0.094	0.212	0.210	0.272	0.280	0.292	0.227	32.7	
2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.8	
Dibromochloromethane	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.5	
1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.1	
Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6	
Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.2	
1,1,1,2-Tetrachloroethane	0.327	0.404	0.402	0.414	0.404	0.402	0.392	8.3	
Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.6	
m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.8	
o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.1	
Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.7	
Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.4	
Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.9	
1,1,2,2-Tetrachloroethane	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.2	
1,2,3-Trichloropropane	0.847	1.023	1.073	1.128	0.939	1.064	1.012	10.1	
Bromobenzene	0.760	0.964	0.992	0.988	0.960	0.954	0.936	9.4	
n-propylbenzene	3.680	4.667	4.739	4.792	4.581	4.504	4.494	9.2	
2-Chlorotoluene	2.276	2.859	2.935	2.915	2.798	2.730	2.752	8.9	
1,3,5-Trimethylbenzene	2.458	3.235	3.311	3.343	3.221	3.171	3.123	10.6	
4-Chlorotoluene	2.754	3.347	3.410	3.433	3.285	3.275	3.251	7.7	
1,2,4-Trimethylbenzene	2.522	3.302	3.381	3.344	3.234	3.216	3.166	10.2	
sec-Butylbenzene	3.110	4.001	3.945	4.028	3.867	3.834	3.797	9.1	
p-Isopropyltoluene	2.660	3.372	3.371	3.419	3.263	3.205	3.215	8.8	

* 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.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG No.: Q3015
 Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX047585.D		RRF005 = VX047586.D		RRF020 = VX047587.D			
		RRF050 = VX047588.D		RRF100 = VX047589.D		RRF150 = VX047590.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
1,3-Dichlorobenzene	1.462	1.800	1.829	1.817	1.768	1.758	1.739	8	
1,4-Dichlorobenzene	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.5	
n-Butylbenzene	2.429	3.070	3.114	3.139	3.098	2.999	2.975	9.1	
1,2-Dichlorobenzene	1.359	1.691	1.757	1.746	1.696	1.692	1.657	9	
1,2-Dibromo-3-Chloropropane	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.1	
1,2,4-Trichlorobenzene	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.3	
Hexachlorobutadiene	0.341	0.377	0.361	0.384	0.377	0.354	0.366	4.5	
Naphthalene	2.503	3.153	3.410	3.539	3.496	3.571	3.279	12.5	
1,2,3-Trichlorobenzene	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.7	
1,2-Dichloroethane-d4		0.884	0.647	0.770	0.815	0.863	0.796	11.8	
Dibromofluoromethane		0.356	0.266	0.331	0.355	0.368	0.335	12.3	
Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.1	
4-Bromofluorobenzene		0.478	0.360	0.427	0.452	0.484	0.440	11.4	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X091625W.M
 Title : SW846 8260
 Last Update : Wed Sep 17 06:39:58 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX047585.D 5 =VX047586.D 20 =VX047587.D 50 =VX047588.D 100 =VX047589.D 150 =VX047590.D

	Compound	1	5	20	50	100	150	Avg	%RSD

1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10.01
3) P	Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.92
4) C	Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.87#
5) T	Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15.01
6) T	Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.36
7) T	Trichlorofluor...	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.49
8) T	Diethyl Ether	0.372	0.405	0.413	0.409	0.420	0.409	0.405	4.17
9) T	1,1,2-Trichlor...	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.21
10) T	Methyl Iodide		0.865	0.922	0.911	0.925	0.886	0.902	2.85
11) T	Tert butyl alc...		0.085	0.086	0.089	0.090	0.094	0.089	4.18
12) CM	1,1-Dichloroet...	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.71#
13) T	Acrolein		0.071	0.069	0.082	0.089	0.097	0.082	14.59
14) T	Allyl chloride	1.194	1.267	1.249	1.211	1.226	1.207	1.226	2.25
15) T	Acrylonitrile	0.264	0.329	0.343	0.347	0.343	0.344	0.328	9.82
16) T	Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.67
17) T	Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.80
18) T	Methyl Acetate	0.612	0.673	0.714	0.876	0.865	0.881	0.770	15.39
19) T	Methyl tert-bu...	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.47
20) T	Methylene Chlo...	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.45
21) T	trans-1,2-Dich...	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.28
22) T	Diisopropyl ether	1.976	2.531	2.487	2.477	2.398	2.384	2.376	8.56
23) T	Vinyl Acetate	1.541	1.937	2.020	1.992	1.958	1.961	1.901	9.41
24) P	1,1-Dichloroet...	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.81
25) T	2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	8.98
26) T	2,2-Dichloropr...	0.945	1.096	1.074	1.068	1.055	1.060	1.050	5.06
27) T	cis-1,2-Dichlo...	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.41
28) T	Bromochloromet...	0.457	0.607	0.450	0.577	0.587	0.630	0.551	14.18
29) T	Tetrahydrofuran	0.211	0.269	0.272	0.275	0.262	0.268	0.260	9.24
30) C	Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.72#
31) T	Cyclohexane		1.161	1.092	1.030	0.984	0.993	1.052	7.08
32) T	1,1,1-Trichlor...	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.33
33) S	1,2-Dichloroet...		0.884	0.647	0.770	0.815	0.863	0.796	11.82
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.356	0.266	0.331	0.355	0.368	0.335	12.25
36) T	1,1-Dichloropr...	0.484	0.520	0.508	0.487	0.471	0.469	0.490	4.15
37) T	Ethyl Acetate	0.429	0.561	0.554	0.532	0.533	0.539	0.525	9.21
38) T	Carbon Tetrach...	0.482	0.574	0.555	0.539	0.526	0.518	0.532	5.99
39) T	Methylcyclohexane	0.490	0.589	0.591	0.565	0.548	0.554	0.556	6.60
40) TM	Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.11
41) T	Methacrylonitrile	0.236	0.264	0.286	0.286	0.282	0.271	0.271	7.13
42) TM	1,2-Dichloroet...	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.76
43) T	Isopropyl Acetate	0.751	0.882	0.889	0.897	0.865	0.879	0.860	6.34
44) TM	Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.92
45) C	1,2-Dichloropr...	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.37#
46) T	Dibromomethane	0.248	0.285	0.289	0.288	0.276	0.277	0.277	5.54
47) T	Bromodichlorom...	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.65
48) T	Methyl methacr...	0.372	0.421	0.447	0.449	0.436	0.446	0.429	6.97
49) T	1,4-Dioxane	0.003	0.004	0.004	0.005	0.005	0.005	0.004	19.43
50) S	Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.10
51) T	4-Methyl-2-Pen...	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.28
52) CM	Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.22#
53) T	t-1,3-Dichloro...	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.33
54) T	cis-1,3-Dichlo...	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.74
55) T	1,1,2-Trichlor...	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.10
56) T	Ethyl methacry...	0.407	0.563	0.587	0.599	0.580	0.595	0.555	13.25

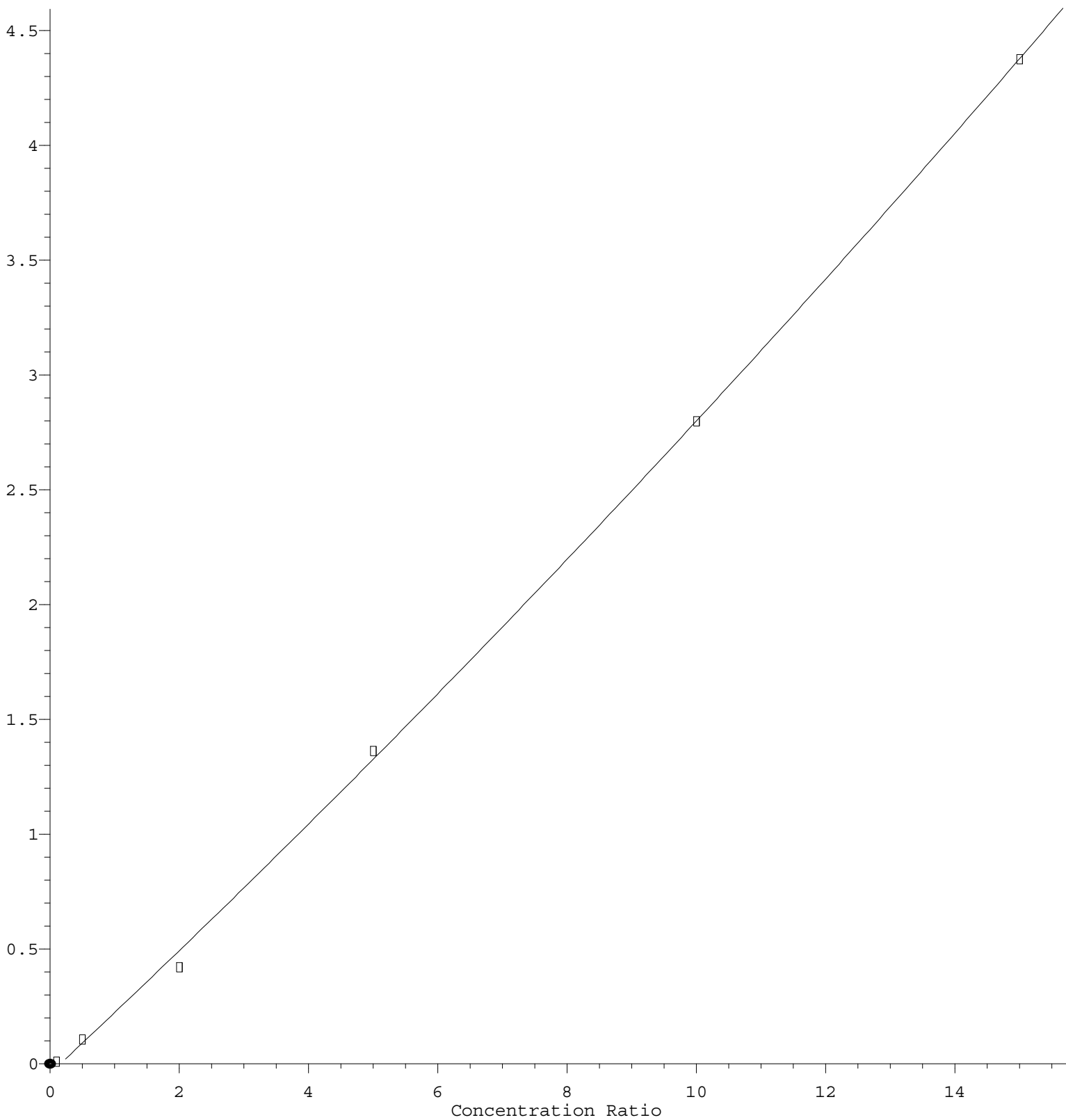
Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X091625W.M

57)	T	1,3-Dichloropr...	0.507	0.648	0.636	0.638	0.607	0.609	0.607	8.51
58)	T	2-Chloroethyl ...	0.094	0.212	0.210	0.272	0.280	0.292	0.227	32.65
59)	T	2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.82
60)	T	Dibromochlorom...	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.49
61)	T	1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.10
62)	S	4-Bromofluorob...		0.478	0.360	0.427	0.452	0.484	0.440	11.42
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6.03
65)	PM	Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.18
66)	T	1,1,1,2-Tetrac...	0.327	0.404	0.402	0.414	0.404	0.402	0.392	8.26
67)	C	Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.57#
68)	T	m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.77
69)	T	o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.13
70)	T	Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.70
71)	P	Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.37
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.94
74)	T	N-amyl acetate	1.277	1.726	1.851	1.862	1.834	1.850	1.733	13.21
75)	P	1,1,2,2-Tetrac...	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.16
76)	T	1,2,3-Trichlor...	0.847	1.023	1.073	1.128	0.939	1.064	1.012	10.13
77)	T	Bromobenzene	0.760	0.964	0.992	0.988	0.960	0.954	0.936	9.38
78)	T	n-propylbenzene	3.680	4.667	4.739	4.792	4.581	4.504	4.494	9.17
79)	T	2-Chlorotoluene	2.276	2.859	2.935	2.915	2.798	2.730	2.752	8.91
80)	T	1,3,5-Trimethy...	2.458	3.235	3.311	3.343	3.221	3.171	3.123	10.62
81)	T	trans-1,4-Dich...		0.347	0.381	0.414	0.420	0.424	0.397	8.31
82)	T	4-Chlorotoluene	2.754	3.347	3.410	3.433	3.285	3.275	3.251	7.74
83)	T	tert-Butylbenzene	2.800	3.223	3.346	3.359	3.240	3.215	3.197	6.39
84)	T	1,2,4-Trimethy...	2.522	3.302	3.381	3.344	3.234	3.216	3.166	10.17
85)	T	sec-Butylbenzene	3.110	4.001	3.945	4.028	3.867	3.834	3.797	9.09
86)	T	p-Isopropyltol...	2.660	3.372	3.371	3.419	3.263	3.205	3.215	8.81
87)	T	1,3-Dichlorobe...	1.462	1.800	1.829	1.817	1.768	1.758	1.739	7.95
88)	T	1,4-Dichlorobe...	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.47
89)	T	n-Butylbenzene	2.429	3.070	3.114	3.139	3.098	2.999	2.975	9.14
90)	T	Hexachloroethane	0.434	0.565	0.574	0.593	0.606	0.614	0.564	11.81
91)	T	1,2-Dichlorobe...	1.359	1.691	1.757	1.746	1.696	1.692	1.657	8.97
92)	T	1,2-Dibromo-3-...	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.07
93)	T	1,2,4-Trichlor...	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.34
94)	T	Hexachlorobuta...	0.341	0.377	0.361	0.384	0.377	0.354	0.366	4.51
95)	T	Naphthalene	2.503	3.153	3.410	3.539	3.496	3.571	3.279	12.46
96)	T	1,2,3-Trichlor...	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.72

(#) = Out of Range

2-Chloroethyl Vinyl ether

Response Ratio



$R = 2.100e-003 A^2 + 2.631e-001 A - 4.158e-002$
 Coef of Det (r^2) = 0.999517 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091625W.M
 Calibration Table Last Updated: Wed Sep 17 06:39:58 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047585.D
 Acq On : 16 Sep 2025 09:23
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:09:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	246348	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	451502	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	410953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	201976	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	78 - 117	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	92 - 112	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	83 - 123	Recovery	=	0.000%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	2201	0.863	ug/l	96
3) Chloromethane	1.300	50	3006	0.897	ug/l #	82
4) Vinyl Chloride	1.386	62	2818	0.859	ug/l	95
6) Chloroethane	1.697	64	2134	0.973	ug/l	95
7) Trichlorofluoromethane	1.898	101	4261	0.874	ug/l	88
8) Diethyl Ether	2.130	74	1831	0.919	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	2555	0.897	ug/l	93
12) 1,1-Dichloroethene	2.325	96	2594	0.886	ug/l #	80
14) Allyl chloride	2.666	41	5885	0.974	ug/l	94
15) Acrylonitrile	3.062	53	6500	4.018	ug/l	97
16) Acetone	2.380	43	8444	4.953	ug/l	99
17) Carbon Disulfide	2.520	76	7662	0.956	ug/l #	91
18) Methyl Acetate	2.703	43	3013	0.794	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	9281	0.869	ug/l #	89
20) Methylene Chloride	2.788	84	3540	0.981	ug/l	93
21) trans-1,2-Dichloroethene	3.099	96	2676	0.849	ug/l	95
22) Diisopropyl ether	3.751	45	9738	0.832	ug/l #	87
23) Vinyl Acetate	3.715	43	37962	4.052	ug/l	97
24) 1,1-Dichloroethane	3.611	63	5372	0.863	ug/l	95
25) 2-Butanone	4.550	43	9105	4.281	ug/l #	83
26) 2,2-Dichloropropane	4.477	77	4657	0.901	ug/l	77
27) cis-1,2-Dichloroethene	4.477	96	3440	0.891	ug/l	96
28) Bromochloromethane	4.879	49	2251	0.829	ug/l #	93
29) Tetrahydrofuran	4.995	42	5210	4.072	ug/l	98
30) Chloroform	5.074	83	5093	0.810	ug/l	86
32) 1,1,1-Trichloroethane	5.373	97	4439	0.832	ug/l #	47
36) 1,1-Dichloropropene	5.672	75	4373	0.988	ug/l #	69
37) Ethyl Acetate	4.702	43	3873	0.818	ug/l #	91
38) Carbon Tetrachloride	5.659	117	4349	0.905	ug/l	95
39) Methylcyclohexane	7.360	83	4428	0.882	ug/l	94
40) Benzene	6.025	78	12012	0.894	ug/l	98
41) Methacrylonitrile	4.903	41	2128	0.870	ug/l #	63
42) 1,2-Dichloroethane	6.062	62	4634	0.906	ug/l	80
43) Isopropyl Acetate	6.318	43	6784	0.873	ug/l	94
44) Trichloroethene	7.110	130	2677	0.824	ug/l	78
45) 1,2-Dichloropropane	7.415	63	2945	0.856	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047585.D
 Acq On : 16 Sep 2025 09:23
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:09:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.574	93	2240	0.895	ug/l	94
47) Bromodichloromethane	7.805	83	4167	0.806	ug/l #	92
48) Methyl methacrylate	7.683	41	3355	0.867	ug/l #	87
49) 1,4-Dioxane	7.653	88	488m	12.477	ug/l	
51) 4-Methyl-2-Pentanone	8.555	43	17596	4.085	ug/l	95
52) Toluene	8.708	92	7595	0.917	ug/l	92
53) t-1,3-Dichloropropene	8.964	75	4398	0.834	ug/l #	82
54) cis-1,3-Dichloropropene	8.354	75	4635	0.823	ug/l #	76
55) 1,1,2-Trichloroethane	9.134	97	2918	0.914	ug/l	95
56) Ethyl methacrylate	9.104	69	3679	0.734	ug/l #	84
57) 1,3-Dichloropropane	9.293	76	4580	0.835	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	4222	9.665	ug/l	99
59) 2-Hexanone	9.415	43	12385	4.003	ug/l	98
60) Dibromochloromethane	9.506	129	2903	0.789	ug/l	87
61) 1,2-Dibromoethane	9.592	107	2596	0.798	ug/l	96
64) Tetrachloroethene	9.256	164	2457	0.917	ug/l	83
65) Chlorobenzene	10.061	112	8202	0.879	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.140	131	2684	0.833	ug/l #	66
67) Ethyl Benzene	10.177	91	13360	0.829	ug/l	98
68) m/p-Xylenes	10.287	106	9922	1.655	ug/l	99
69) o-Xylene	10.622	106	4734	0.816	ug/l	94
70) Styrene	10.640	104	8377	0.824	ug/l	96
71) Bromoform	10.787	173	1816	0.755	ug/l #	94
73) Isopropylbenzene	10.945	105	12618	0.822	ug/l	96
74) N-amyl acetate	10.829	43	5159	0.737	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.195	83	3900	0.839	ug/l	96
76) 1,2,3-Trichloropropane	11.225	75	3421m	0.816	ug/l	
77) Bromobenzene	11.183	156	3069	0.811	ug/l	98
78) n-propylbenzene	11.286	91	14866	0.819	ug/l	99
79) 2-Chlorotoluene	11.347	91	9195	0.827	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	9929	0.787	ug/l	99
82) 4-Chlorotoluene	11.439	91	11123	0.847	ug/l	95
83) tert-Butylbenzene	11.695	119	11311	0.876	ug/l	97
84) 1,2,4-Trimethylbenzene	11.731	105	10187	0.796	ug/l	100
85) sec-Butylbenzene	11.872	105	12561	0.819	ug/l	99
86) p-Isopropyltoluene	11.994	119	10744	0.827	ug/l	92
87) 1,3-Dichlorobenzene	11.951	146	5907	0.841	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	6341m	0.880	ug/l	
89) n-Butylbenzene	12.317	91	9811	0.816	ug/l	97
90) Hexachloroethane	12.524	117	1752	0.768	ug/l	97
91) 1,2-Dichlorobenzene	12.317	146	5491	0.820	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	698	0.742	ug/l	93
93) 1,2,4-Trichlorobenzene	13.567	180	3358	0.772	ug/l	95
94) Hexachlorobutadiene	13.707	225	1378	0.933	ug/l	93
95) Naphthalene	13.756	128	10112	0.763	ug/l	98
96) 1,2,3-Trichlorobenzene	13.944	180	3043	0.752	ug/l	98

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

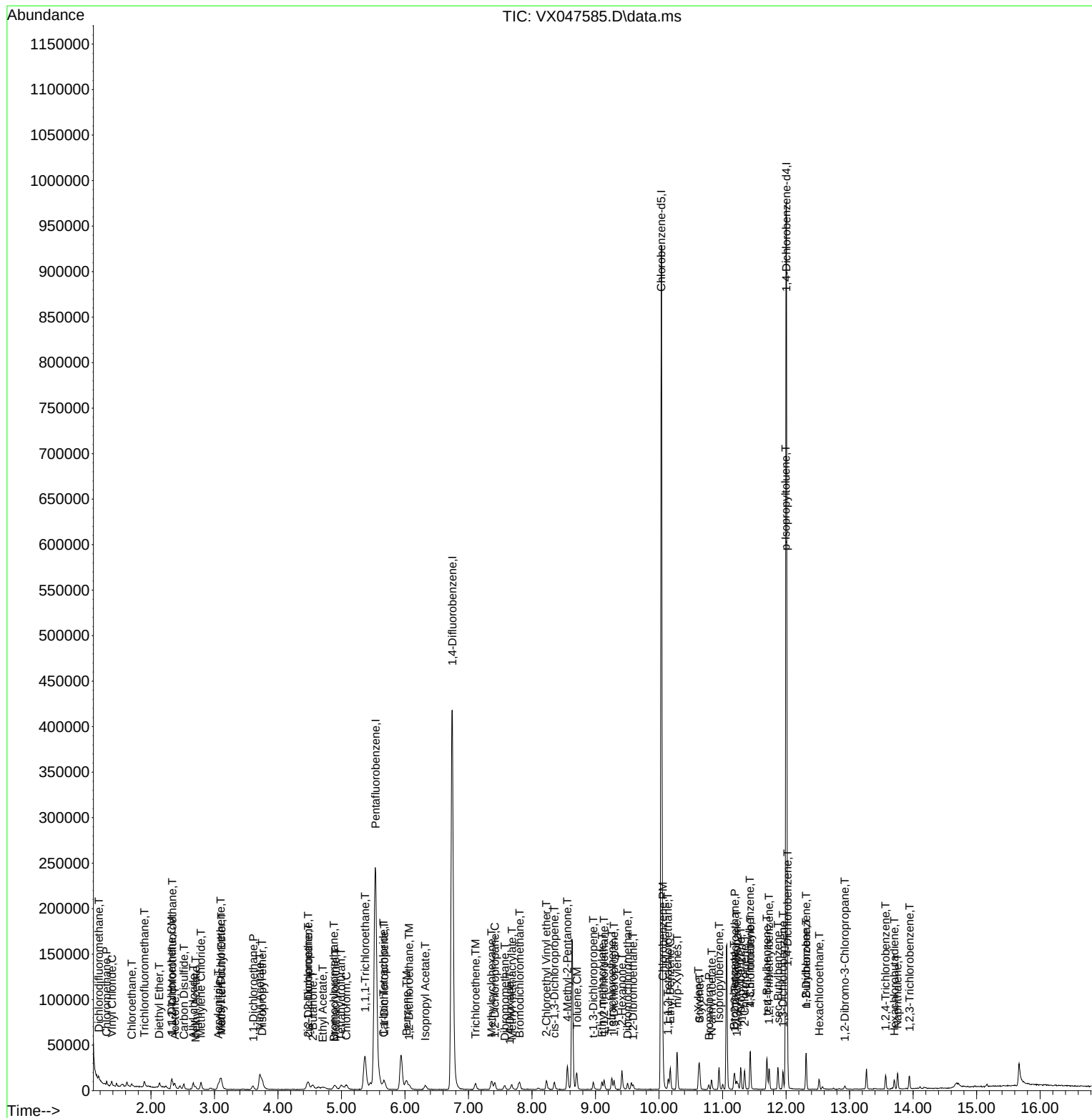
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047585.D
 Acq On : 16 Sep 2025 09:23
 Operator : JC/MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

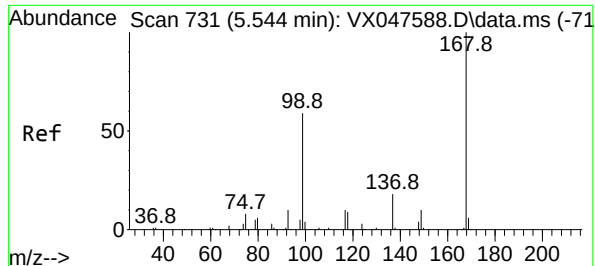
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:09:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration





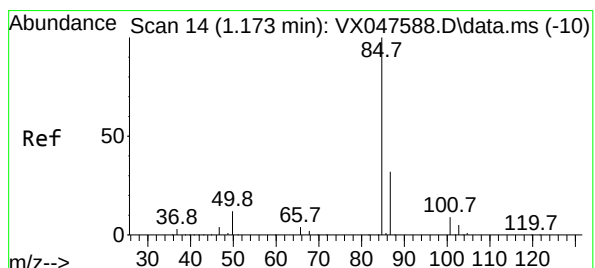
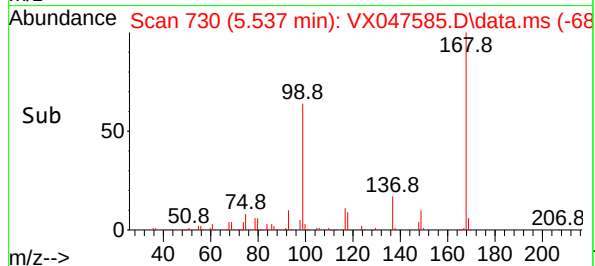
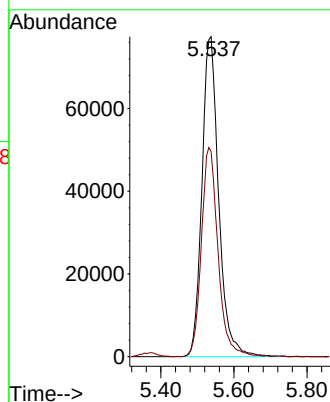
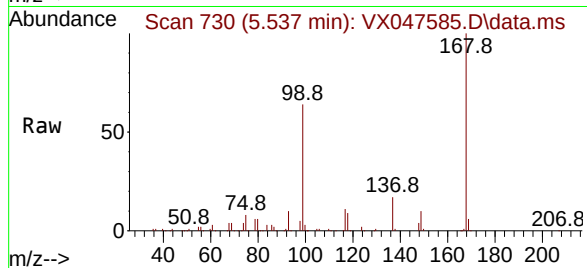
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion:168 Resp: 24634
Ion Ratio Lower Upper
168 100
99 64.0 48.8 73.2

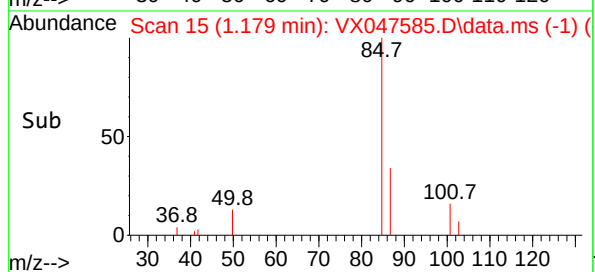
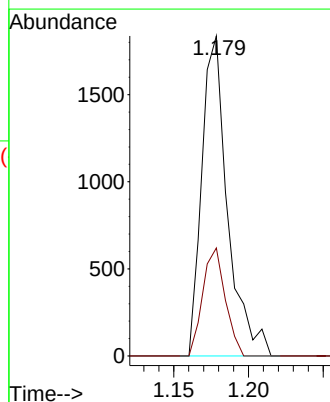
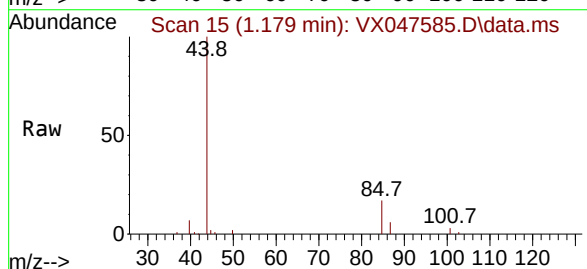
Manual Integrations
APPROVED

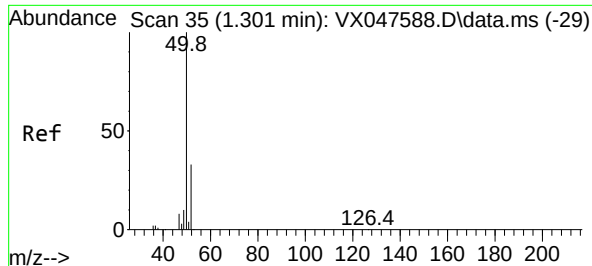
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 0.863 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

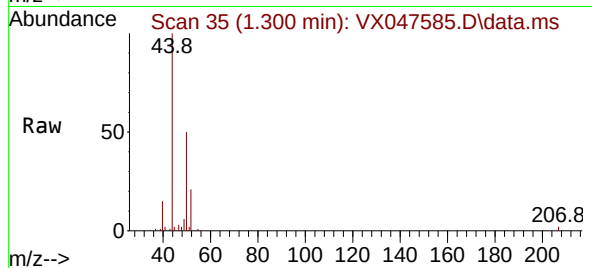
Tgt Ion: 85 Resp: 2201
Ion Ratio Lower Upper
85 100
87 33.8 15.8 47.3





#3
Chloromethane
Concen: 0.897 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

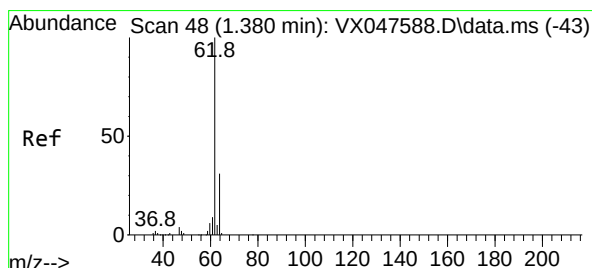
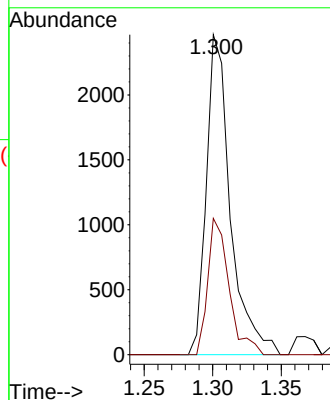
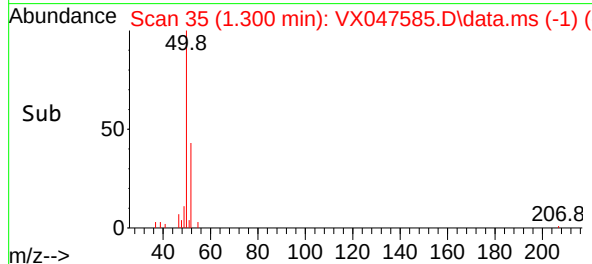
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 50 Resp: 3000
Ion Ratio Lower Upper
50 100
52 42.6 26.1 39.1

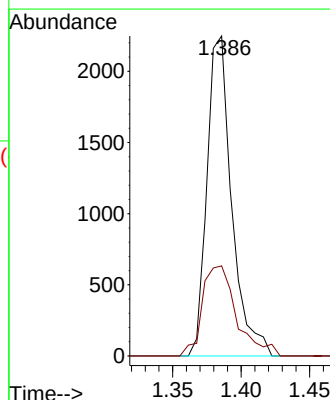
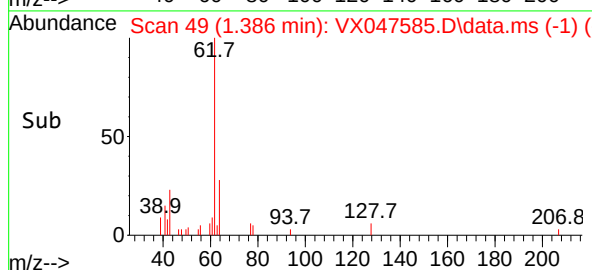
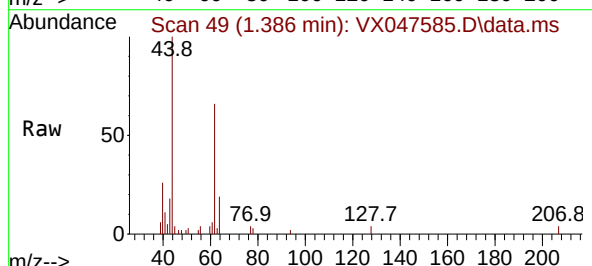
Manual Integrations
APPROVED

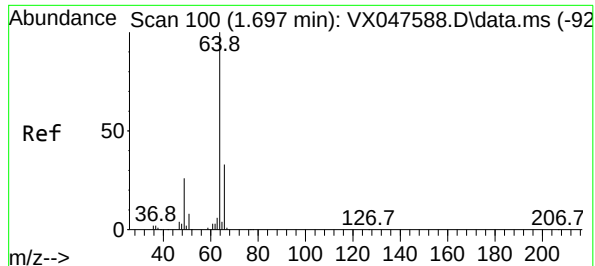
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 0.859 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

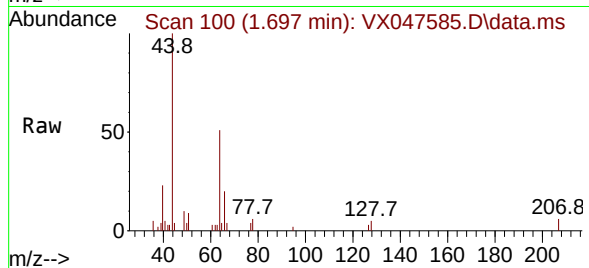
Tgt Ion: 62 Resp: 2818
Ion Ratio Lower Upper
62 100
64 28.2 24.9 37.3





#6
Chloroethane
Concen: 0.973 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

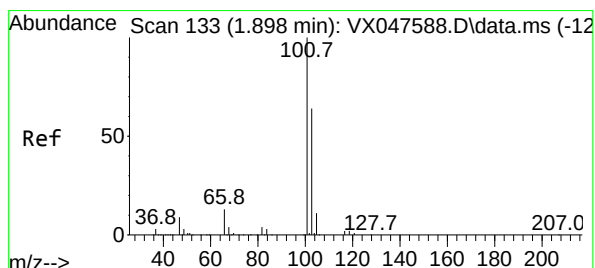
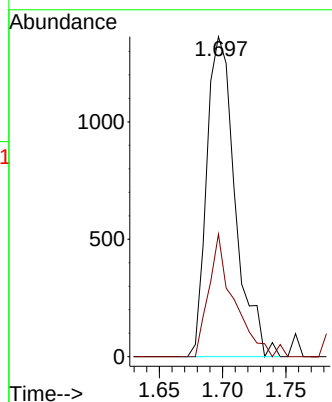
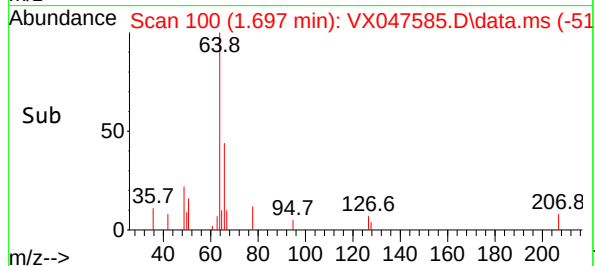
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 64 Resp: 2134
Ion Ratio Lower Upper
64 100
66 35.4 26.1 39.1

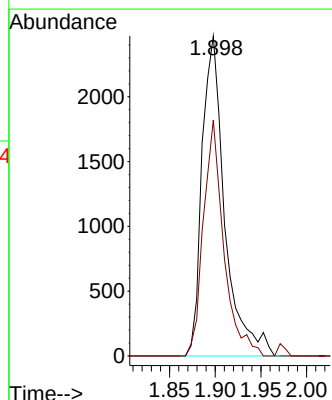
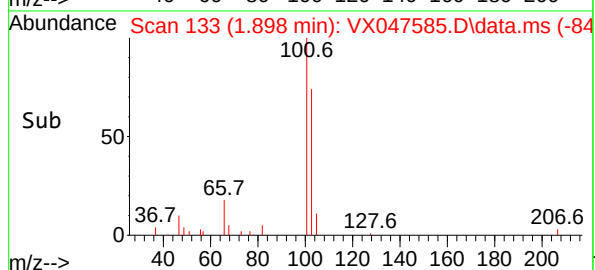
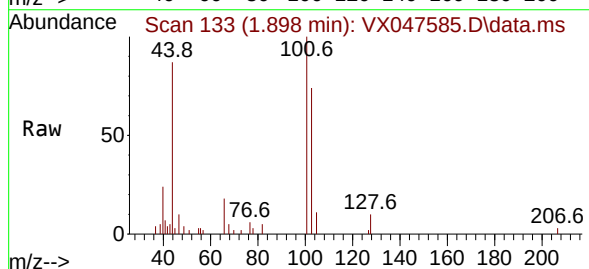
Manual Integrations
APPROVED

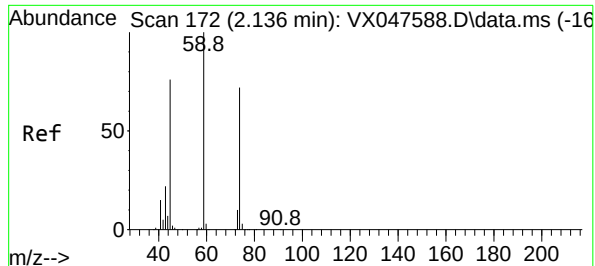
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#7
Trichlorofluoromethane
Concen: 0.874 ug/l
RT: 1.898 min Scan# 133
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

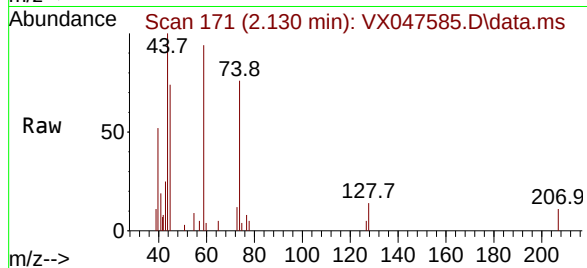
Tgt Ion:101 Resp: 4261
Ion Ratio Lower Upper
101 100
103 73.7 51.4 77.2





#8
Diethyl Ether
Concen: 0.919 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

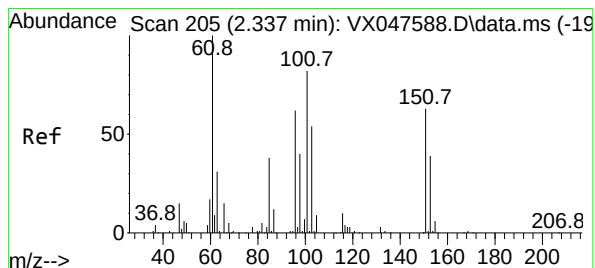
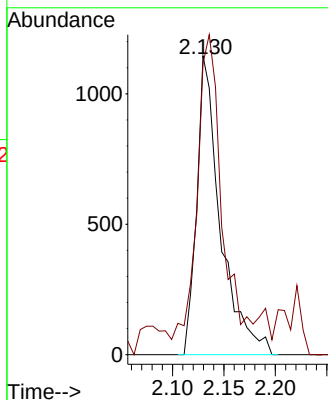
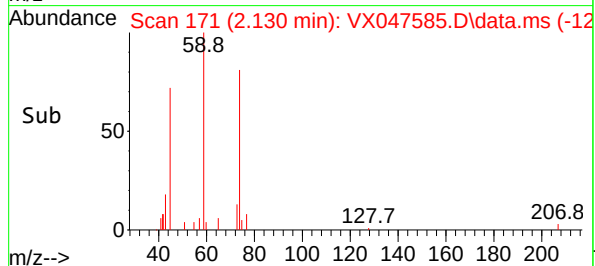
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



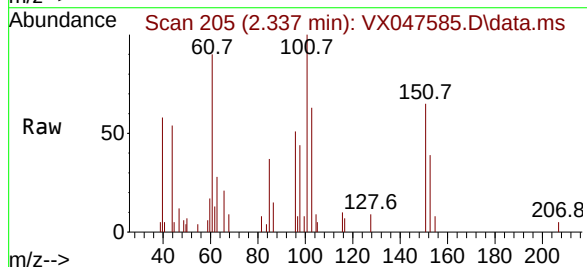
Tgt Ion: 74 Resp: 183
Ion Ratio Lower Upper
74 100
45 102.2 52.3 156.8

Manual Integrations
APPROVED

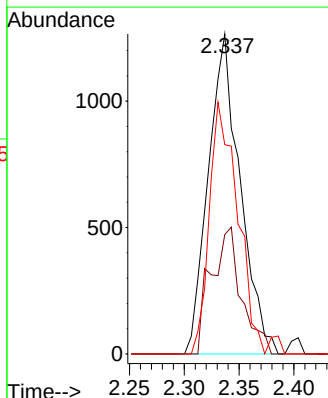
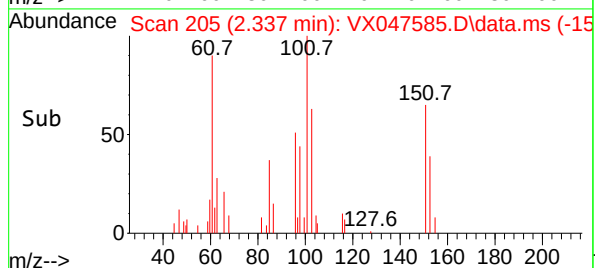
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

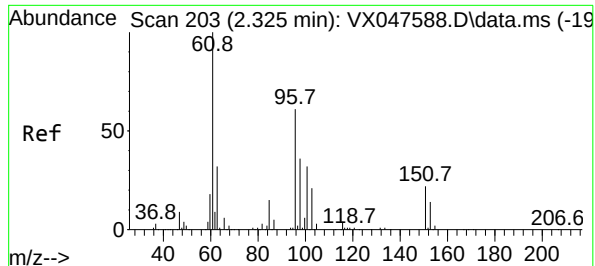


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.897 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23



Tgt Ion:101 Resp: 2555
Ion Ratio Lower Upper
101 100
85 37.8 35.5 53.3
151 69.9 59.4 89.0





#12

1,1-Dichloroethene

Concen: 0.886 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

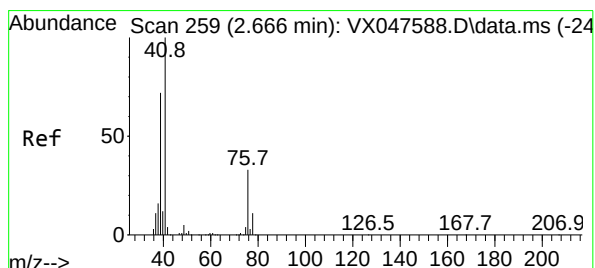
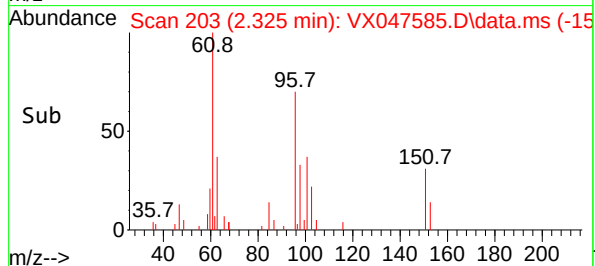
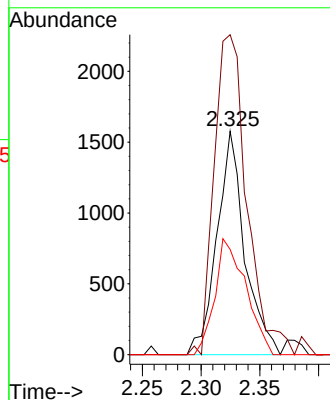
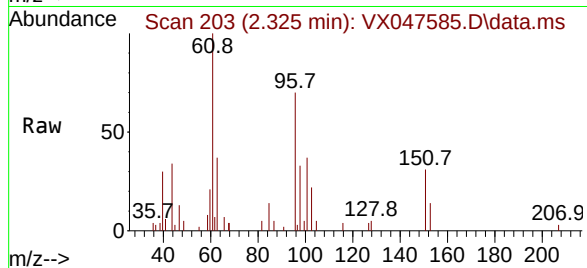
Tgt Ion:	96	Resp:	2594
Ion	Ratio	Lower	Upper
96	100		
61	137.3	131.0	196.6
98	45.2	47.7	71.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 0.974 ug/l

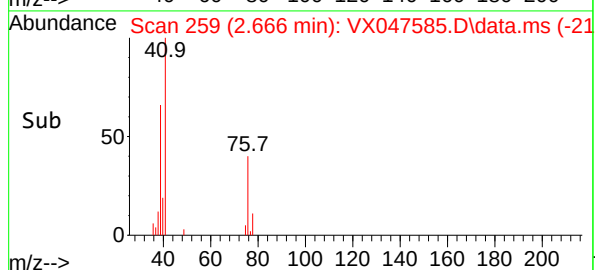
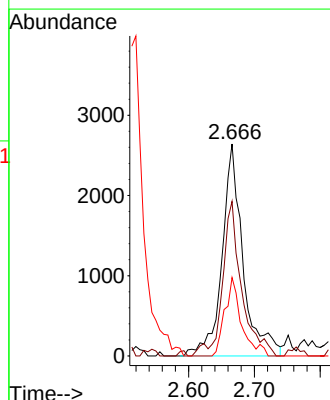
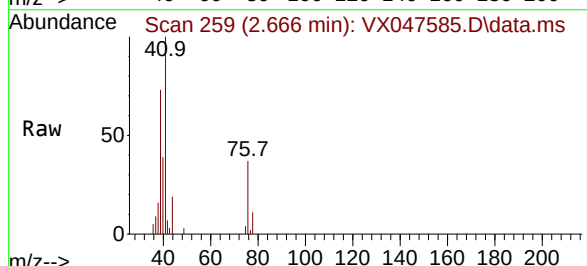
RT: 2.666 min Scan# 259

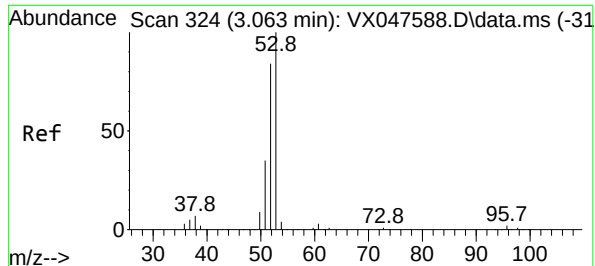
Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	41	Resp:	5885
Ion	Ratio	Lower	Upper
41	100		
39	63.3	54.7	82.1
76	29.3	25.7	38.5





#15

Acrylonitrile

Concen: 4.018 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

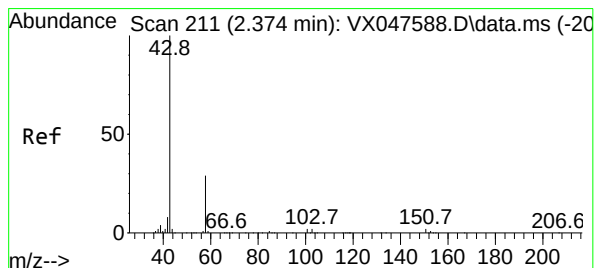
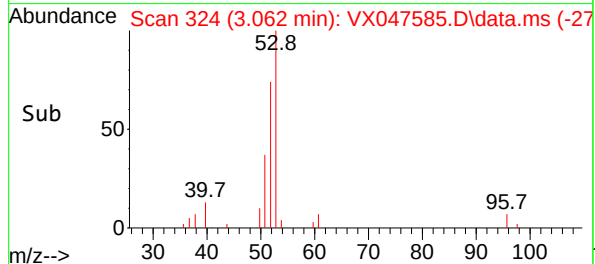
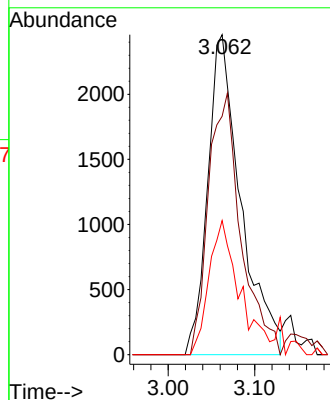
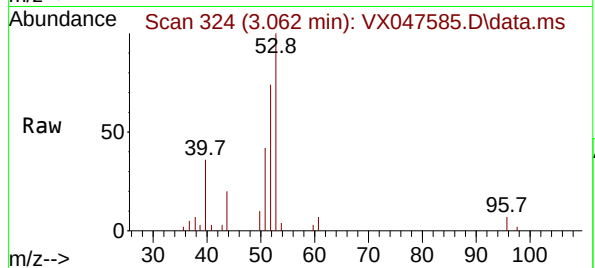
VSTDIC001

Tgt Ion:	53	Resp:	6500
Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.4	99.6
51	38.7	29.5	44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 4.953 ug/l

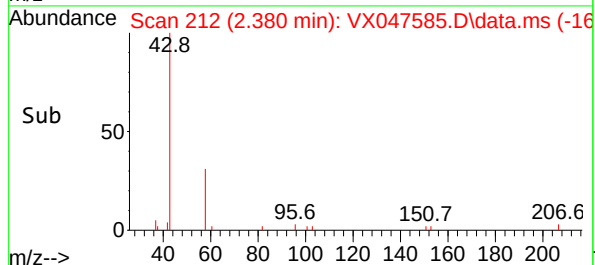
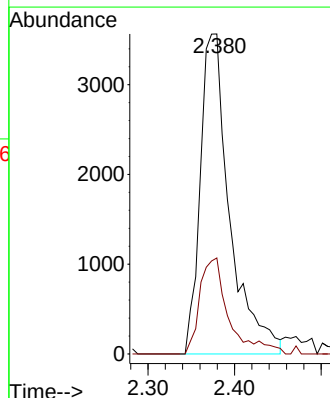
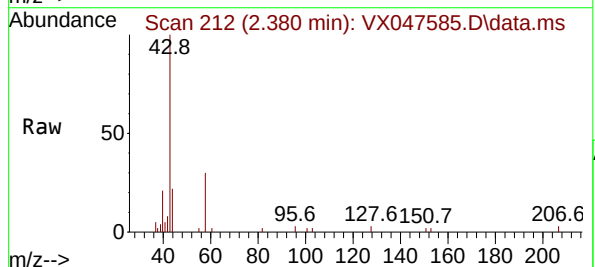
RT: 2.380 min Scan# 212

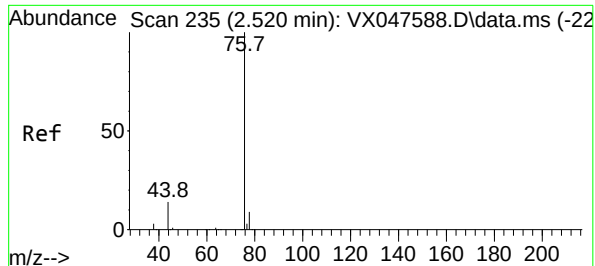
Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	43	Resp:	8444
Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0





#17

Carbon Disulfide

Concen: 0.956 ug/l

RT: 2.520 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 76 Resp: 7662

Ion Ratio Lower Upper

76 100

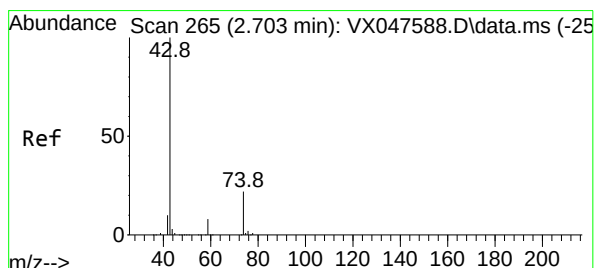
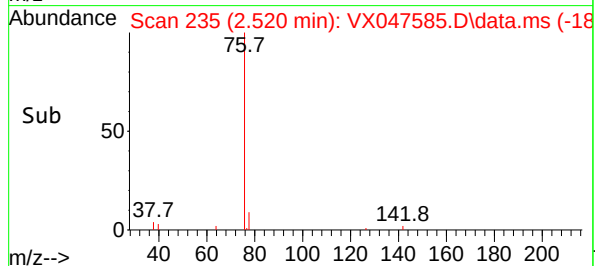
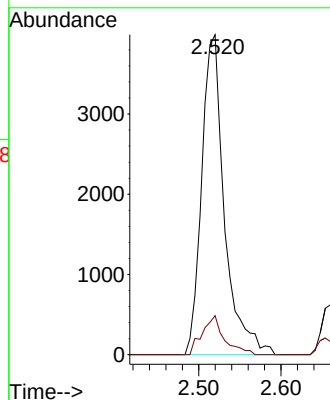
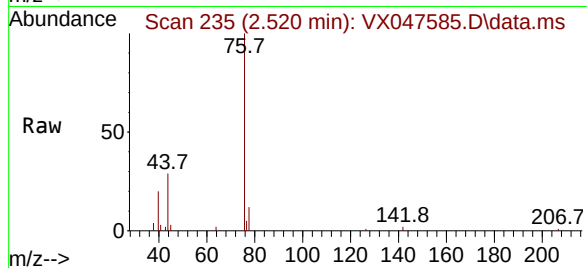
78 11.6 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 0.794 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX047585.D

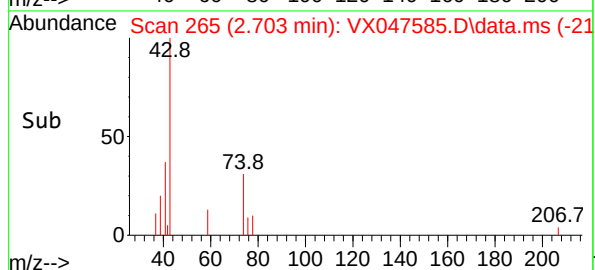
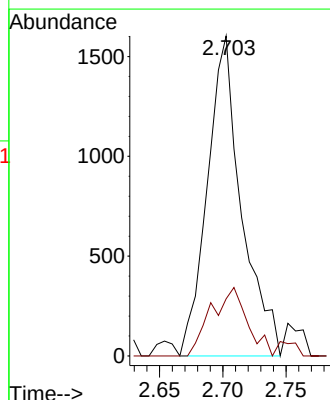
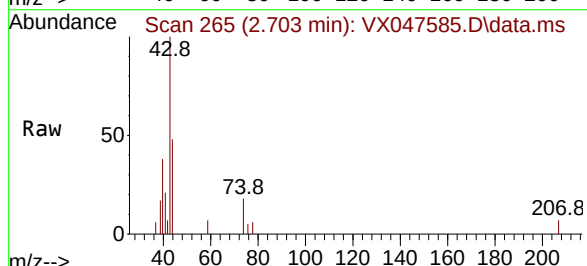
Acq: 16 Sep 2025 09:23

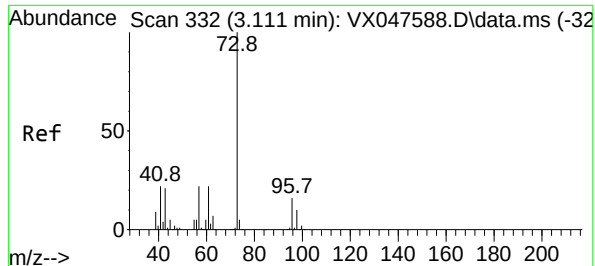
Tgt Ion: 43 Resp: 3013

Ion Ratio Lower Upper

43 100

74 22.7 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 0.869 ug/l

RT: 3.111 min Scan# 332

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 928

Ion Ratio Lower Upper

73 100

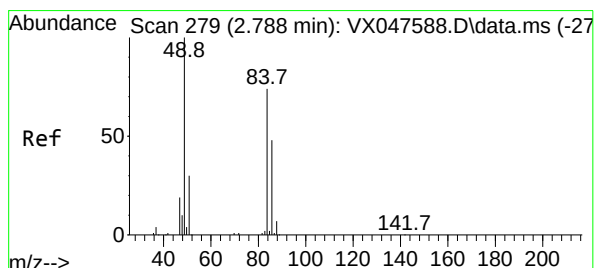
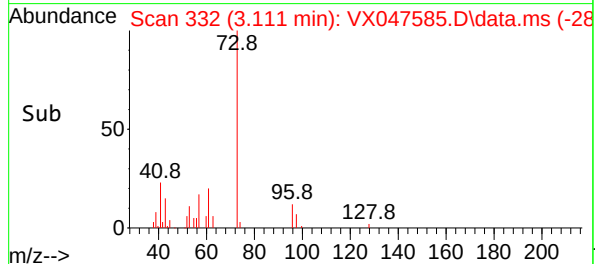
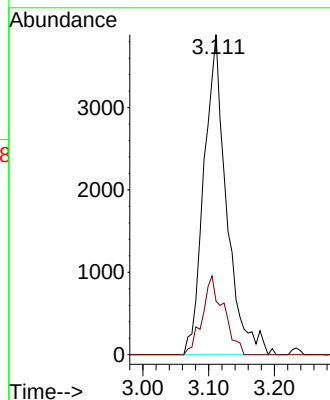
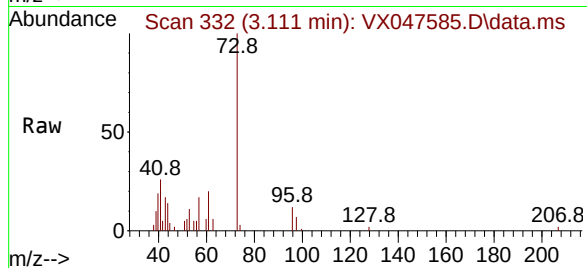
57 16.7 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 0.981 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion: 84 Resp: 3540

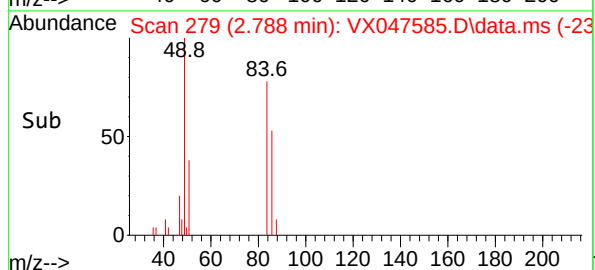
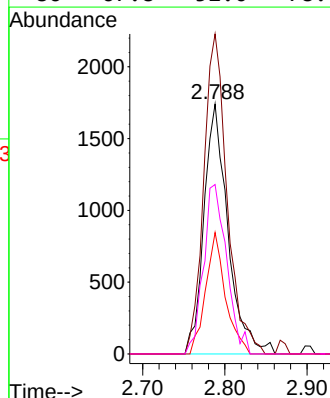
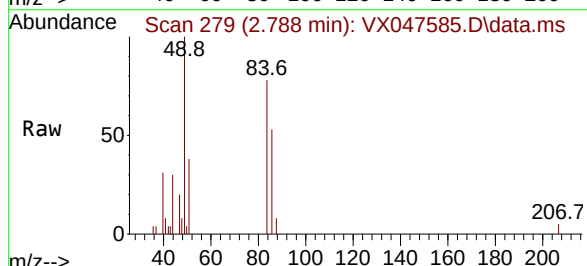
Ion Ratio Lower Upper

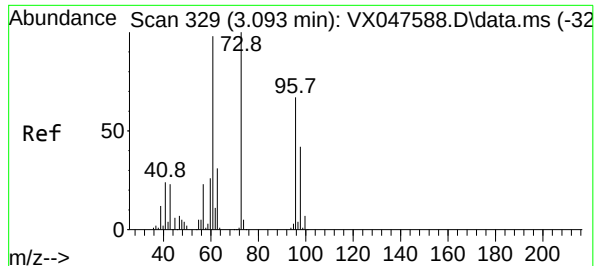
84 100

49 128.0 108.6 162.8

51 48.6 32.6 48.8

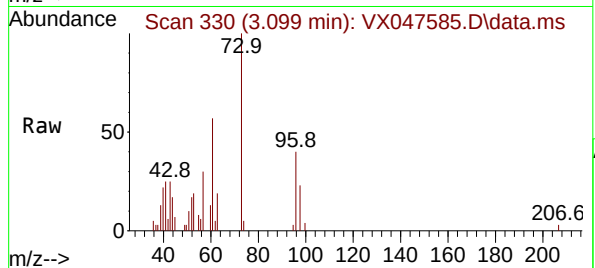
86 67.8 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 0.849 ug/l
RT: 3.099 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

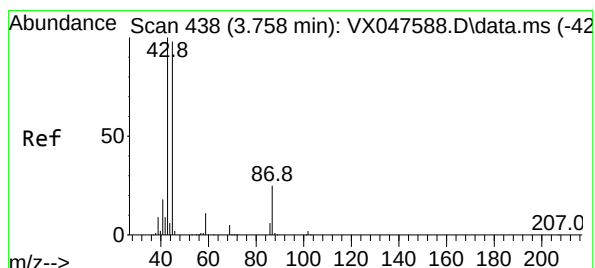
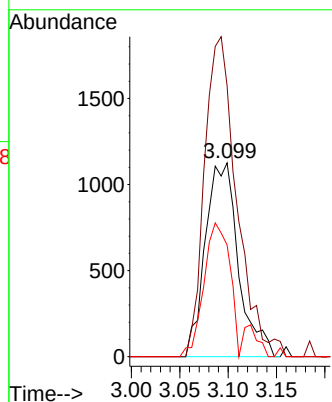
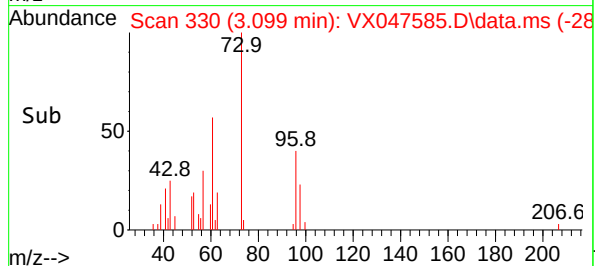
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 96 Resp: 2670
Ion Ratio Lower Upper
96 100
61 139.9 116.2 174.2
98 57.6 49.3 73.9

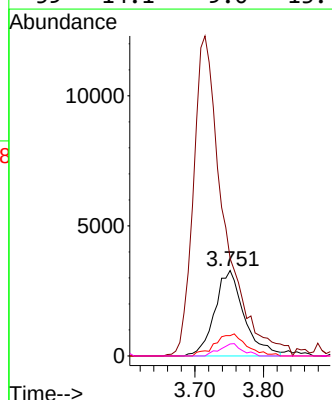
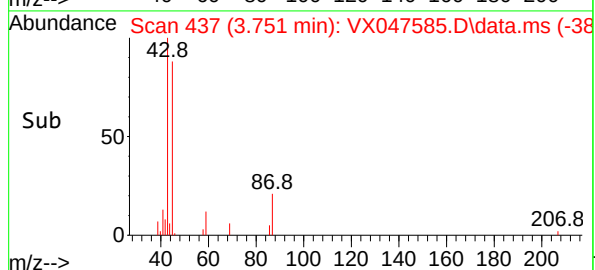
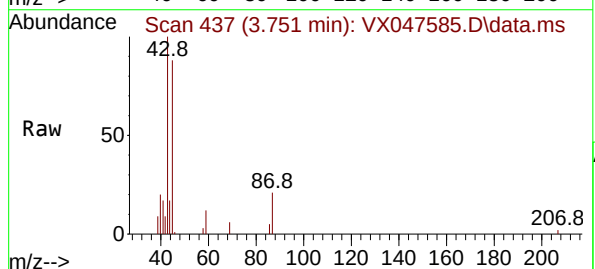
Manual Integrations
APPROVED

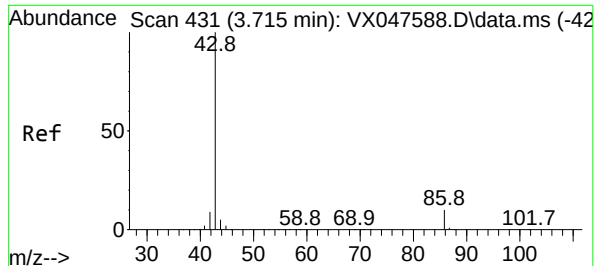
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 0.832 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 45 Resp: 9738
Ion Ratio Lower Upper
45 100
43 117.9 81.0 121.4
87 23.7 20.3 30.5
59 14.1 9.0 13.4





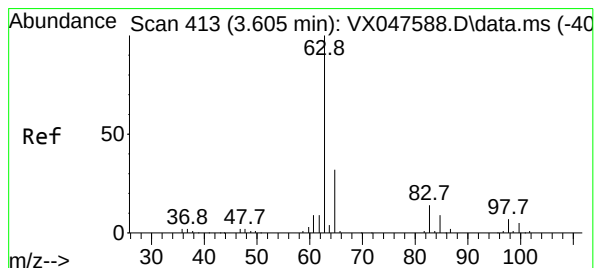
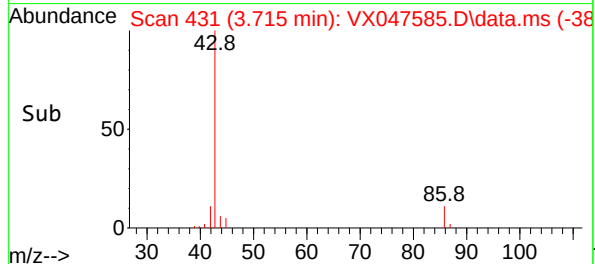
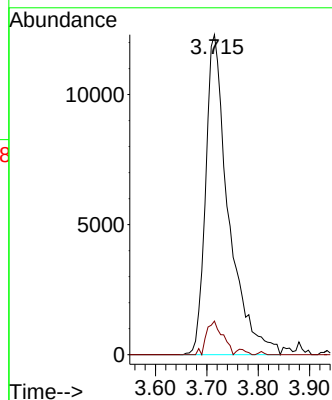
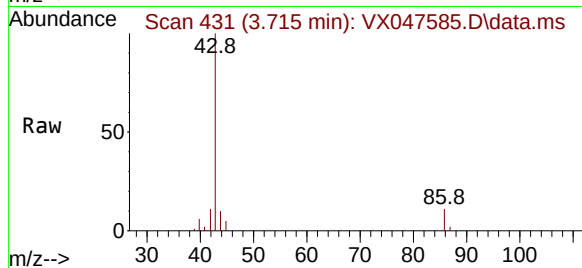
#23
Vinyl Acetate
Concen: 4.052 ug/l
RT: 3.715 min Scan# 411
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 37962
Ion Ratio Lower Upper
43 100
86 10.9 7.8 11.8

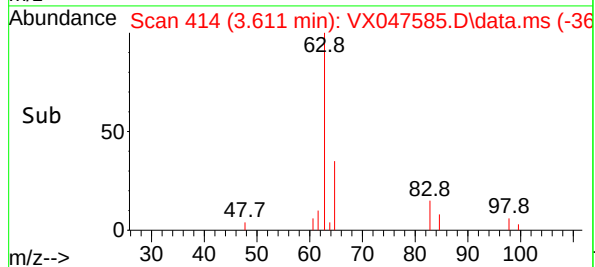
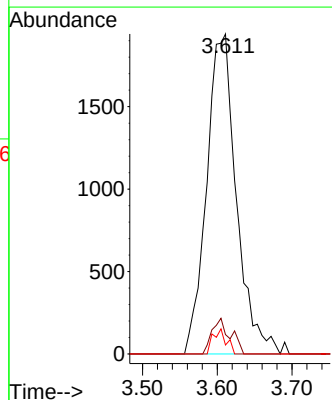
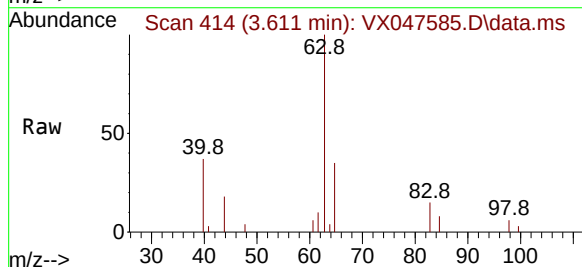
Manual Integrations
APPROVED

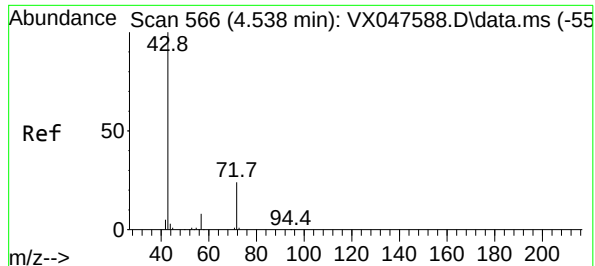
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#24
1,1-Dichloroethane
Concen: 0.863 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

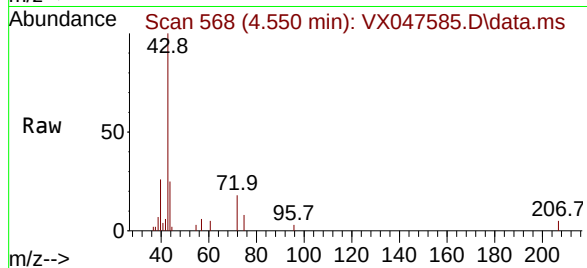
Tgt Ion: 63 Resp: 5372
Ion Ratio Lower Upper
63 100
98 6.1 3.8 11.2
100 2.8 2.3 6.9





#25
2-Butanone
Concen: 4.281 ug/l
RT: 4.550 min Scan# 510
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

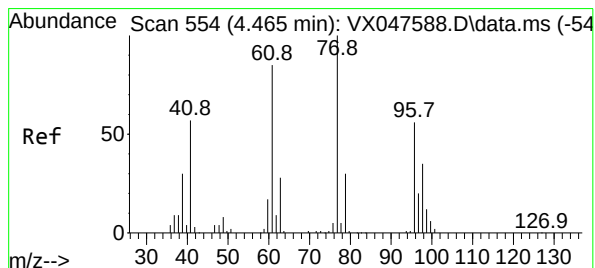
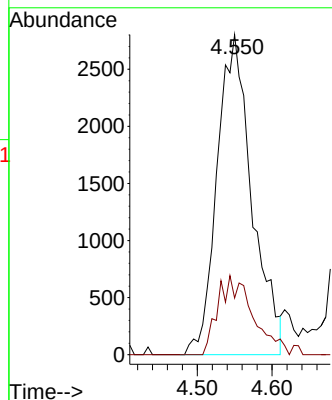
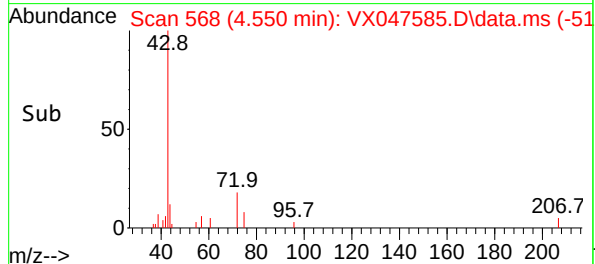
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 910
Ion Ratio Lower Upper
43 100
72 16.3 20.1 30.1

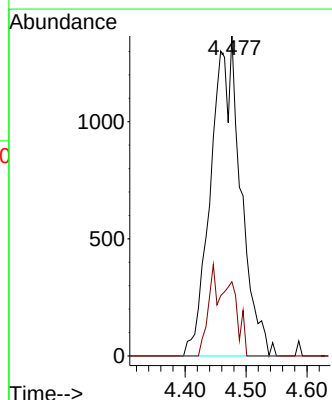
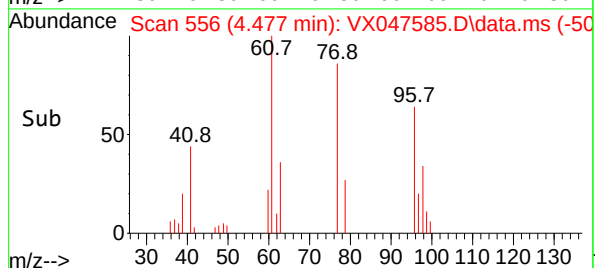
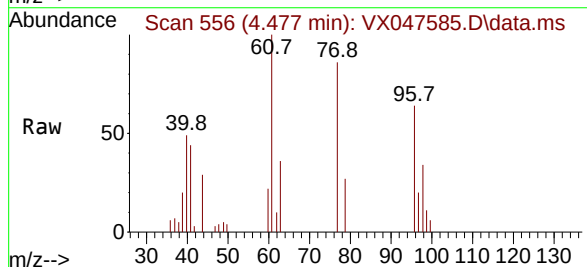
Manual Integrations
APPROVED

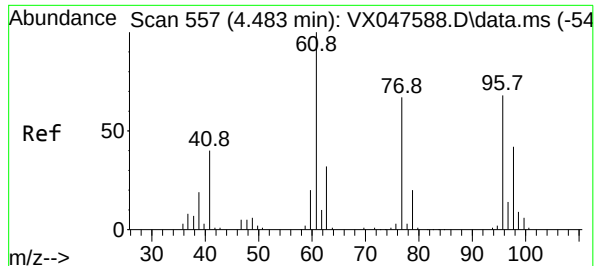
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#26
2,2-Dichloropropane
Concen: 0.901 ug/l
RT: 4.477 min Scan# 556
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 77 Resp: 4657
Ion Ratio Lower Upper
77 100
97 11.0 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 0.891 ug/l

RT: 4.477 min Scan# 511

Delta R.T. -0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 3440

Ion Ratio Lower Upper

96 100

61 147.4 0.0 303.2

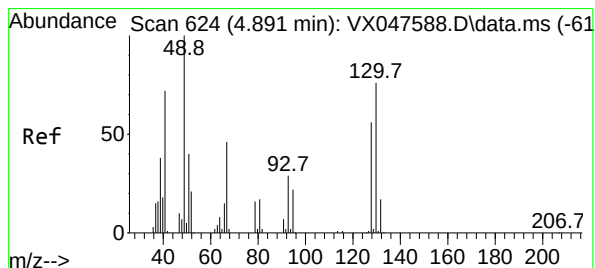
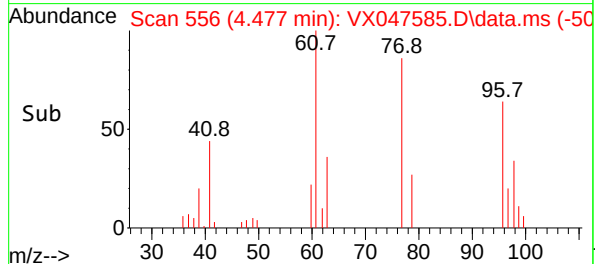
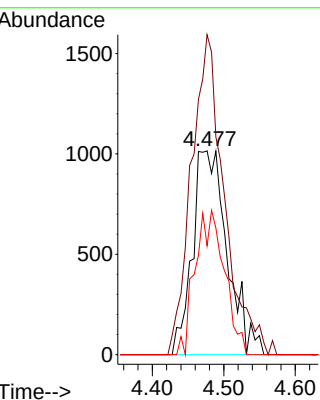
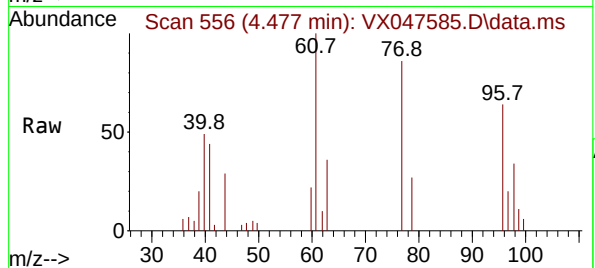
98 59.4 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 0.829 ug/l

RT: 4.879 min Scan# 622

Delta R.T. -0.012 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

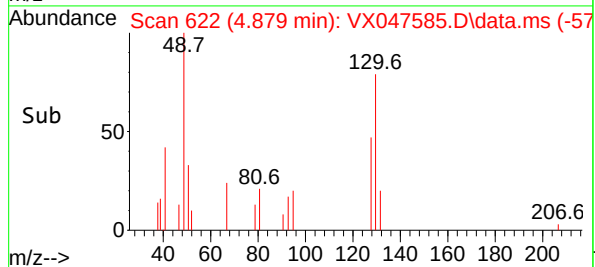
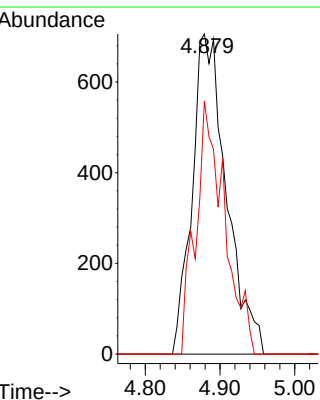
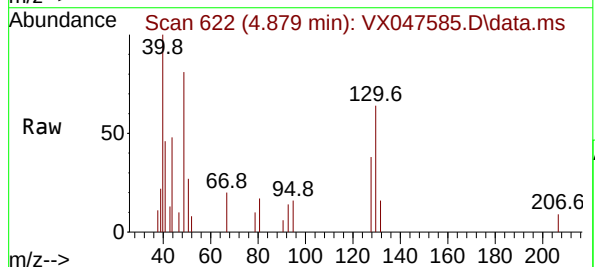
Tgt Ion: 49 Resp: 2251

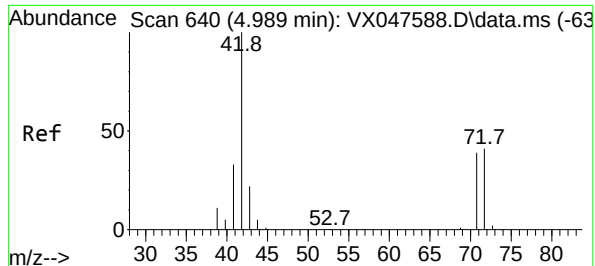
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.2

130 66.2 57.8 86.8





#29

Tetrahydrofuran

Concen: 4.072 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

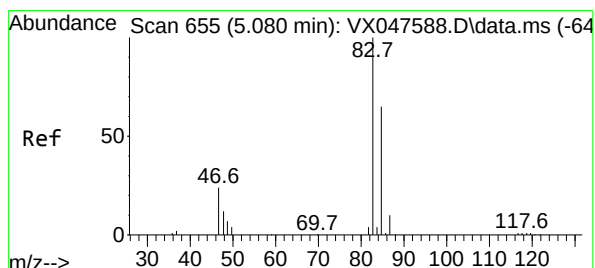
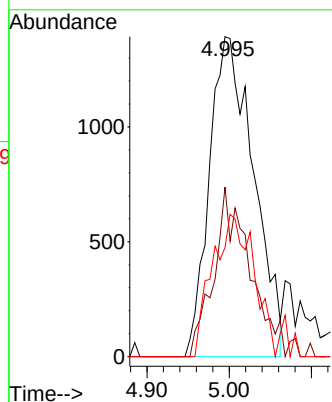
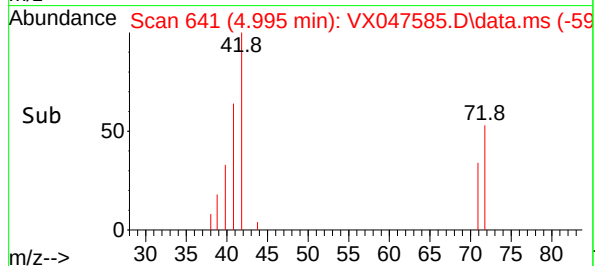
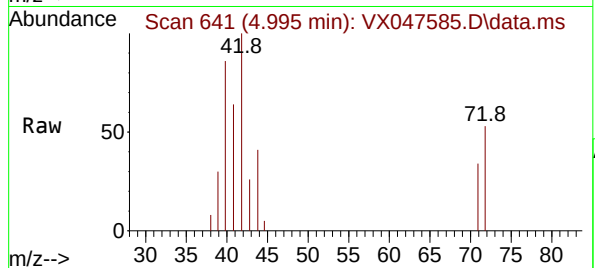
Tgt Ion:	42	Resp:	5210
Ion	Ratio	Lower	Upper
42	100		
72	44.1	34.2	51.2
71	41.3	31.9	47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 0.810 ug/l

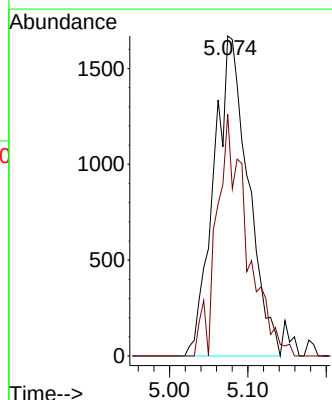
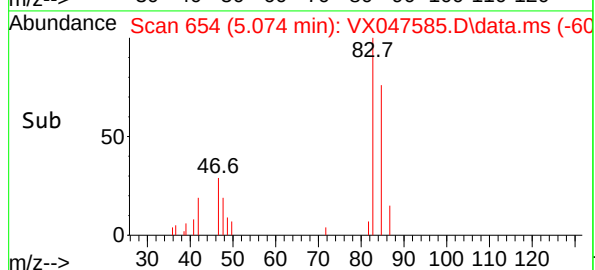
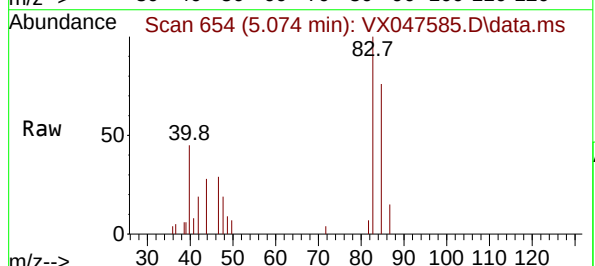
RT: 5.074 min Scan# 654

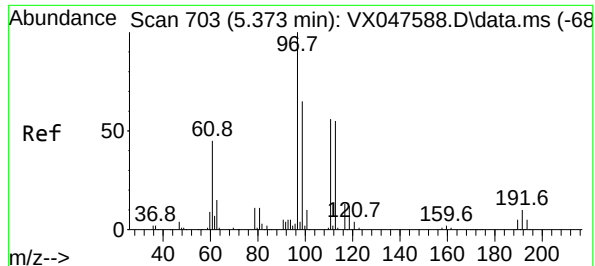
Delta R.T. -0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	83	Resp:	5093
Ion	Ratio	Lower	Upper
83	100		
85	75.6	51.8	77.6





#32

1,1,1-Trichloroethane

Concen: 0.832 ug/l

RT: 5.373 min Scan# 70

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 4439

Ion Ratio Lower Upper

97 100

99 0.0 50.6 76.0

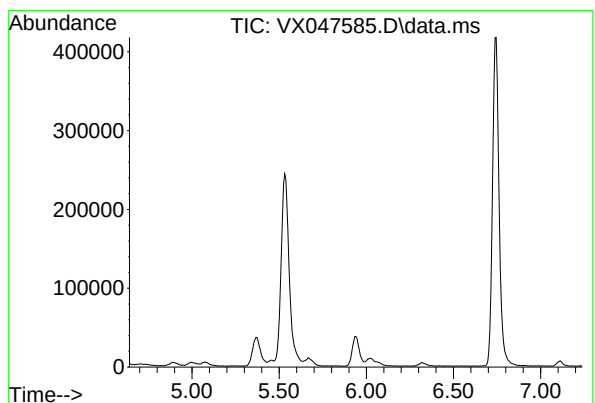
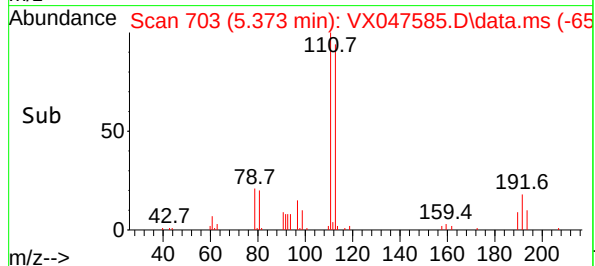
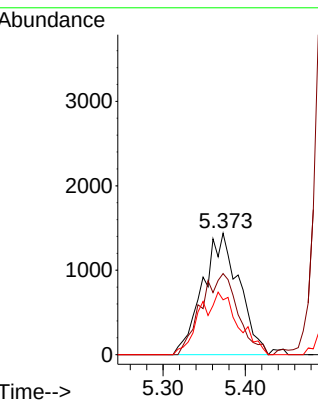
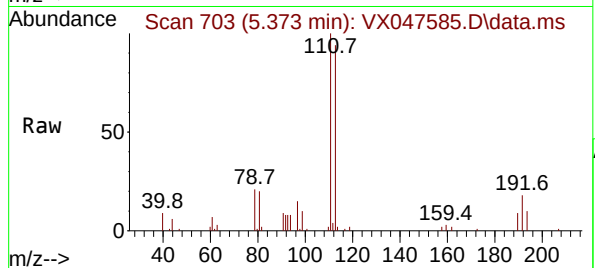
61 36.2 35.8 53.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.94 min

Lab File: VX047585.D

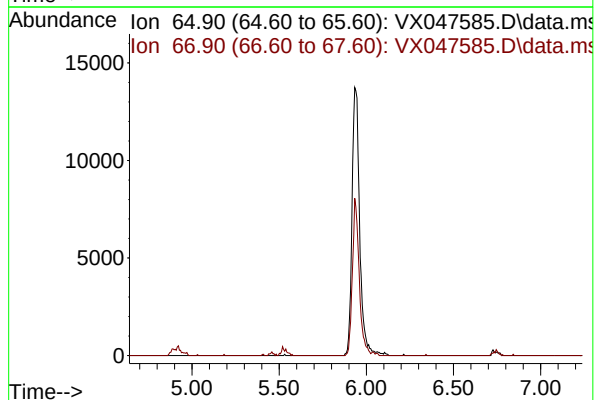
Acq: 16 Sep 2025 09:23

Tgt Ion: 65

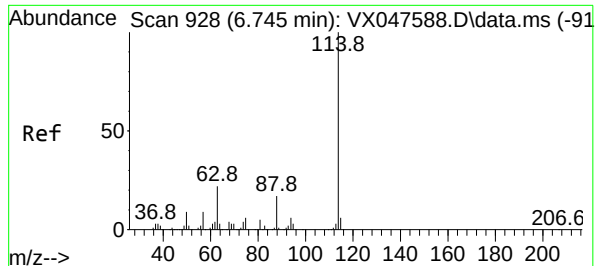
Sig Exp Ratio

65 100

67 51.5



Ion 66.90 (66.60 to 67.60): VX047585.D\data.ms



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 45150

Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.0

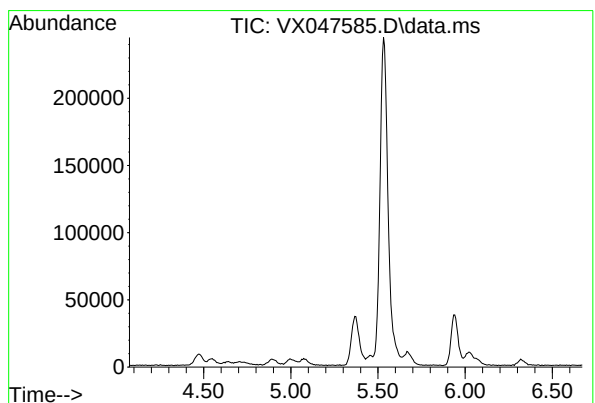
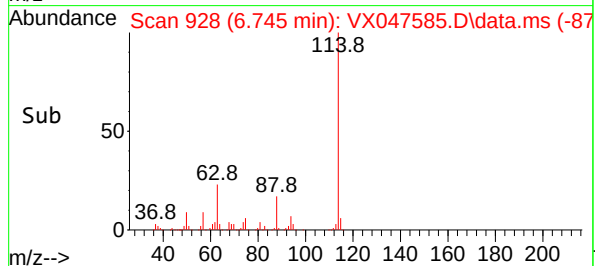
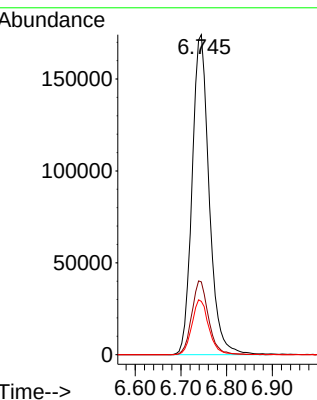
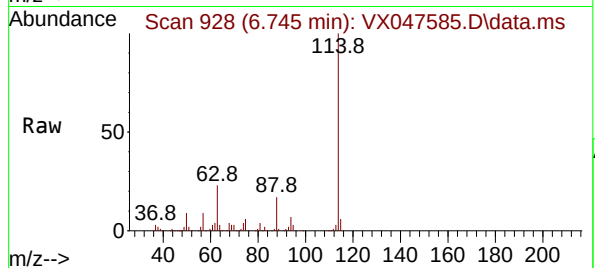
88 16.6 0.0 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.37 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

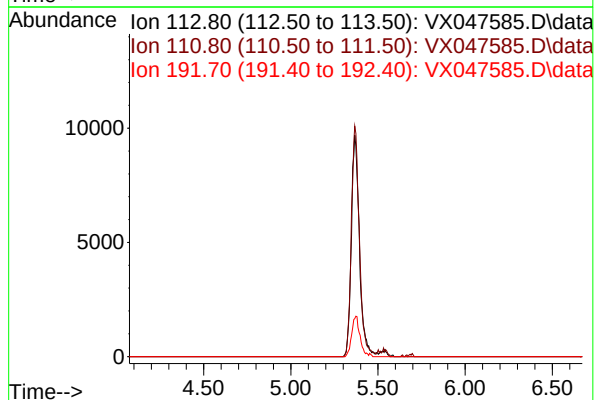
Tgt Ion: 113

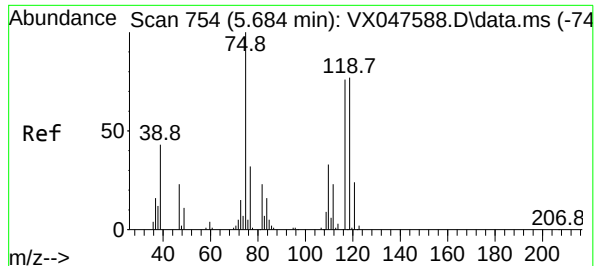
Sig Exp Ratio

113 100

111 101.1

192 17.8





#36

1,1-Dichloropropene

Concen: 0.988 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.012 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 4373

Ion Ratio Lower Upper

75 100

110 0.0 16.7 50.1

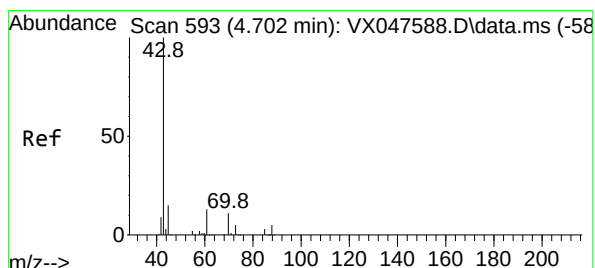
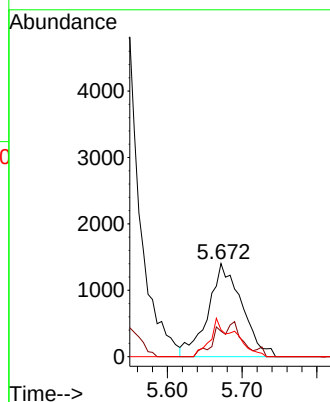
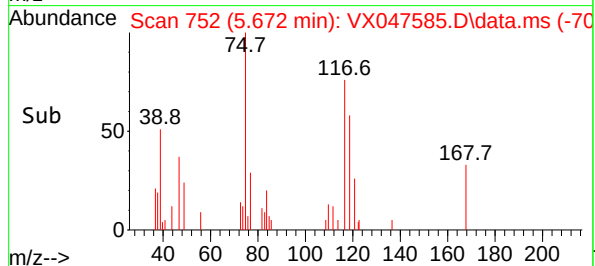
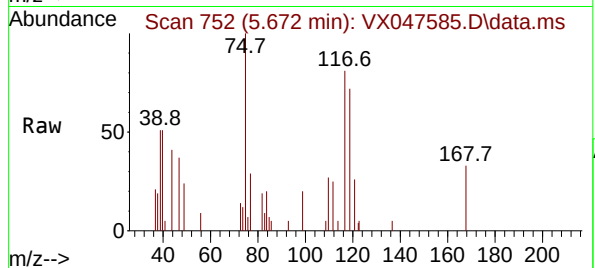
77 30.0 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#37

Ethyl Acetate

Concen: 0.818 ug/l

RT: 4.702 min Scan# 593

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

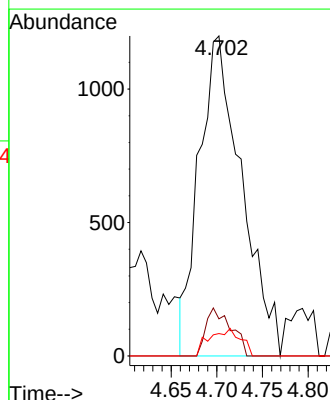
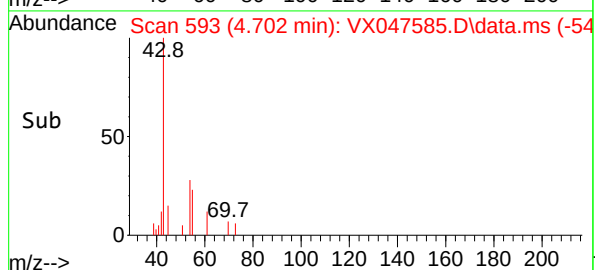
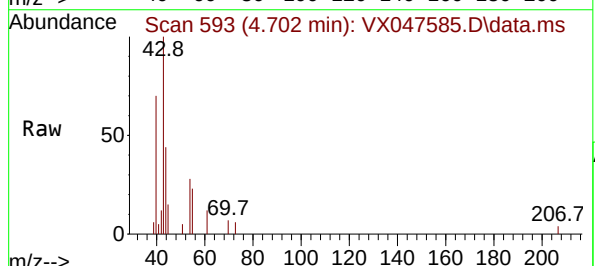
Tgt Ion: 43 Resp: 3873

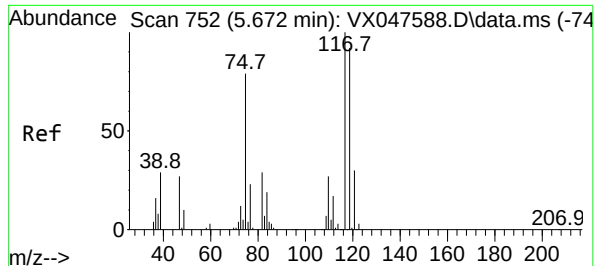
Ion Ratio Lower Upper

43 100

61 8.9 9.8 14.8#

70 6.2 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 0.905 ug/l

RT: 5.659 min Scan# 71

Delta R.T. -0.012 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 4349

Ion Ratio Lower Upper

117 100

119 97.3 73.4 110.2

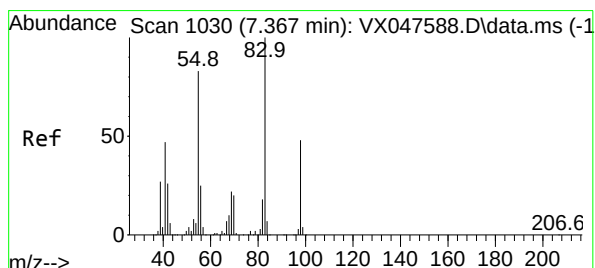
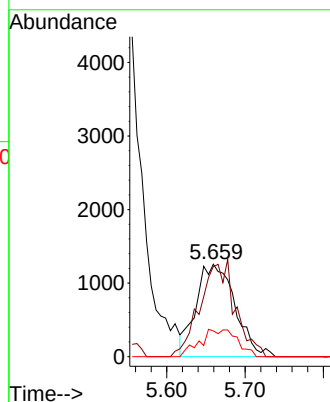
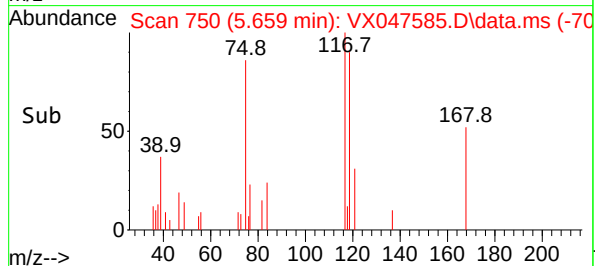
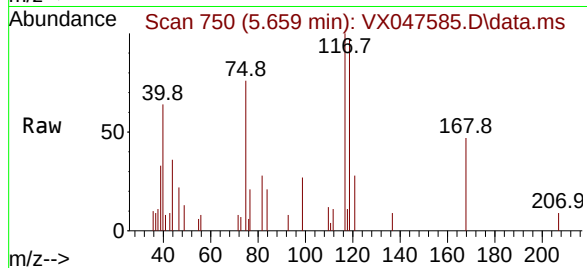
121 27.8 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#39

Methylcyclohexane

Concen: 0.882 ug/l

RT: 7.360 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

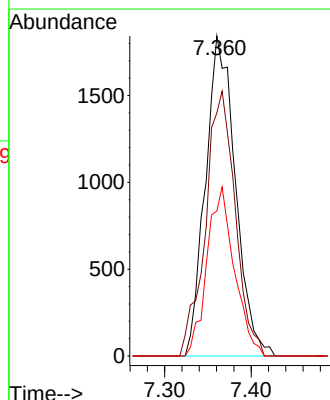
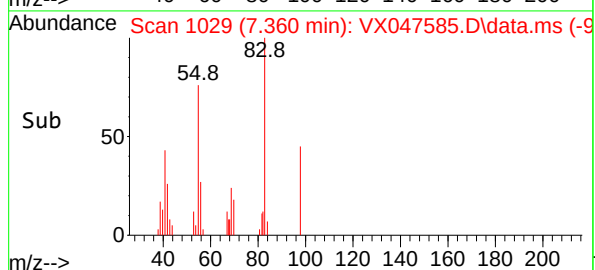
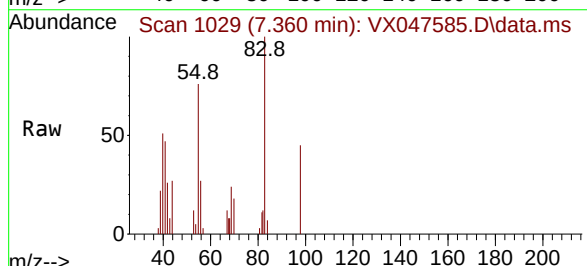
Tgt Ion: 83 Resp: 4428

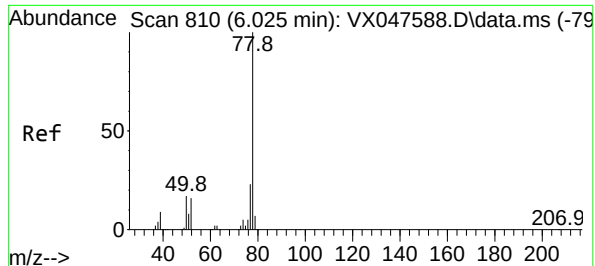
Ion Ratio Lower Upper

83 100

55 76.0 66.4 99.6

98 45.3 38.1 57.1





#40

Benzene

Concen: 0.894 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 1201

Ion Ratio Lower Upper

78 100

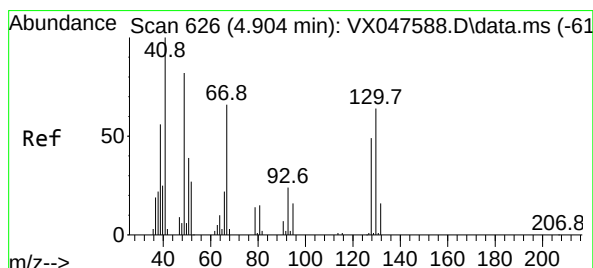
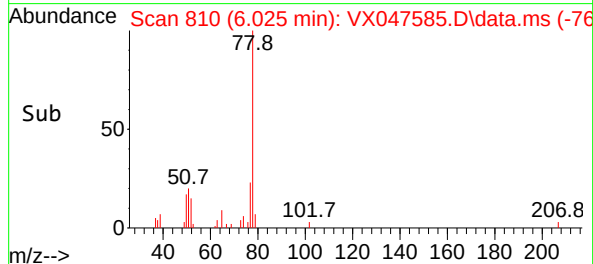
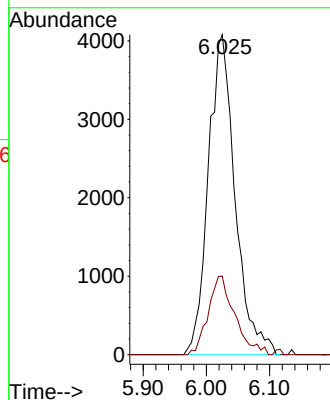
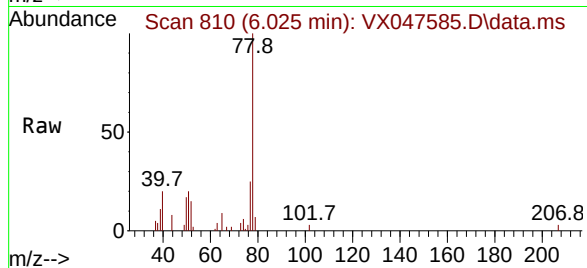
77 24.5 18.8 28.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#41

Methacrylonitrile

Concen: 0.870 ug/l

RT: 4.903 min Scan# 626

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 2128

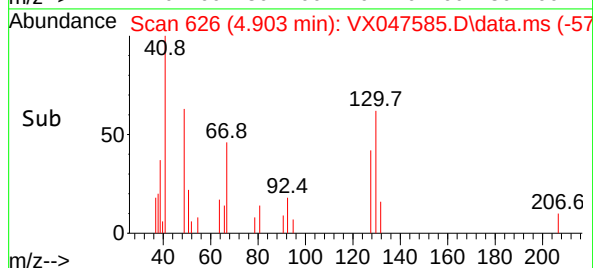
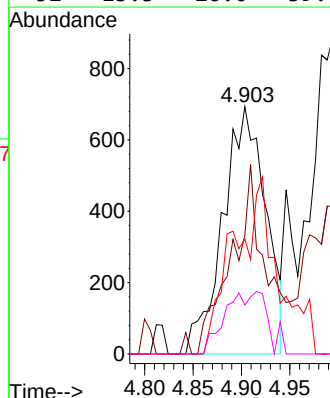
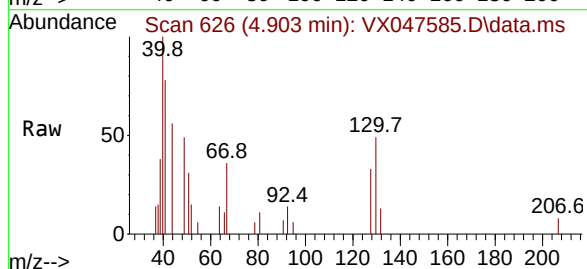
Ion Ratio Lower Upper

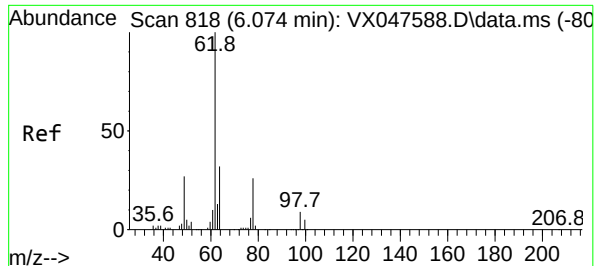
41 100

39 60.3 43.3 64.9

67 23.5 58.6 87.8#

52 13.3 26.0 39.0#





#42

1,2-Dichloroethane

Concen: 0.906 ug/l

RT: 6.062 min Scan# 81

Delta R.T. -0.012 min

Lab File: VX047585.D

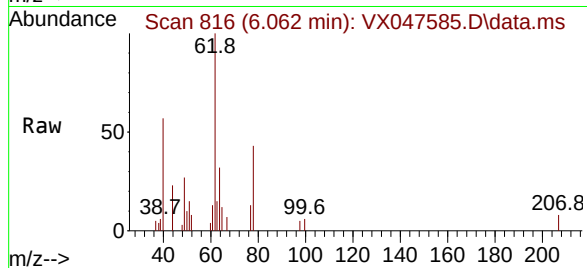
Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001



Tgt Ion: 62 Resp: 4634

Ion Ratio Lower Upper

62 100

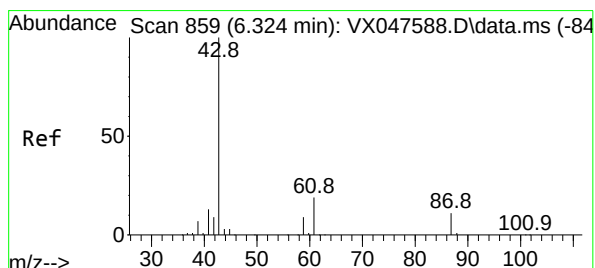
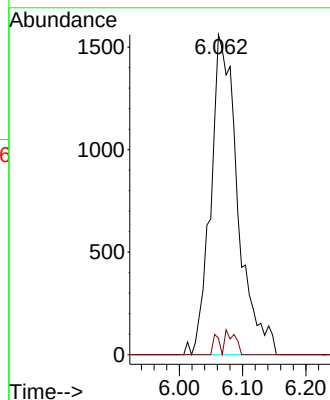
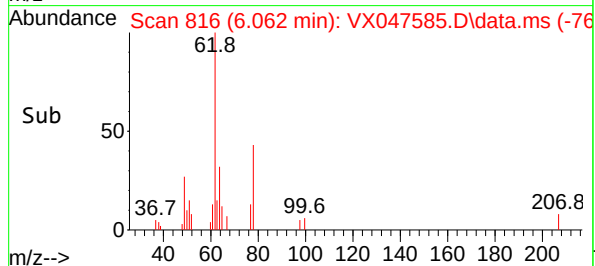
98 1.4 0.0 17.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#43

Isopropyl Acetate

Concen: 0.873 ug/l

RT: 6.318 min Scan# 858

Delta R.T. -0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

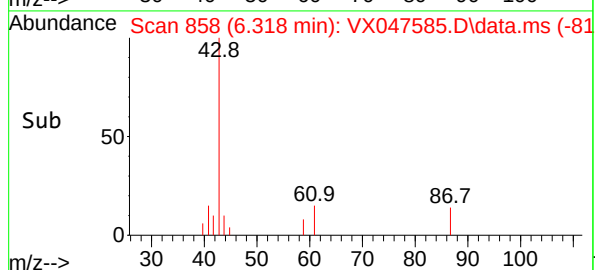
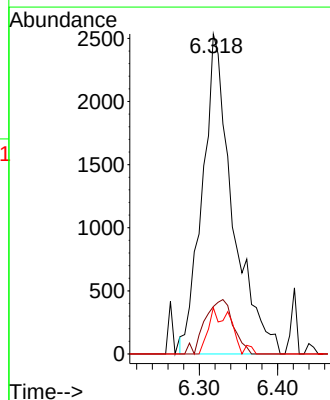
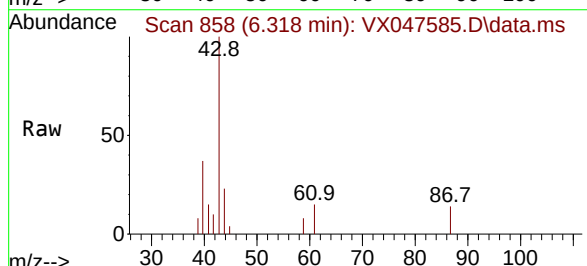
Tgt Ion: 43 Resp: 6784

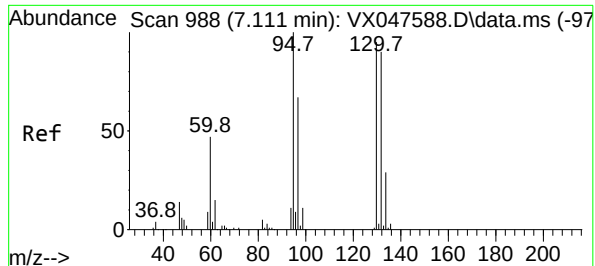
Ion Ratio Lower Upper

43 100

61 15.9 15.2 22.8

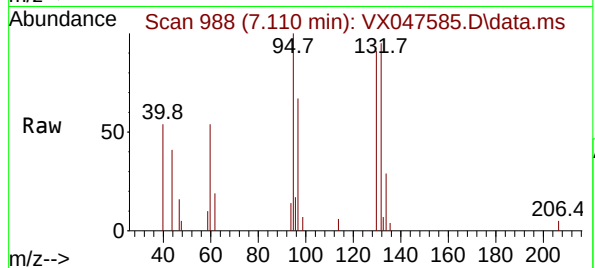
87 10.1 9.6 14.4





#44
Trichloroethene
Concen: 0.824 ug/l
RT: 7.110 min Scan# 911
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

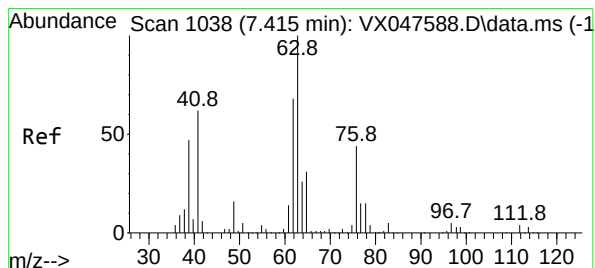
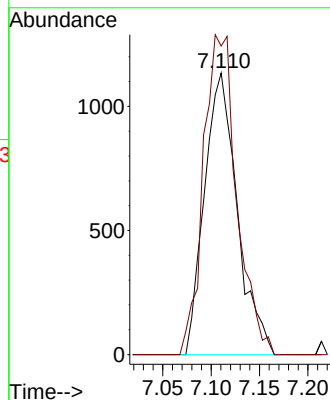
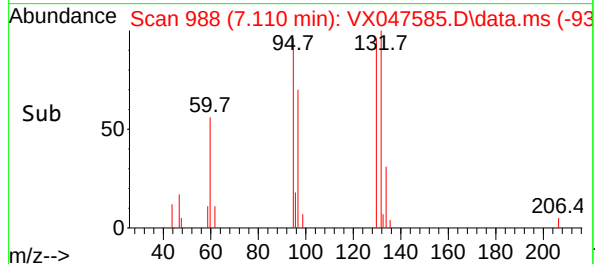
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:130 Resp: 267
Ion Ratio Lower Upper
130 100
95 127.9 0.0 210.8

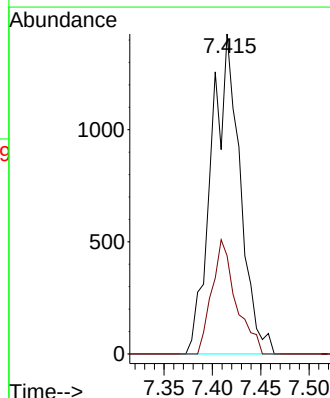
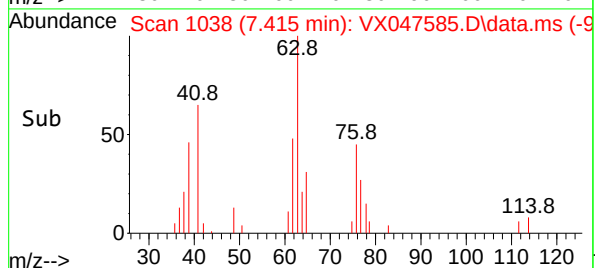
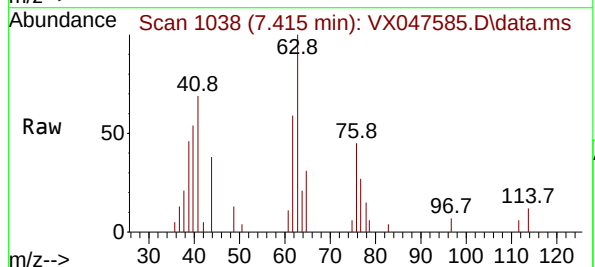
Manual Integrations
APPROVED

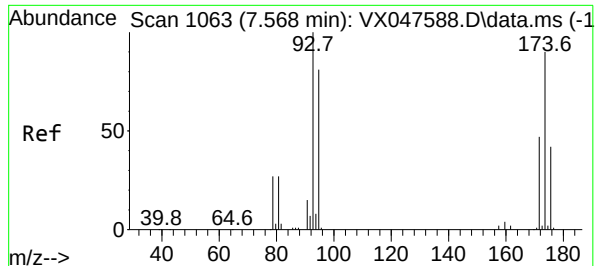
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#45
1,2-Dichloropropane
Concen: 0.856 ug/l
RT: 7.415 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 2945
Ion Ratio Lower Upper
63 100
65 30.7 24.7 37.1





#46

Dibromomethane

Concen: 0.895 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 93 Resp: 2240

Ion Ratio Lower Upper

93 100

95 74.4 65.0 97.6

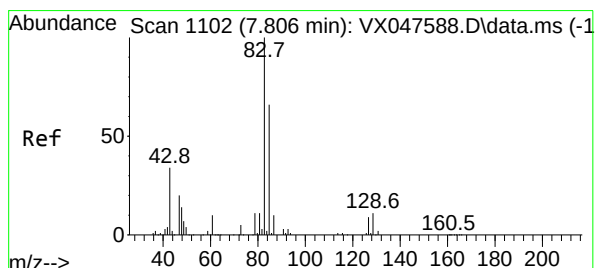
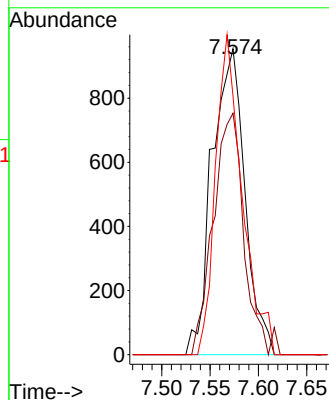
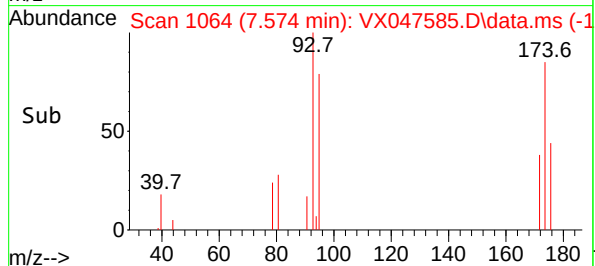
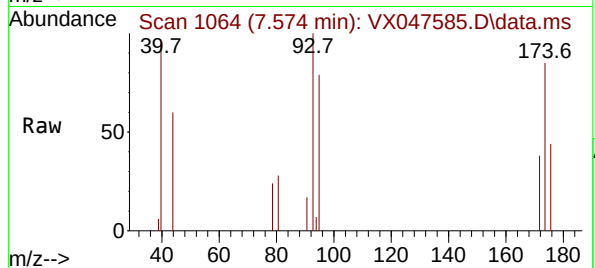
174 85.1 71.6 107.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#47

Bromodichloromethane

Concen: 0.806 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

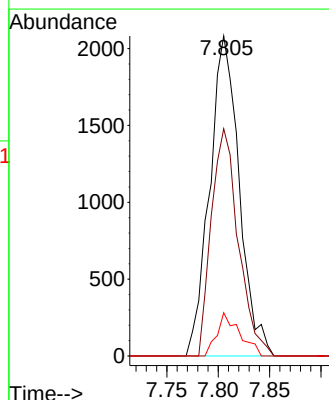
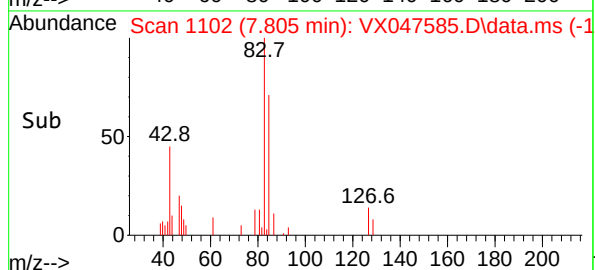
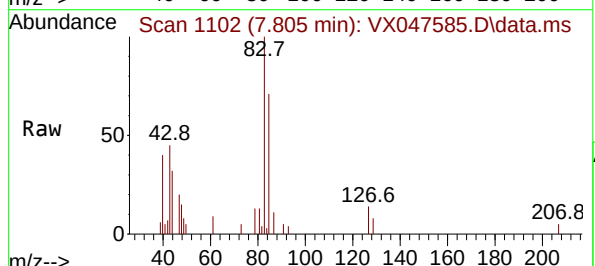
Tgt Ion: 83 Resp: 4167

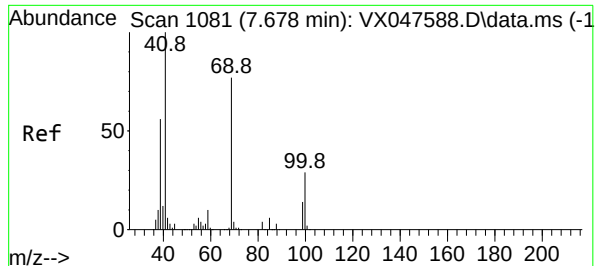
Ion Ratio Lower Upper

83 100

85 71.0 52.5 78.7

127 13.5 6.9 10.3#





#48

Methyl methacrylate

Concen: 0.867 ug/l

RT: 7.683 min Scan# 1081

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

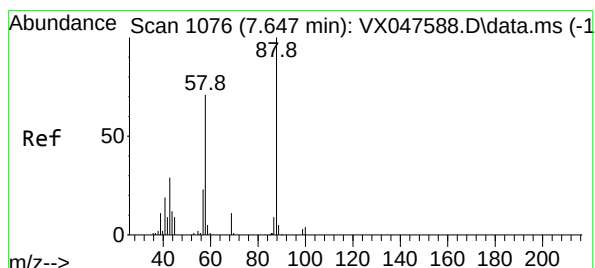
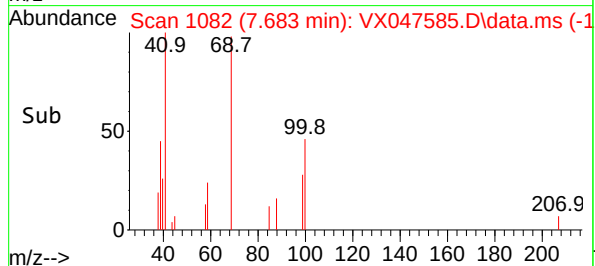
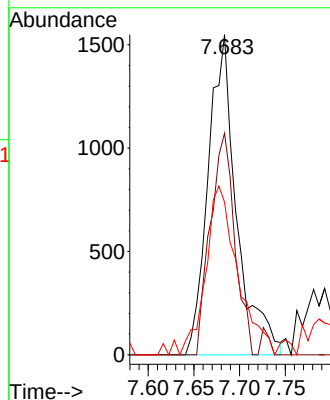
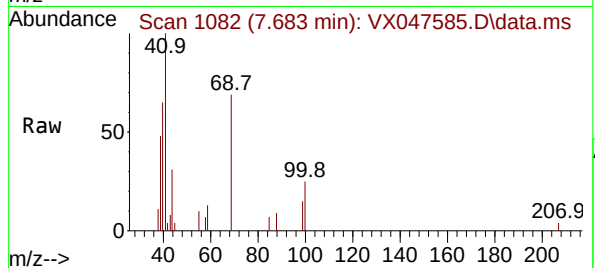
Tgt Ion:	41	Resp:	335
Ion	Ratio	Lower	Upper
41	100		
69	59.3	61.4	92.2
39	59.5	45.8	68.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#49

1,4-Dioxane

Concen: 12.477 ug/l m

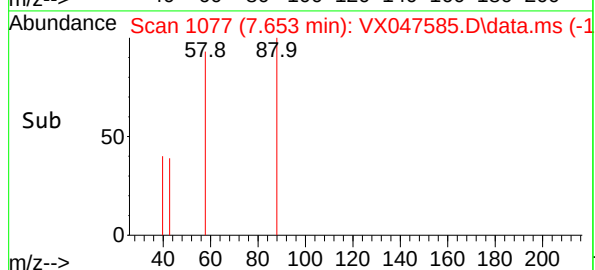
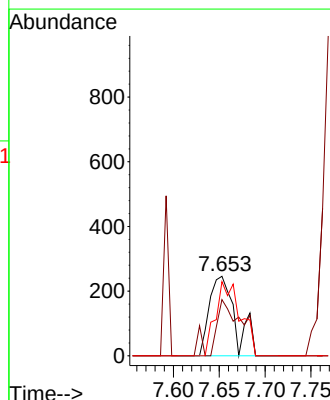
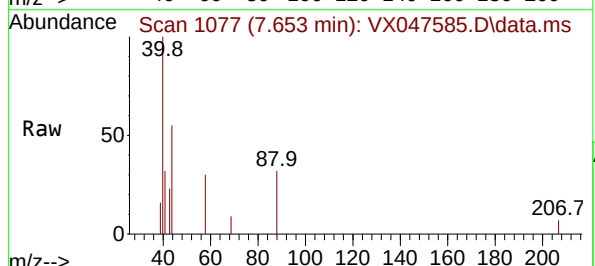
RT: 7.653 min Scan# 1077

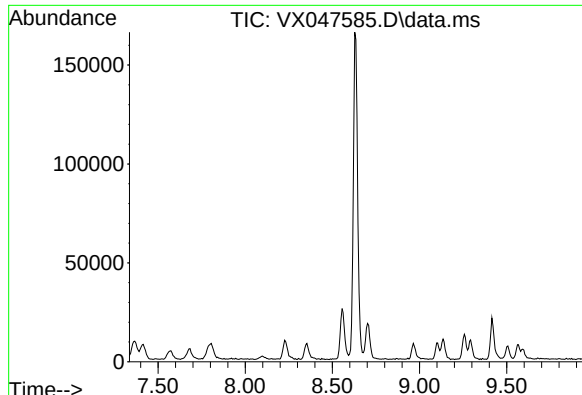
Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	88	Resp:	488
Ion	Ratio	Lower	Upper
88	100		
43	64.1	30.2	45.2
58	88.9	59.5	89.3





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

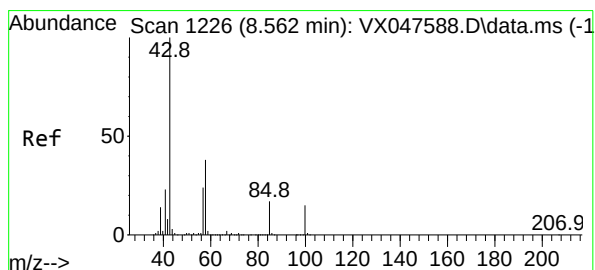
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

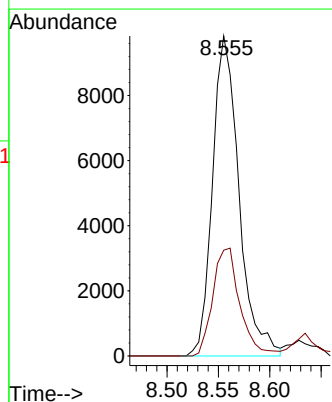
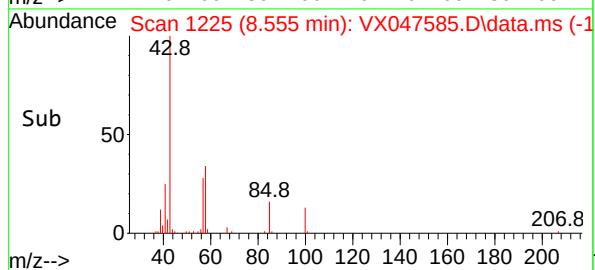
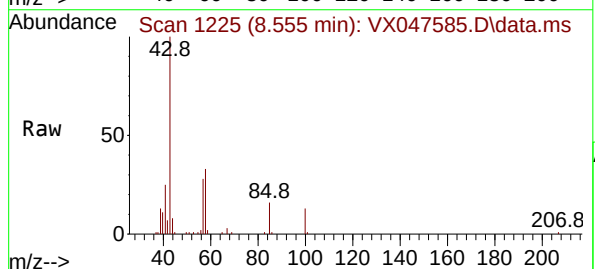
Manual Integrations
APPROVED

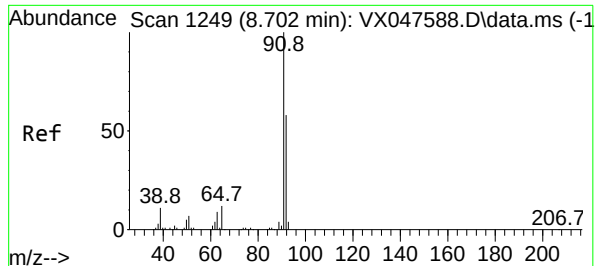
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#51
4-Methyl-2-Pentanone
Concen: 4.085 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 17596
Ion Ratio Lower Upper
43 100
58 34.7 30.3 45.5





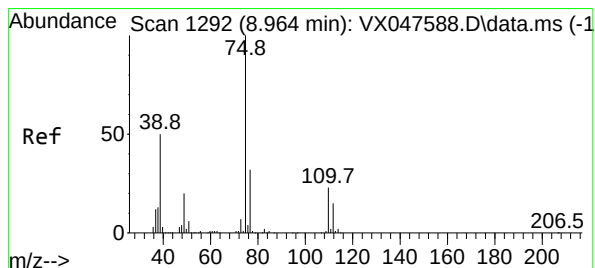
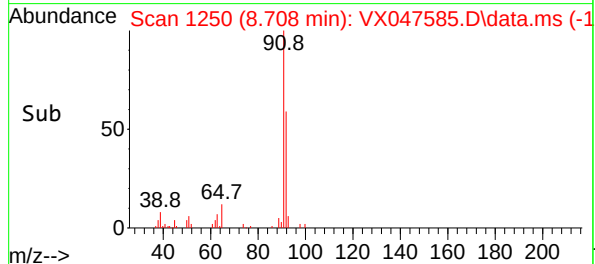
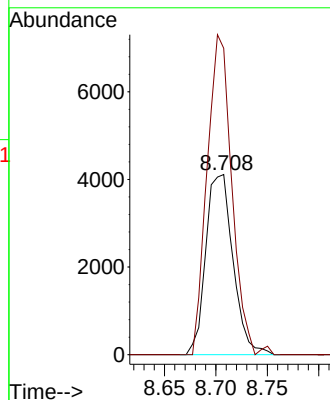
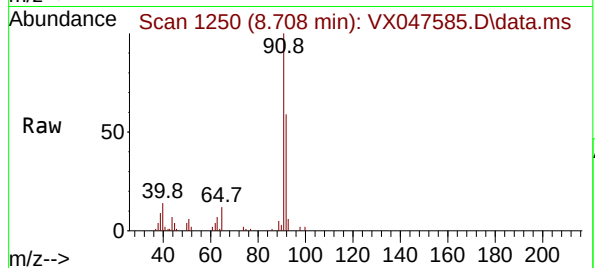
#52
Toluene
Concen: 0.917 ug/l
RT: 8.708 min Scan# 1249
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion: 92 Resp: 759
Ion Ratio Lower Upper
92 100
91 160.7 137.1 205.7

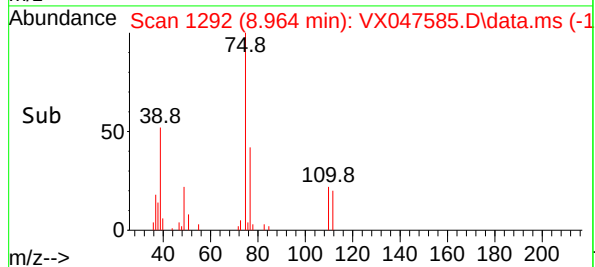
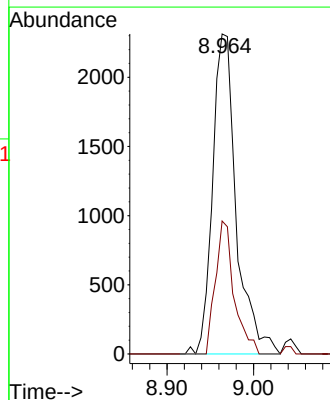
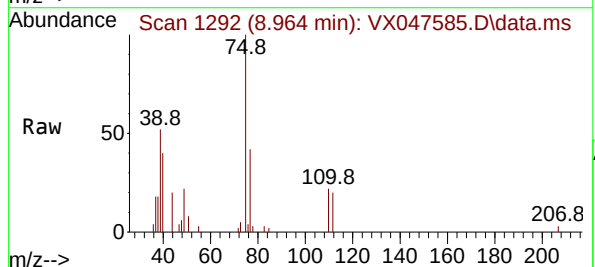
Manual Integrations
APPROVED

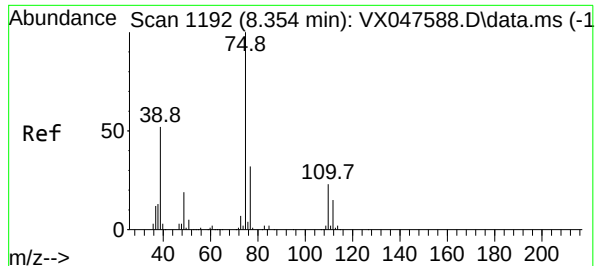
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#53
t-1,3-Dichloropropene
Concen: 0.834 ug/l
RT: 8.964 min Scan# 1292
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

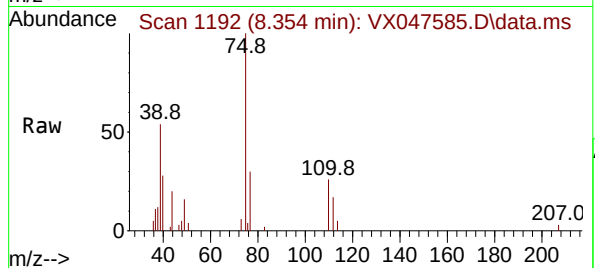
Tgt Ion: 75 Resp: 4398
Ion Ratio Lower Upper
75 100
77 41.5 25.4 38.2#





#54
cis-1,3-Dichloropropene
Concen: 0.823 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

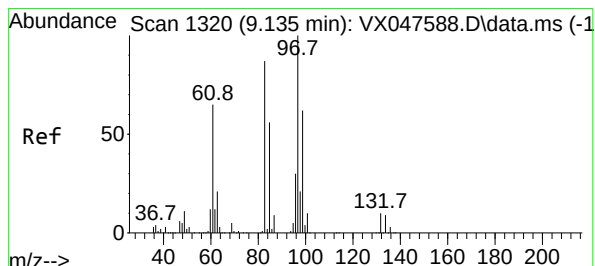
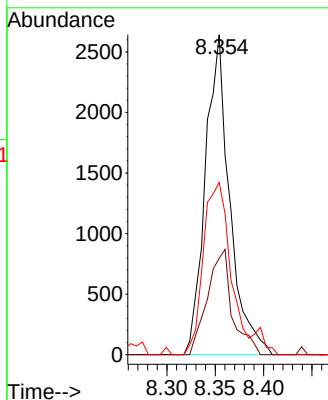
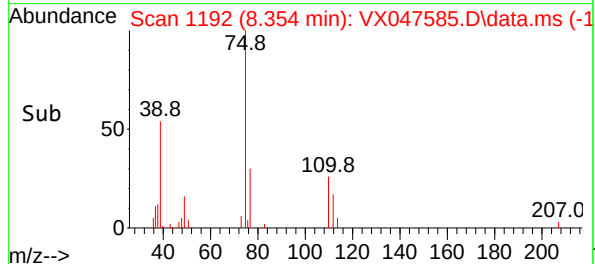
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 75 Resp: 463
Ion Ratio Lower Upper
75 100
77 30.1 25.8 38.6
39 25.6 41.4 62.2

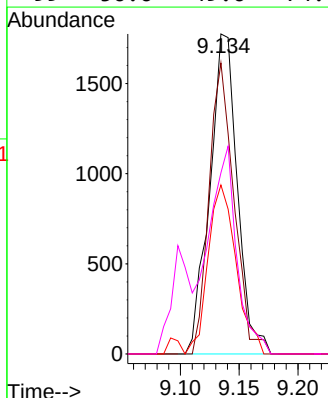
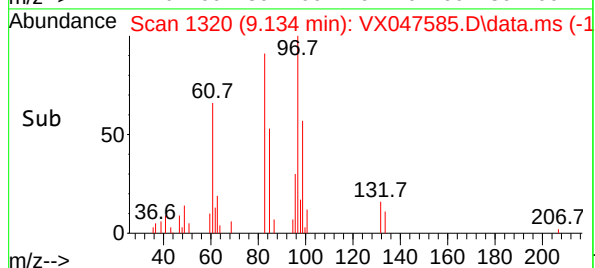
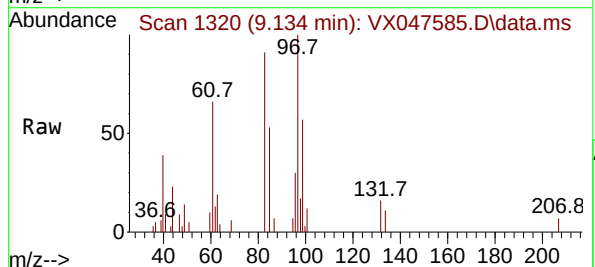
Manual Integrations
APPROVED

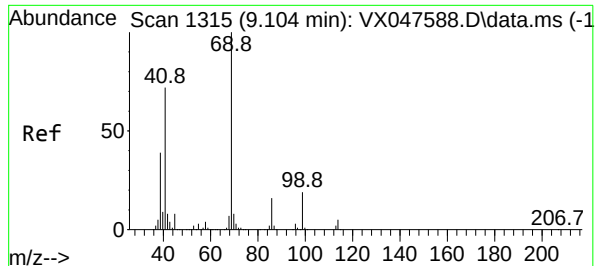
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.134 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 97 Resp: 2918
Ion Ratio Lower Upper
97 100
83 90.9 69.6 104.4
85 52.8 45.0 67.6
99 56.6 49.6 74.4





#56

Ethyl methacrylate

Concen: 0.734 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

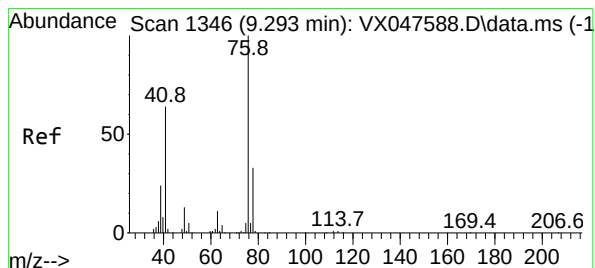
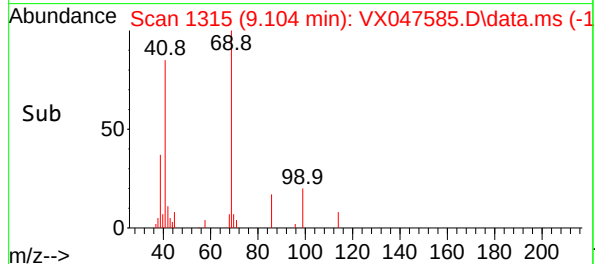
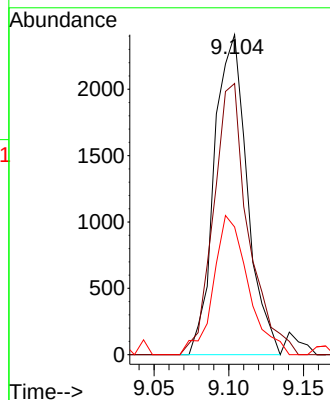
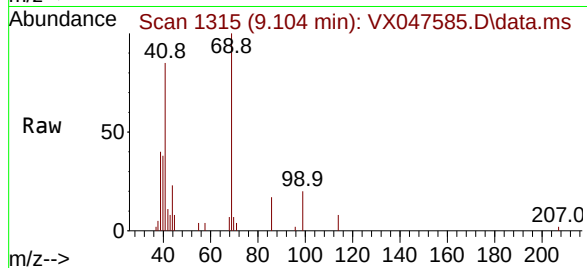
Tgt Ion:	69	Resp:	3679
Ion	Ratio	Lower	Upper
69	100		
41	89.4	58.6	87.8
39	46.0	31.5	47.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#57

1,3-Dichloropropane

Concen: 0.835 ug/l

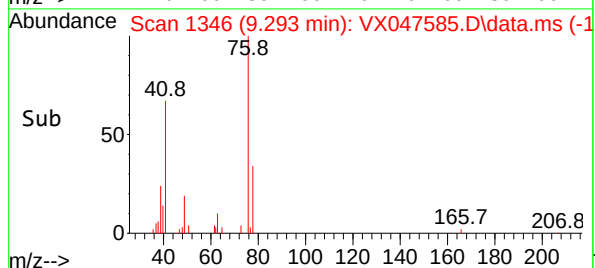
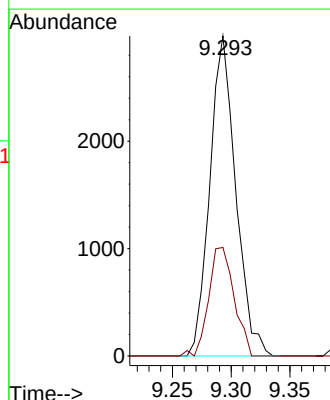
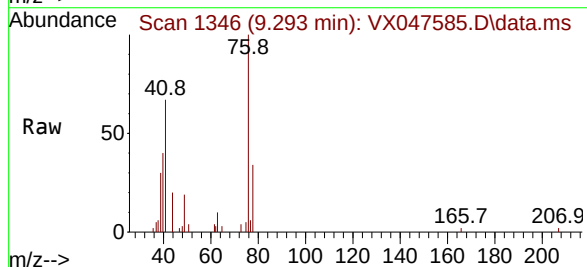
RT: 9.293 min Scan# 1346

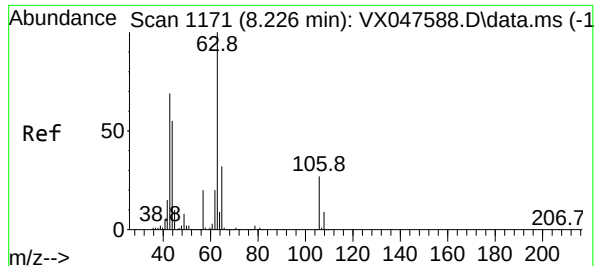
Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	76	Resp:	4580
Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.2	39.4





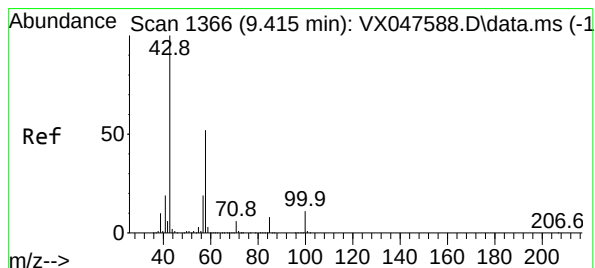
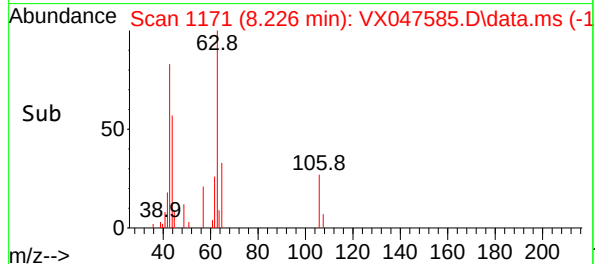
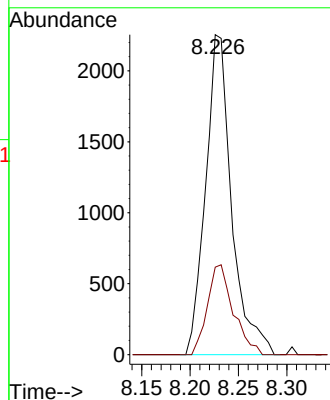
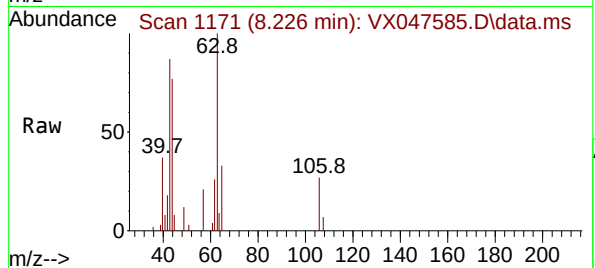
#58
2-Chloroethyl Vinyl ether
Concen: 9.665 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 422
Ion Ratio Lower Upper
63 100
106 27.9 21.9 32.9

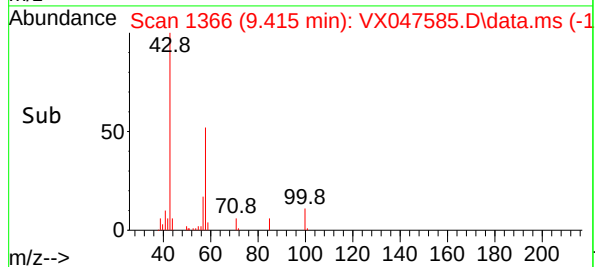
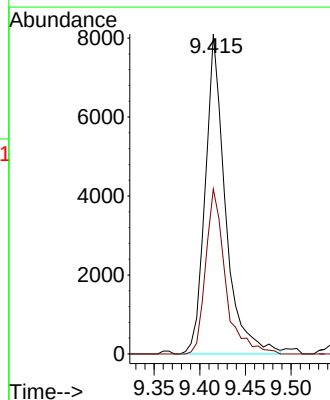
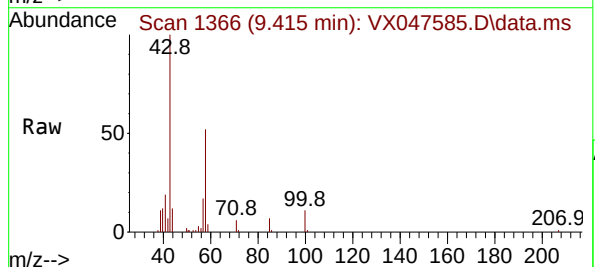
Manual Integrations
APPROVED

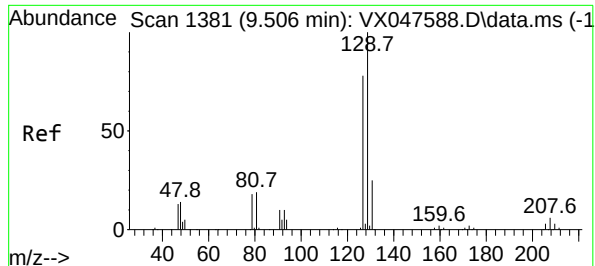
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#59
2-Hexanone
Concen: 4.003 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 12385
Ion Ratio Lower Upper
43 100
58 50.7 26.1 78.2





#60

Dibromochloromethane

Concen: 0.789 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:129 Resp: 290

Ion Ratio Lower Upper

129 100

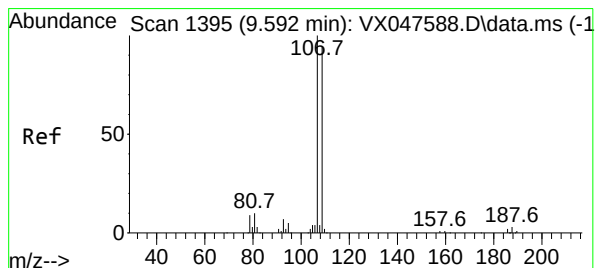
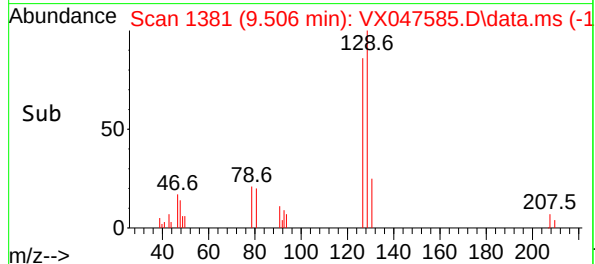
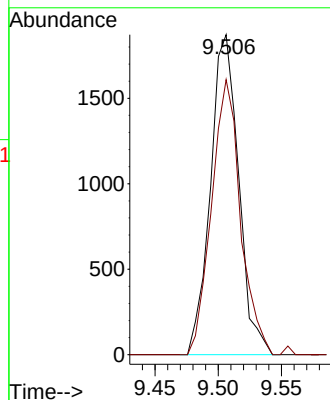
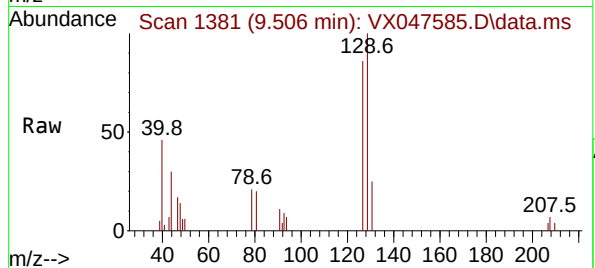
127 88.2 38.4 115.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#61

1,2-Dibromoethane

Concen: 0.798 ug/l

RT: 9.592 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VX047585.D

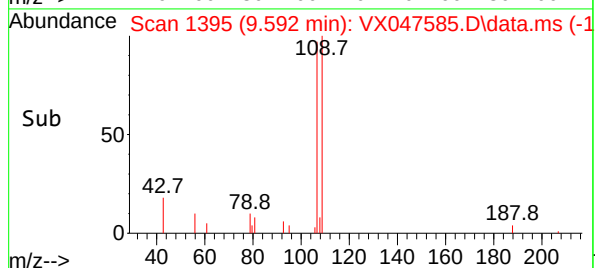
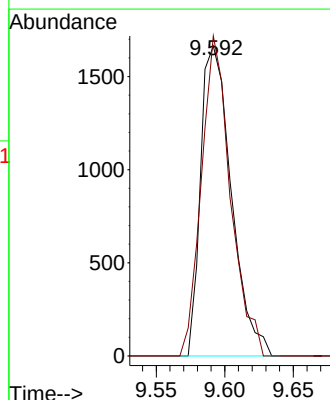
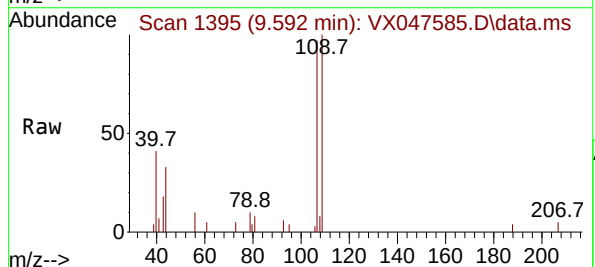
Acq: 16 Sep 2025 09:23

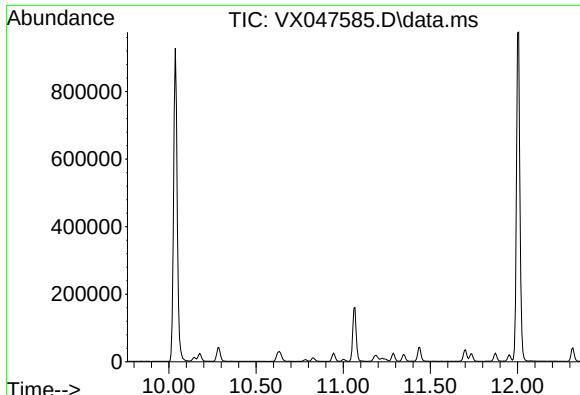
Tgt Ion:107 Resp: 2596

Ion Ratio Lower Upper

107 100

109 97.7 75.3 112.9





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

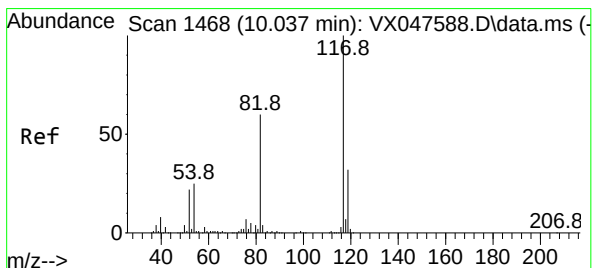
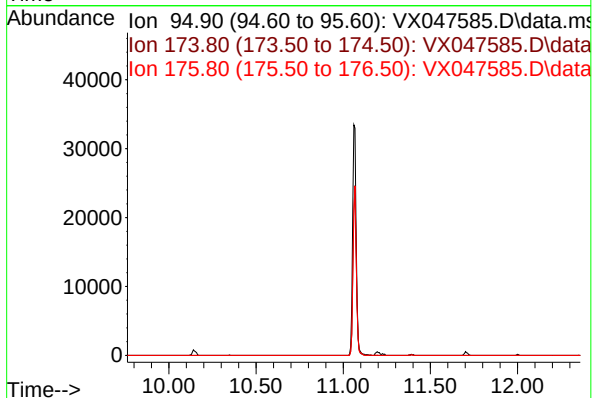
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 95
Sig Exp Ratio
95 100
174 70.8
176 69.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

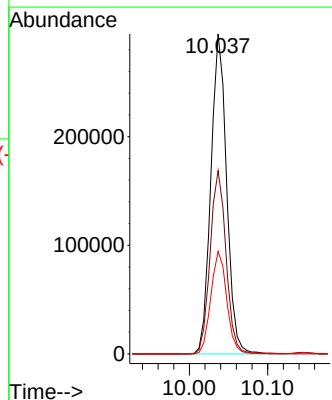
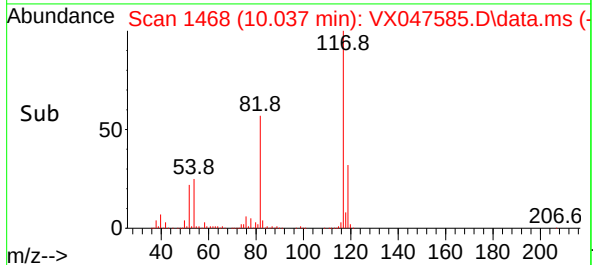
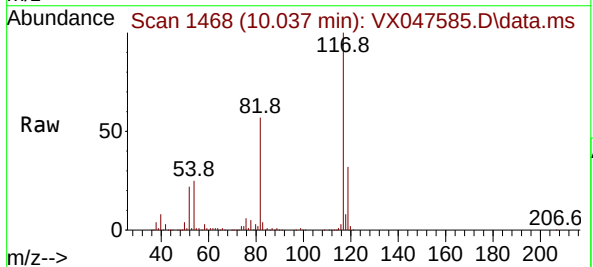
Manual Integrations
APPROVED

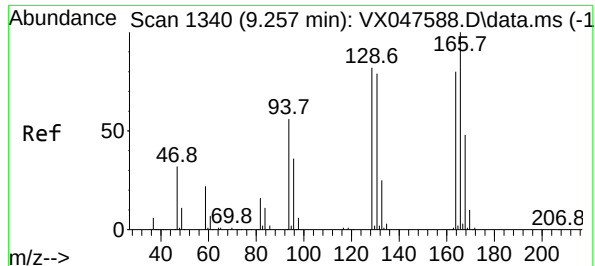
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

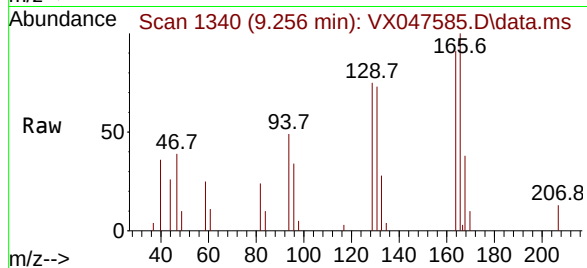
Tgt Ion: 117 Resp: 410953
Ion Ratio Lower Upper
117 100
82 57.3 47.8 71.6
119 32.1 25.2 37.8





#64
Tetrachloroethene
Concen: 0.917 ug/l
RT: 9.256 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

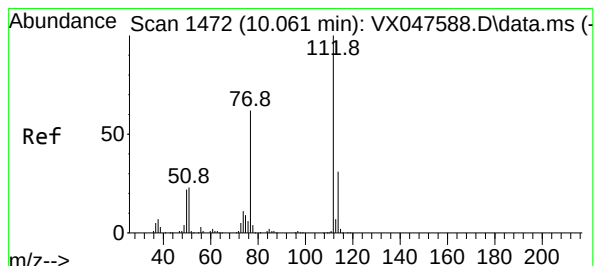
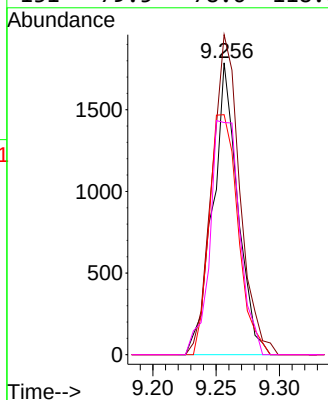
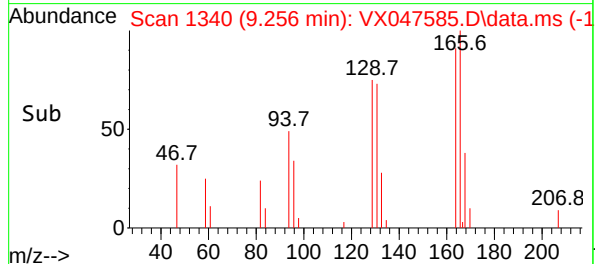
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:164 Resp: 245
Ion Ratio Lower Upper
164 100
166 109.6 100.2 150.2
129 82.2 81.8 122.6
131 79.5 78.6 118.0

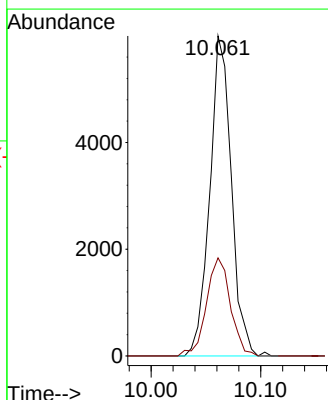
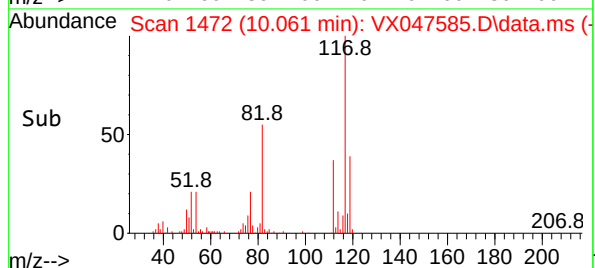
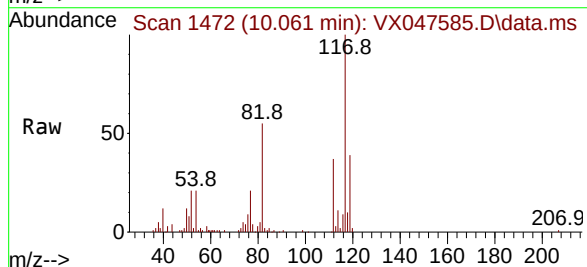
Manual Integrations
APPROVED

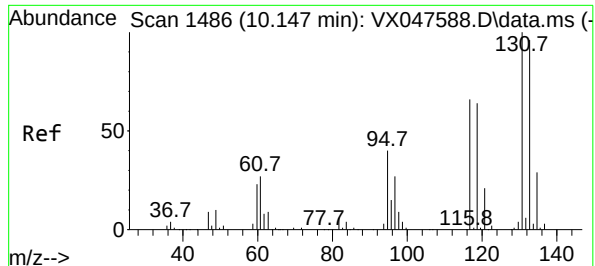
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#65
Chlorobenzene
Concen: 0.879 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

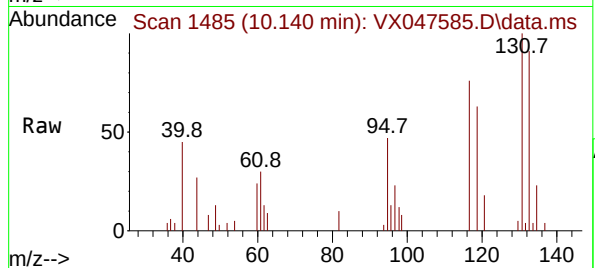
Tgt Ion:112 Resp: 8202
Ion Ratio Lower Upper
112 100
114 30.7 25.1 37.7





#66
1,1,1,2-Tetrachloroethane
Concen: 0.833 ug/l
RT: 10.140 min Scan# 1485
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

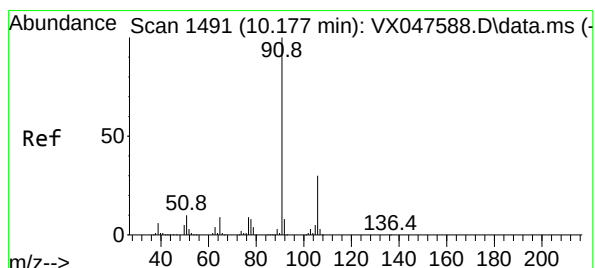
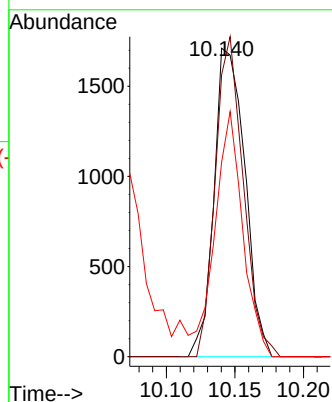
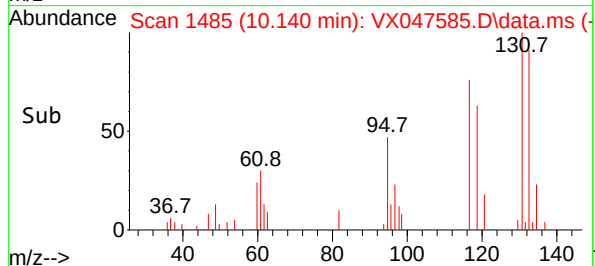
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:131 Resp: 2684
Ion Ratio Lower Upper
131 100
133 93.9 47.3 142.0
119 0.0 32.0 96.0

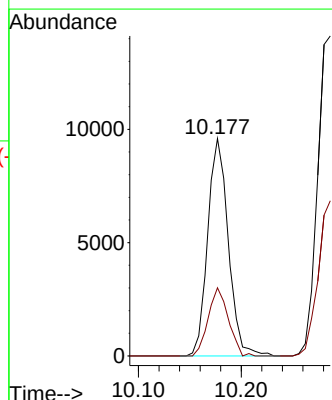
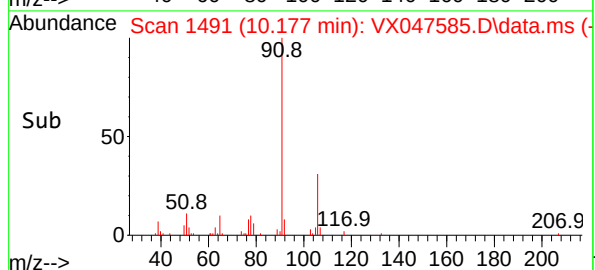
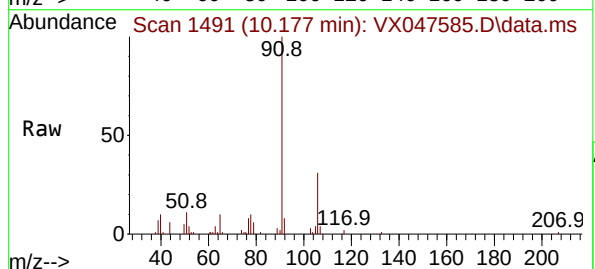
Manual Integrations
APPROVED

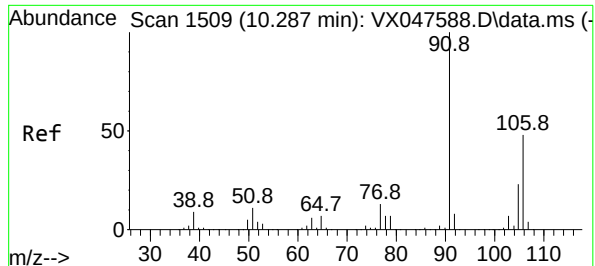
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#67
Ethyl Benzene
Concen: 0.829 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 13360
Ion Ratio Lower Upper
91 100
106 31.3 24.3 36.5





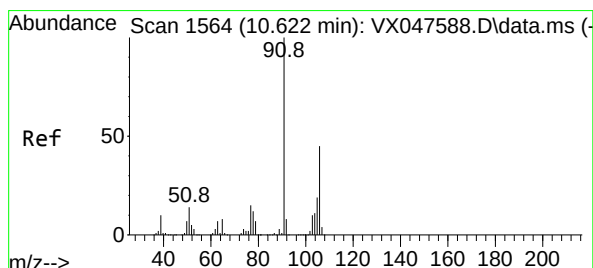
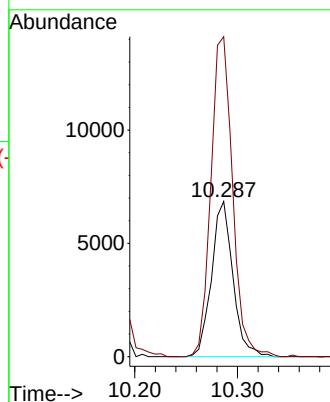
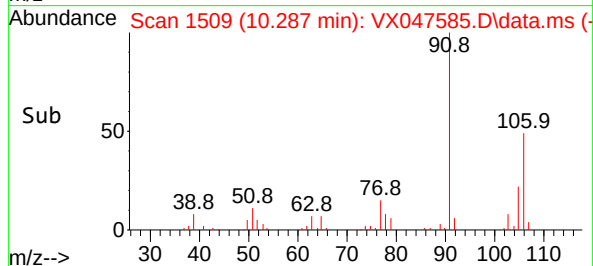
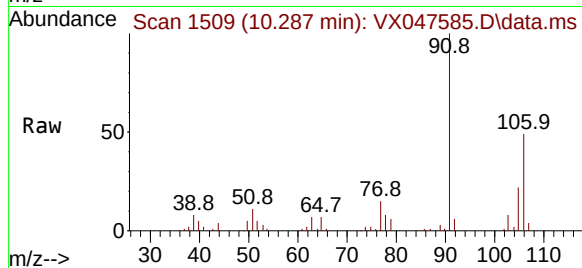
#68
m/p-Xylenes
Concen: 1.655 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion:106 Resp: 992
Ion Ratio Lower Upper
106 100
91 208.5 167.8 251.8

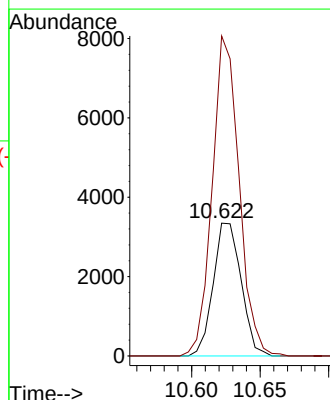
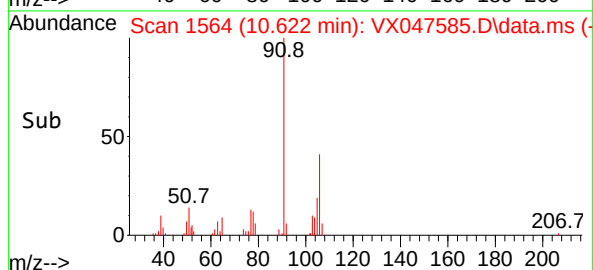
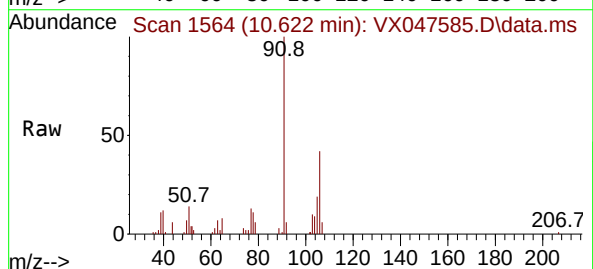
Manual Integrations
APPROVED

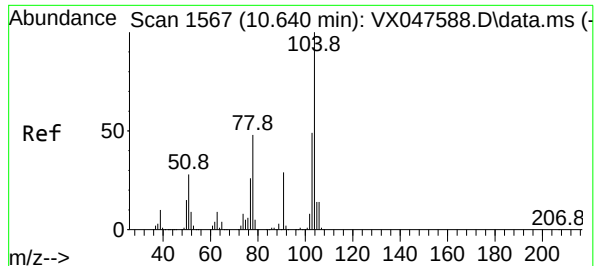
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#69
o-Xylene
Concen: 0.816 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

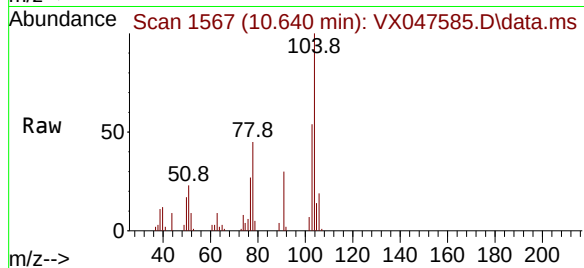
Tgt Ion:106 Resp: 4734
Ion Ratio Lower Upper
106 100
91 232.4 111.1 333.4





#70
Styrene
Concen: 0.824 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

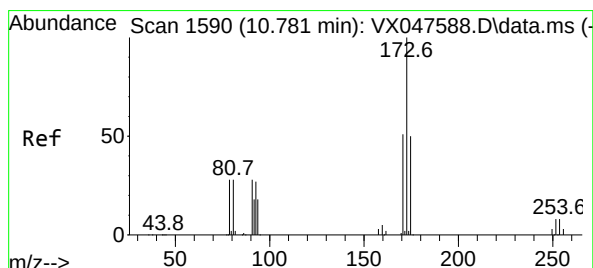
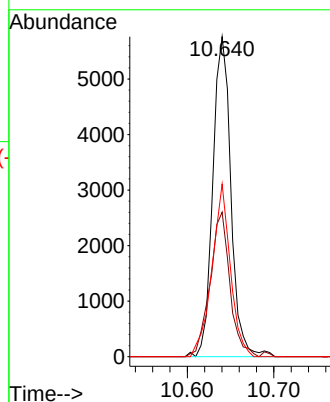
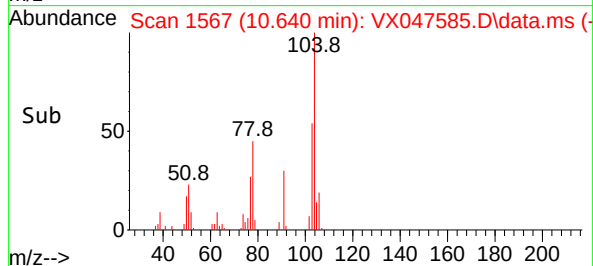
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.5	43.1	64.7
103	55.0	43.1	64.7

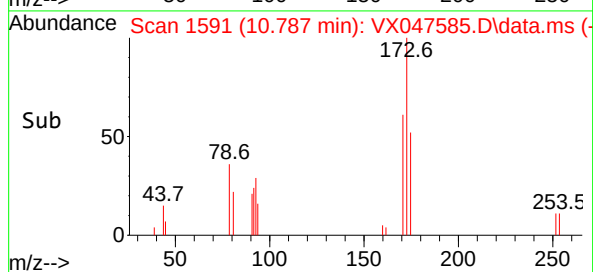
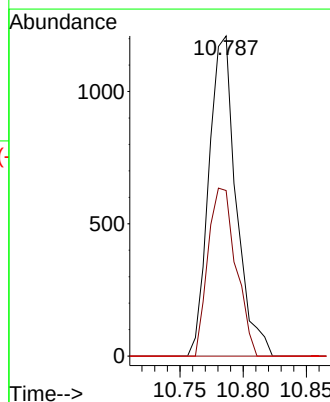
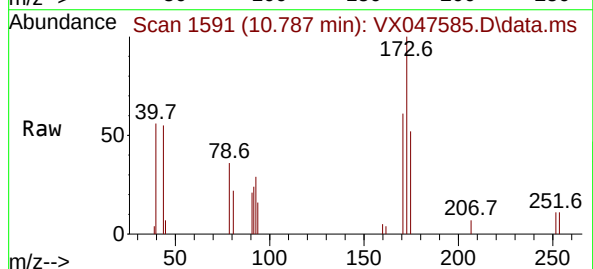
Manual Integrations
APPROVED

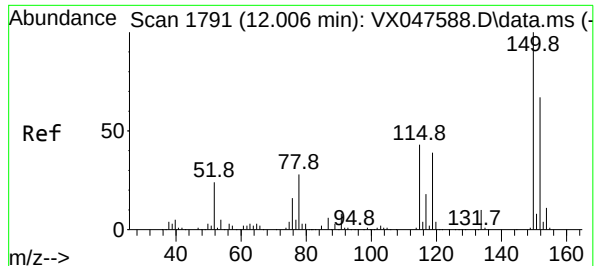
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#71
Bromoform
Concen: 0.755 ug/l
RT: 10.787 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

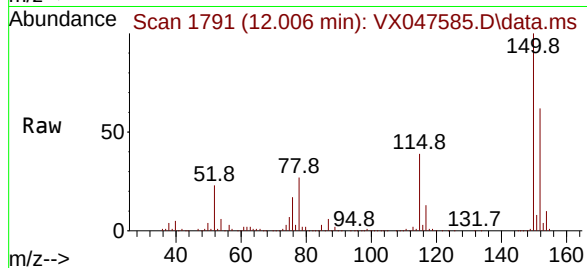
Tgt Ion	Ratio	Lower	Upper
173	100		
175	53.8	24.9	74.6
254	0.0	0.1	0.1





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

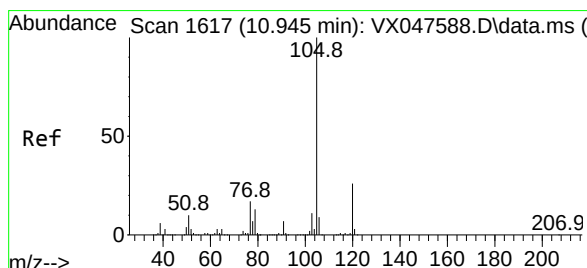
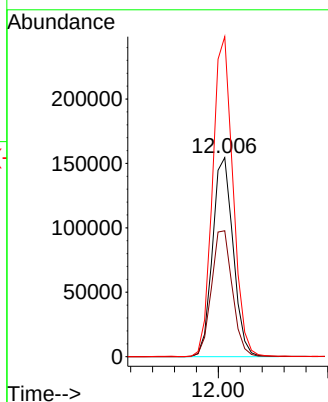
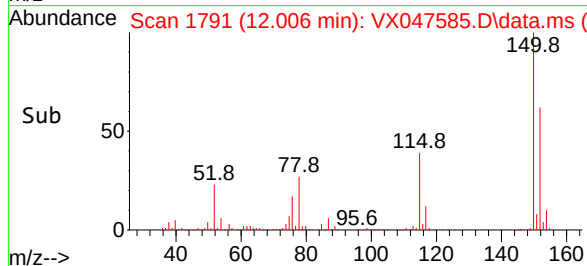
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



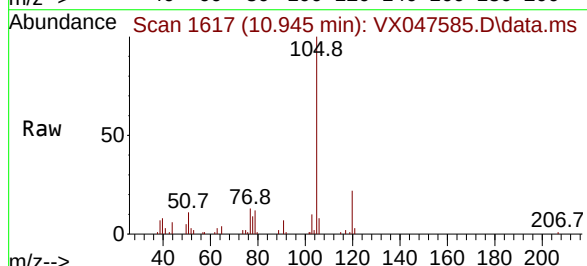
Tgt Ion:152 Resp: 201970
Ion Ratio Lower Upper
152 100
115 64.2 44.9 134.5
150 158.7 0.0 352.0

Manual Integrations
APPROVED

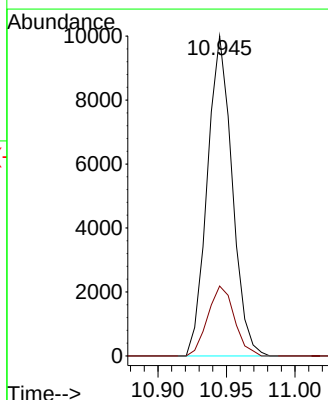
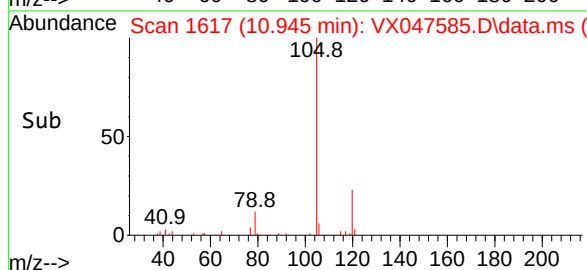
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

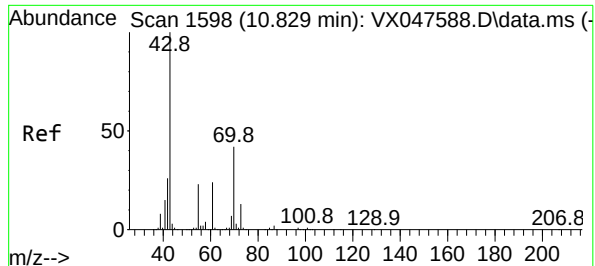


#73
Isopropylbenzene
Concen: 0.822 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23



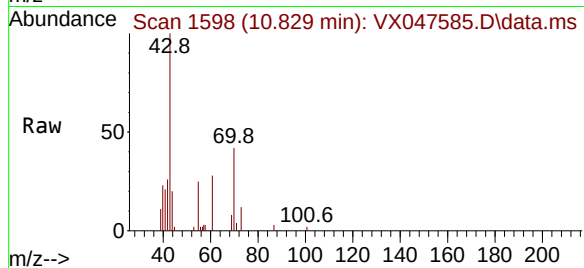
Tgt Ion:105 Resp: 12618
Ion Ratio Lower Upper
105 100
120 23.4 12.8 38.4





#74
N-amy1 acetate
Concen: 0.737 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

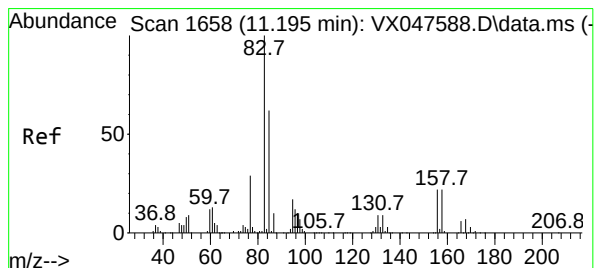
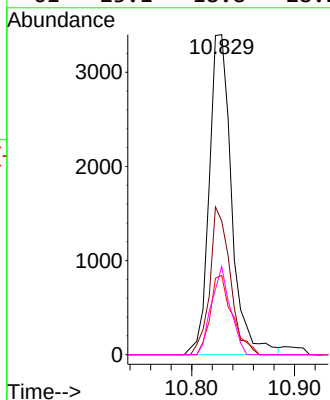
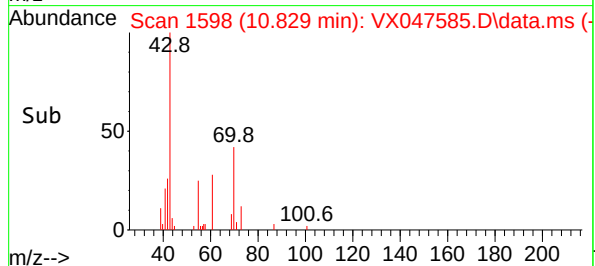
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 5159
Ion Ratio Lower Upper
43 100
70 41.7 32.0 48.0
55 24.3 18.9 28.3
61 23.1 18.8 28.2

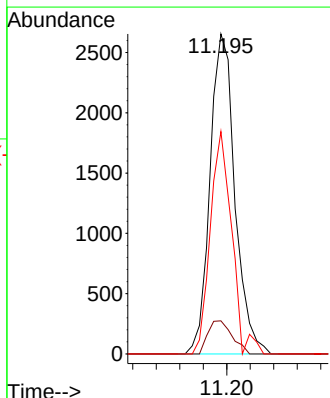
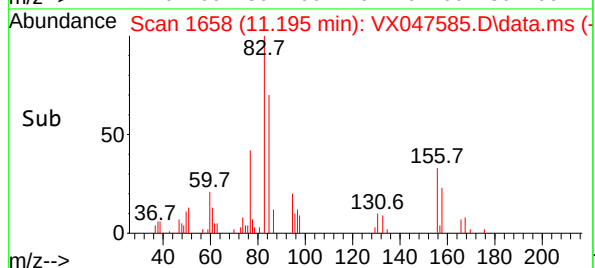
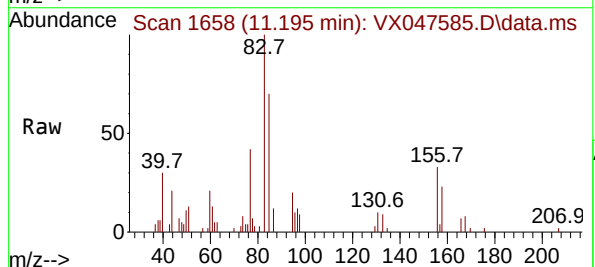
Manual Integrations
APPROVED

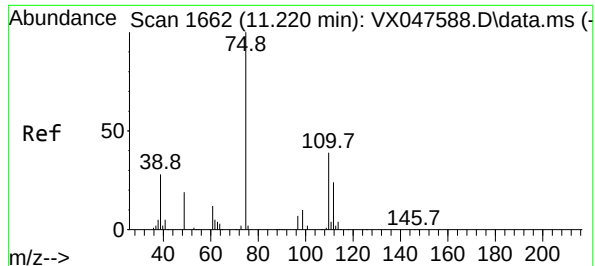
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 0.839 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 3900
Ion Ratio Lower Upper
83 100
131 10.1 5.0 14.9
85 59.8 31.6 95.0





#76

1,2,3-Trichloropropane

Concen: 0.816 ug/l m

RT: 11.225 min Scan# 1663

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 342

Ion Ratio Lower Upper

75 100

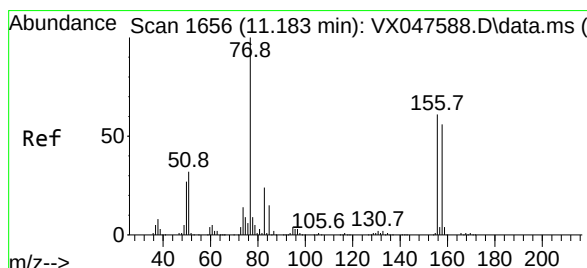
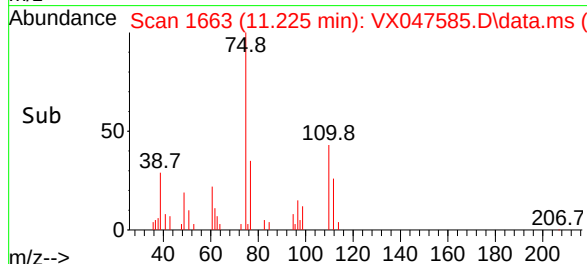
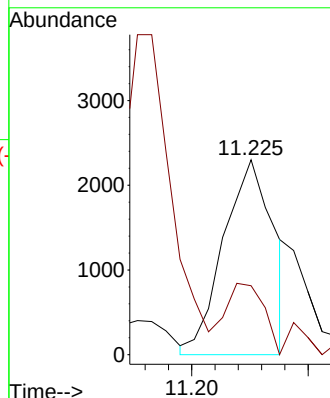
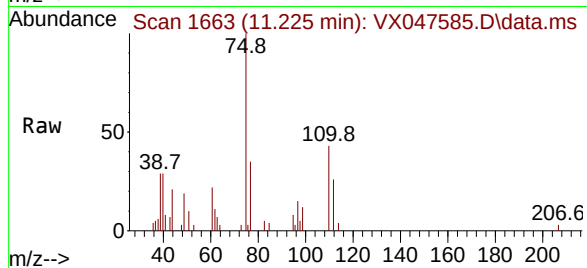
77 34.6 18.8 56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#77

Bromobenzene

Concen: 0.811 ug/l

RT: 11.183 min Scan# 1656

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

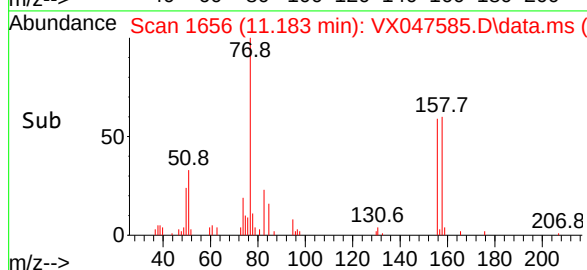
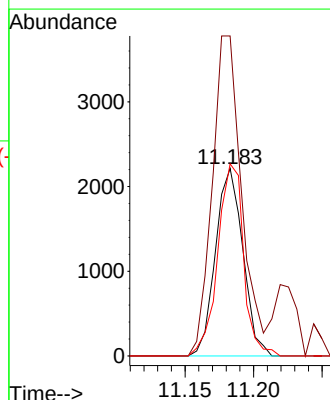
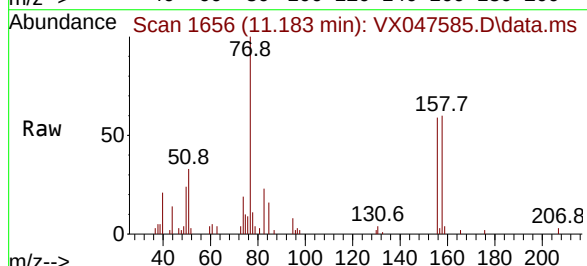
Tgt Ion:156 Resp: 3069

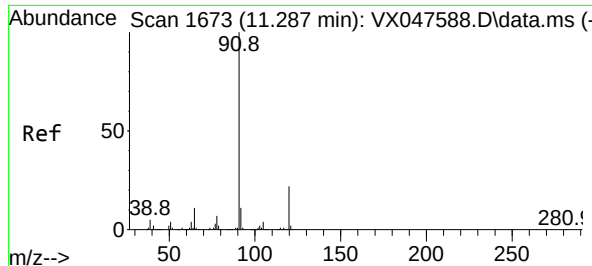
Ion Ratio Lower Upper

156 100

77 182.3 89.7 269.1

158 96.6 47.9 143.6





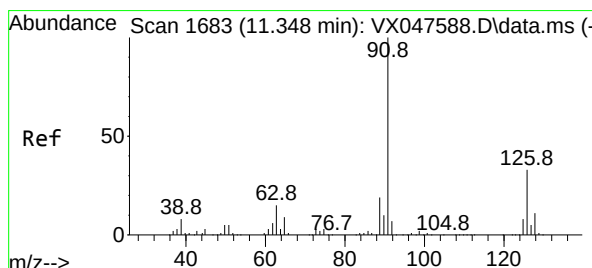
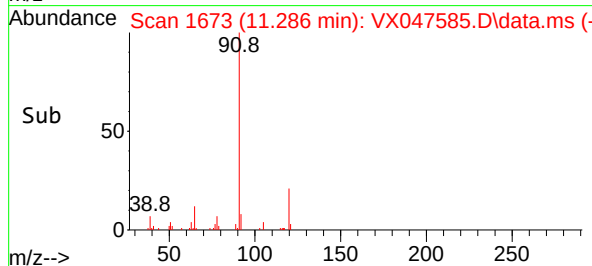
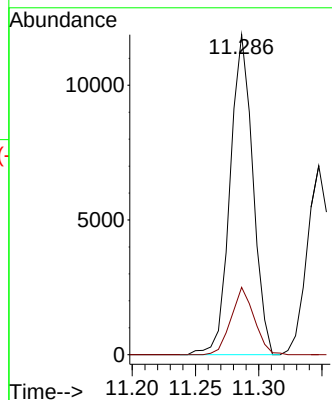
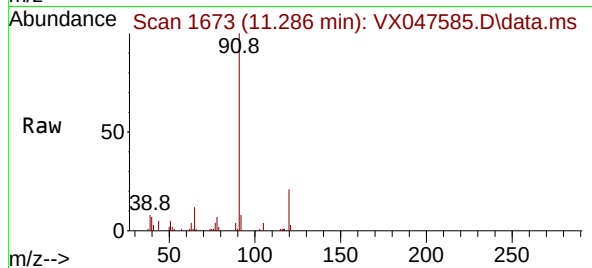
#78
n-propylbenzene
Concen: 0.819 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 1486
Ion Ratio Lower Upper
91 100
120 21.4 11.1 33.1

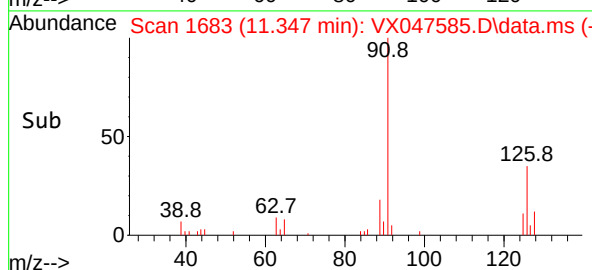
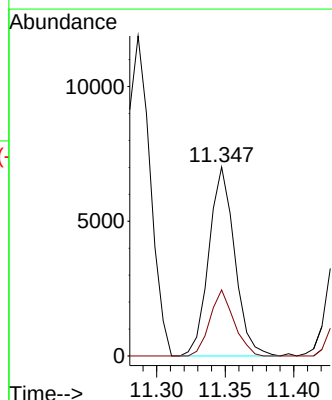
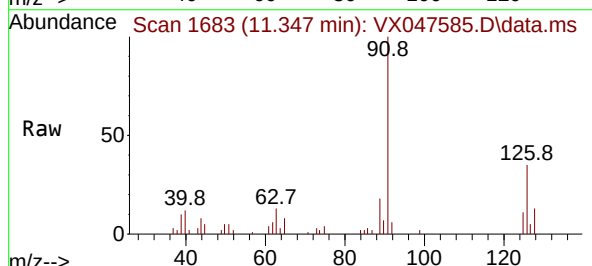
Manual Integrations
APPROVED

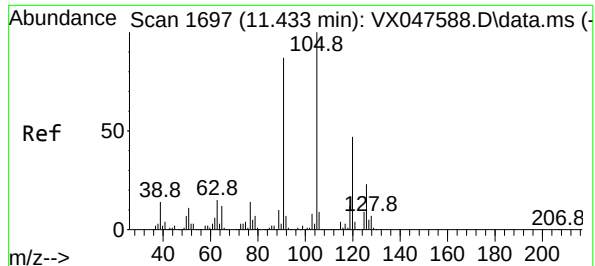
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#79
2-Chlorotoluene
Concen: 0.827 ug/l
RT: 11.347 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

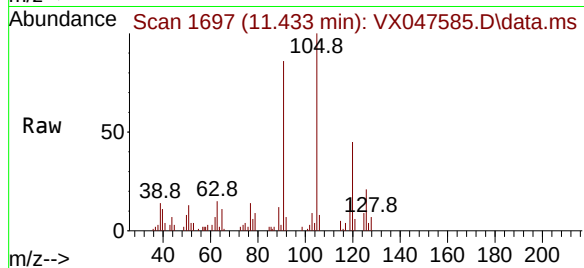
Tgt Ion: 91 Resp: 9195
Ion Ratio Lower Upper
91 100
126 32.5 16.1 48.3





#80
1,3,5-Trimethylbenzene
Concen: 0.787 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

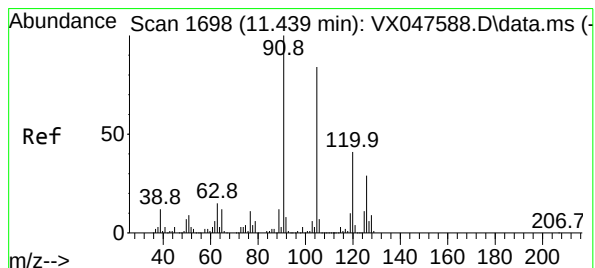
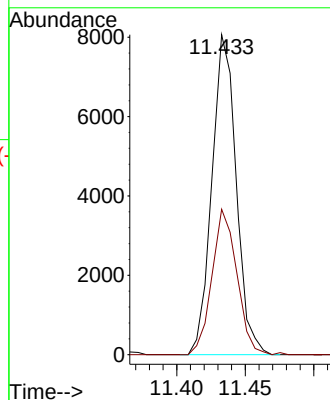
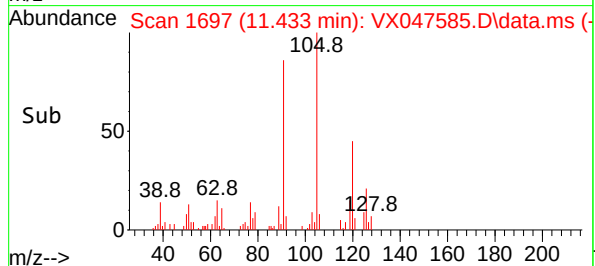
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:105 Resp: 9929
Ion Ratio Lower Upper
105 100
120 46.7 23.6 70.8

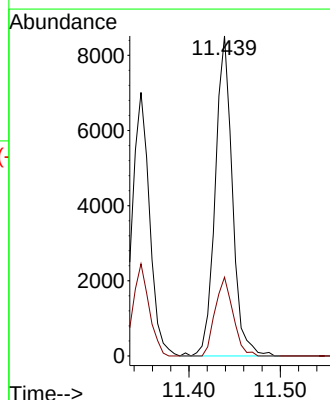
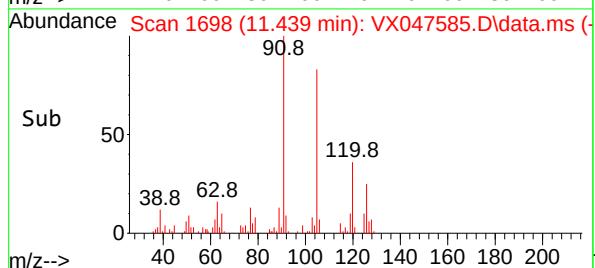
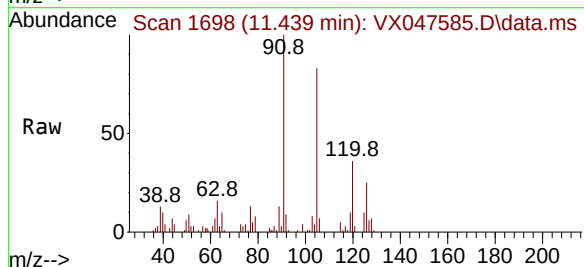
Manual Integrations
APPROVED

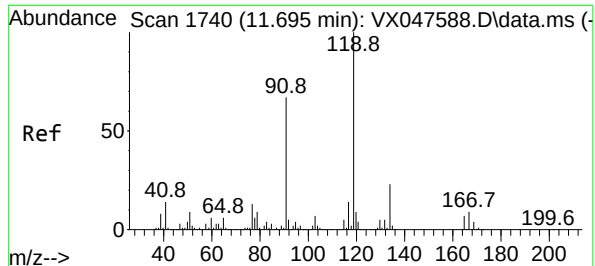
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 0.847 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

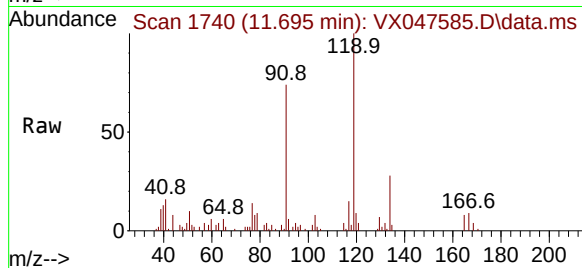
Tgt Ion: 91 Resp: 11123
Ion Ratio Lower Upper
91 100
126 25.8 14.2 42.6





#83
tert-Butylbenzene
Concen: 0.876 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

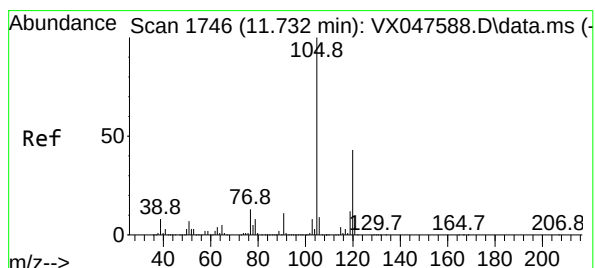
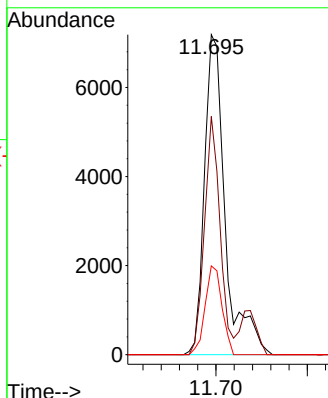
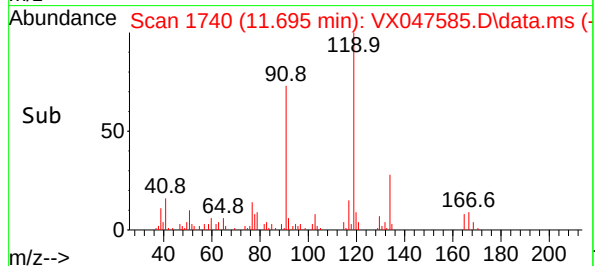
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



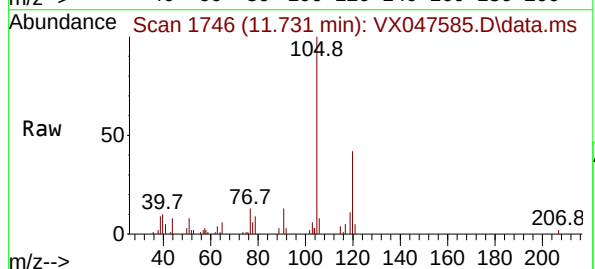
Tgt Ion	Ratio	Lower	Upper
119	100		
91	56.1	29.6	88.8
134	22.5	11.0	33.0

Manual Integrations
APPROVED

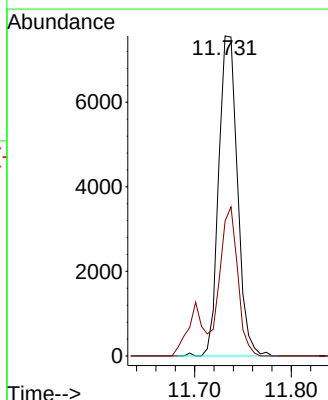
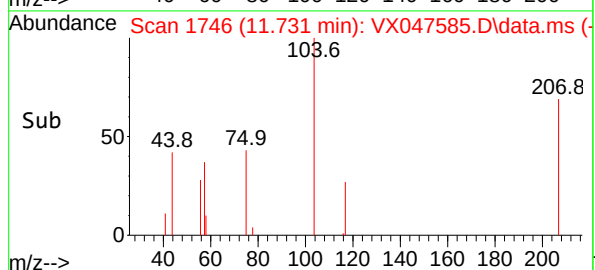
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

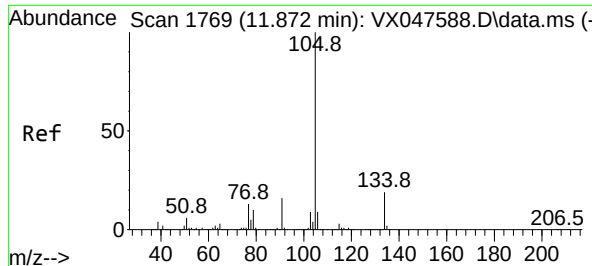


#84
1,2,4-Trimethylbenzene
Concen: 0.796 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23



Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.1





#85

sec-Butylbenzene

Concen: 0.819 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 1256

Ion Ratio Lower Upper

105 100

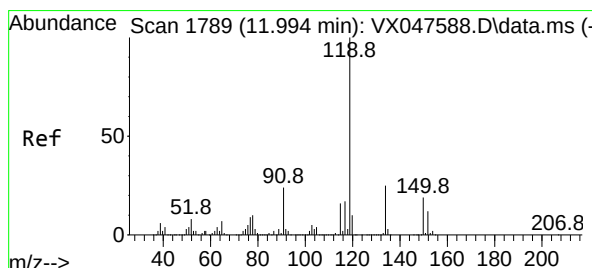
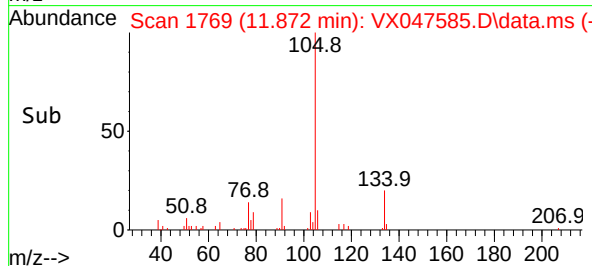
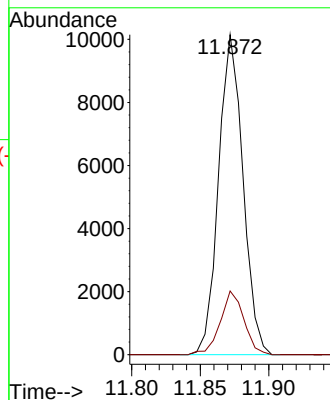
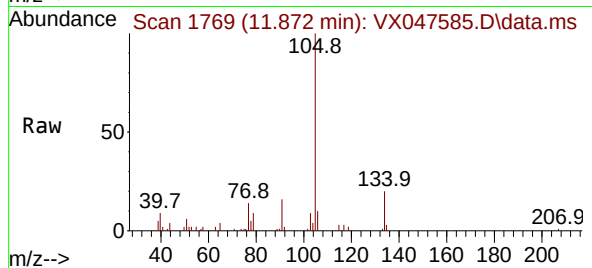
134 19.3 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#86

p-Isopropyltoluene

Concen: 0.827 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

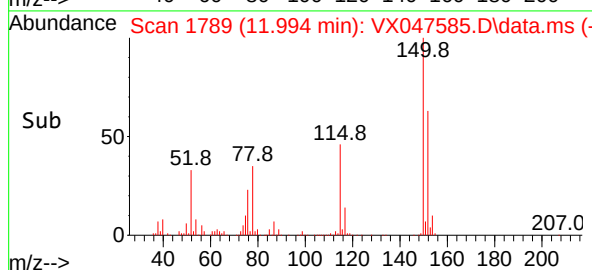
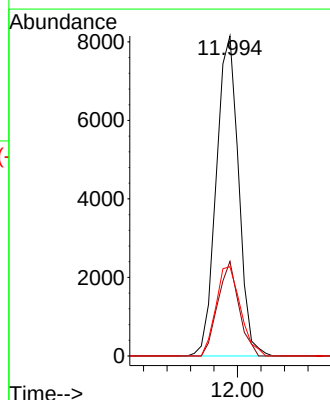
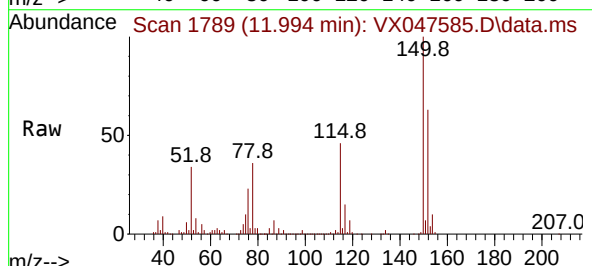
Tgt Ion:119 Resp: 10744

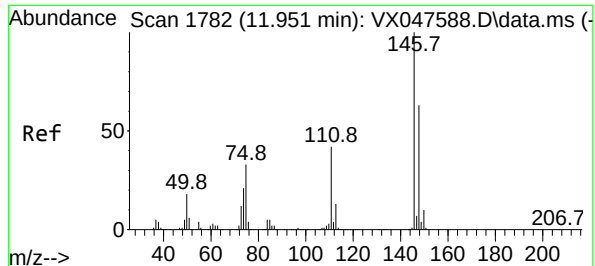
Ion Ratio Lower Upper

119 100

134 27.9 12.6 37.8

91 30.8 12.6 37.6





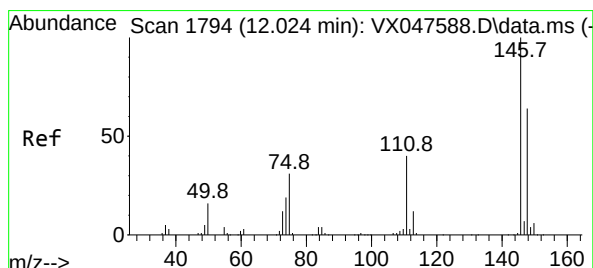
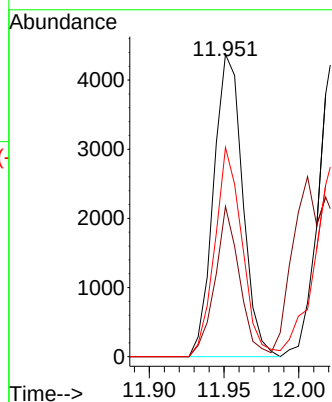
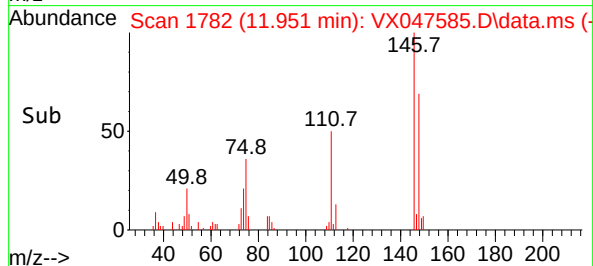
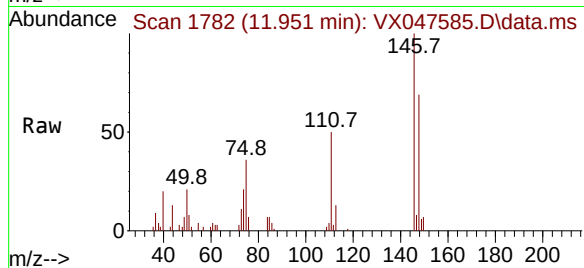
#87
1,3-Dichlorobenzene
Concen: 0.841 ug/l
RT: 11.951 min Scan# 1782
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 590
Ion Ratio Lower Upper
146 100
111 42.2 21.5 64.5
148 65.5 32.0 96.0

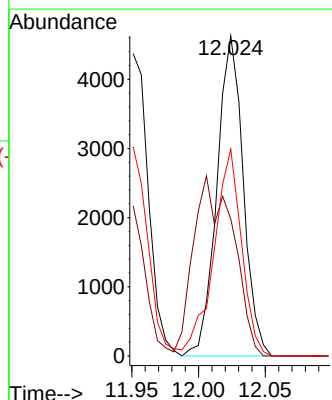
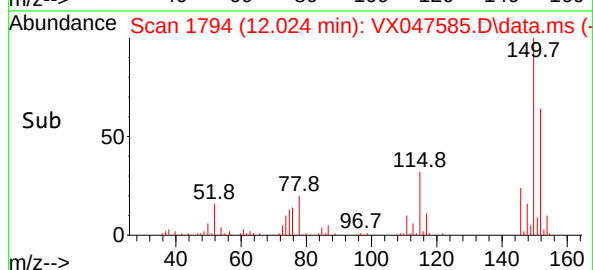
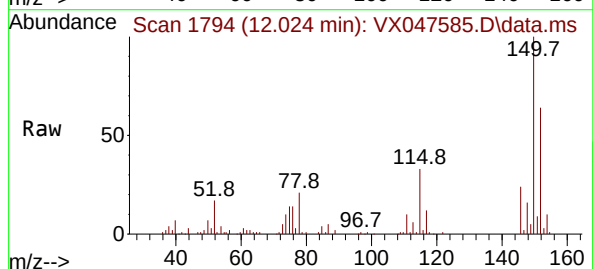
Manual Integrations
APPROVED

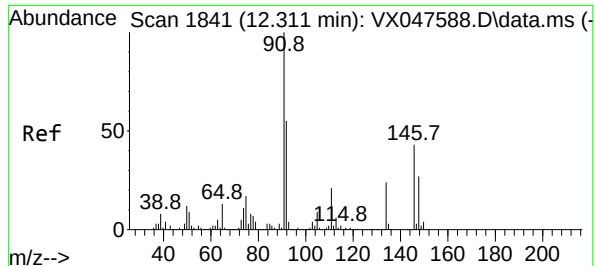
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#88
1,4-Dichlorobenzene
Concen: 0.880 ug/l m
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 6341
Ion Ratio Lower Upper
146 100
111 39.3 20.8 62.4
148 61.1 31.7 95.1





#89

n-Butylbenzene

Concen: 0.816 ug/l

RT: 12.317 min Scan# 1841

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

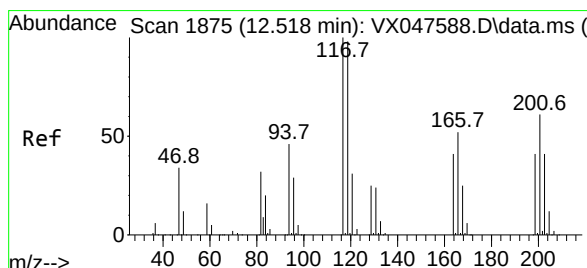
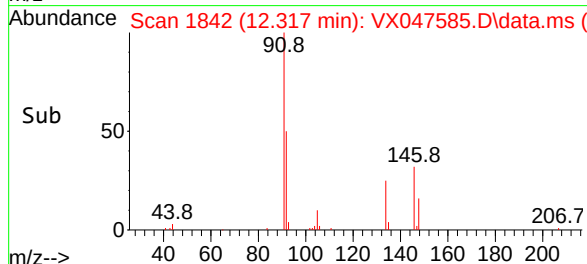
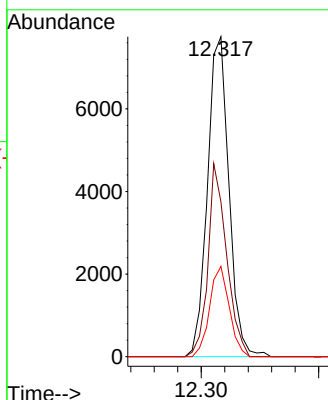
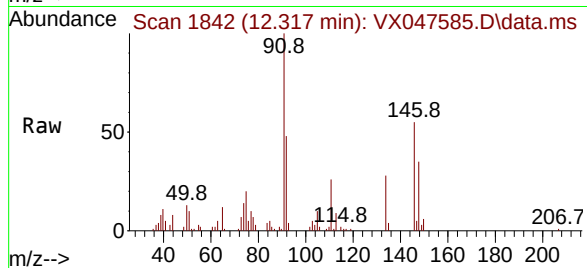
Tgt Ion:	91	Resp:	981
Ion	Ratio	Lower	Upper
91	100		
92	52.4	27.6	82.7
134	25.9	12.6	37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 0.768 ug/l

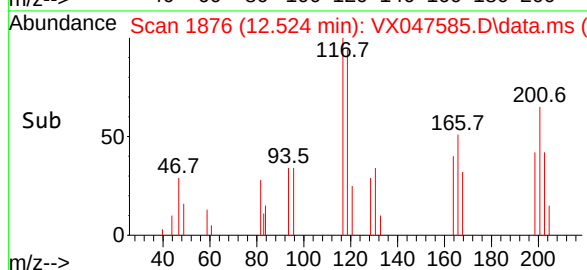
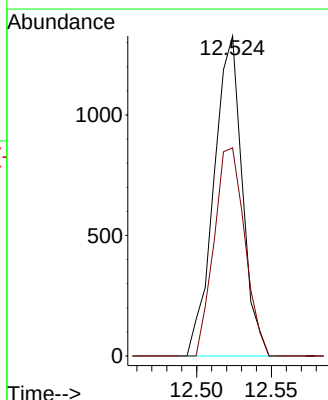
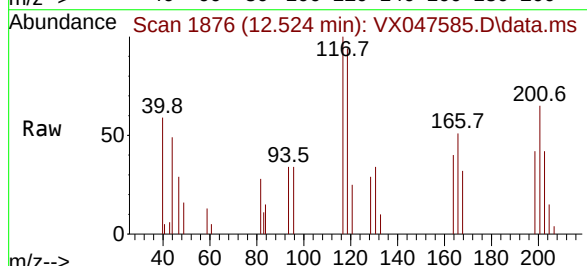
RT: 12.524 min Scan# 1876

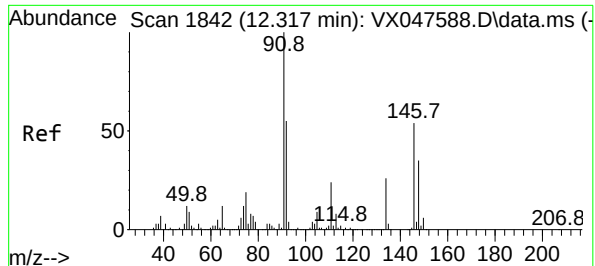
Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

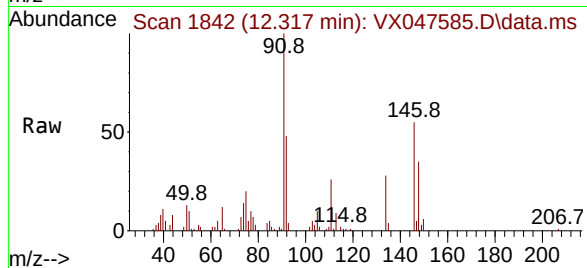
Tgt Ion:	117	Resp:	1752
Ion	Ratio	Lower	Upper
117	100		
201	70.4	34.2	102.5





#91
1,2-Dichlorobenzene
Concen: 0.820 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

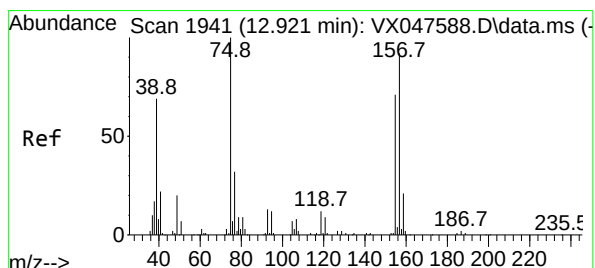
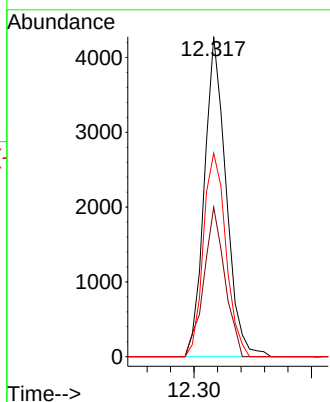
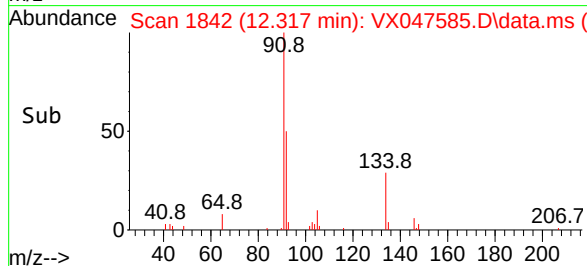
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:146 Resp: 549
Ion Ratio Lower Upper
146 100
111 45.2 22.2 66.6
148 65.8 31.8 95.4

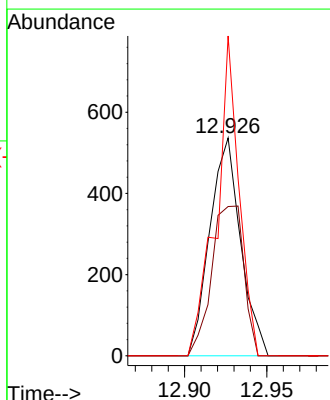
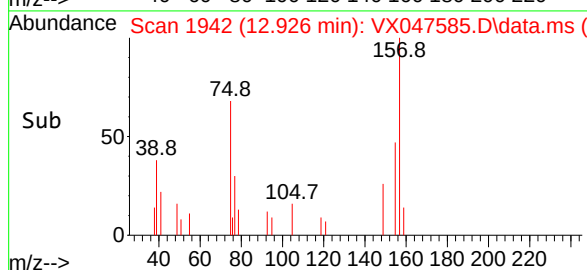
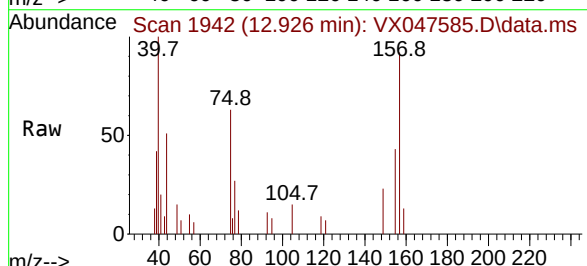
Manual Integrations
APPROVED

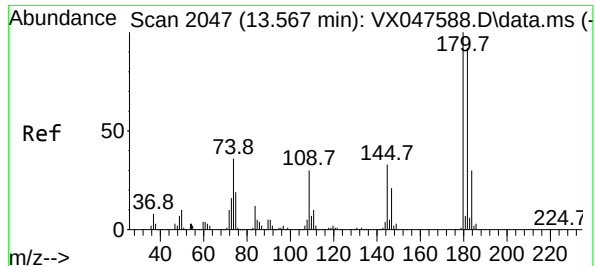
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.742 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 698
Ion Ratio Lower Upper
75 100
155 72.1 37.7 113.1
157 108.7 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 0.772 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

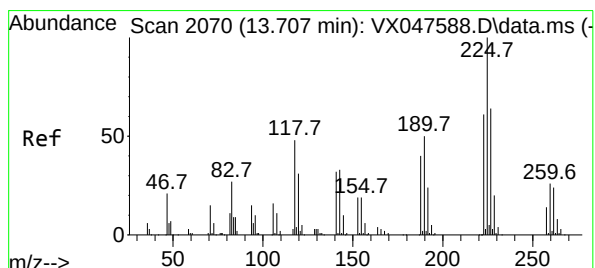
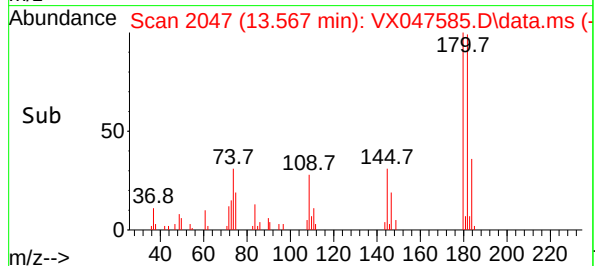
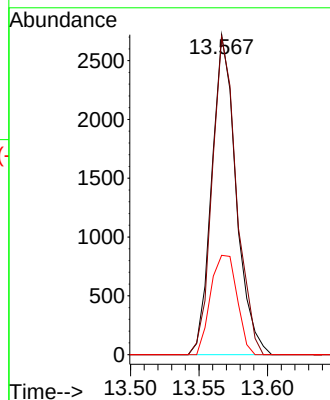
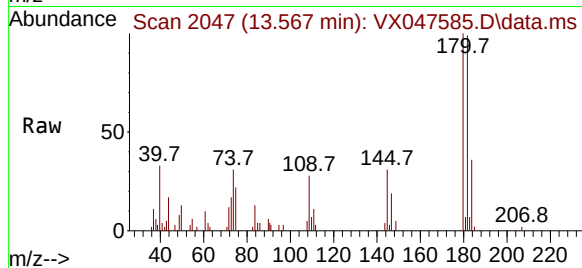
Tgt Ion:	180	Resp:	335
Ion Ratio	Lower	Upper	
180	100		
182	98.6	46.6	139.8
145	33.7	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 0.933 ug/l

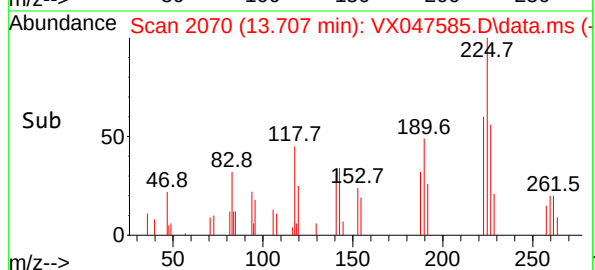
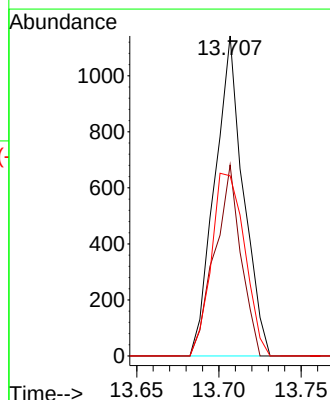
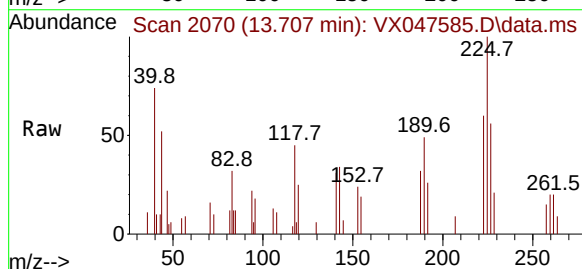
RT: 13.707 min Scan# 2070

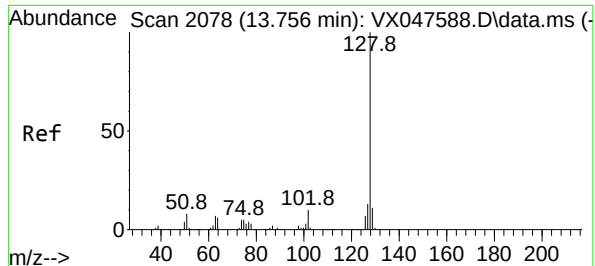
Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

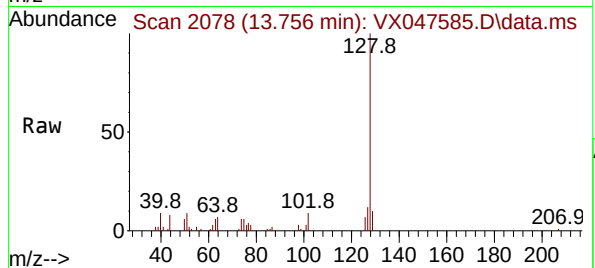
Tgt Ion:	225	Resp:	1378
Ion Ratio	Lower	Upper	
225	100		
223	54.8	31.7	95.1
227	66.7	32.0	96.0





#95
Naphthalene
Concen: 0.763 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

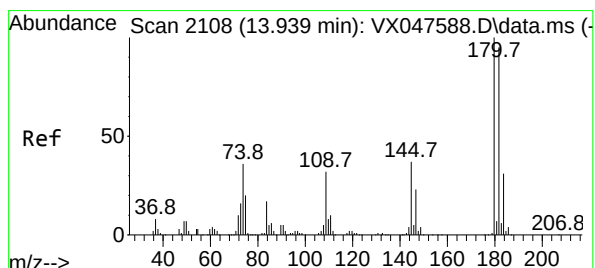
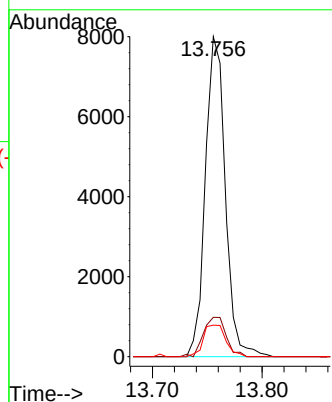
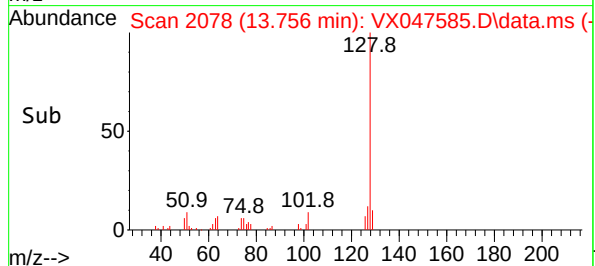
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:128 Resp: 1011
Ion Ratio Lower Upper
128 100
127 14.0 10.2 15.2
129 11.2 8.8 13.2

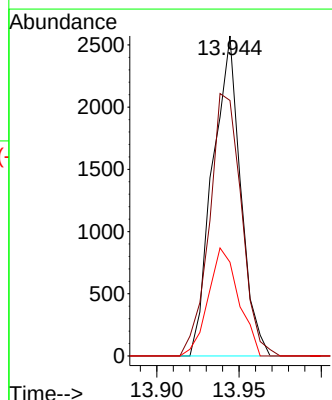
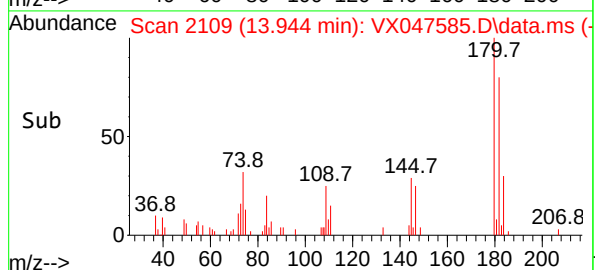
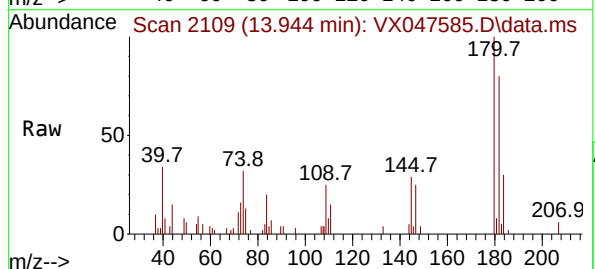
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.752 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:180 Resp: 3043
Ion Ratio Lower Upper
180 100
182 93.7 47.6 142.8
145 36.6 17.9 53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047586.D
 Acq On : 16 Sep 2025 10:16
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	198376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	355026	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	317288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	156219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	17538	5.554	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	11.100%#		
35) Dibromofluoromethane	5.373	113	12647	5.312	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.620%#		
50) Toluene-d8	8.635	98	43926	5.332	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	10.660%#		
62) 4-Bromofluorobenzene	11.061	95	16974	5.429	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.860%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	11403	5.551	ug/l	93
3) Chloromethane	1.301	50	14854	5.502	ug/l	99
4) Vinyl Chloride	1.380	62	14147	5.353	ug/l	97
5) Bromomethane	1.618	94	9780	5.836	ug/l	87
6) Chloroethane	1.697	64	8926	5.053	ug/l	96
7) Trichlorofluoromethane	1.898	101	20497	5.223	ug/l	100
8) Diethyl Ether	2.136	74	8039	5.008	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	11729	5.112	ug/l	98
10) Methyl Iodide	2.453	142	17159	4.795	ug/l	98
11) Tert butyl alcohol	2.947	59	8399	23.883	ug/l	99
12) 1,1-Dichloroethene	2.325	96	12131	5.147	ug/l	91
13) Acrolein	2.239	56	7080	21.847	ug/l	95
14) Allyl chloride	2.666	41	25135	5.168	ug/l	99
15) Acrylonitrile	3.062	53	32587	25.016	ug/l	99
16) Acetone	2.374	43	41297	30.079	ug/l	97
17) Carbon Disulfide	2.514	76	34426	5.335	ug/l	100
18) Methyl Acetate	2.703	43	13357	4.371	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	44396	5.160	ug/l	98
20) Methylene Chloride	2.788	84	15307	5.267	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	13937	5.492	ug/l	97
22) Diisopropyl ether	3.757	45	50213	5.327	ug/l	98
23) Vinyl Acetate	3.715	43	192175	25.474	ug/l	99
24) 1,1-Dichloroethane	3.611	63	26292	5.248	ug/l	97
25) 2-Butanone	4.544	43	46651	27.240	ug/l	92
26) 2,2-Dichloropropane	4.465	77	21738	5.220	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	15996	5.147	ug/l	98
28) Bromochloromethane	4.891	49	12047	5.508	ug/l	95
29) Tetrahydrofuran	4.995	42	26729	25.944	ug/l	92
30) Chloroform	5.080	83	27054	5.344	ug/l	99
31) Cyclohexane	5.458	56	23032	5.520	ug/l	94
32) 1,1,1-Trichloroethane	5.367	97	22279	5.188	ug/l	96
36) 1,1-Dichloropropene	5.684	75	18455	5.304	ug/l	98
37) Ethyl Acetate	4.708	43	19913	5.345	ug/l #	97
38) Carbon Tetrachloride	5.666	117	20376	5.390	ug/l	96
39) Methylcyclohexane	7.367	83	20900	5.292	ug/l	97
40) Benzene	6.019	78	55996	5.299	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047586.D
 Acq On : 16 Sep 2025 10:16
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	9390	4.883	ug/l	95
42) 1,2-Dichloroethane	6.074	62	21117	5.252	ug/l	99
43) Isopropyl Acetate	6.324	43	31304	5.124	ug/l	99
44) Trichloroethene	7.111	130	13576	5.314	ug/l	97
45) 1,2-Dichloropropane	7.415	63	14305	5.287	ug/l	99
46) Dibromomethane	7.568	93	10133	5.146	ug/l	99
47) Bromodichloromethane	7.806	83	21270	5.235	ug/l	99
48) Methyl methacrylate	7.677	41	14959	4.915	ug/l	99
49) 1,4-Dioxane	7.653	88	3017	98.096	ug/l #	90
51) 4-Methyl-2-Pentanone	8.555	43	87492	25.828	ug/l	100
52) Toluene	8.702	92	34314	5.271	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	20863	5.034	ug/l	97
54) cis-1,3-Dichloropropene	8.354	75	23157	5.227	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	12968	5.166	ug/l	91
56) Ethyl methacrylate	9.104	69	19980	5.068	ug/l	97
57) 1,3-Dichloropropane	9.293	76	22989	5.331	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	37585	27.899	ug/l	98
59) 2-Hexanone	9.415	43	66356	27.275	ug/l	99
60) Dibromochloromethane	9.506	129	14705	5.084	ug/l	95
61) 1,2-Dibromoethane	9.592	107	13461	5.264	ug/l	98
64) Tetrachloroethene	9.256	164	11228	5.428	ug/l	97
65) Chlorobenzene	10.061	112	37507	5.203	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.147	131	12807	5.149	ug/l	99
67) Ethyl Benzene	10.177	91	65908	5.299	ug/l	100
68) m/p-Xylenes	10.287	106	49132	10.613	ug/l	99
69) o-Xylene	10.628	106	23300	5.204	ug/l	98
70) Styrene	10.640	104	40872	5.210	ug/l	99
71) Bromoform	10.781	173	9298	5.006	ug/l #	97
73) Isopropylbenzene	10.945	105	61029	5.139	ug/l	100
74) N-amyl acetate	10.823	43	26969	4.980	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	18462	5.138	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	15982m	4.927	ug/l	
77) Bromobenzene	11.183	156	15066	5.150	ug/l	99
78) n-propylbenzene	11.287	91	72900	5.192	ug/l	100
79) 2-Chlorotoluene	11.348	91	44663	5.194	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	50535	5.179	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	5413	4.364	ug/l	91
82) 4-Chlorotoluene	11.439	91	52294	5.149	ug/l	100
83) tert-Butylbenzene	11.695	119	50350	5.041	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	51583	5.214	ug/l	100
85) sec-Butylbenzene	11.872	105	62507	5.268	ug/l	99
86) p-Isopropyltoluene	11.994	119	52674	5.244	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	28116	5.175	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	29519	5.294	ug/l	93
89) n-Butylbenzene	12.317	91	47953	5.159	ug/l	99
90) Hexachloroethane	12.518	117	8830	5.007	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	26409	5.102	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	3412	4.690	ug/l	99
93) 1,2,4-Trichlorobenzene	13.567	180	17167	5.103	ug/l	98
94) Hexachlorobutadiene	13.707	225	5894	5.158	ug/l	99
95) Naphthalene	13.756	128	49257	4.808	ug/l	99
96) 1,2,3-Trichlorobenzene	13.939	180	15400	4.921	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

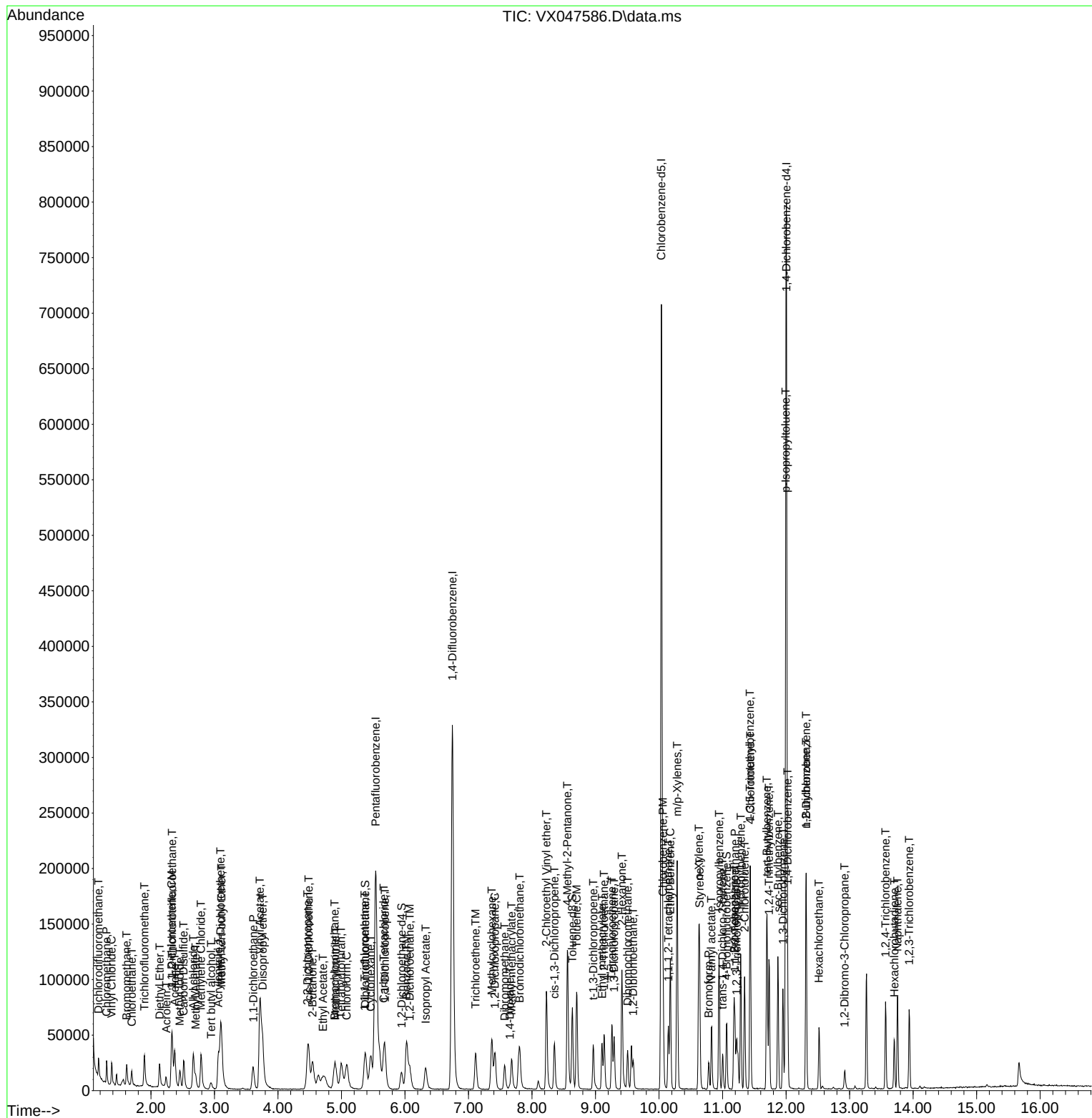
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

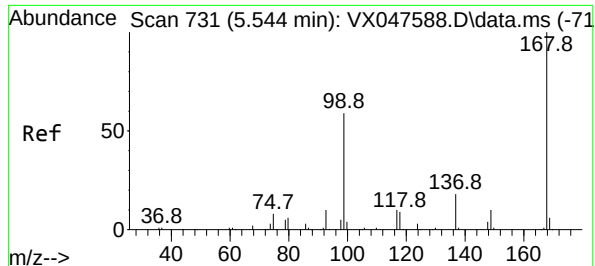
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration





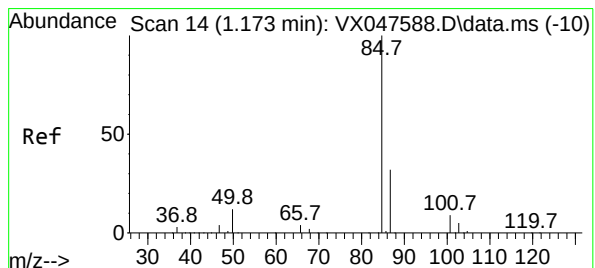
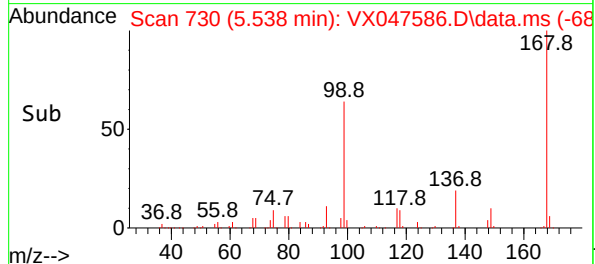
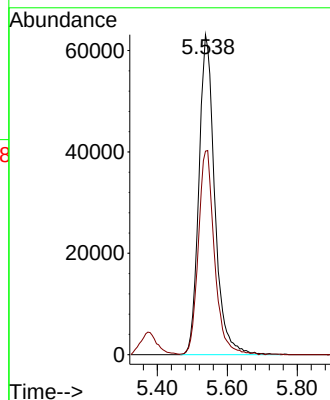
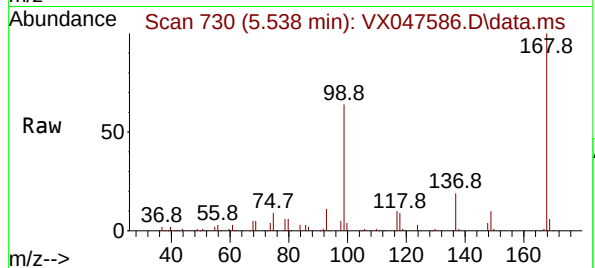
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 198370
Ion Ratio Lower Upper
168 100
99 63.5 48.8 73.2

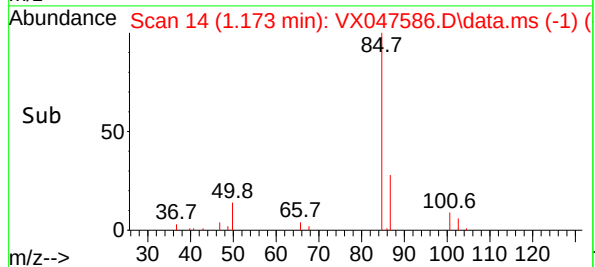
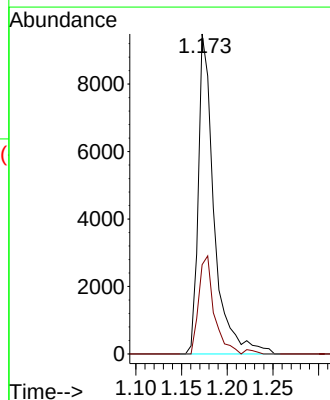
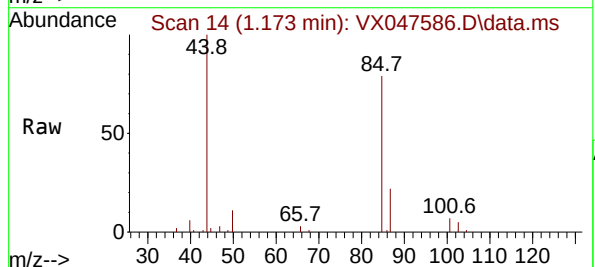
Manual Integrations
APPROVED

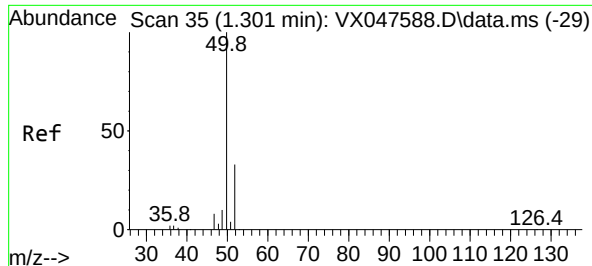
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 5.551 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 85 Resp: 11403
Ion Ratio Lower Upper
85 100
87 27.9 15.8 47.3





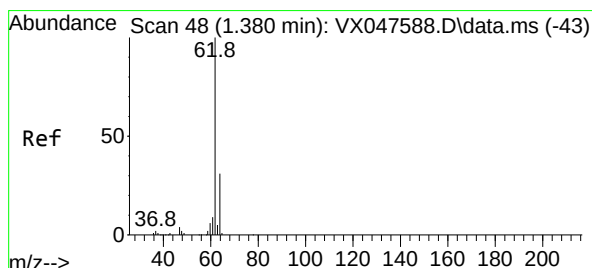
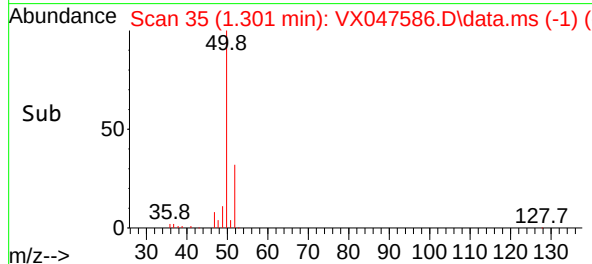
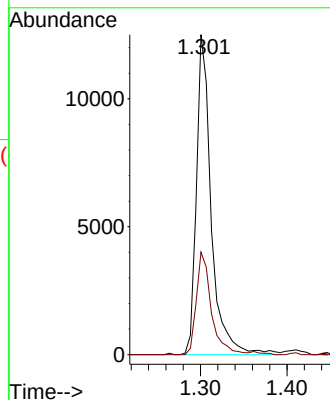
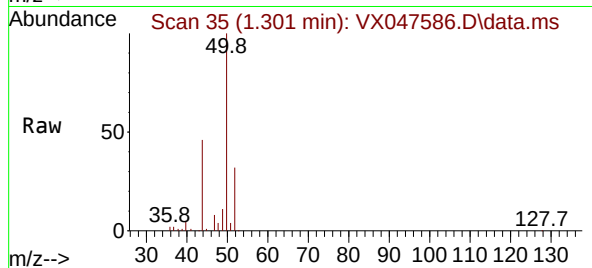
#3
Chloromethane
Concen: 5.502 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 14854
Ion Ratio Lower Upper
50 100
52 32.0 26.1 39.1

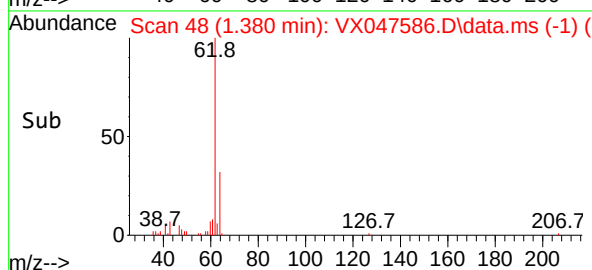
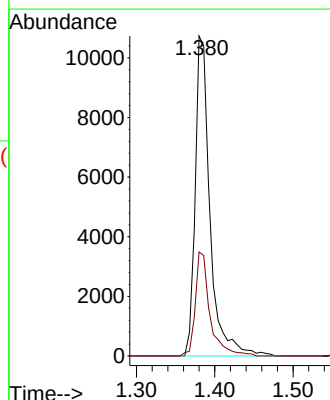
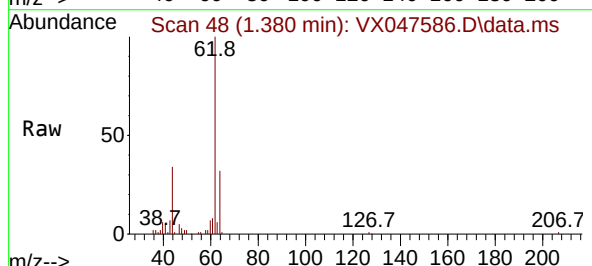
Manual Integrations
APPROVED

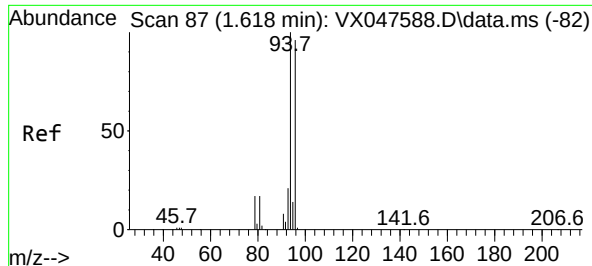
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 5.353 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

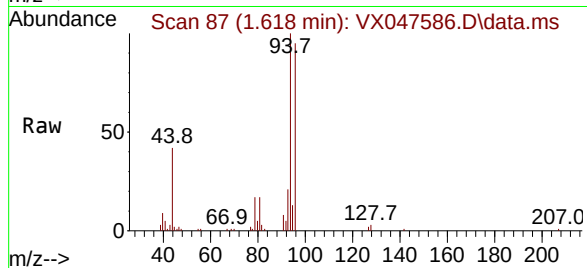
Tgt Ion: 62 Resp: 14147
Ion Ratio Lower Upper
62 100
64 32.5 24.9 37.3





#5
Bromomethane
Concen: 5.836 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

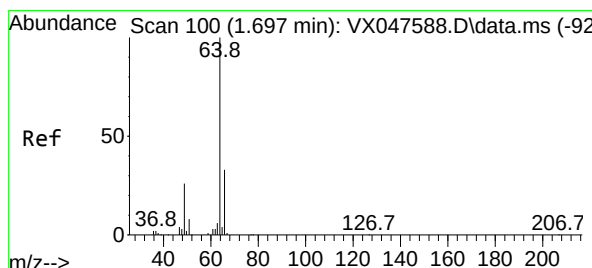
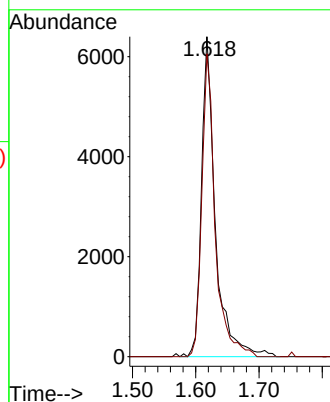
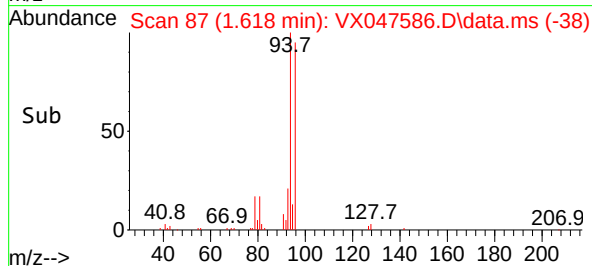
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 94 Resp: 9780
Ion Ratio Lower Upper
94 100
96 83.6 76.6 115.0

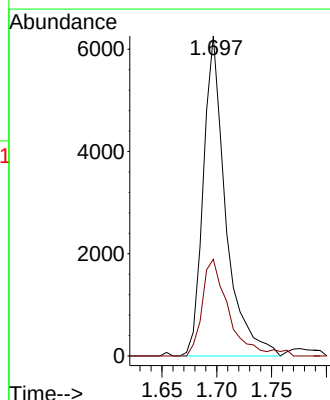
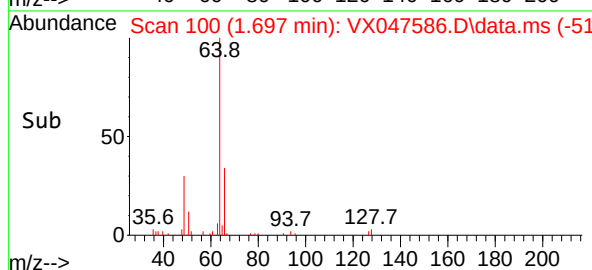
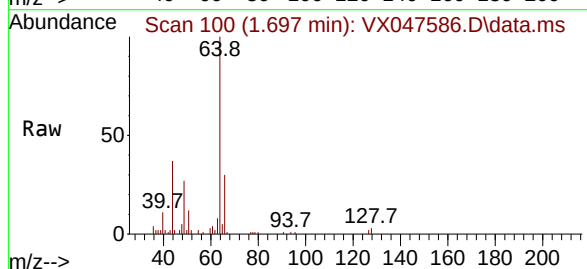
Manual Integrations
APPROVED

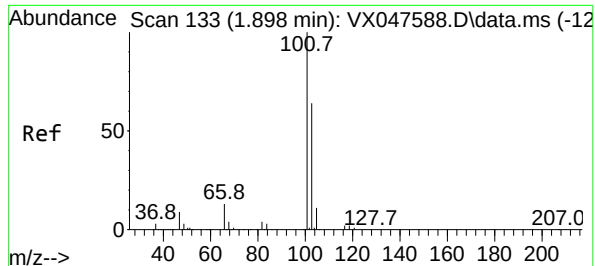
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 5.053 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

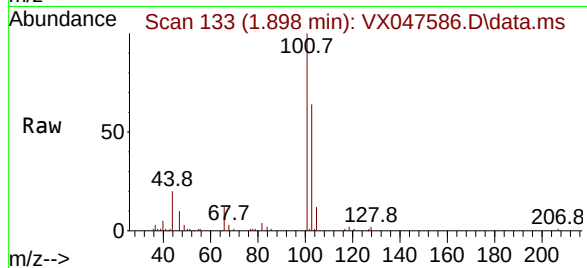
Tgt Ion: 64 Resp: 8926
Ion Ratio Lower Upper
64 100
66 30.2 26.1 39.1





#7
Trichlorofluoromethane
Concen: 5.223 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

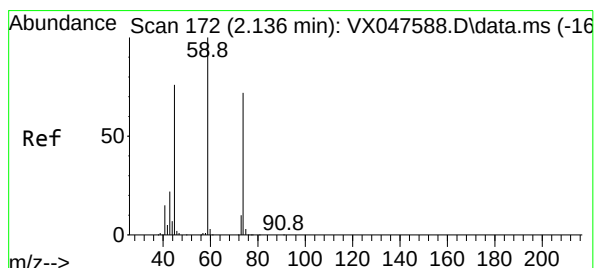
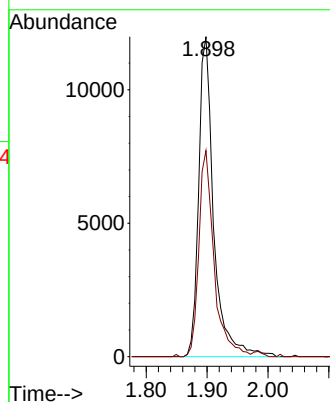
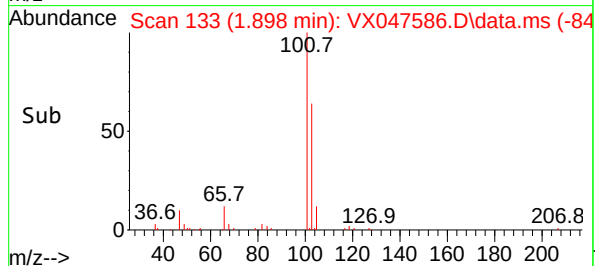
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:101 Resp: 2049
Ion Ratio Lower Upper
101 100
103 64.4 51.4 77.2

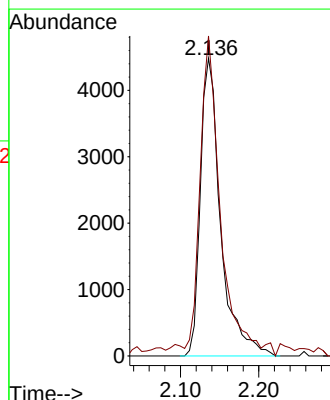
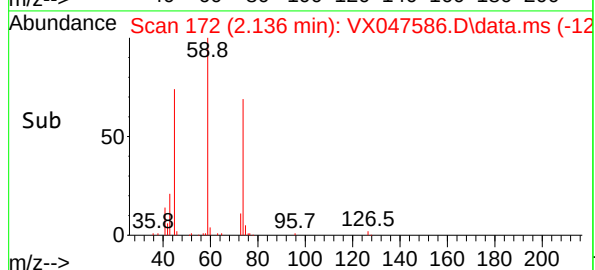
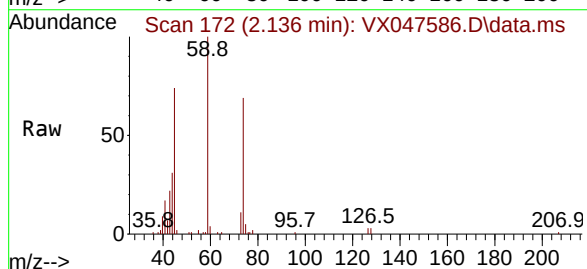
Manual Integrations
APPROVED

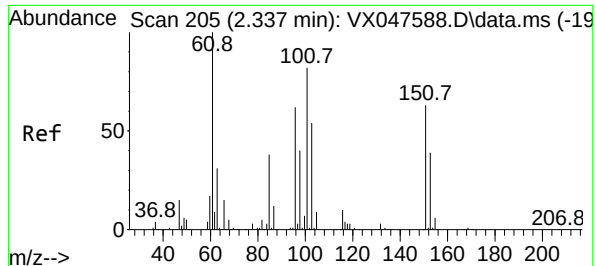
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 5.008 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 74 Resp: 8039
Ion Ratio Lower Upper
74 100
45 111.7 52.3 156.8





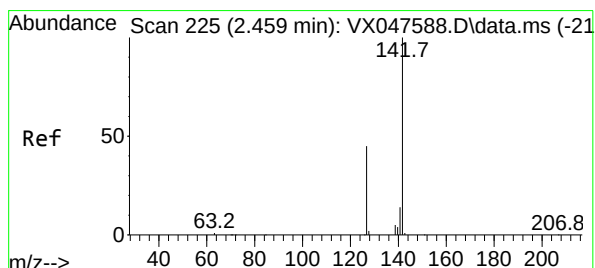
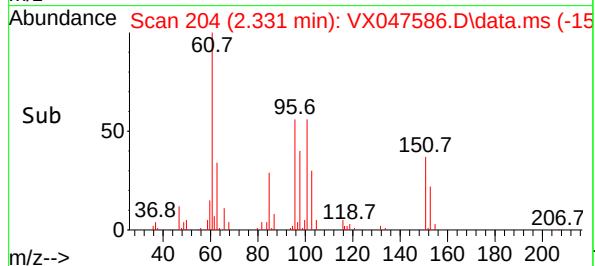
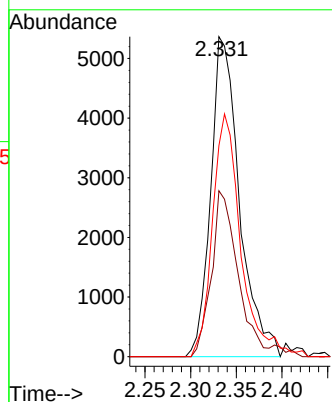
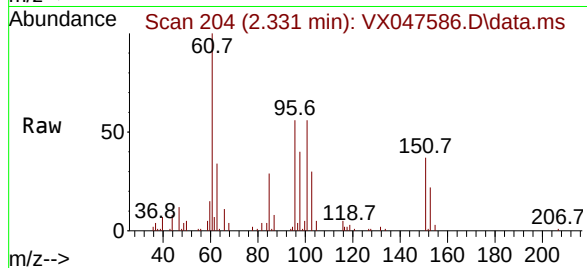
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.112 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:101 Resp: 11729
Ion Ratio Lower Upper
101 100
85 47.5 35.5 53.3
151 75.0 59.4 89.0

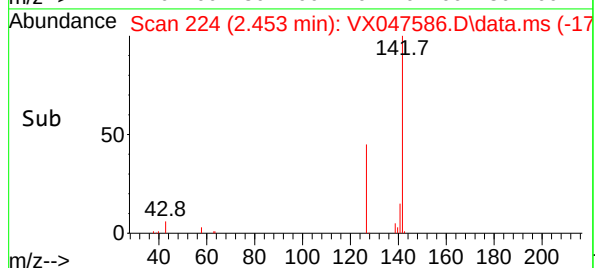
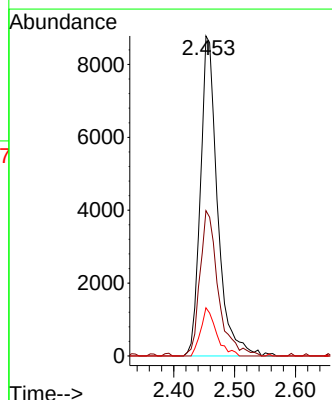
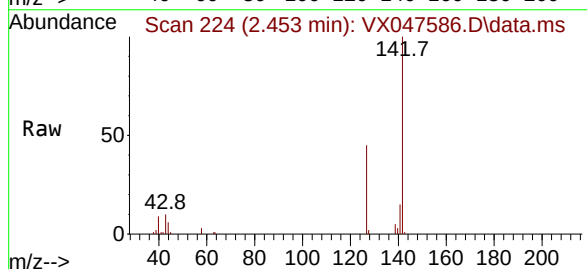
Manual Integrations
APPROVED

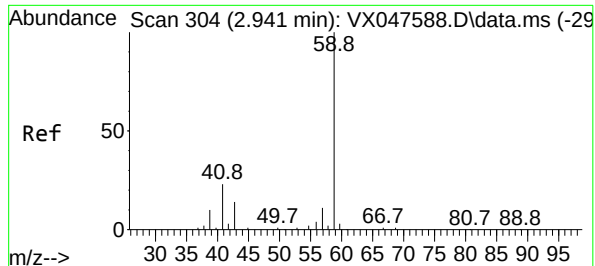
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#10
Methyl Iodide
Concen: 4.795 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

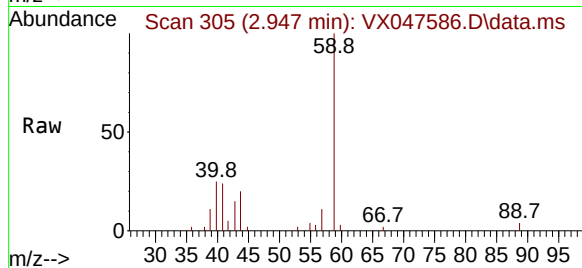
Tgt Ion:142 Resp: 17159
Ion Ratio Lower Upper
142 100
127 48.4 37.2 55.8
141 13.8 11.4 17.0





#11
Tert butyl alcohol
Concen: 23.883 ug/l
RT: 2.947 min Scan# 304
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

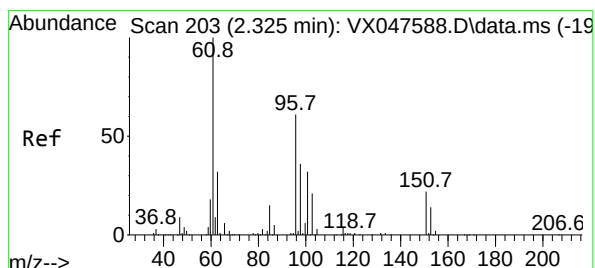
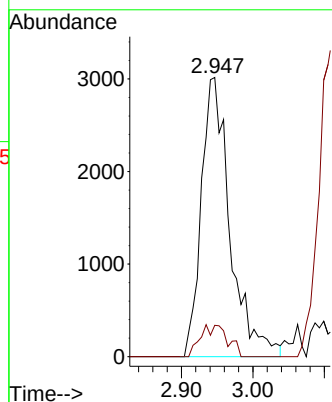
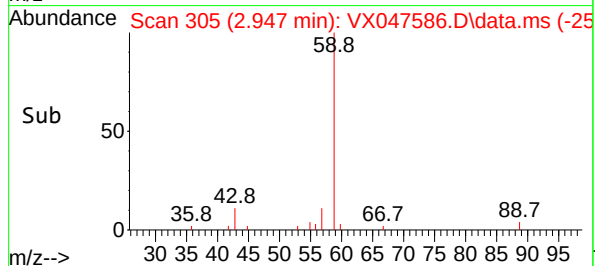
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 59 Resp: 8399
Ion Ratio Lower Upper
59 100
57 10.8 8.3 12.5

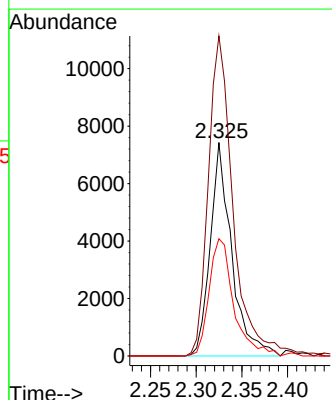
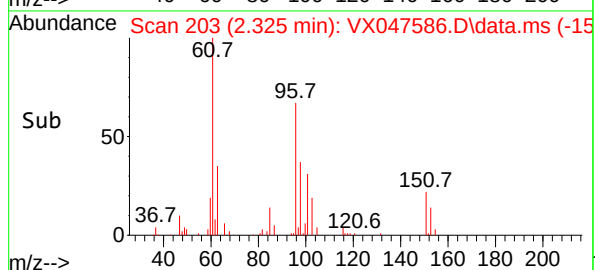
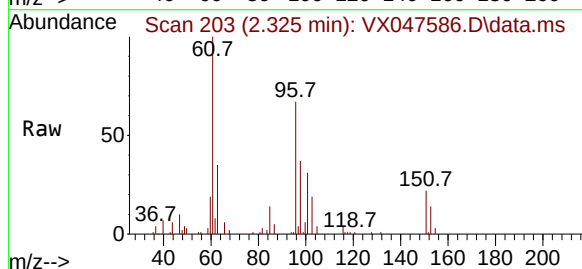
Manual Integrations
APPROVED

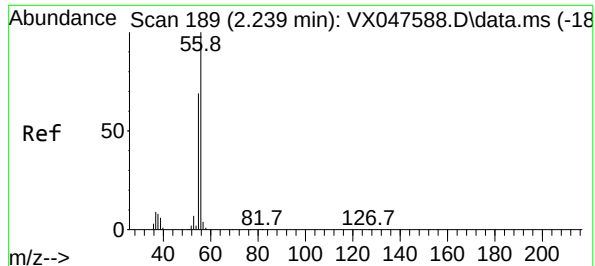
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#12
1,1-Dichloroethene
Concen: 5.147 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 12131
Ion Ratio Lower Upper
96 100
61 149.9 131.0 196.6
98 54.9 47.7 71.5





#13

Acrolein

Concen: 21.847 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 7080

Ion Ratio Lower Upper

56 100

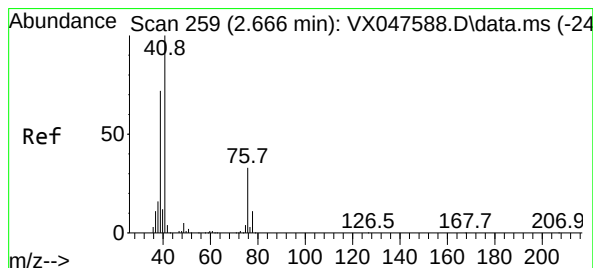
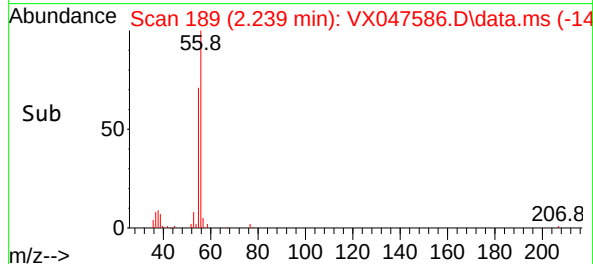
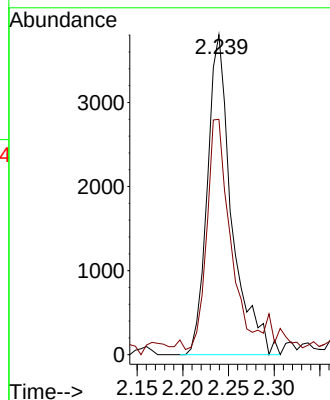
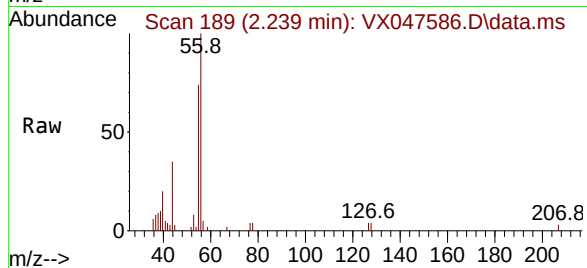
55 67.1 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 5.168 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

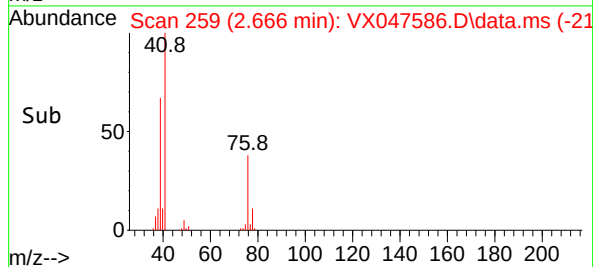
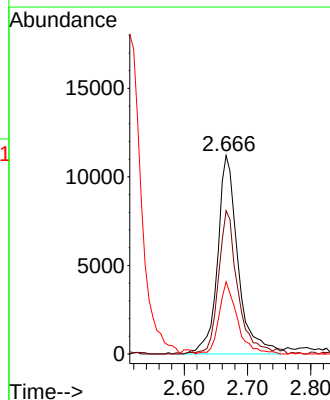
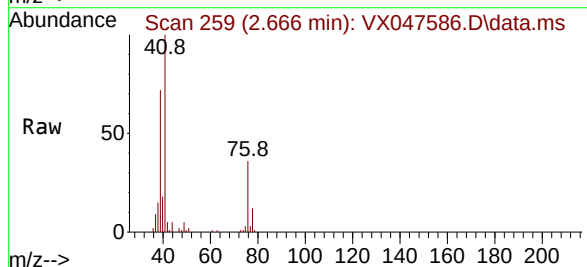
Tgt Ion: 41 Resp: 25135

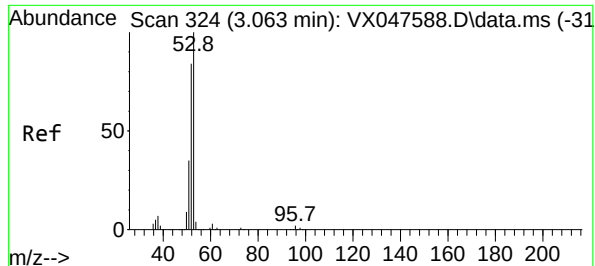
Ion Ratio Lower Upper

41 100

39 69.1 54.7 82.1

76 32.4 25.7 38.5





#15

Acrylonitrile

Concen: 25.016 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	53	Resp:	3258
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	36.5	29.5	44.3

Instrument :

MSVOA_X

ClientSampleId :

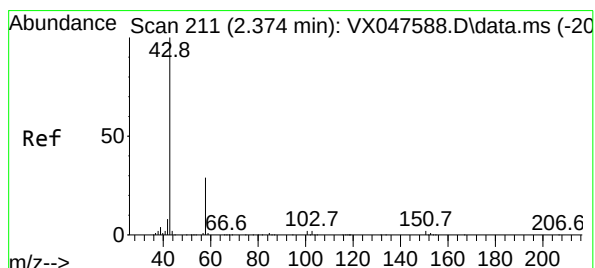
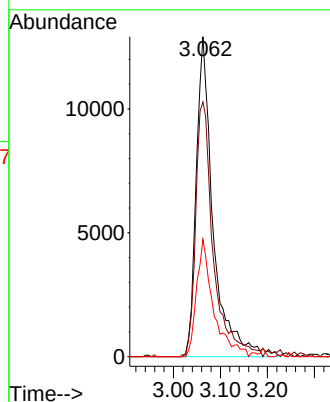
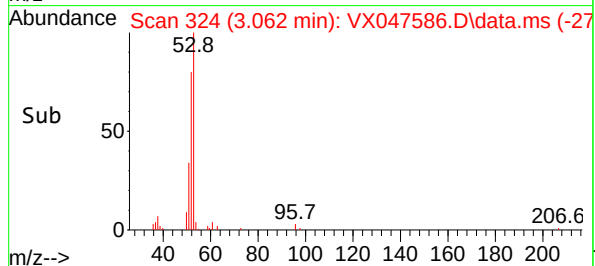
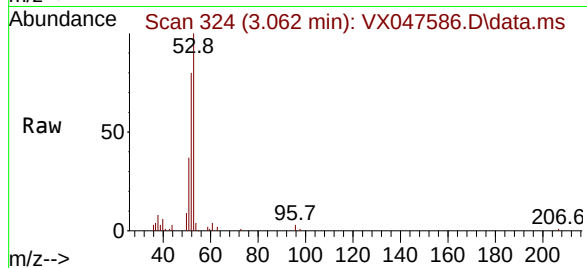
VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 30.079 ug/l

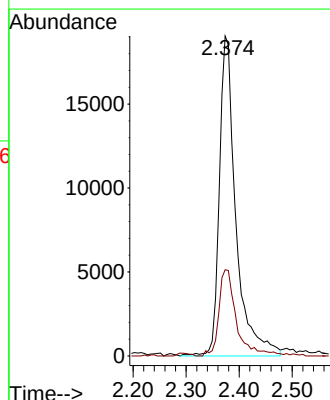
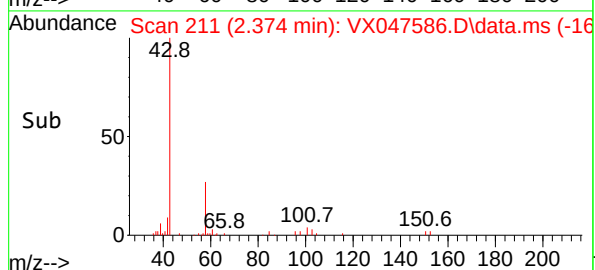
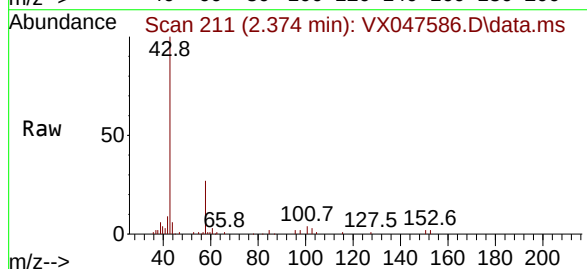
RT: 2.374 min Scan# 211

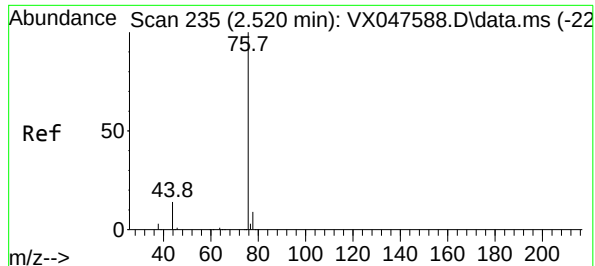
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	43	Resp:	41297
Ion	Ratio	Lower	Upper
43	100		
58	27.6	23.4	35.0





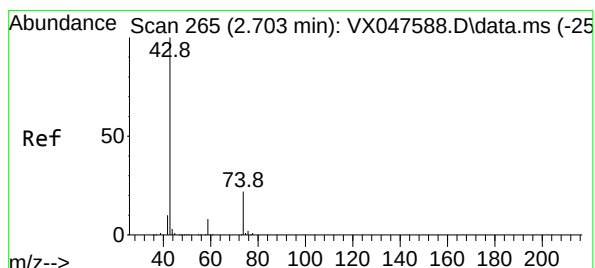
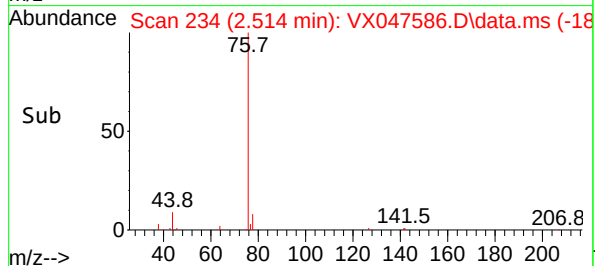
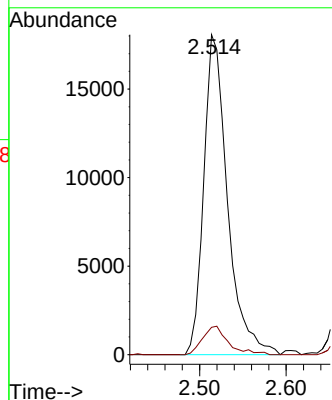
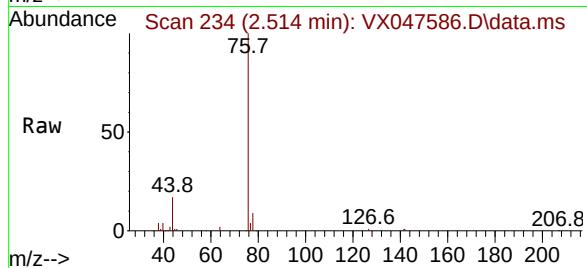
#17
Carbon Disulfide
Concen: 5.335 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 76 Resp: 34420
Ion Ratio Lower Upper
76 100
78 8.6 6.8 10.2

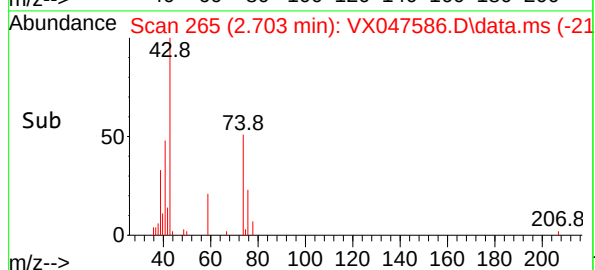
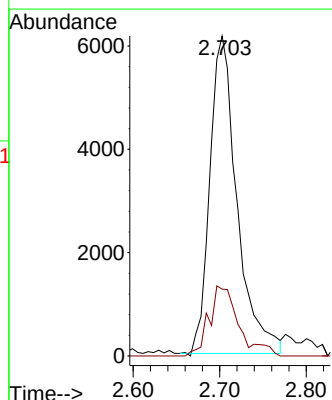
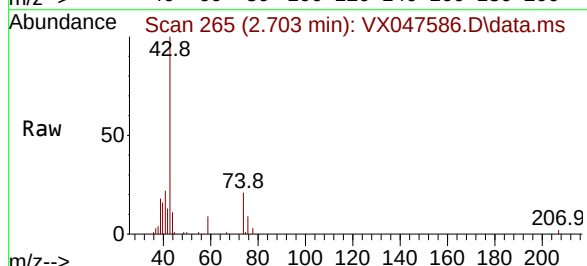
Manual Integrations
APPROVED

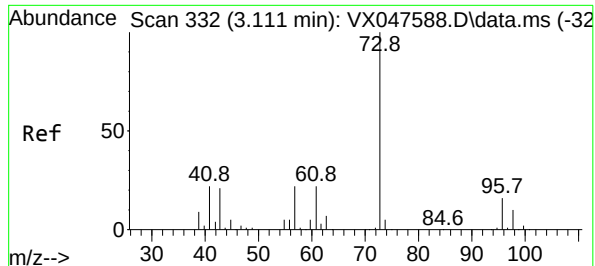
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#18
Methyl Acetate
Concen: 4.371 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 13357
Ion Ratio Lower Upper
43 100
74 22.9 17.4 26.2





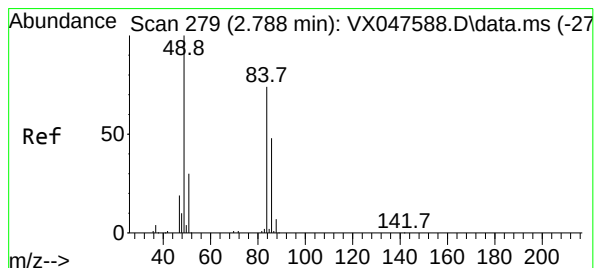
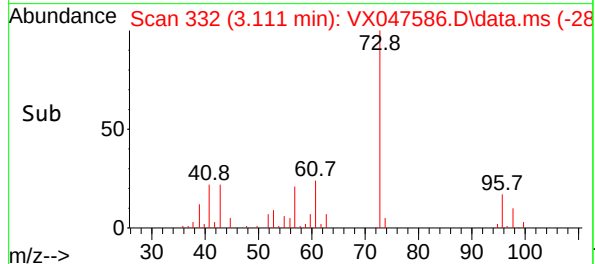
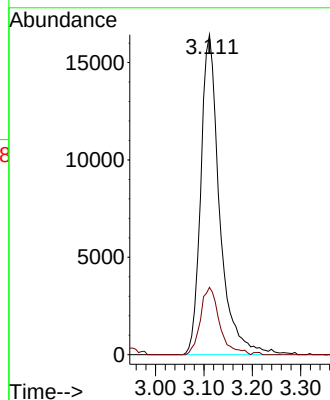
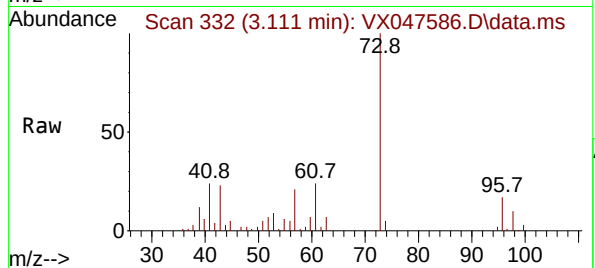
#19
Methyl tert-butyl Ether
Concen: 5.160 ug/l
RT: 3.111 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 73 Resp: 44390
Ion Ratio Lower Upper
73 100
57 21.0 17.4 26.2

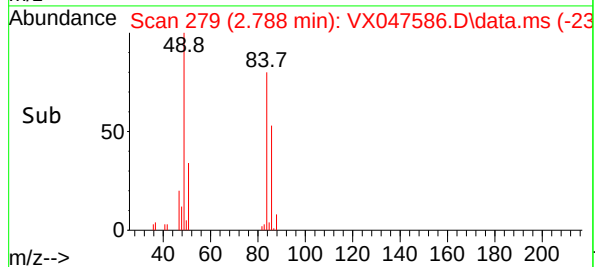
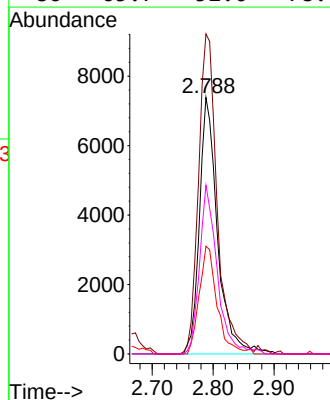
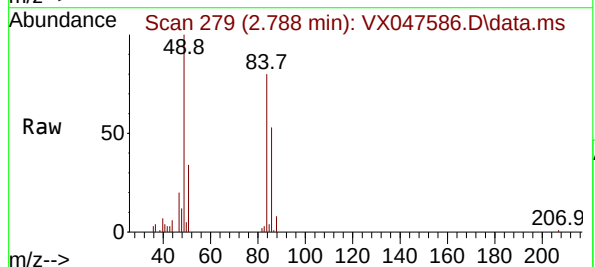
Manual Integrations
APPROVED

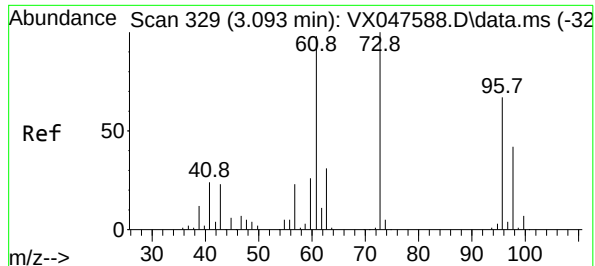
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#20
Methylene Chloride
Concen: 5.267 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

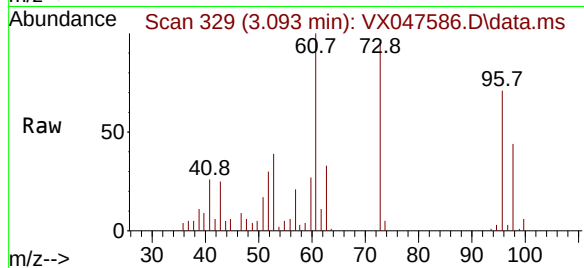
Tgt Ion: 84 Resp: 15307
Ion Ratio Lower Upper
84 100
49 124.7 108.6 162.8
51 42.0 32.6 48.8
86 65.7 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 5.492 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

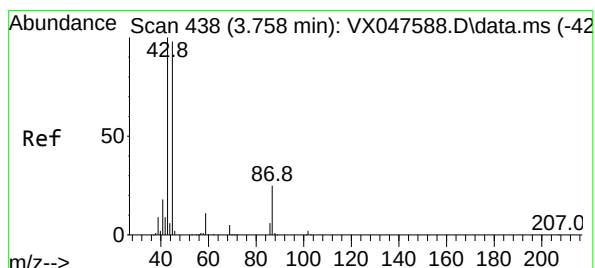
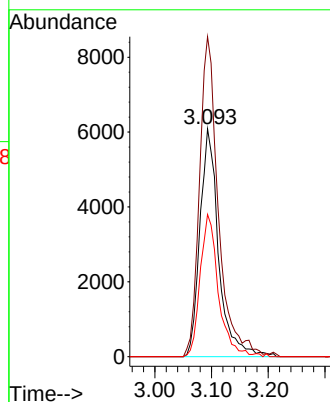
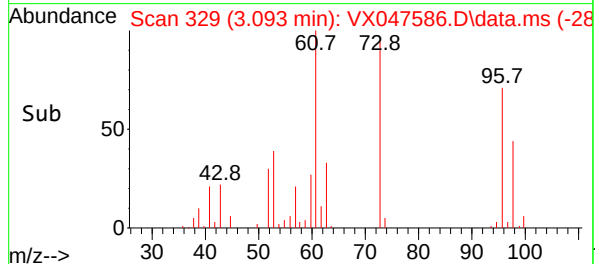
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 96 Resp: 1393
Ion Ratio Lower Upper
96 100
61 140.4 116.2 174.2
98 62.4 49.3 73.9

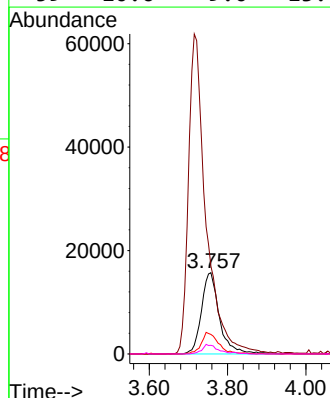
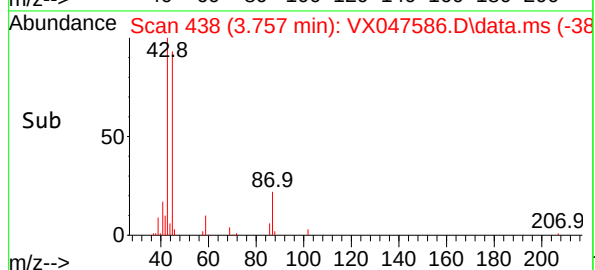
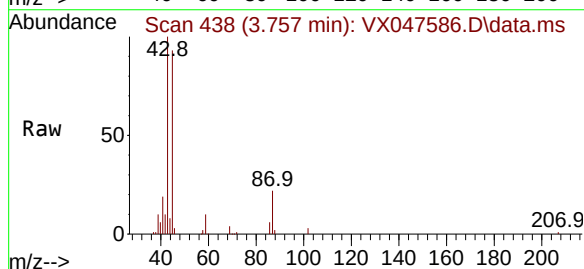
Manual Integrations
APPROVED

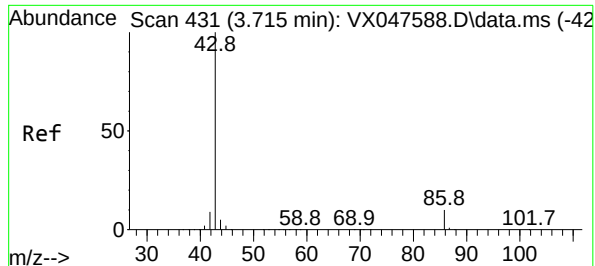
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 5.327 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 45 Resp: 50213
Ion Ratio Lower Upper
45 100
43 102.8 81.0 121.4
87 23.3 20.3 30.5
59 10.6 9.0 13.4





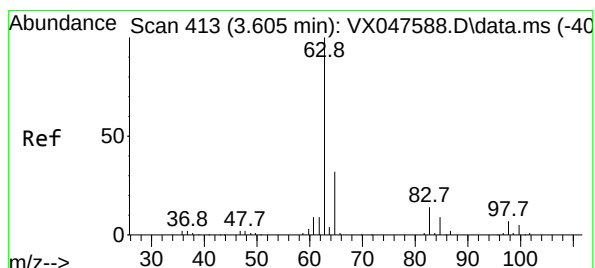
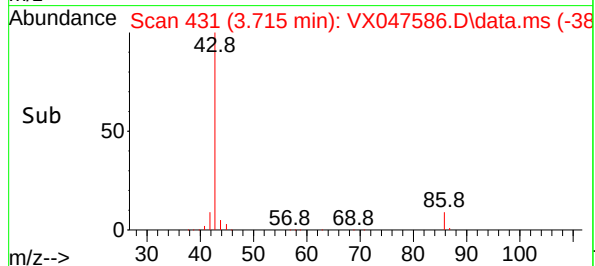
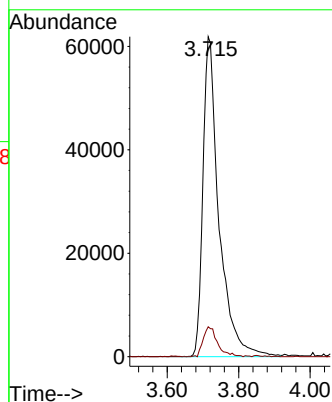
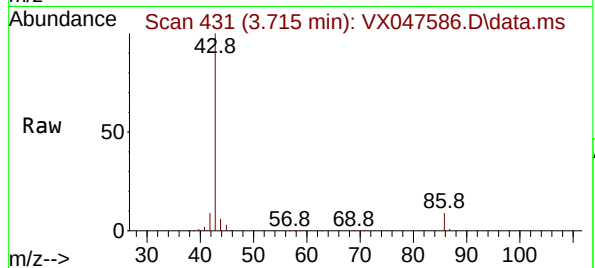
#23
Vinyl Acetate
Concen: 25.474 ug/l
RT: 3.715 min Scan# 41
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 19217
Ion Ratio Lower Upper
43 100
86 9.4 7.8 11.8

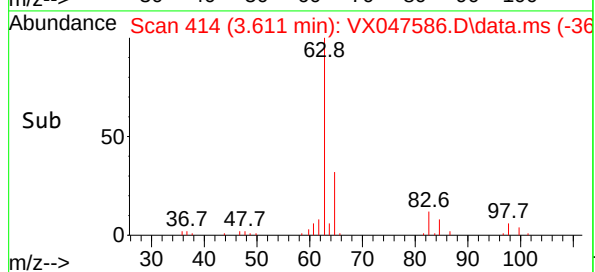
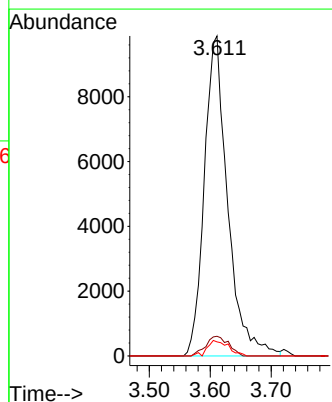
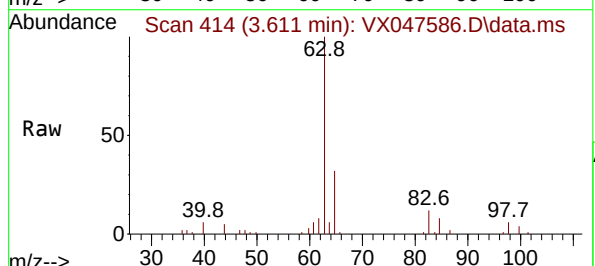
Manual Integrations
APPROVED

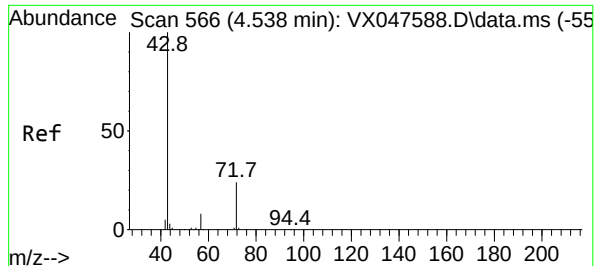
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#24
1,1-Dichloroethane
Concen: 5.248 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 26292
Ion Ratio Lower Upper
63 100
98 6.2 3.8 11.2
100 4.4 2.3 6.9





#25

2-Butanone

Concen: 27.240 ug/l

RT: 4.544 min Scan# 50

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 4665

Ion Ratio Lower Upper

43 100

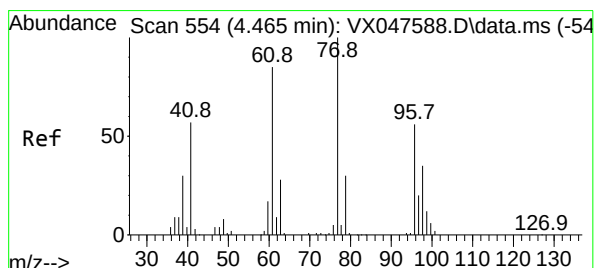
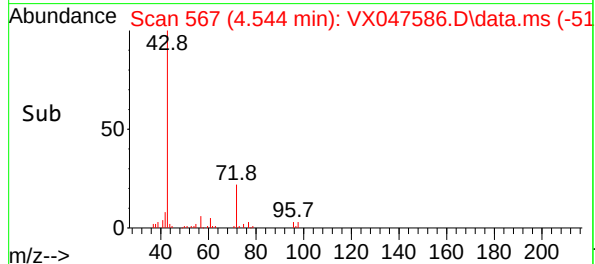
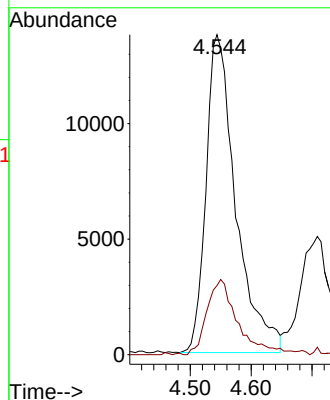
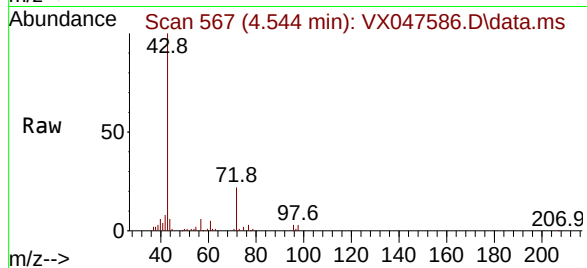
72 21.3 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 5.220 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX047586.D

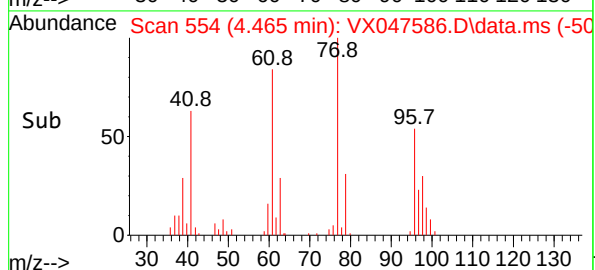
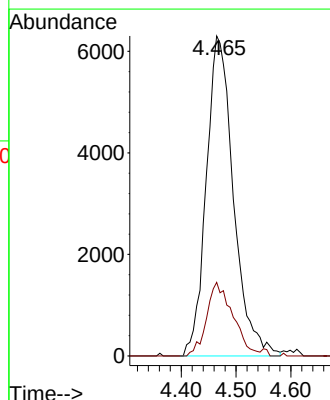
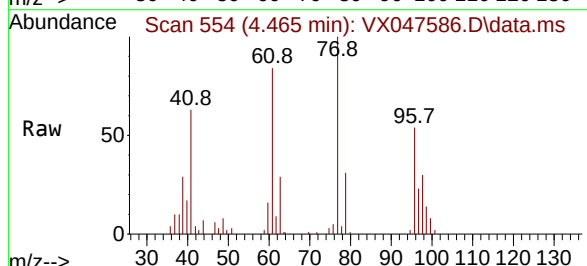
Acq: 16 Sep 2025 10:16

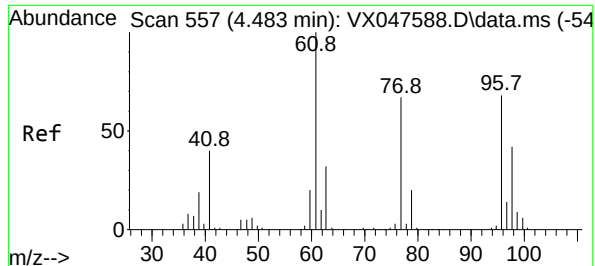
Tgt Ion: 77 Resp: 21738

Ion Ratio Lower Upper

77 100

97 22.2 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 5.147 ug/l

RT: 4.483 min Scan# 51

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 96 Resp: 15990

Ion Ratio Lower Upper

96 100

61 154.4 0.0 303.2

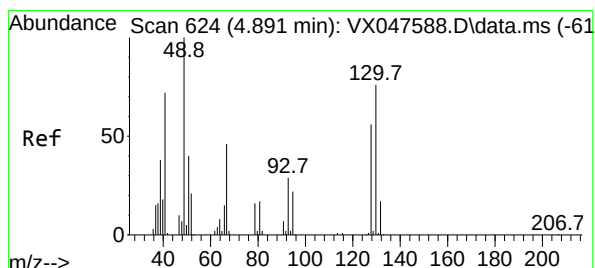
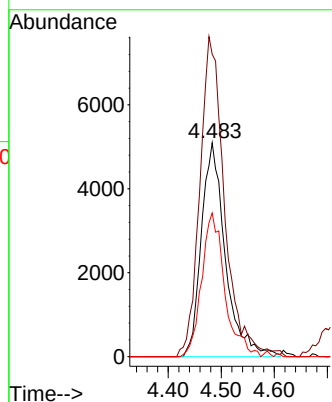
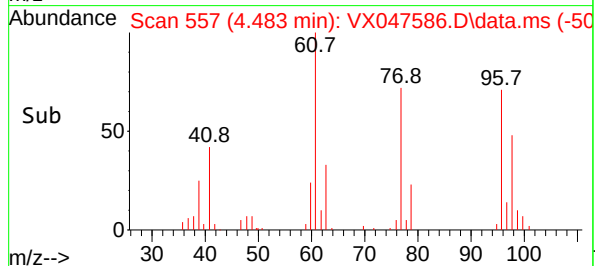
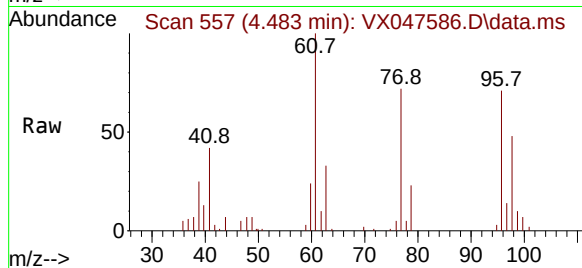
98 64.8 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 5.508 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

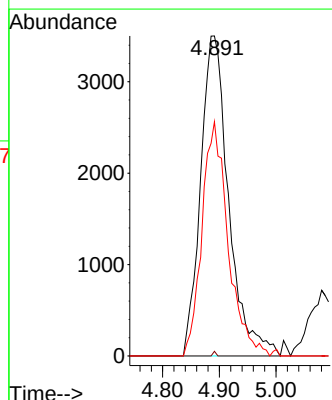
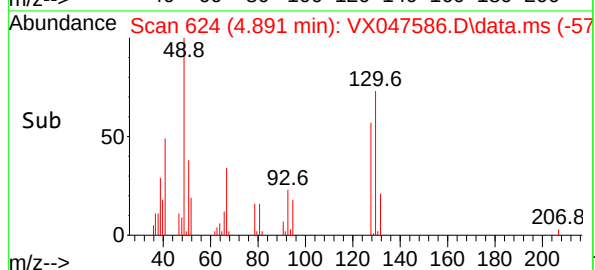
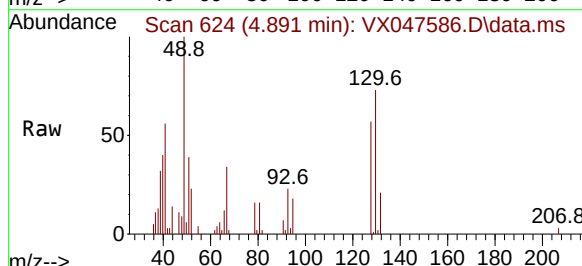
Tgt Ion: 49 Resp: 12047

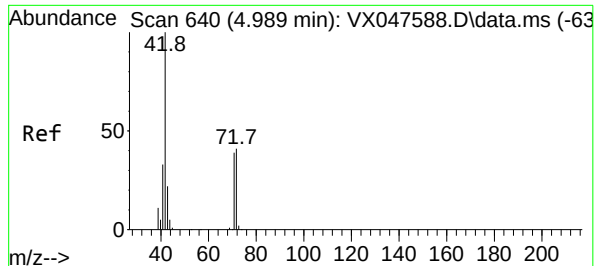
Ion Ratio Lower Upper

49 100

129 0.2 0.0 3.2

130 68.0 57.8 86.8





#29

Tetrahydrofuran

Concen: 25.944 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.006 min

Lab File: VX047586.D

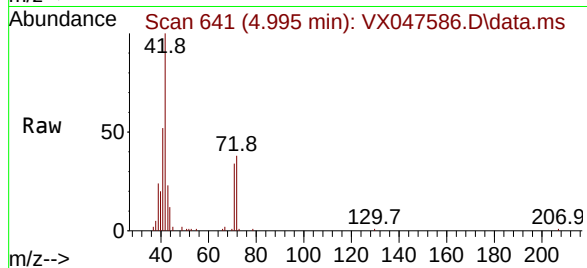
Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005



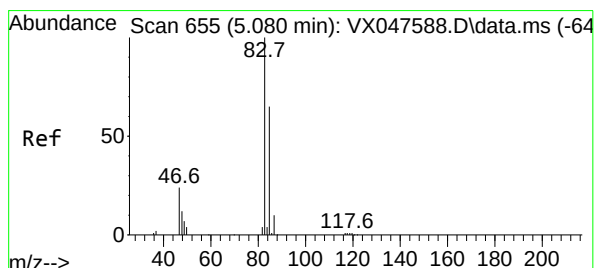
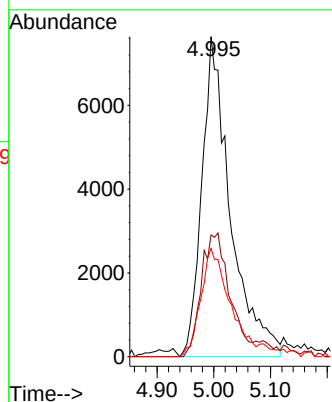
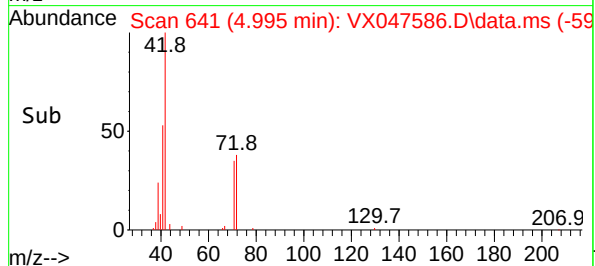
Tgt Ion:	42	Resp:	26729
Ion	Ratio	Lower	Upper
42	100		
72	38.7	34.2	51.2
71	34.1	31.9	47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 5.344 ug/l

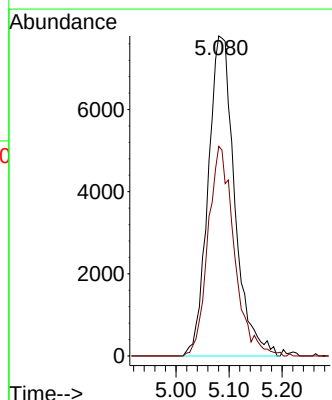
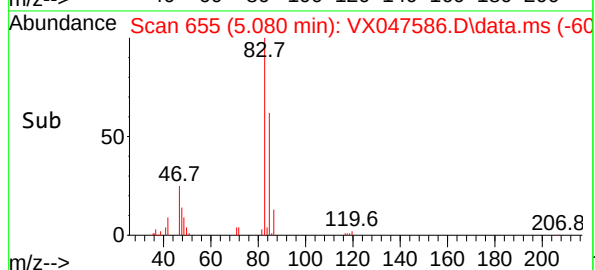
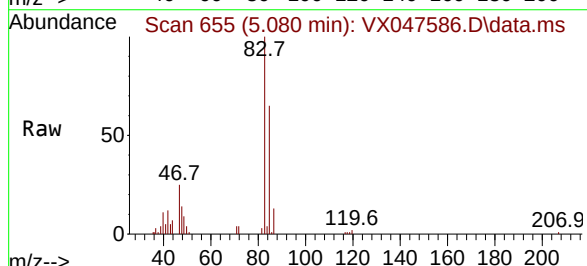
RT: 5.080 min Scan# 655

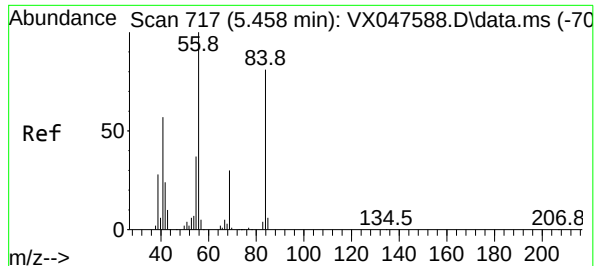
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	83	Resp:	27054
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.8	77.6





#31

Cyclohexane

Concen: 5.520 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 23032

Ion Ratio Lower Upper

56 100

69 32.2 23.8 35.8

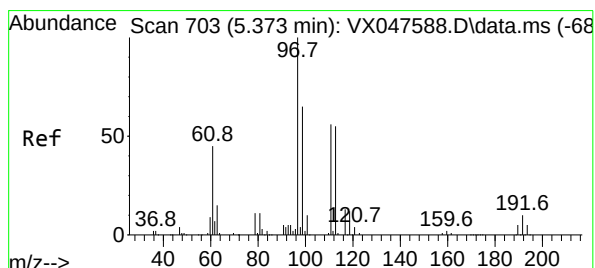
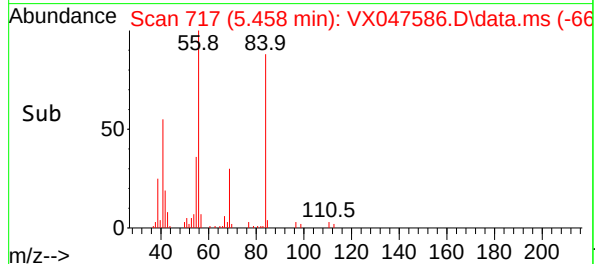
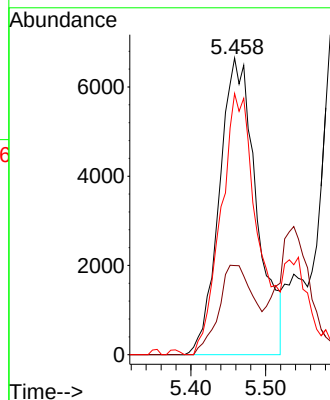
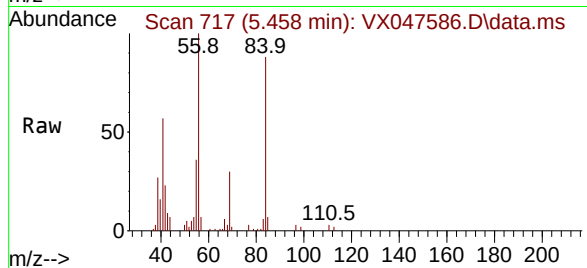
84 87.1 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#32

1,1,1-Trichloroethane

Concen: 5.188 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

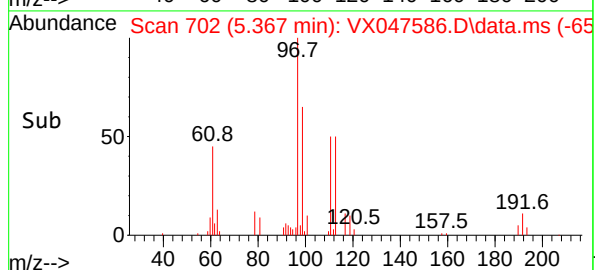
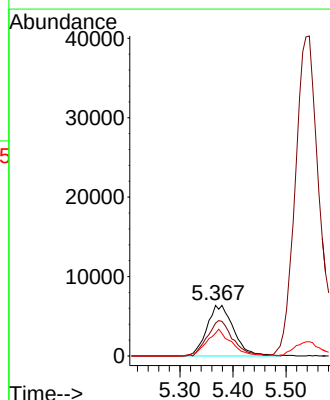
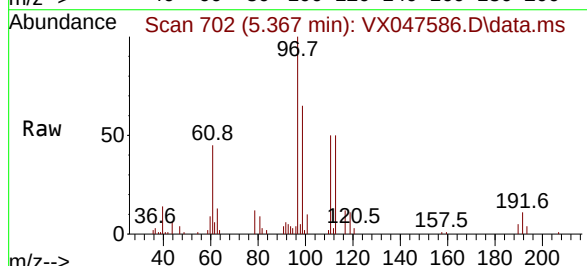
Tgt Ion: 97 Resp: 22279

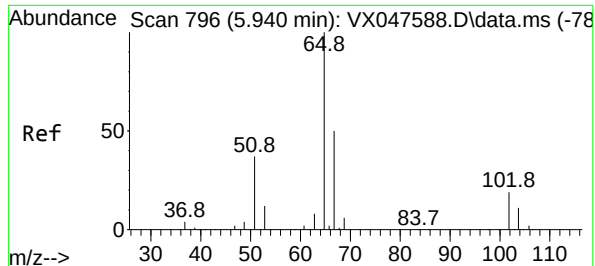
Ion Ratio Lower Upper

97 100

99 66.4 50.6 76.0

61 47.4 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 5.554 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 17538

Ion Ratio Lower Upper

65 100

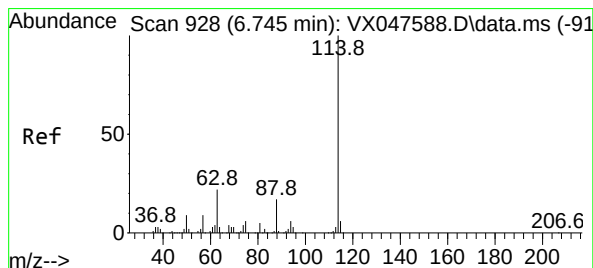
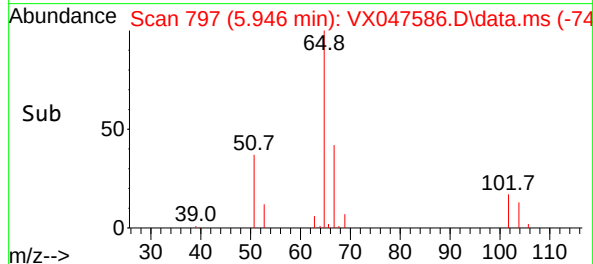
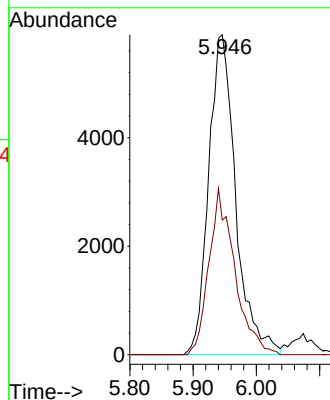
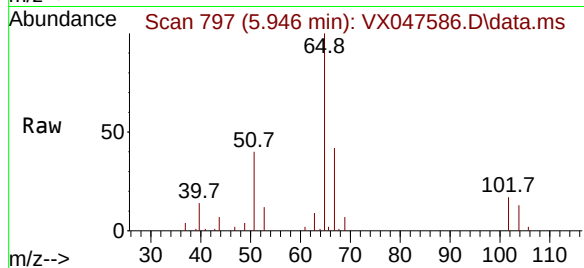
67 49.7 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

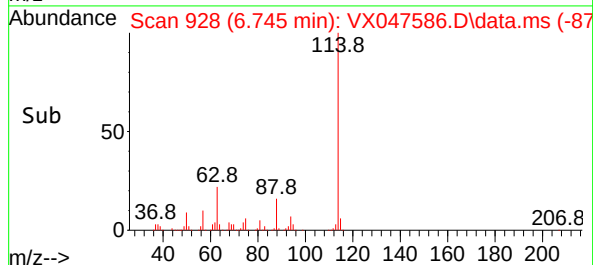
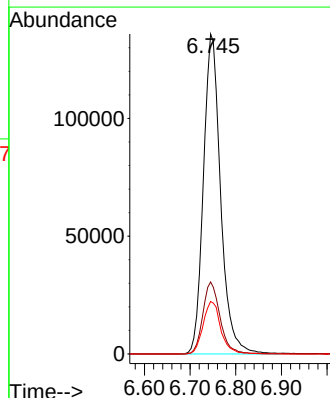
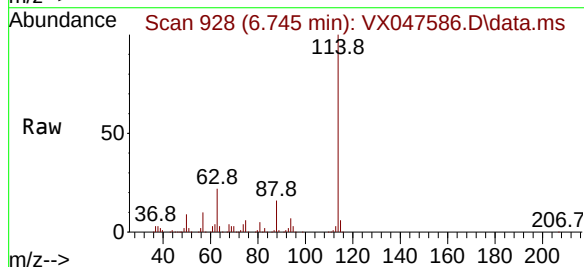
Tgt Ion:114 Resp: 355026

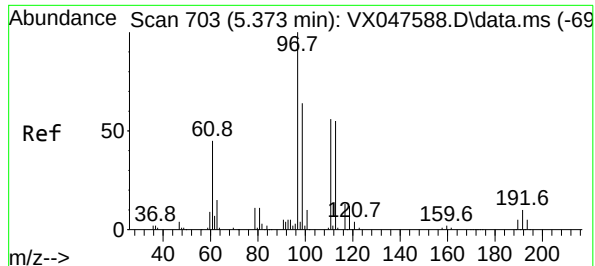
Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.0

88 16.4 0.0 34.2





#35

Dibromofluoromethane

Concen: 5.312 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

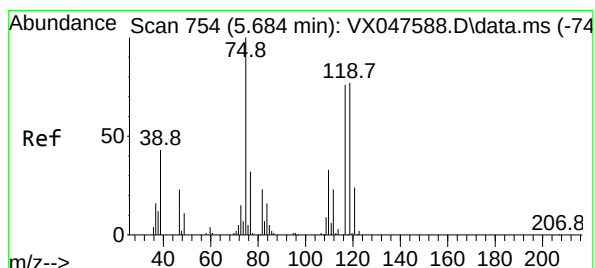
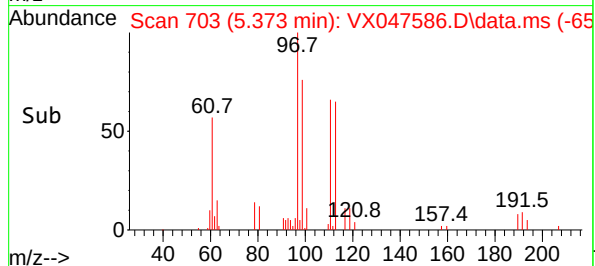
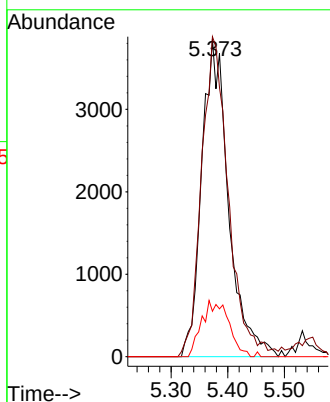
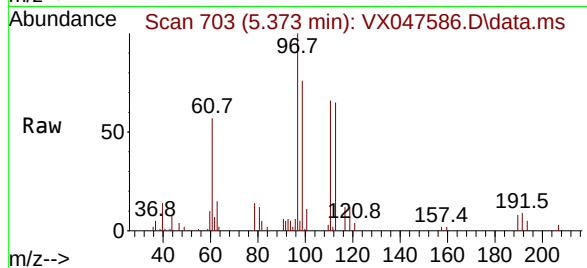
Tgt Ion:	113	Resp:	1264
Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.9	121.3
192	17.8	14.2	21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 5.304 ug/l

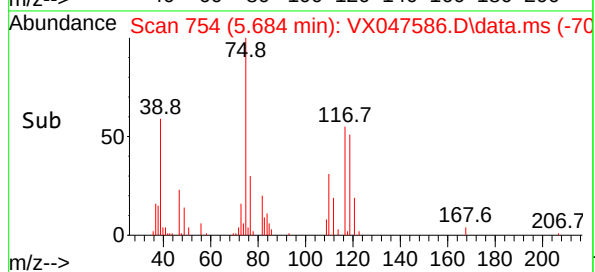
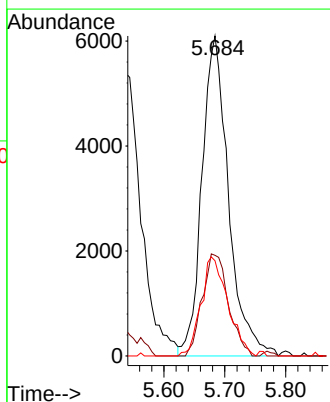
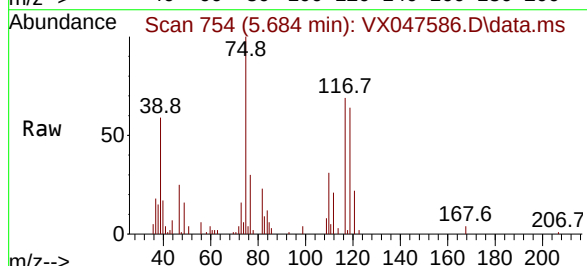
RT: 5.684 min Scan# 754

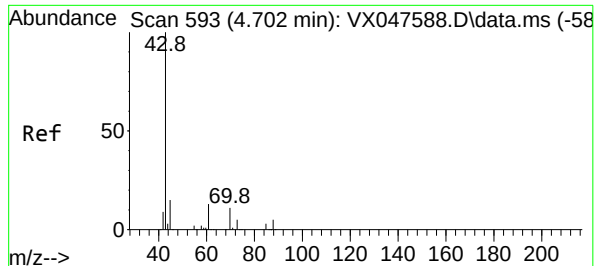
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	75	Resp:	18455
Ion	Ratio	Lower	Upper
75	100		
110	31.4	16.7	50.1
77	31.0	24.3	36.5





#37

Ethyl Acetate

Concen: 5.345 ug/l

RT: 4.708 min Scan# 593

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

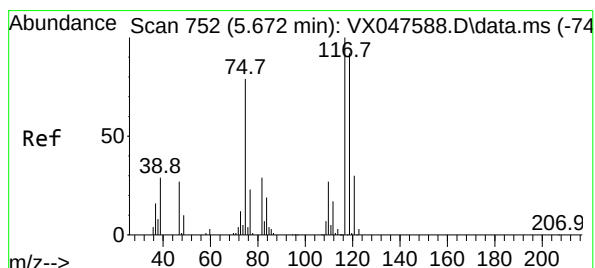
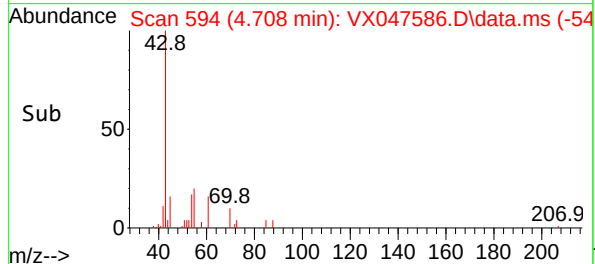
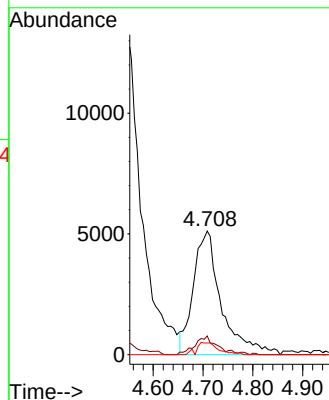
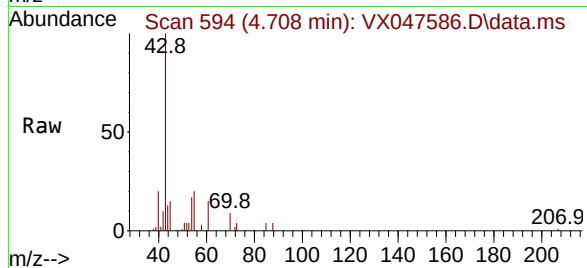
Tgt Ion:	43	Resp:	1911
Ion	Ratio	Lower	Upper
43	100		
61	11.9	9.8	14.8
70	7.6	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 5.390 ug/l

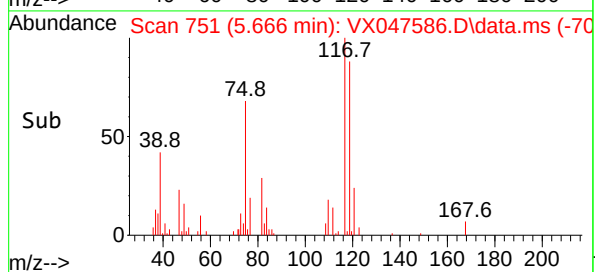
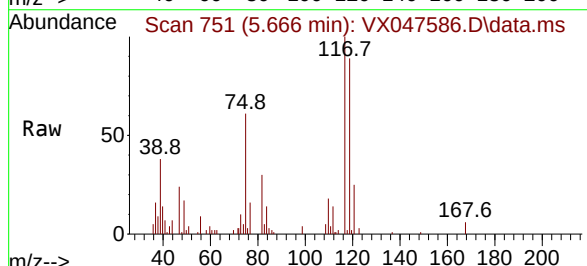
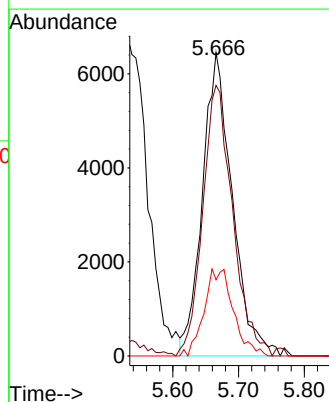
RT: 5.666 min Scan# 751

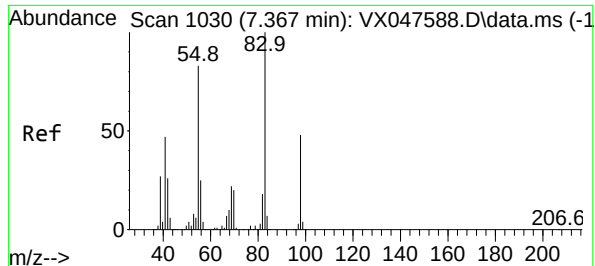
Delta R.T. -0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	117	Resp:	20376
Ion	Ratio	Lower	Upper
117	100		
119	88.9	73.4	110.2
121	25.1	23.8	35.6





#39

Methylcyclohexane

Concen: 5.292 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

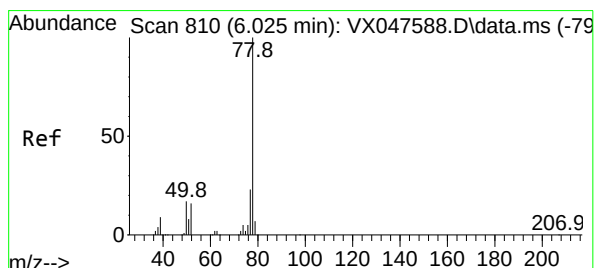
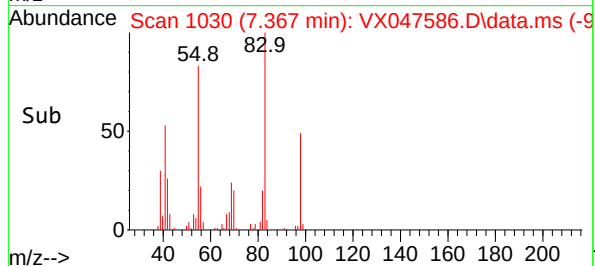
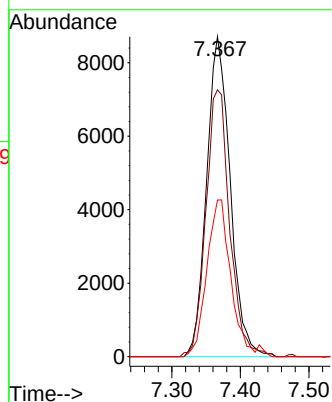
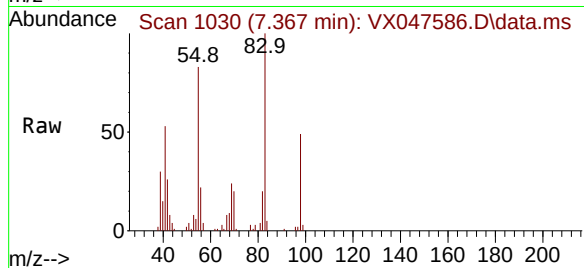
Tgt Ion:	83	Resp:	20900
Ion	Ratio	Lower	Upper
83	100		
55	79.1	66.4	99.6
98	46.4	38.1	57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 5.299 ug/l

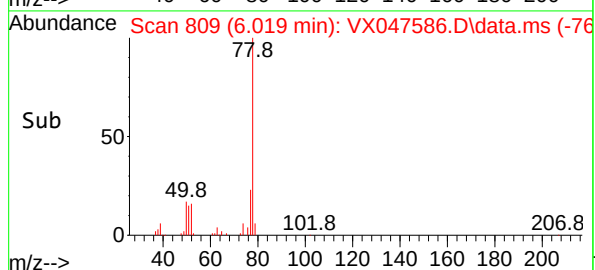
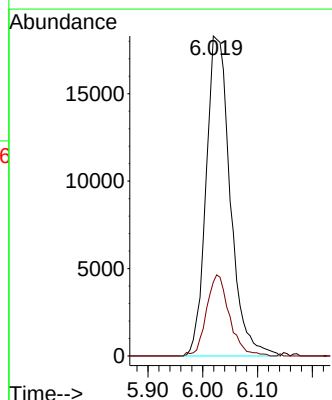
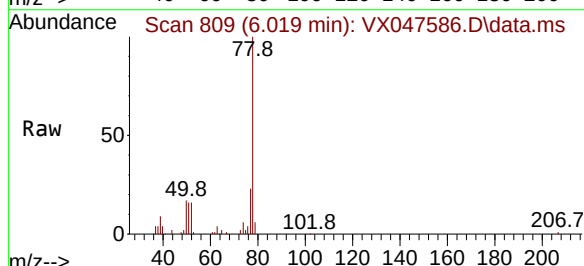
RT: 6.019 min Scan# 809

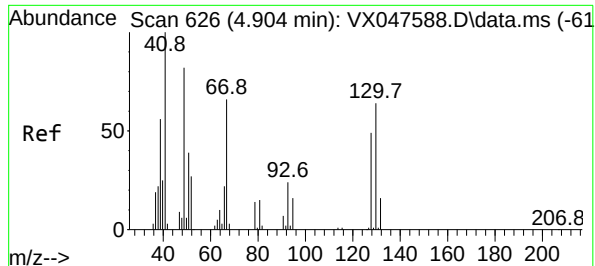
Delta R.T. -0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

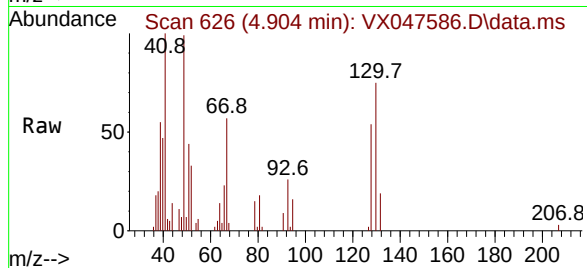
Tgt Ion:	78	Resp:	55996
Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2





#41
Methacrylonitrile
Concen: 4.883 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

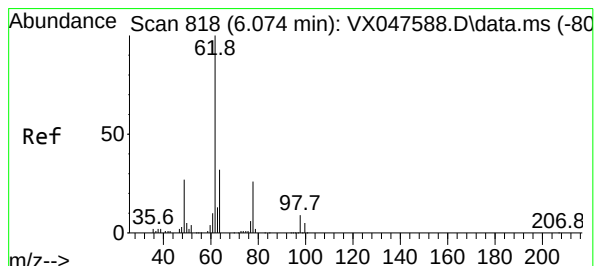
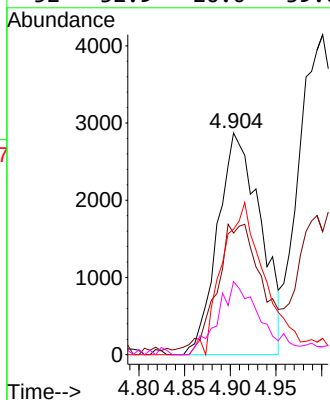
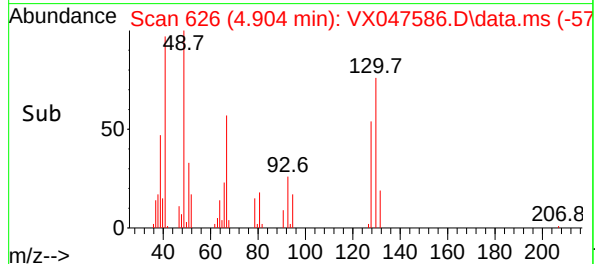
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 41 Resp: 9390
Ion Ratio Lower Upper
41 100
39 58.3 43.3 64.9
67 68.7 58.6 87.8
52 32.9 26.0 39.0

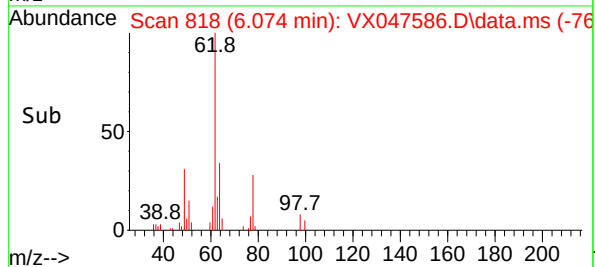
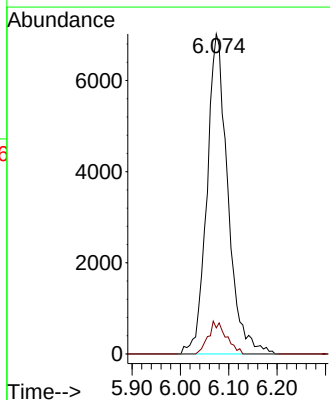
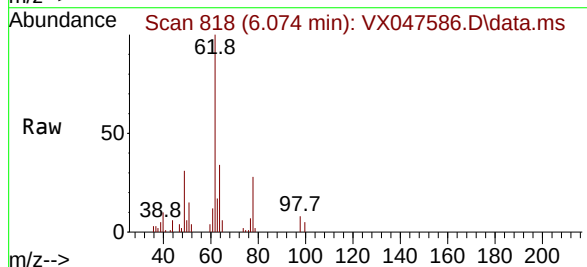
Manual Integrations
APPROVED

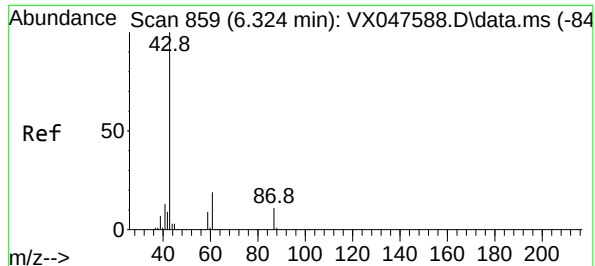
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#42
1,2-Dichloroethane
Concen: 5.252 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 21117
Ion Ratio Lower Upper
62 100
98 8.7 0.0 17.0





#43

Isopropyl Acetate

Concen: 5.124 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

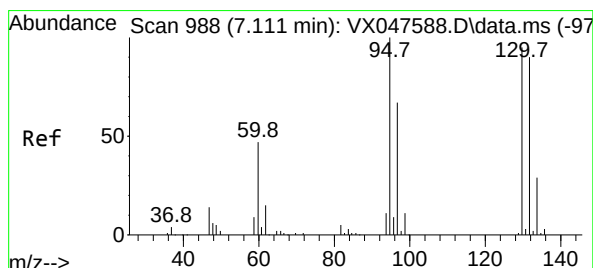
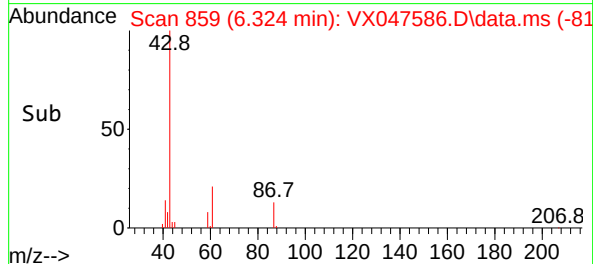
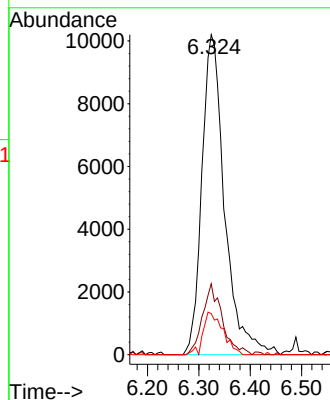
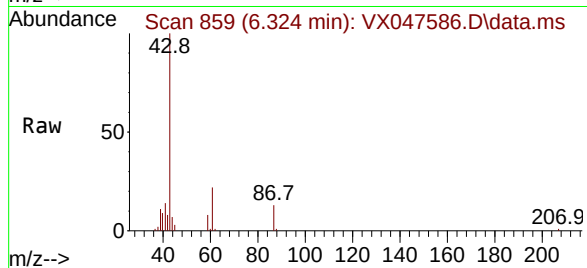
Tgt Ion:	43	Resp:	31304
Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	11.6	9.6	14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 5.314 ug/l

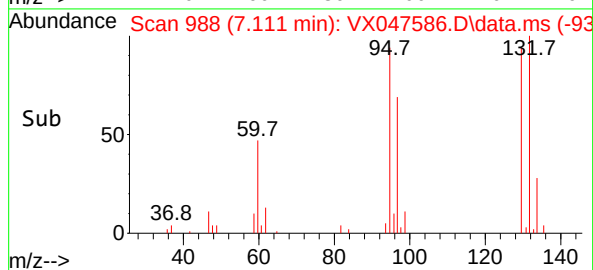
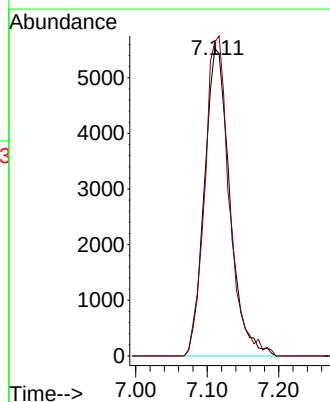
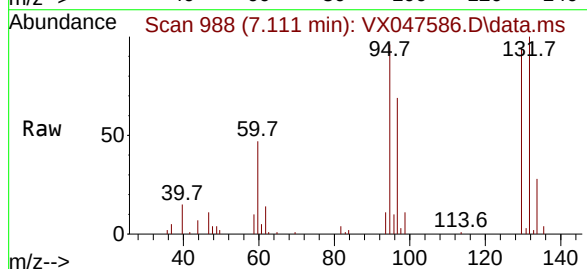
RT: 7.111 min Scan# 988

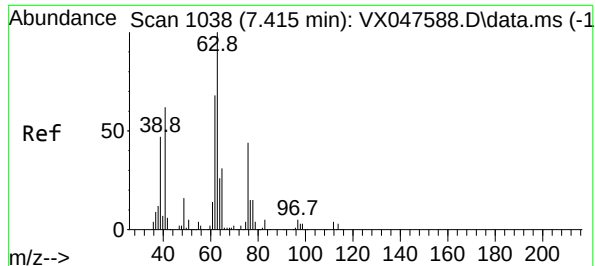
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	130	Resp:	13576
Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	210.8





#45

1,2-Dichloropropane

Concen: 5.287 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 63 Resp: 1430

Ion Ratio Lower Upper

63 100

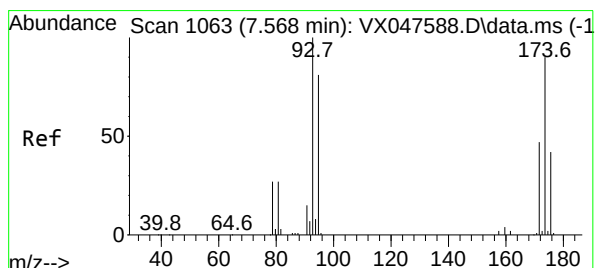
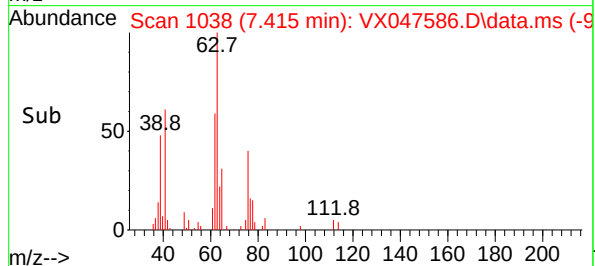
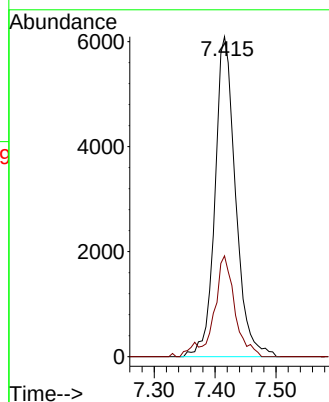
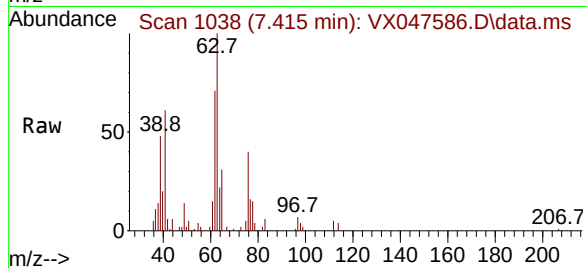
65 31.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 5.146 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

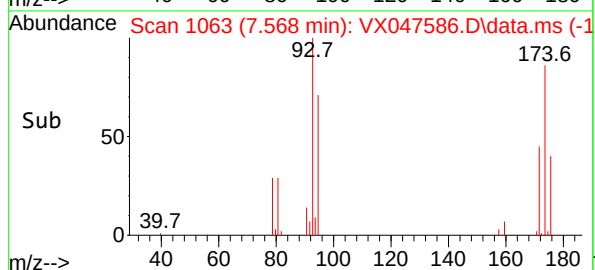
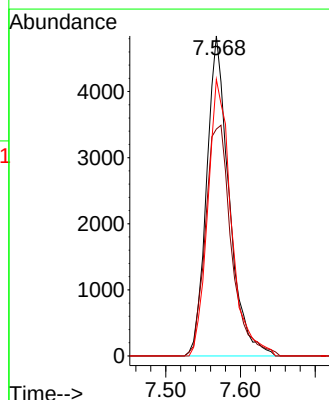
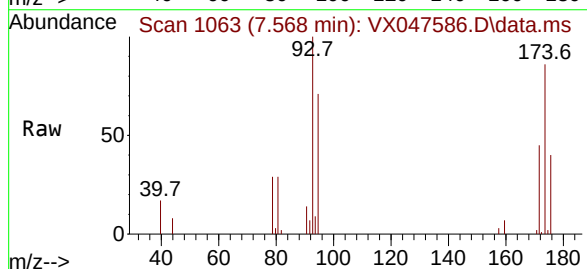
Tgt Ion: 93 Resp: 10133

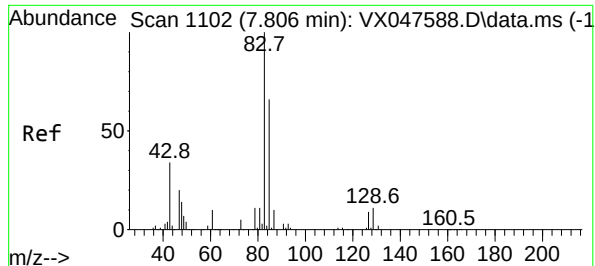
Ion Ratio Lower Upper

93 100

95 83.5 65.0 97.6

174 90.0 71.6 107.4





#47

Bromodichloromethane

Concen: 5.235 ug/l

RT: 7.806 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

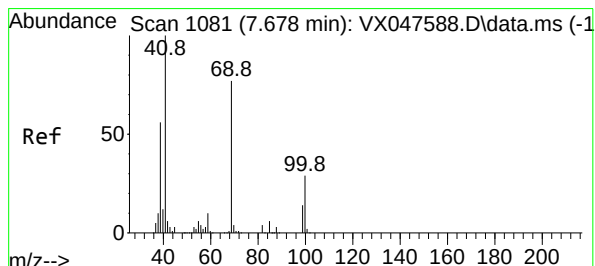
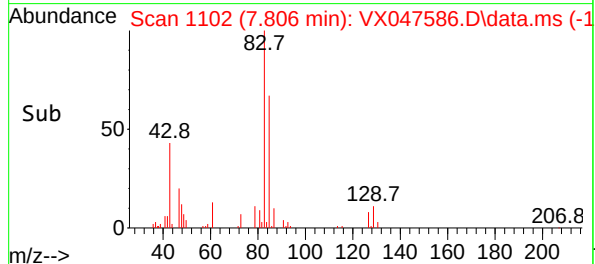
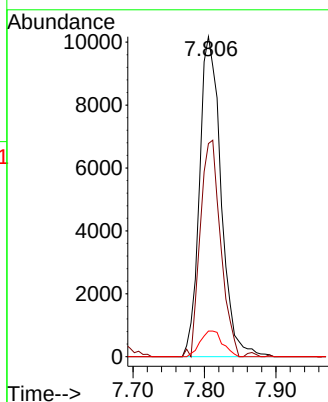
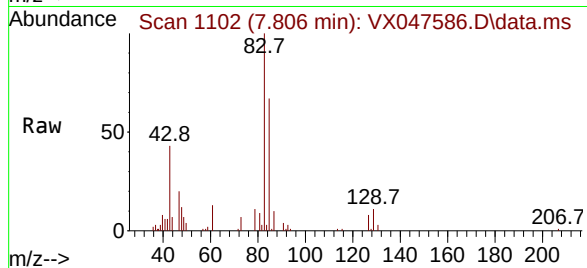
Tgt Ion:	83	Resp:	21270
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.5	78.7
127	7.8	6.9	10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 4.915 ug/l

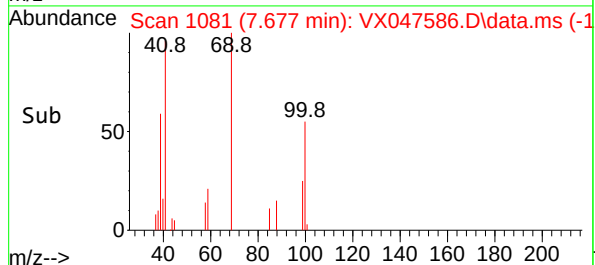
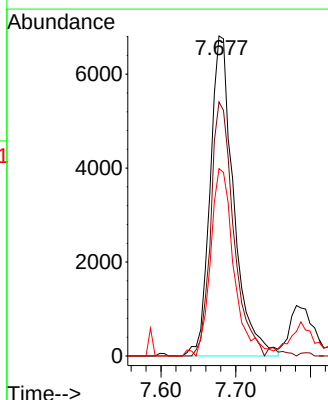
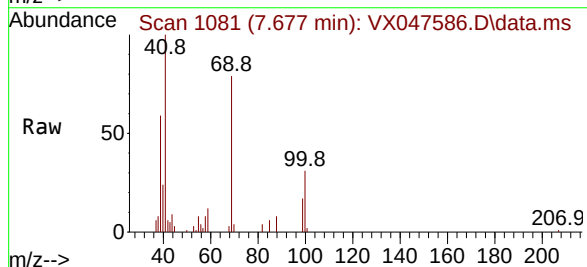
RT: 7.677 min Scan# 1081

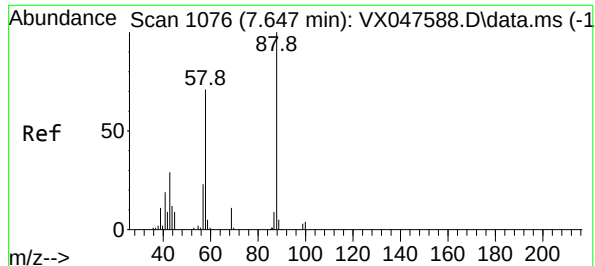
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	41	Resp:	14959
Ion	Ratio	Lower	Upper
41	100		
69	76.4	61.4	92.2
39	58.2	45.8	68.6





#49

1,4-Dioxane

Concen: 98.096 ug/l

RT: 7.653 min Scan# 1076

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

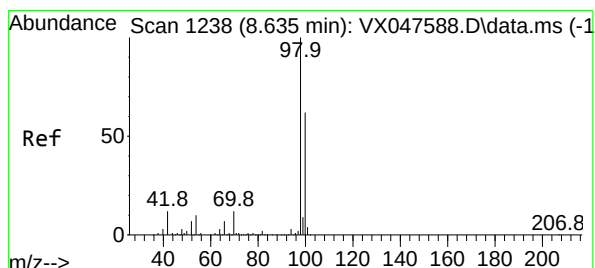
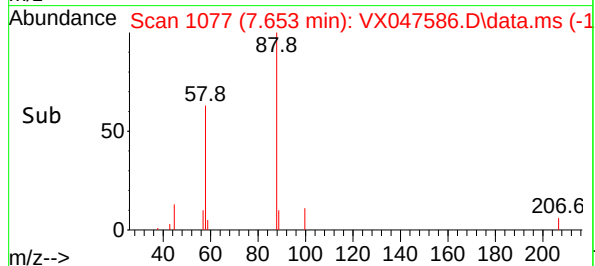
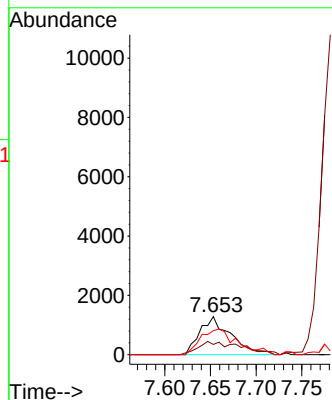
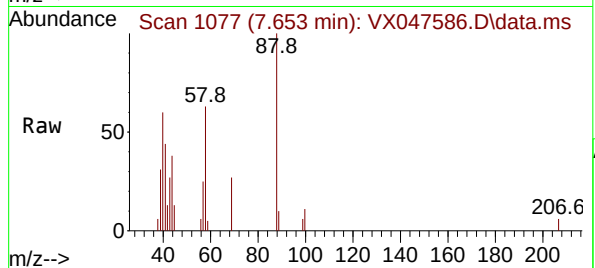
Tgt Ion:	88	Resp:	301
Ion	Ratio	Lower	Upper
88	100		
43	48.3	30.2	45.2
58	79.1	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 5.332 ug/l

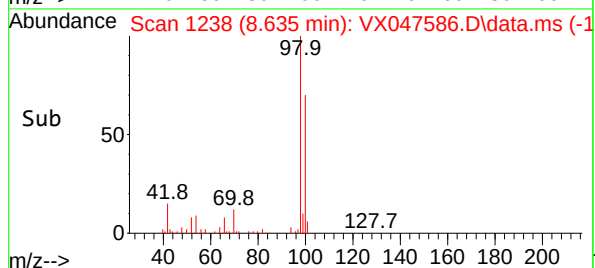
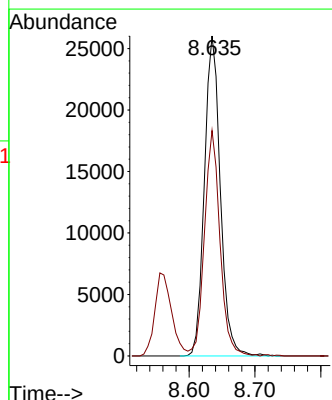
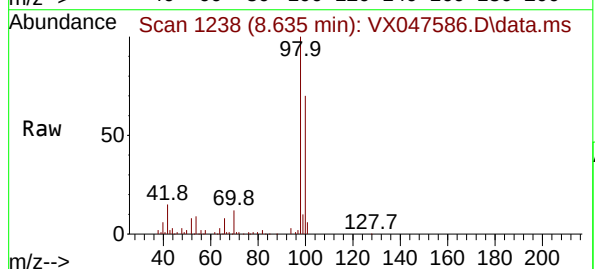
RT: 8.635 min Scan# 1238

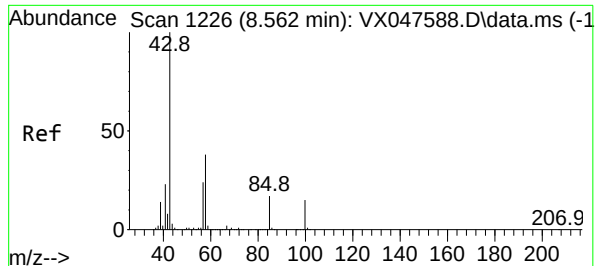
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	98	Resp:	43926
Ion	Ratio	Lower	Upper
98	100		
100	68.4	53.0	79.4





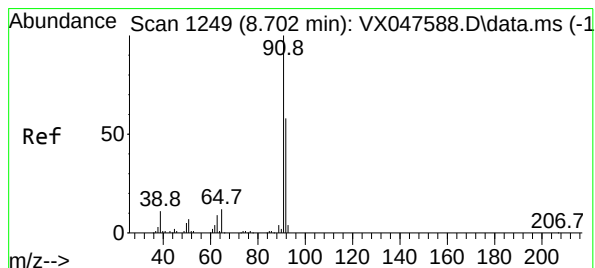
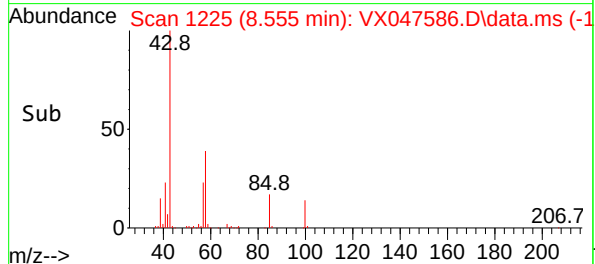
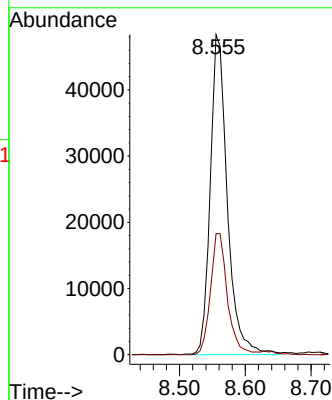
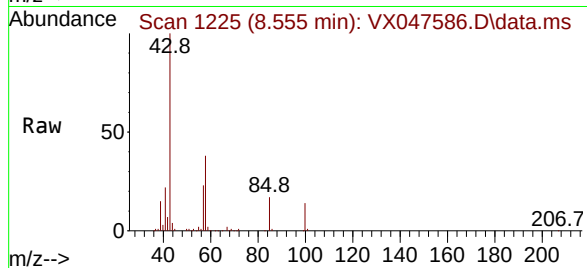
#51
4-Methyl-2-Pentanone
Concen: 25.828 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 87492
Ion Ratio Lower Upper
43 100
58 37.7 30.3 45.5

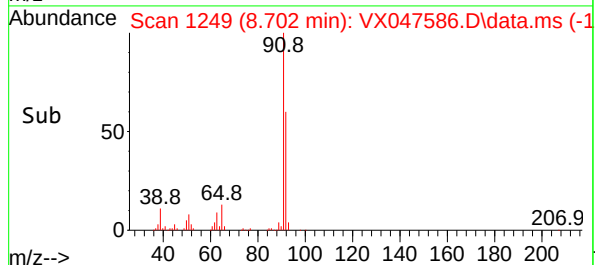
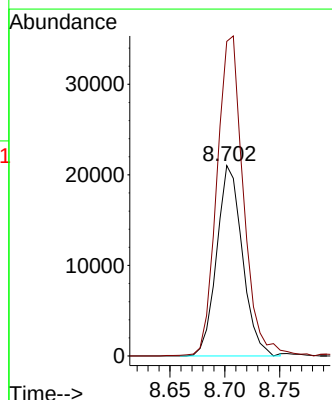
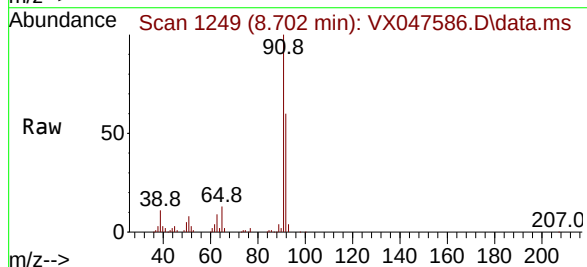
Manual Integrations
APPROVED

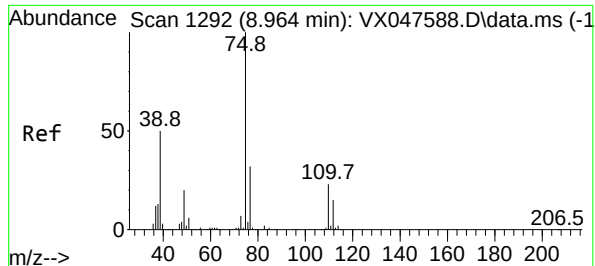
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 5.271 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 92 Resp: 34314
Ion Ratio Lower Upper
92 100
91 173.8 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 5.034 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 2086

Ion Ratio Lower Upper

75 100

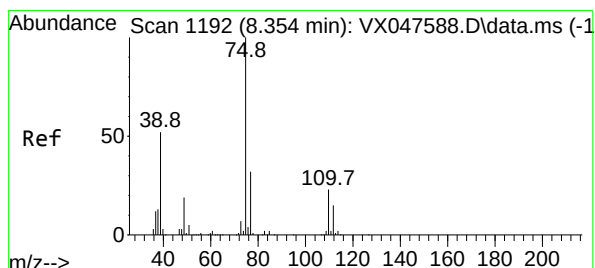
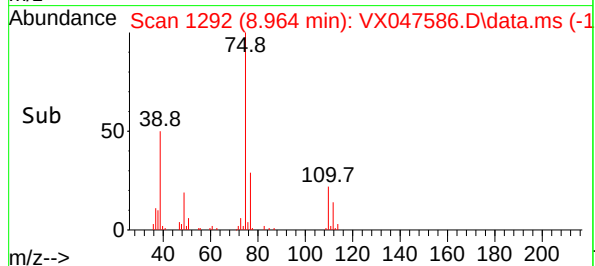
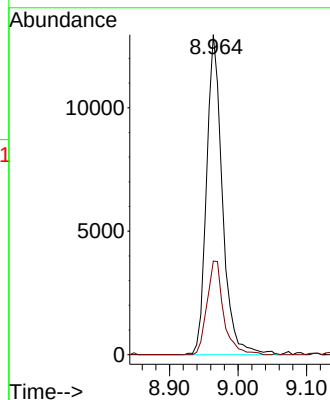
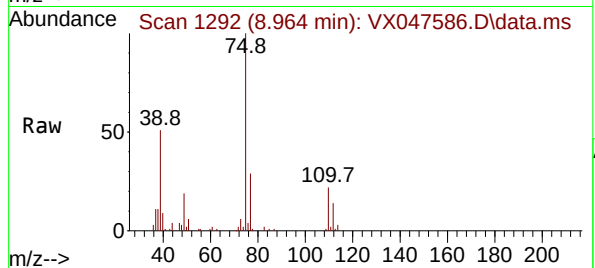
77 30.2 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 5.227 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

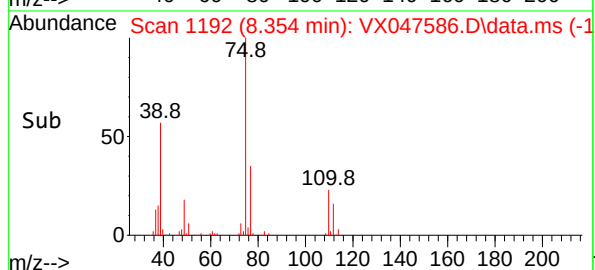
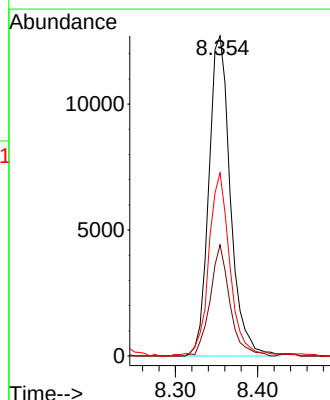
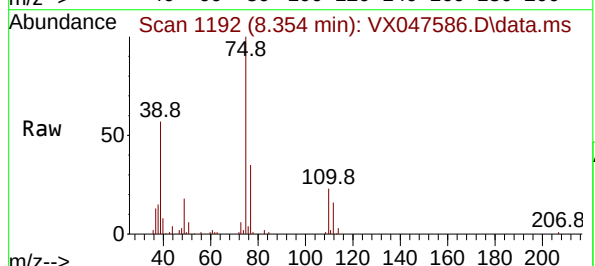
Tgt Ion: 75 Resp: 23157

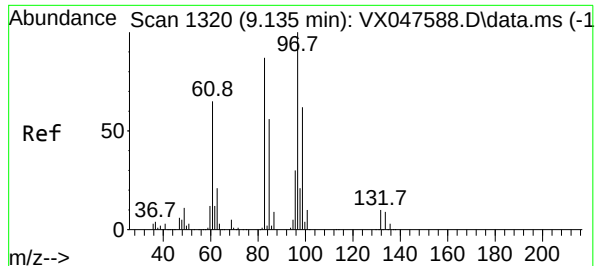
Ion Ratio Lower Upper

75 100

77 34.7 25.8 38.6

39 51.7 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 5.166 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 1296

Ion Ratio Lower Upper

97 100

83 76.7 69.6 104.4

85 49.9 45.0 67.6

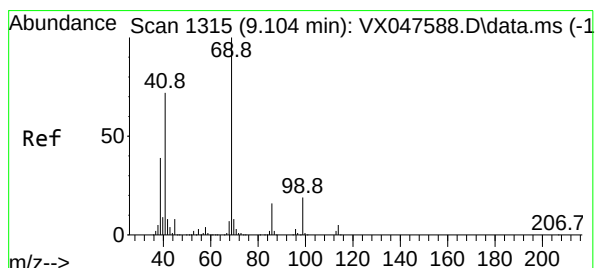
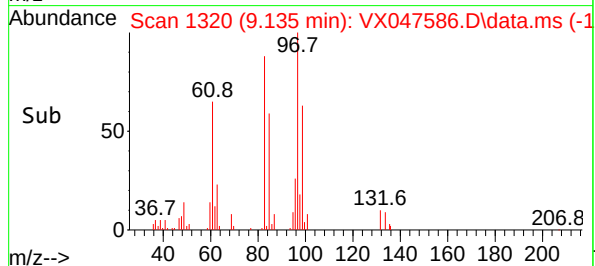
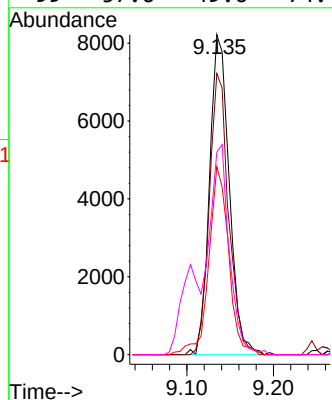
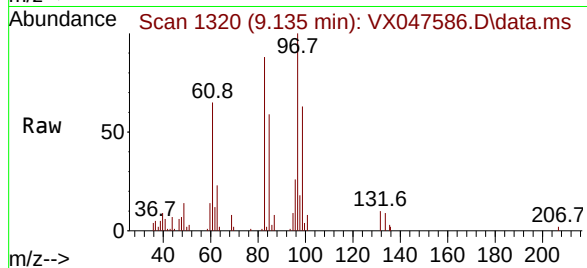
99 57.6 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 5.068 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

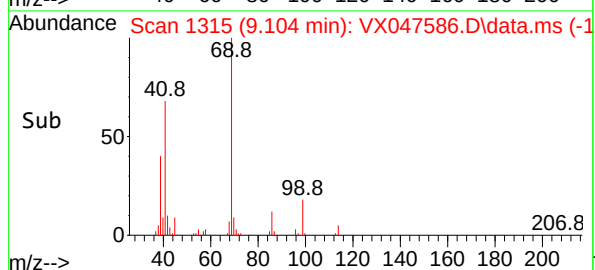
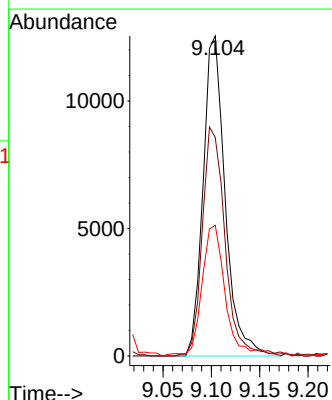
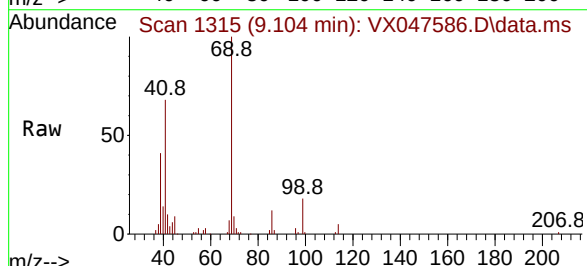
Tgt Ion: 69 Resp: 19980

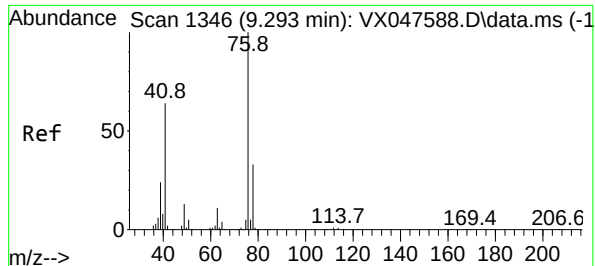
Ion Ratio Lower Upper

69 100

41 73.9 58.6 87.8

39 43.7 31.5 47.3





#57

1,3-Dichloropropane

Concen: 5.331 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 22989

Ion Ratio Lower Upper

76 100

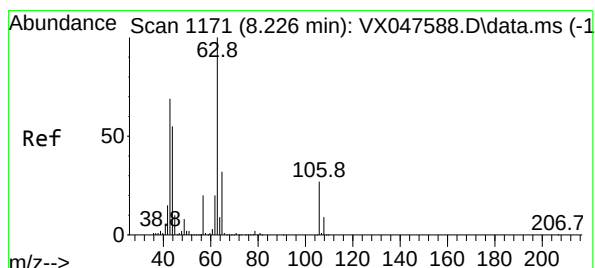
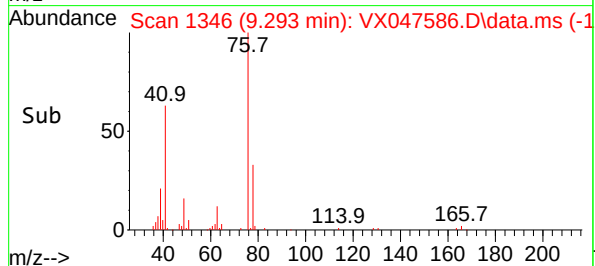
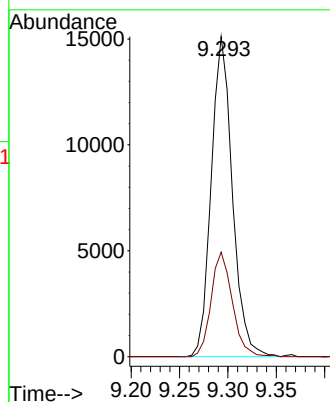
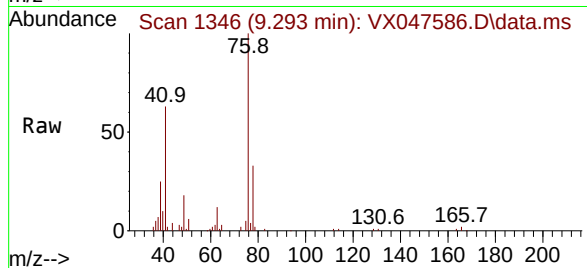
78 32.8 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 27.899 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047586.D

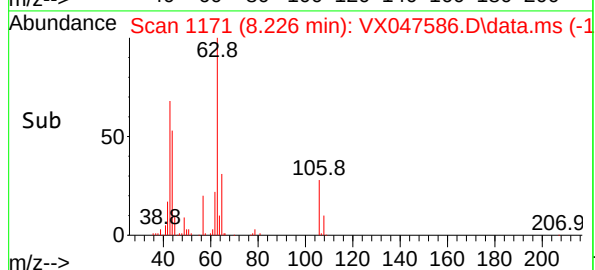
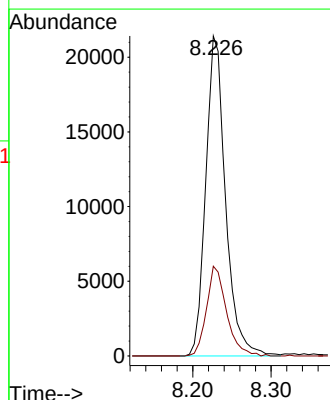
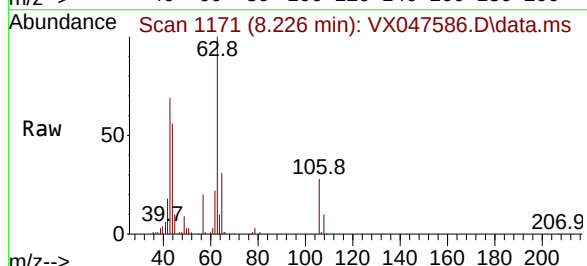
Acq: 16 Sep 2025 10:16

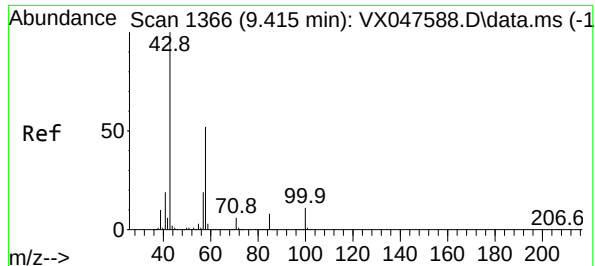
Tgt Ion: 63 Resp: 37585

Ion Ratio Lower Upper

63 100

106 28.3 21.9 32.9





#59

2-Hexanone

Concen: 27.275 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 66350

Ion Ratio Lower Upper

43 100

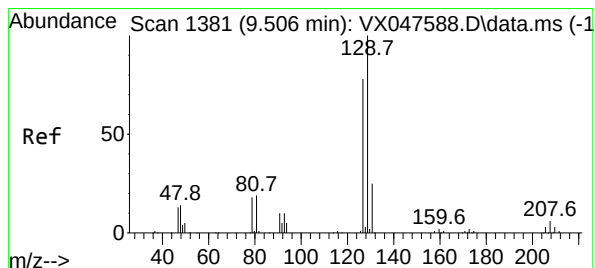
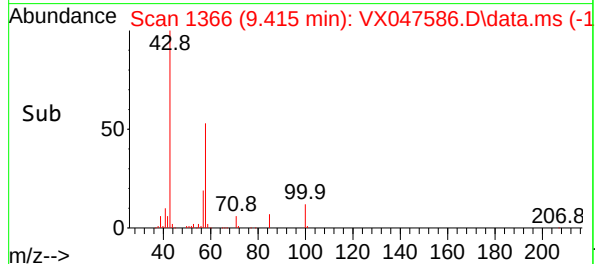
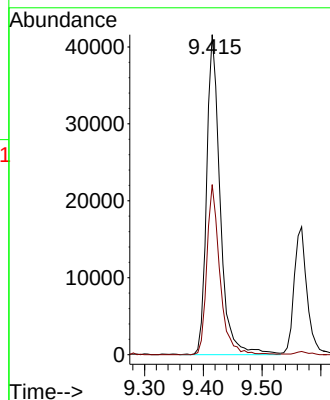
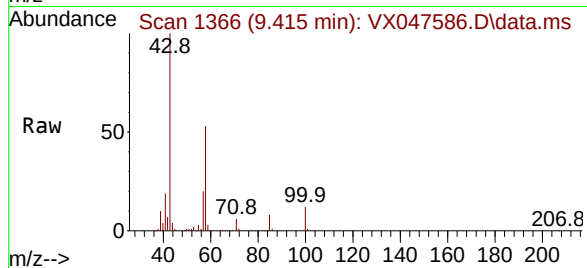
58 51.1 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 5.084 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047586.D

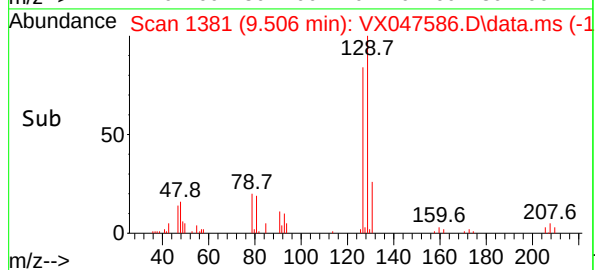
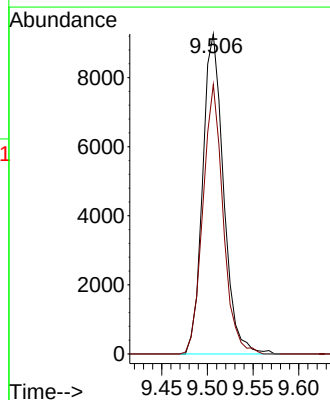
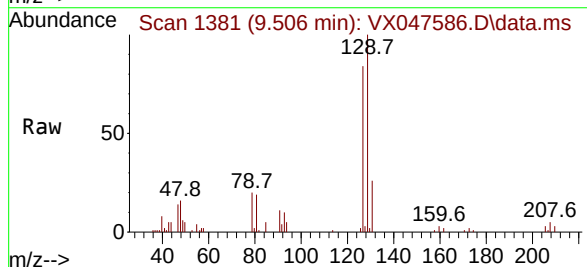
Acq: 16 Sep 2025 10:16

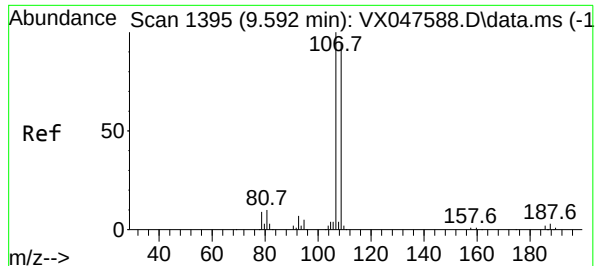
Tgt Ion:129 Resp: 14705

Ion Ratio Lower Upper

129 100

127 81.4 38.4 115.2





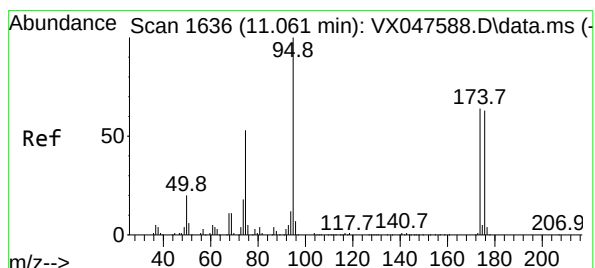
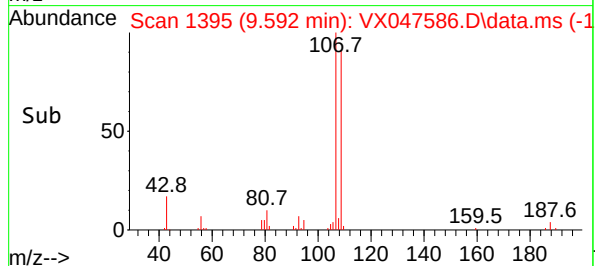
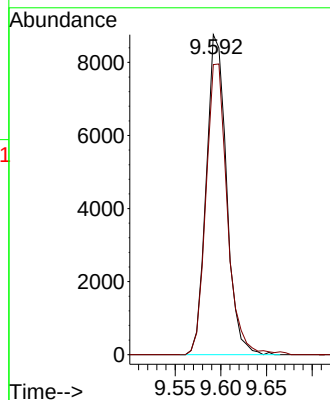
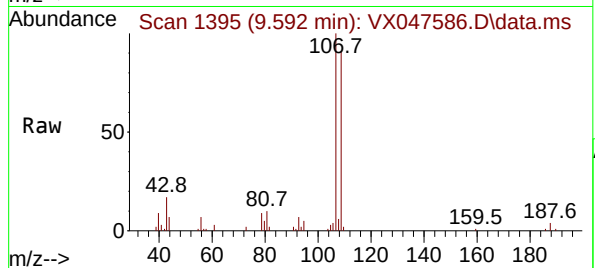
#61
1,2-Dibromoethane
Concen: 5.264 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:107 Resp: 1346
Ion Ratio Lower Upper
107 100
109 95.6 75.3 112.9

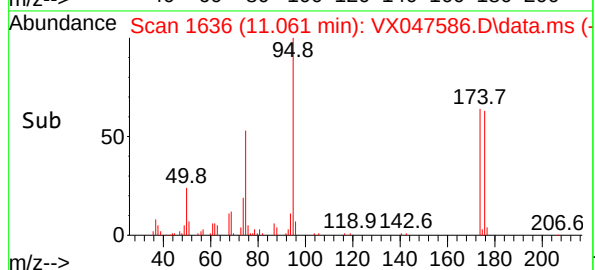
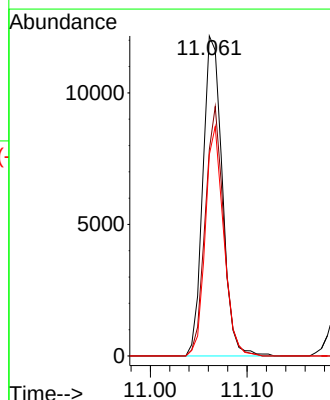
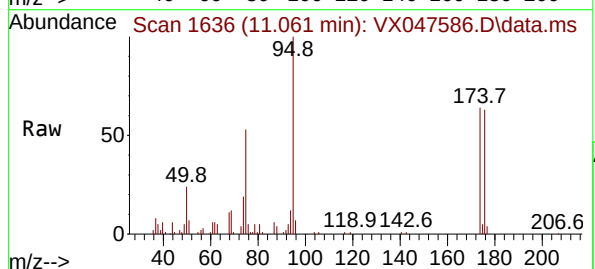
Manual Integrations
APPROVED

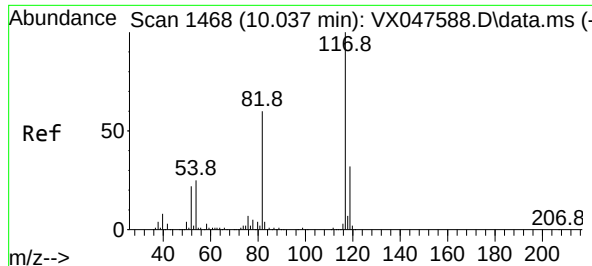
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#62
4-Bromofluorobenzene
Concen: 5.429 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

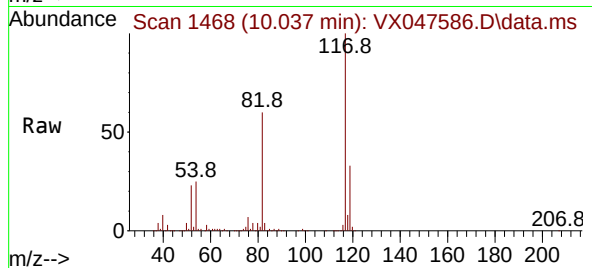
Tgt Ion: 95 Resp: 16974
Ion Ratio Lower Upper
95 100
174 74.0 0.0 141.6
176 67.9 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

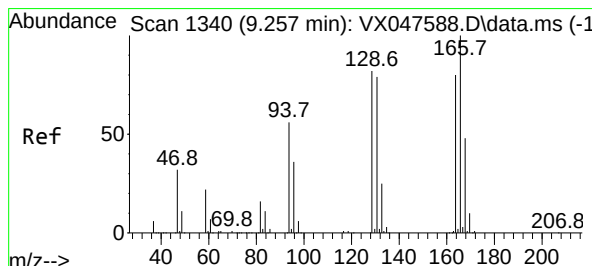
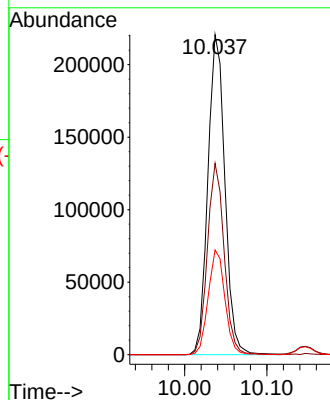
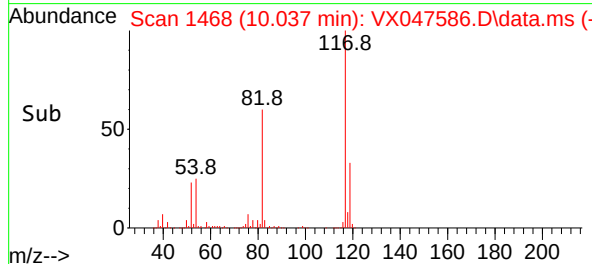
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:117 Resp: 31728
Ion Ratio Lower Upper
117 100
82 59.8 47.8 71.6
119 32.8 25.2 37.8

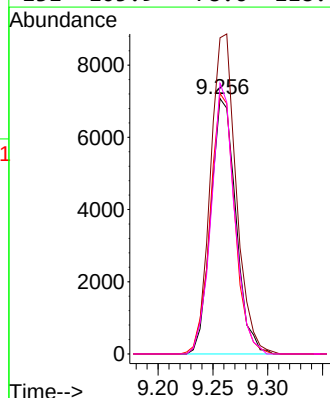
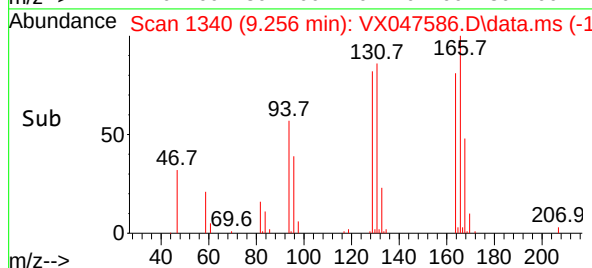
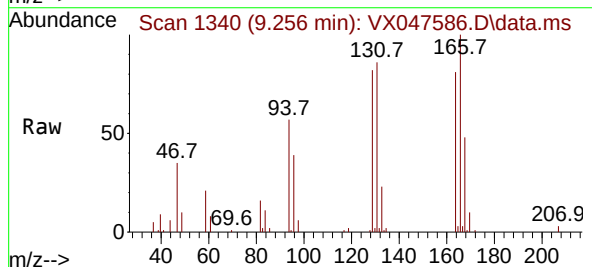
Manual Integrations
APPROVED

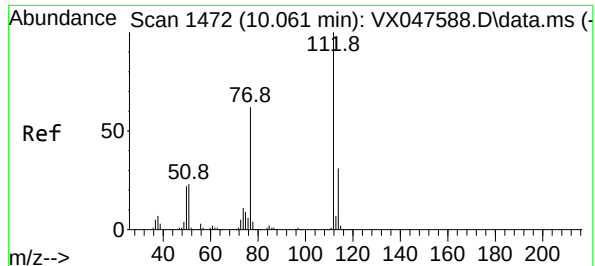
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#64
Tetrachloroethene
Concen: 5.428 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:164 Resp: 11228
Ion Ratio Lower Upper
164 100
166 123.8 100.2 150.2
129 102.0 81.8 122.6
131 105.9 78.6 118.0





#65

Chlorobenzene

Concen: 5.203 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 3750

Ion Ratio Lower Upper

112 100

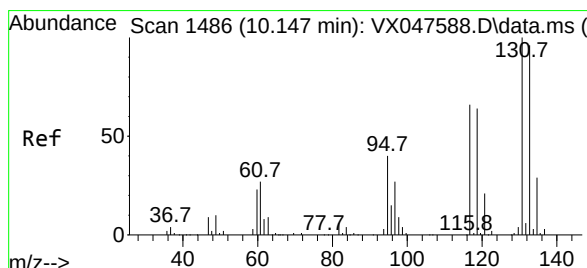
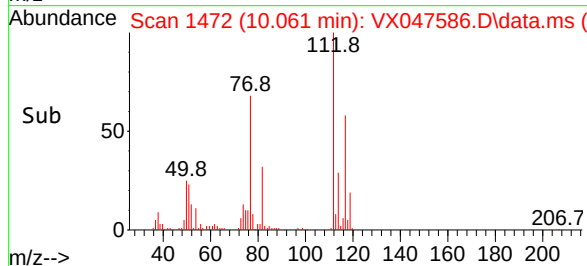
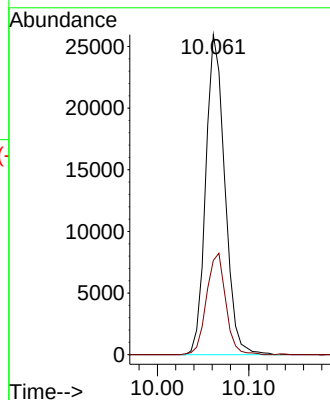
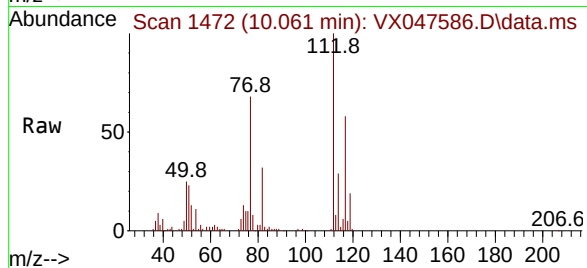
114 29.2 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 5.149 ug/l

RT: 10.147 min Scan# 1486

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

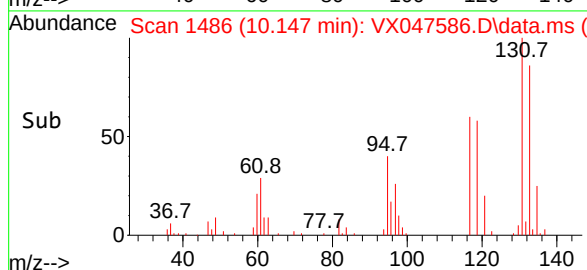
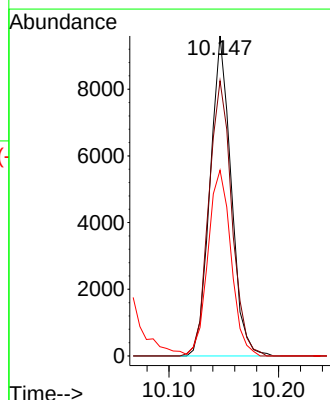
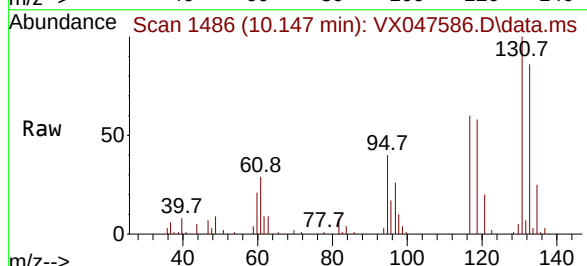
Tgt Ion:131 Resp: 12807

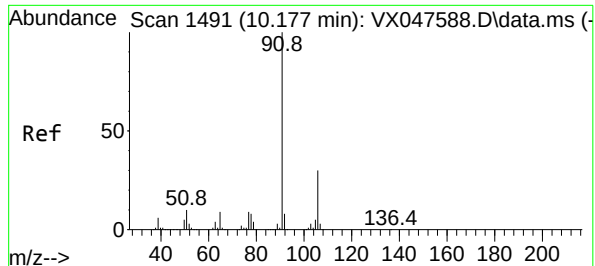
Ion Ratio Lower Upper

131 100

133 94.0 47.3 142.0

119 63.5 32.0 96.0





#67

Ethyl Benzene

Concen: 5.299 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 65908

Ion Ratio Lower Upper

91 100

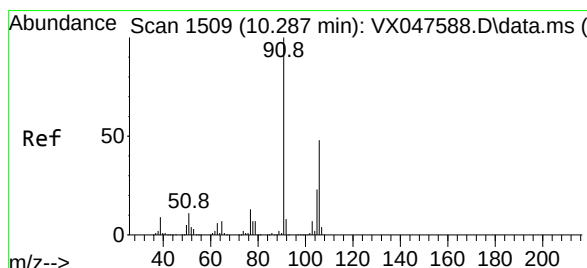
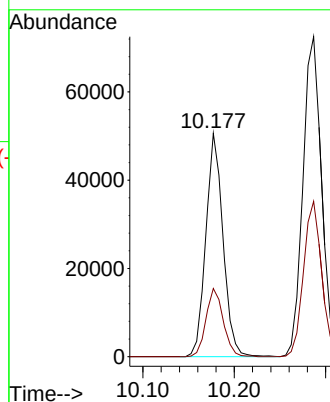
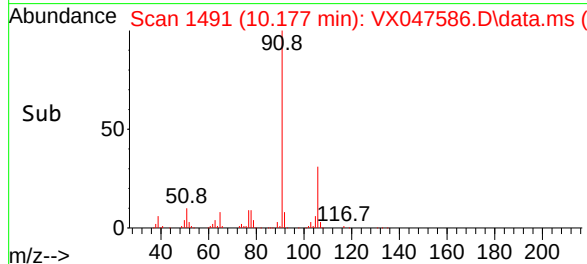
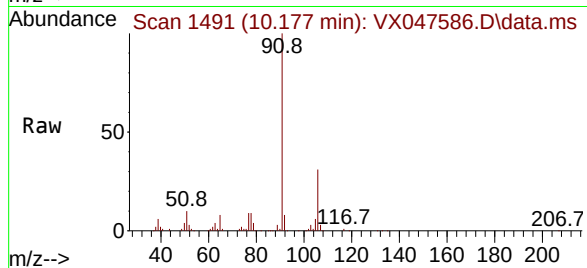
106 30.5 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 10.613 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX047586.D

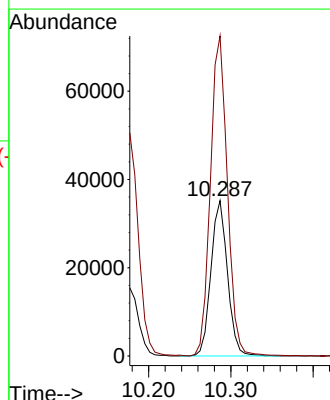
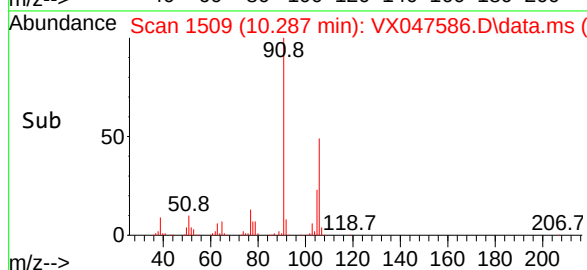
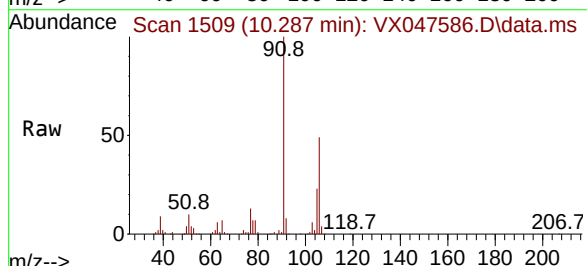
Acq: 16 Sep 2025 10:16

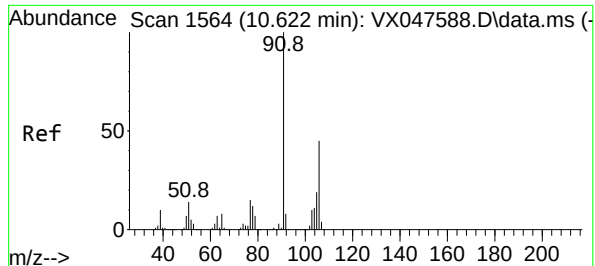
Tgt Ion:106 Resp: 49132

Ion Ratio Lower Upper

106 100

91 211.6 167.8 251.8





#69

o-Xylene

Concen: 5.204 ug/l

RT: 10.628 min Scan# 1564

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 23300

Ion Ratio Lower Upper

106 100

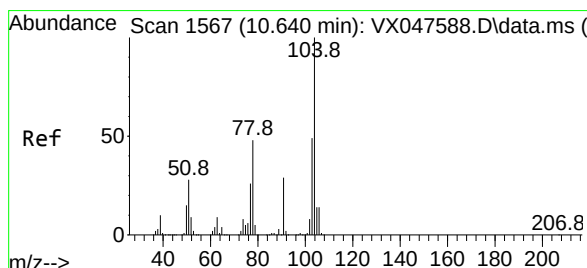
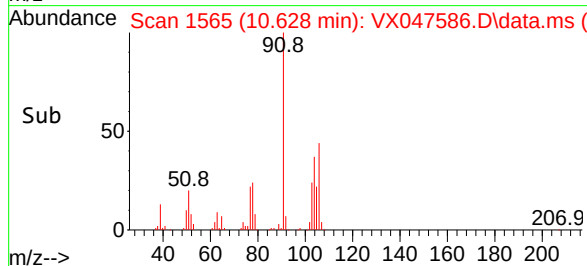
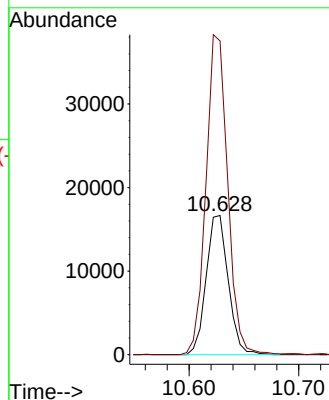
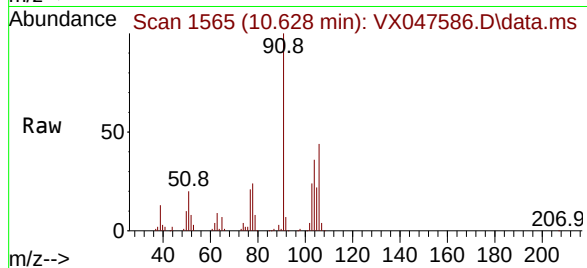
91 226.3 111.1 333.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#70

Styrene

Concen: 5.210 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

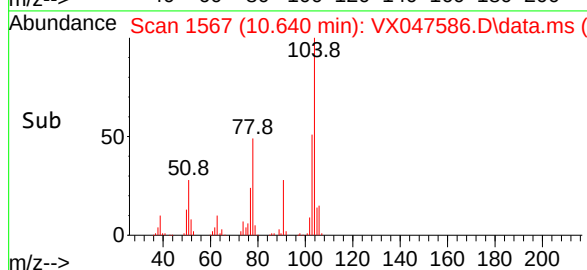
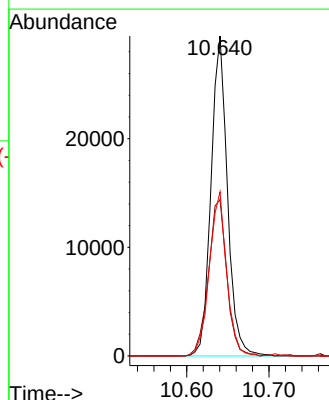
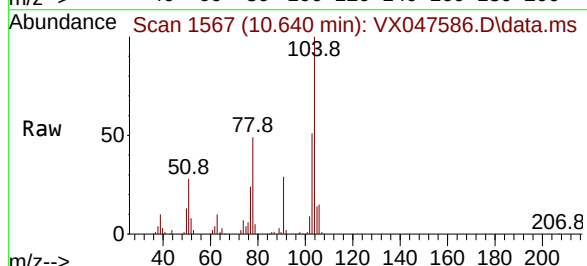
Tgt Ion:104 Resp: 40872

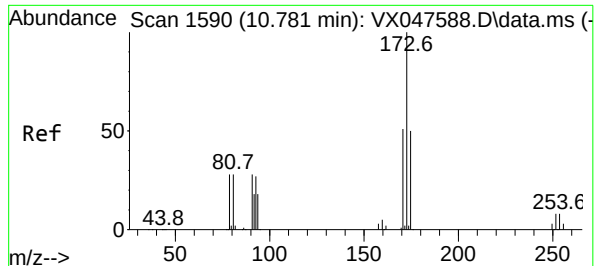
Ion Ratio Lower Upper

104 100

78 54.8 43.1 64.7

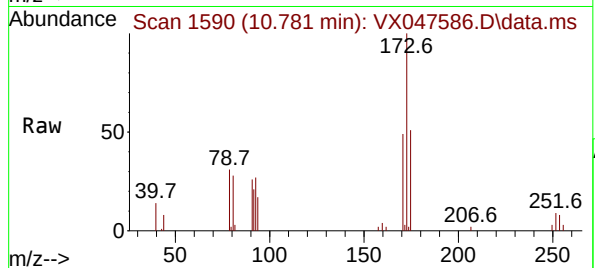
103 53.7 43.1 64.7





#71
Bromoform
Concen: 5.006 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

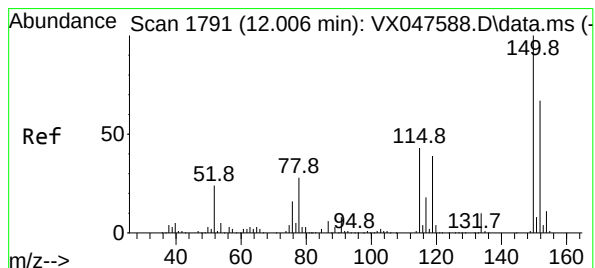
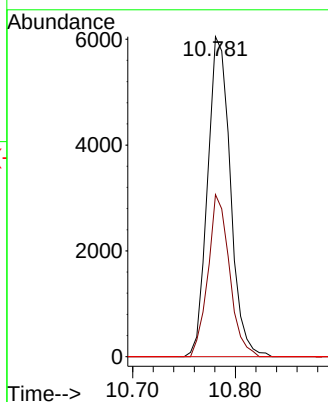
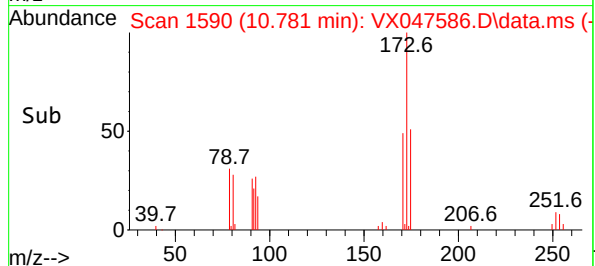
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:173 Resp: 9298
Ion Ratio Lower Upper
173 100
175 47.9 24.9 74.6
254 0.0 0.1 0.1

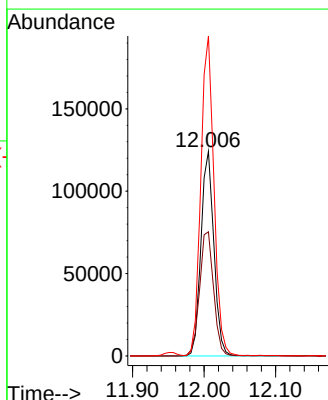
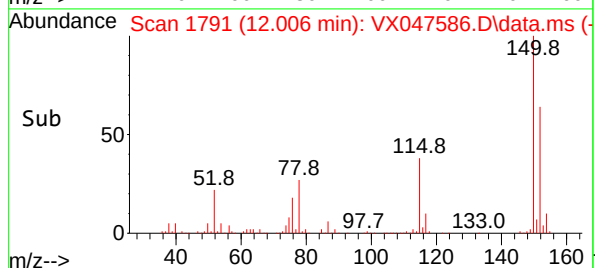
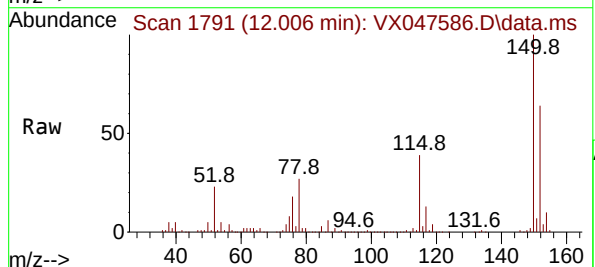
Manual Integrations
APPROVED

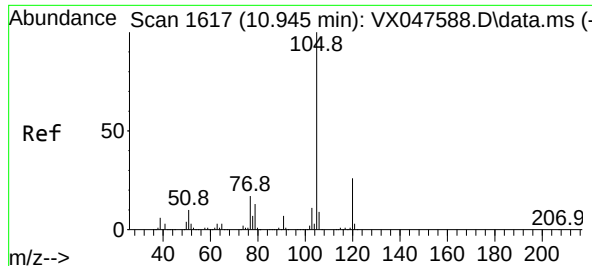
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:152 Resp: 156219
Ion Ratio Lower Upper
152 100
115 65.6 44.9 134.5
150 157.8 0.0 352.0





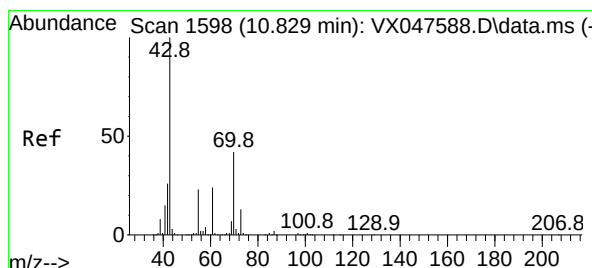
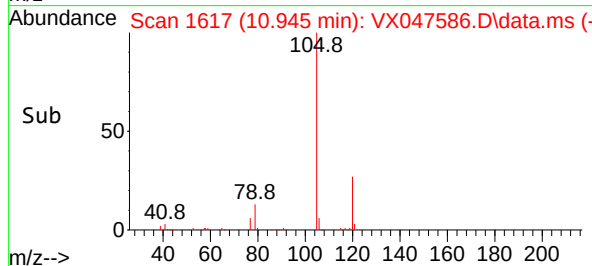
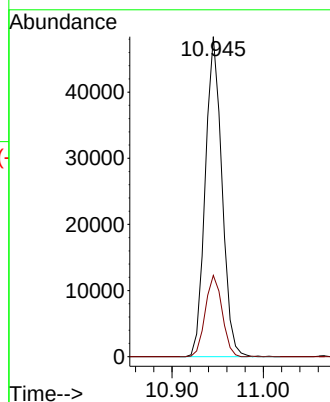
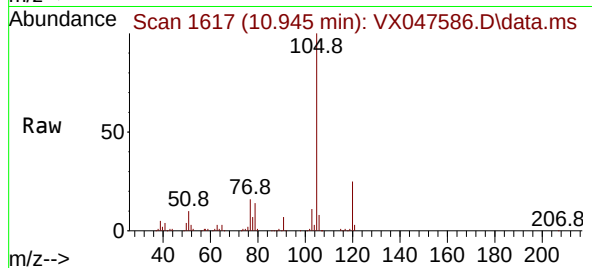
#73
Isopropylbenzene
Concen: 5.139 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 61029
Ion Ratio Lower Upper
105 100
120 25.6 12.8 38.4

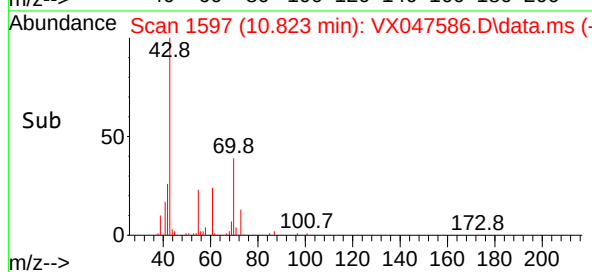
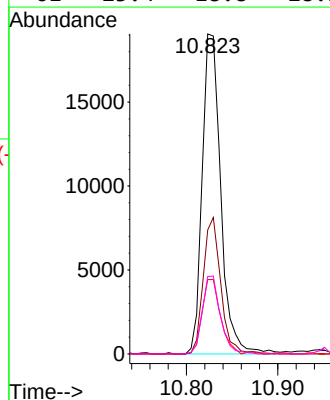
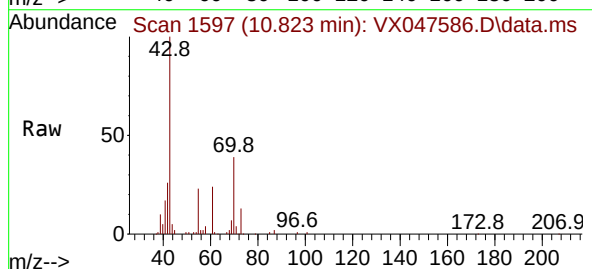
Manual Integrations
APPROVED

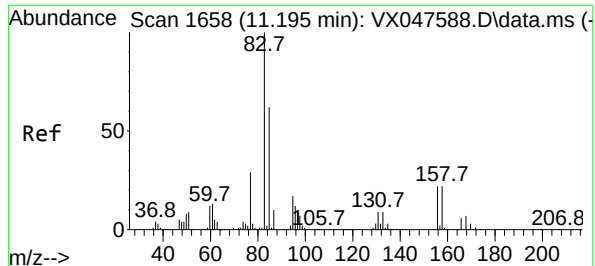
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 4.980 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 26969
Ion Ratio Lower Upper
43 100
70 39.9 32.0 48.0
55 23.1 18.9 28.3
61 23.4 18.8 28.2





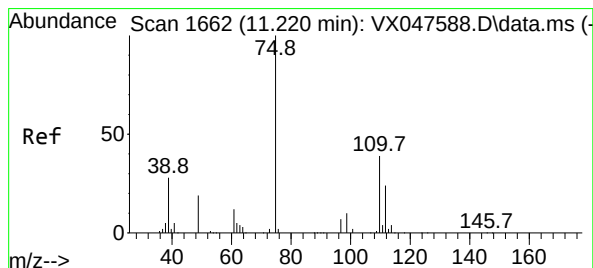
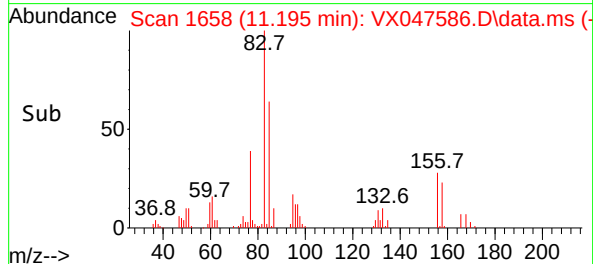
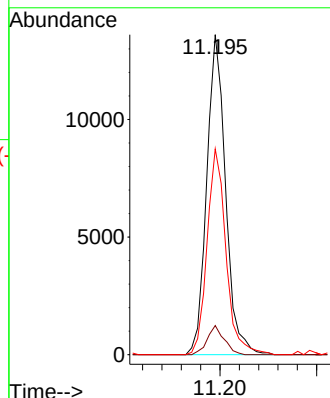
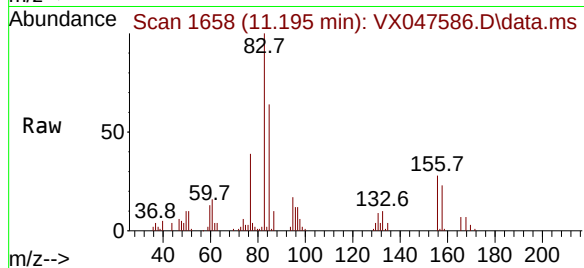
#75
1,1,2-Tetrachloroethane
Concen: 5.138 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 18462
Ion Ratio Lower Upper
83 100
131 8.2 5.0 14.9
85 64.4 31.6 95.0

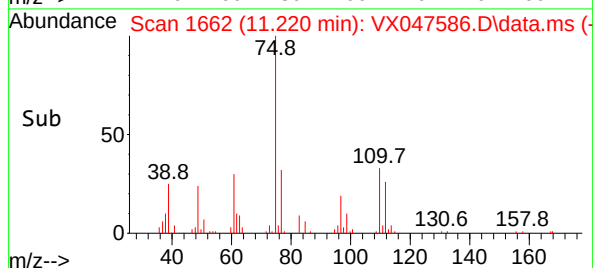
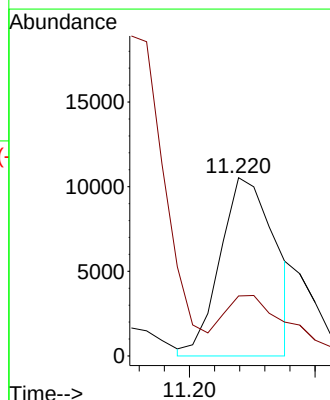
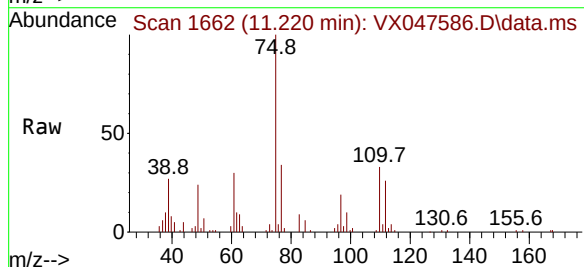
Manual Integrations
APPROVED

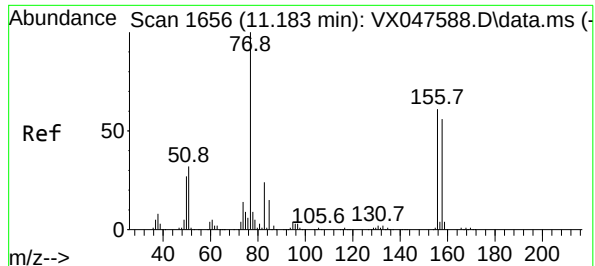
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 4.927 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 15982
Ion Ratio Lower Upper
75 100
77 40.6 18.8 56.4





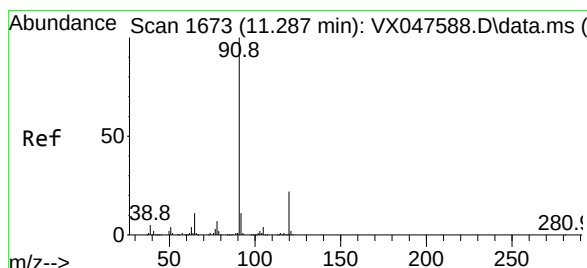
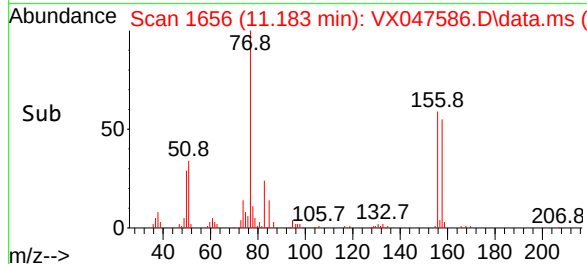
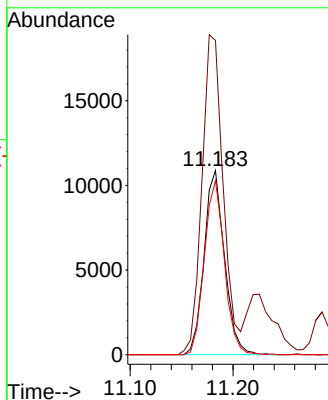
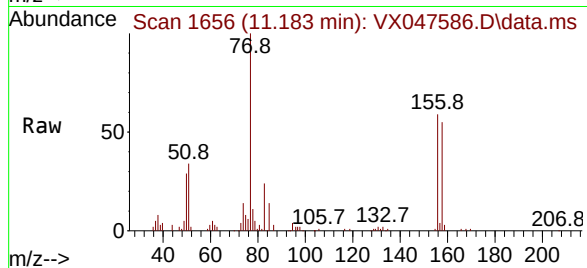
#77
Bromobenzene
Concen: 5.150 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:	156	Resp:	1506
Ion Ratio	Lower	Upper	
156	100		
77	180.3	89.7	269.1
158	92.6	47.9	143.6

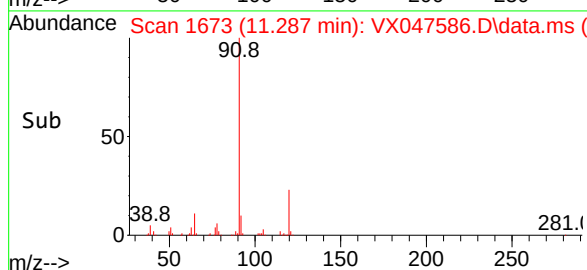
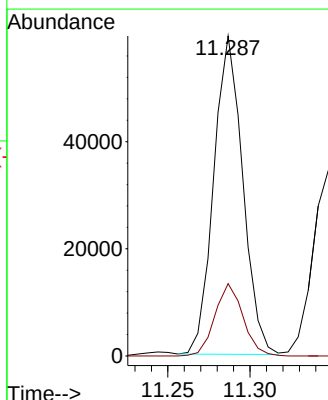
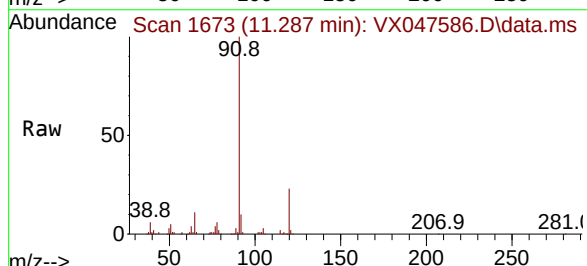
Manual Integrations
APPROVED

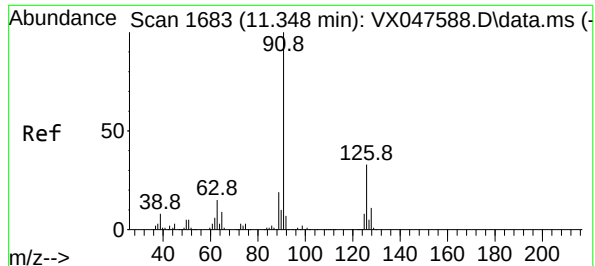
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#78
n-propylbenzene
Concen: 5.192 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:	91	Resp:	72900
Ion Ratio	Lower	Upper	
91	100		
120	22.0	11.1	33.1





#79

2-Chlorotoluene

Concen: 5.194 ug/l

RT: 11.348 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 4466

Ion Ratio Lower Upper

91 100

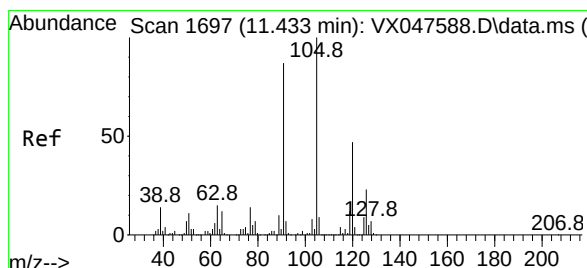
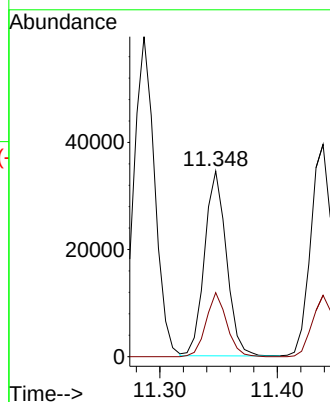
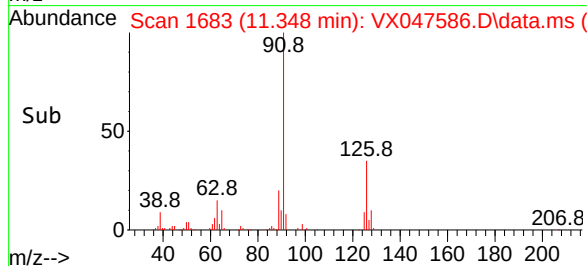
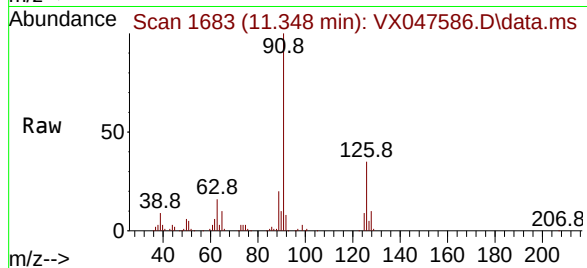
126 32.7 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#80

1,3,5-Trimethylbenzene

Concen: 5.179 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX047586.D

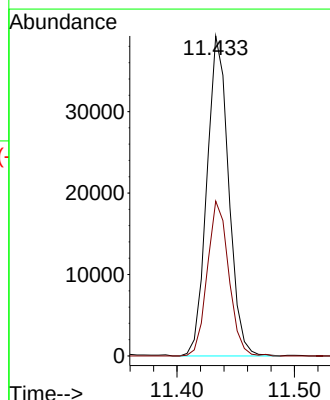
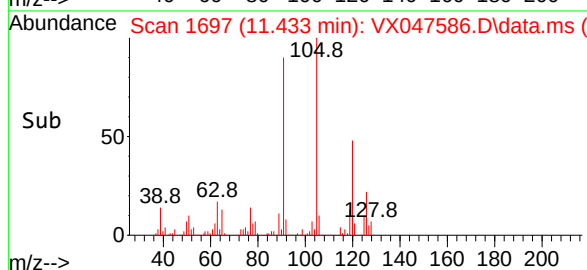
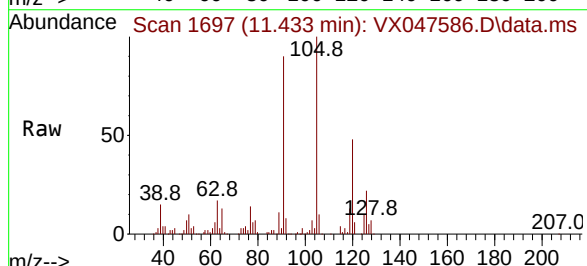
Acq: 16 Sep 2025 10:16

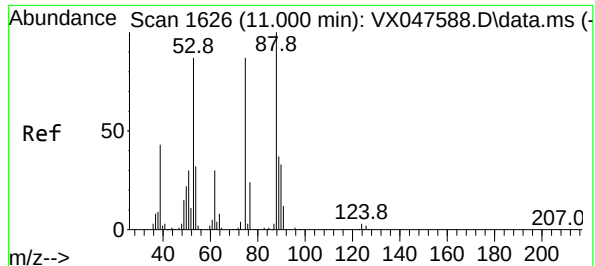
Tgt Ion:105 Resp: 50535

Ion Ratio Lower Upper

105 100

120 47.7 23.6 70.8





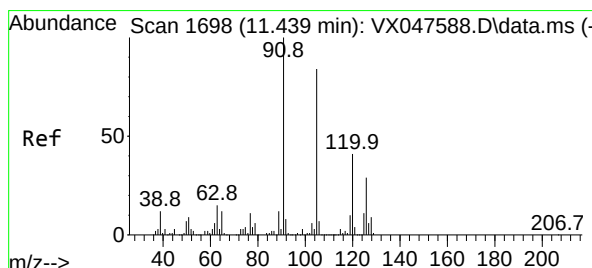
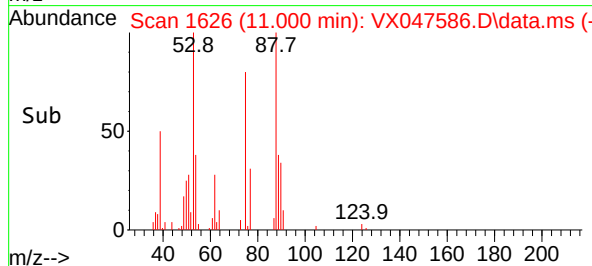
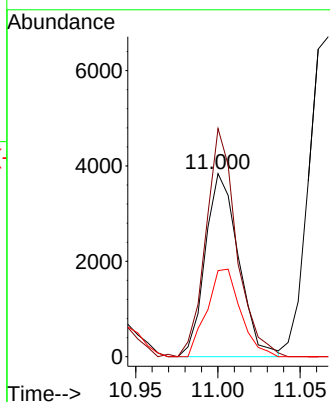
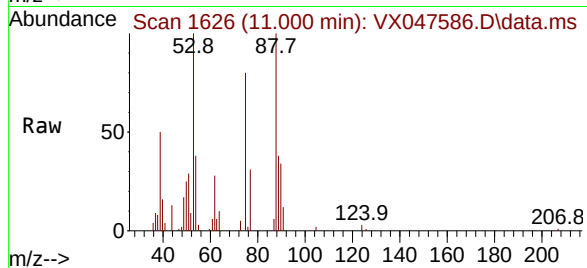
#81
trans-1,4-Dichloro-2-butene
Concen: 4.364 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:	75	Resp:	541
Ion Ratio	Lower	Upper	
75	100		
53	114.9	83.4	125.2
89	48.3	36.3	54.5

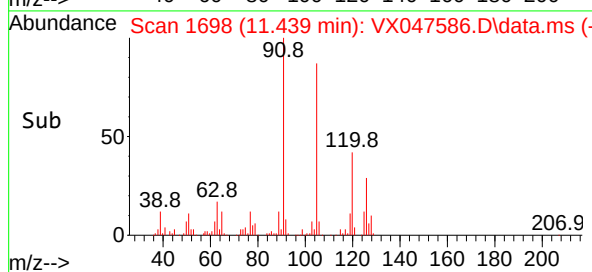
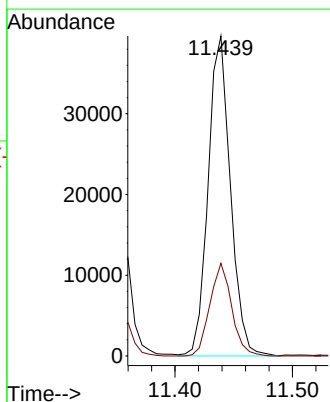
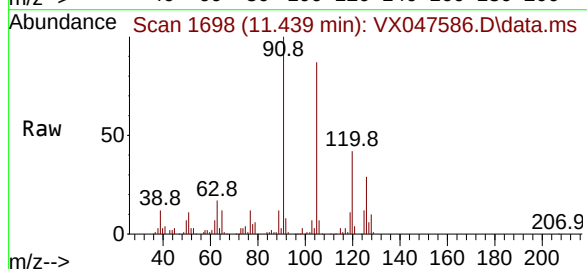
Manual Integrations
APPROVED

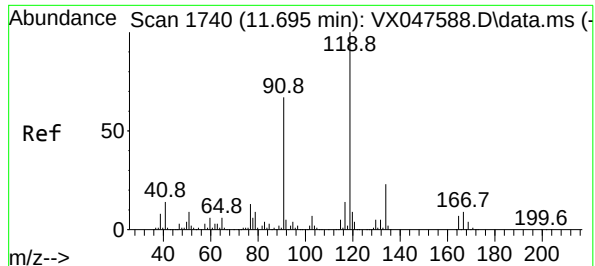
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 5.149 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

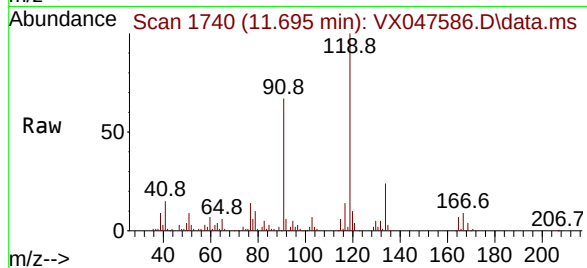
Tgt Ion:	91	Resp:	52294
Ion Ratio	Lower	Upper	
91	100		
126	28.3	14.2	42.6





#83
tert-Butylbenzene
Concen: 5.041 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

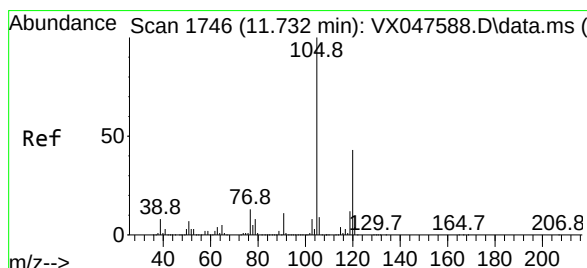
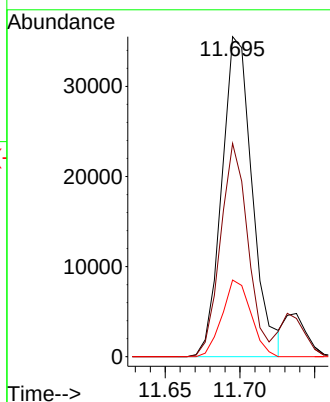
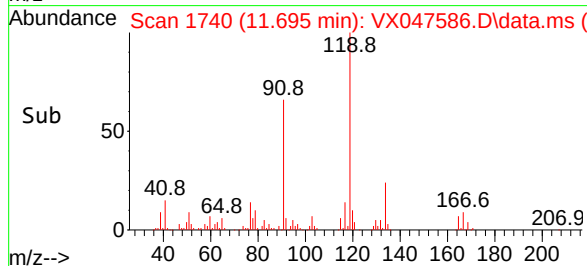
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:119 Resp: 50350
Ion Ratio Lower Upper
119 100
91 60.1 29.6 88.8
134 22.7 11.0 33.0

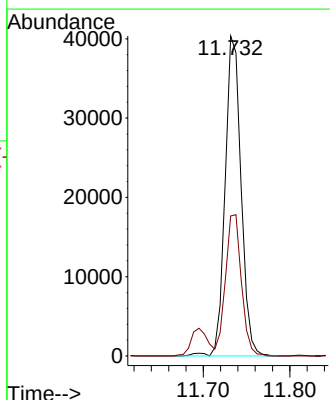
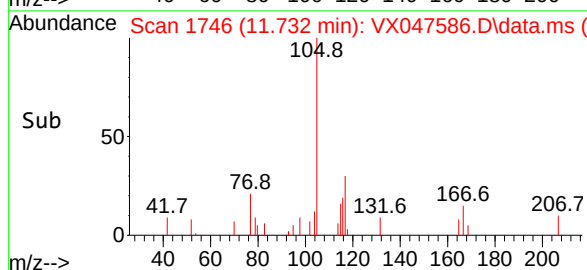
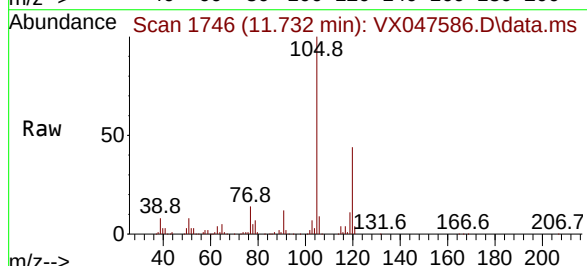
Manual Integrations
APPROVED

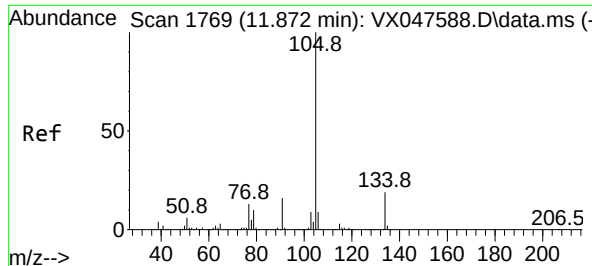
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#84
1,2,4-Trimethylbenzene
Concen: 5.214 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 51583
Ion Ratio Lower Upper
105 100
120 44.1 22.1 66.1





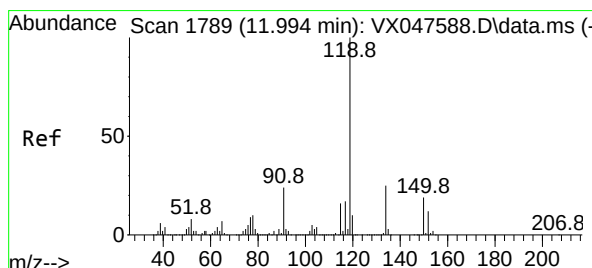
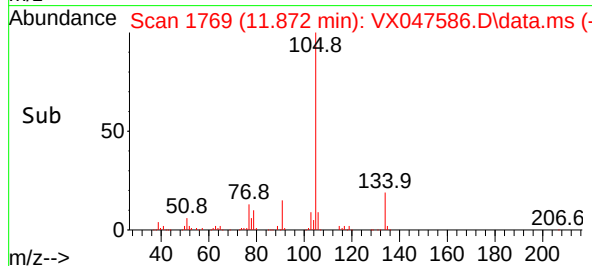
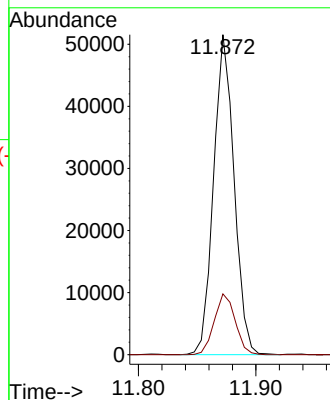
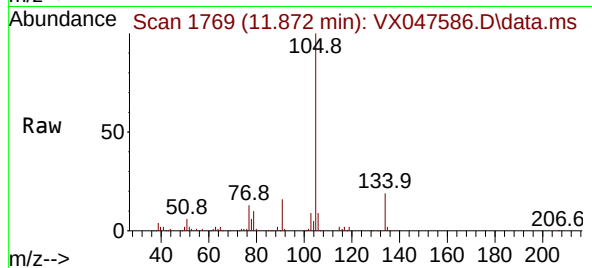
#85
sec-Butylbenzene
Concen: 5.268 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 6250
Ion Ratio Lower Upper
105 100
134 19.4 9.8 29.5

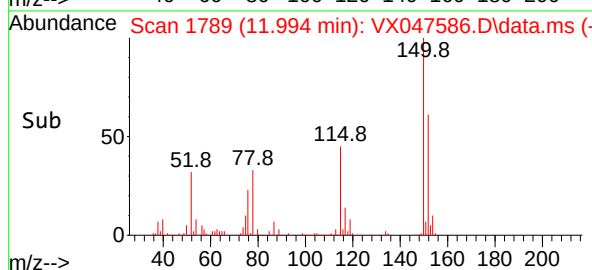
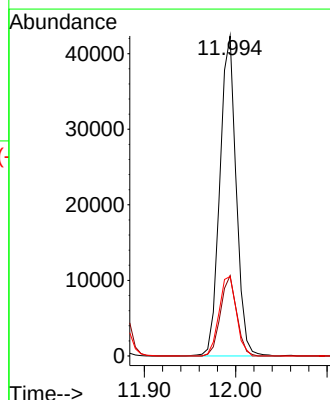
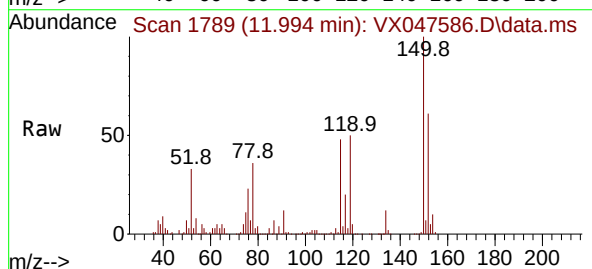
Manual Integrations
APPROVED

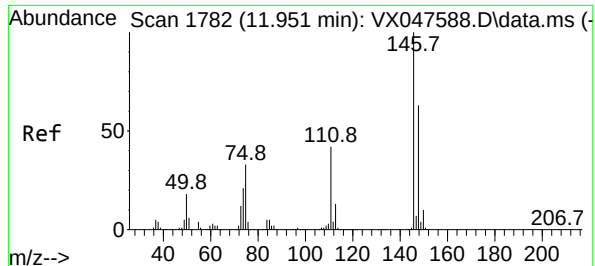
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#86
p-Isopropyltoluene
Concen: 5.244 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:119 Resp: 52674
Ion Ratio Lower Upper
119 100
134 24.7 12.6 37.8
91 26.2 12.6 37.6





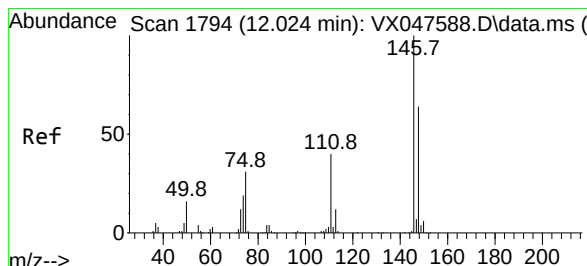
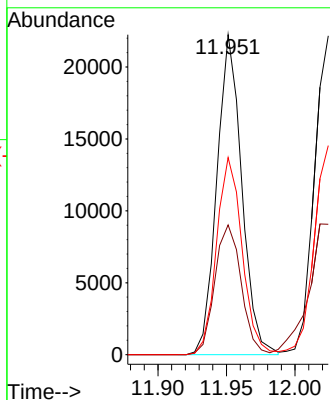
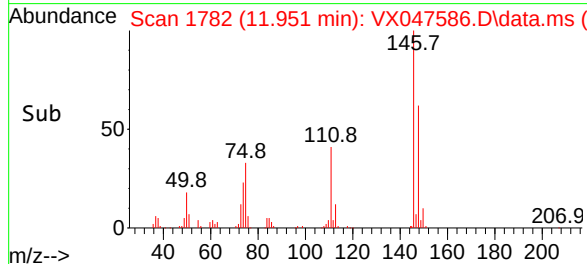
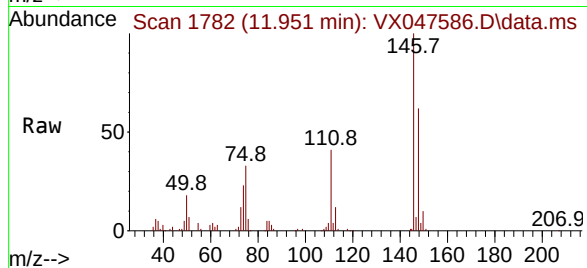
#87
1,3-Dichlorobenzene
Concen: 5.175 ug/l
RT: 11.951 min Scan# 1782
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:146 Resp: 28110
Ion Ratio Lower Upper
146 100
111 43.0 21.5 64.5
148 63.4 32.0 96.0

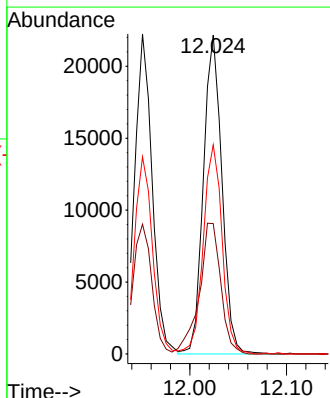
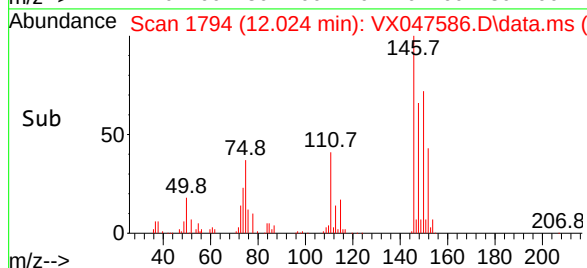
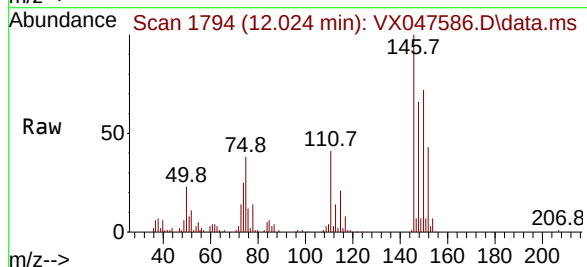
Manual Integrations
APPROVED

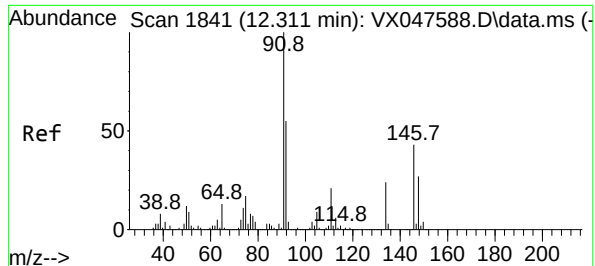
Reviewed By :John Carbone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#88
1,4-Dichlorobenzene
Concen: 5.294 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 29519
Ion Ratio Lower Upper
146 100
111 47.8 20.8 62.4
148 66.9 31.7 95.1





#89

n-Butylbenzene

Concen: 5.159 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

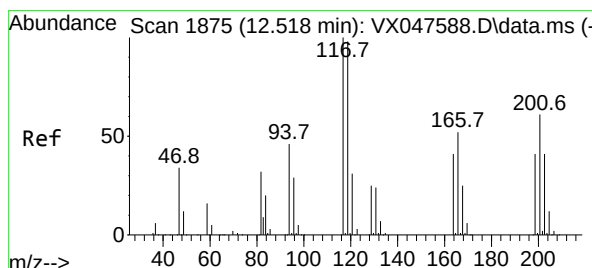
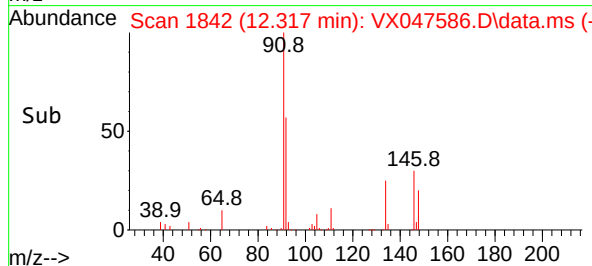
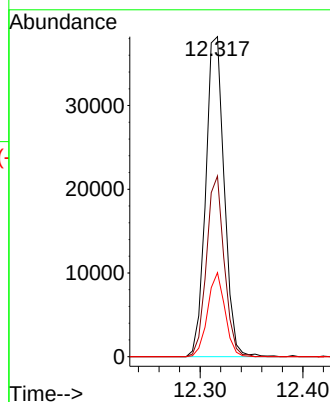
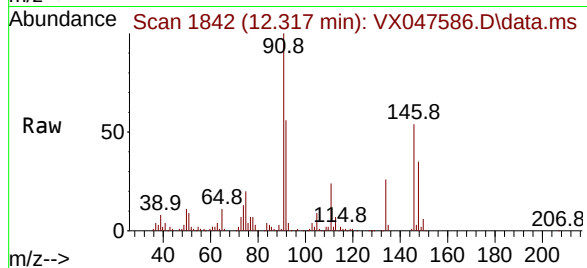
Tgt Ion:	91	Resp:	4795
Ion Ratio	Lower	Upper	
91	100		
92	54.1	27.6	82.7
134	24.6	12.6	37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 5.007 ug/l

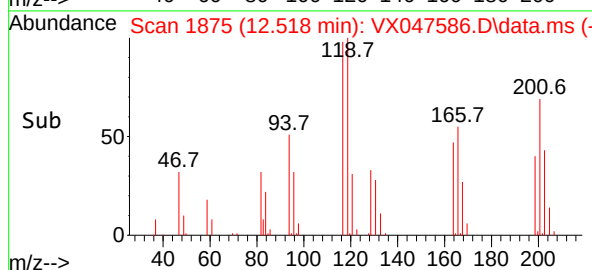
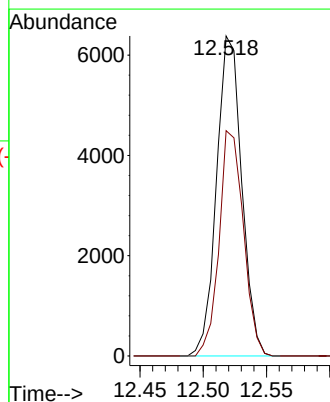
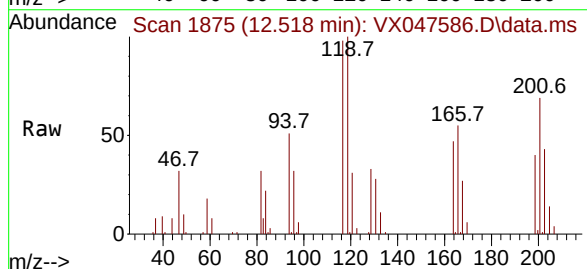
RT: 12.518 min Scan# 1875

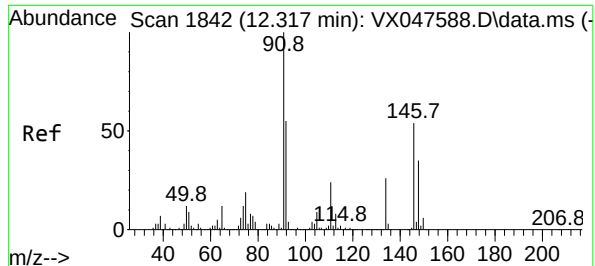
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

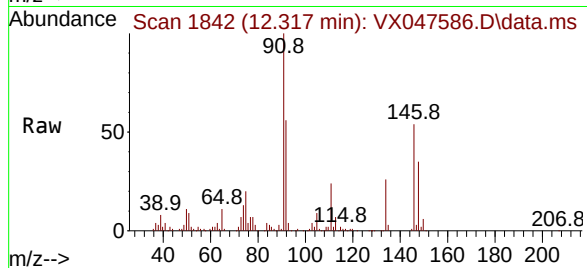
Tgt Ion:	117	Resp:	8830
Ion Ratio	Lower	Upper	
117	100		
201	67.9	34.2	102.5





#91
1,2-Dichlorobenzene
Concen: 5.102 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

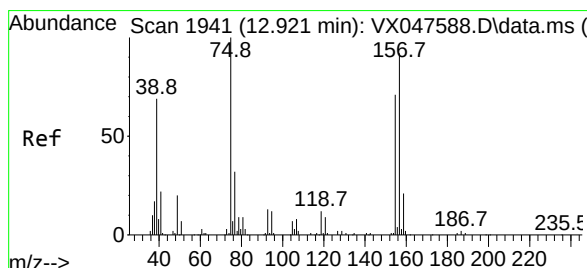
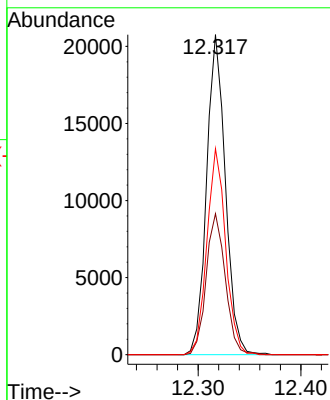
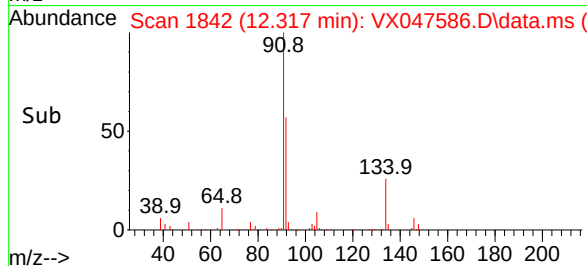
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:146 Resp: 26409
Ion Ratio Lower Upper
146 100
111 44.9 22.2 66.6
148 64.2 31.8 95.4

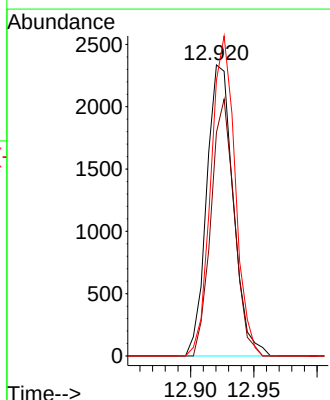
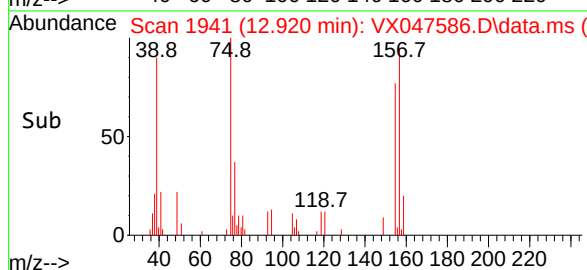
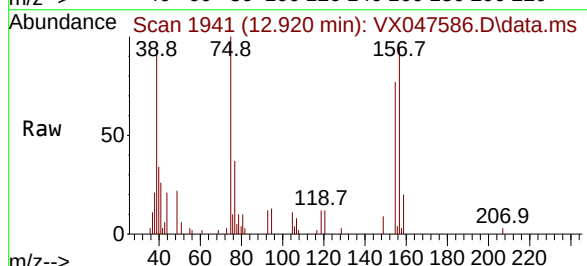
Manual Integrations
APPROVED

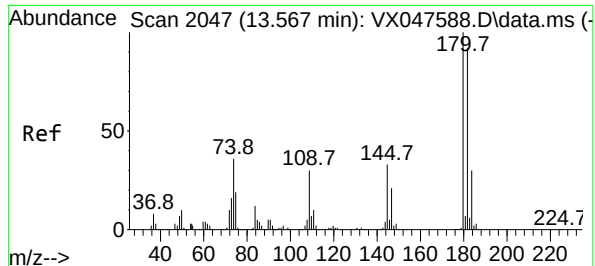
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.690 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 3412
Ion Ratio Lower Upper
75 100
155 77.4 37.7 113.1
157 100.1 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 5.103 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

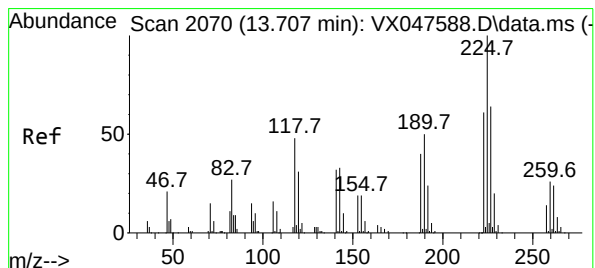
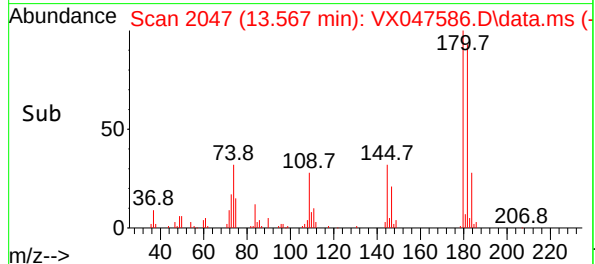
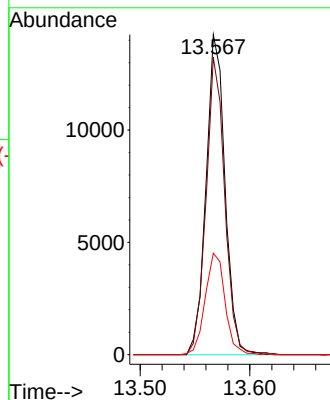
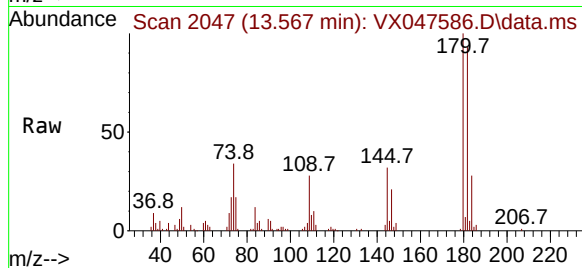
Tgt Ion:	180	Resp:	1716
Ion Ratio	Lower	Upper	
180	100		
182	91.2	46.6	139.8
145	33.2	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 5.158 ug/l

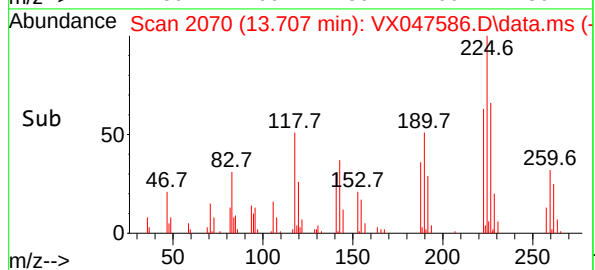
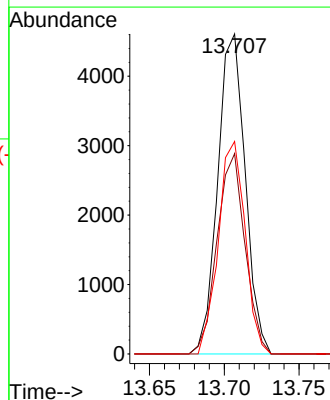
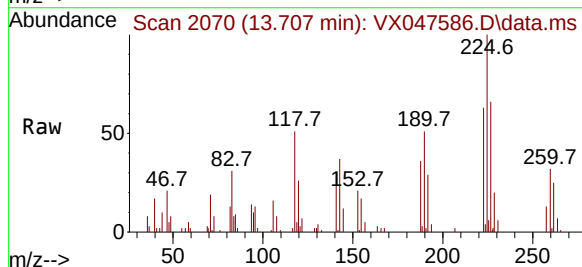
RT: 13.707 min Scan# 2070

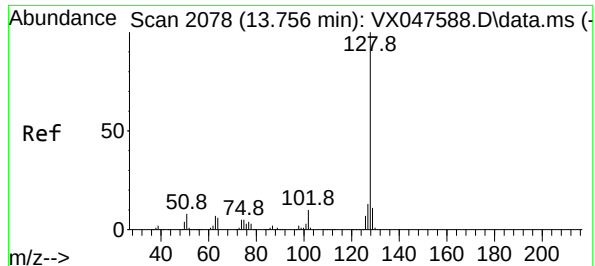
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

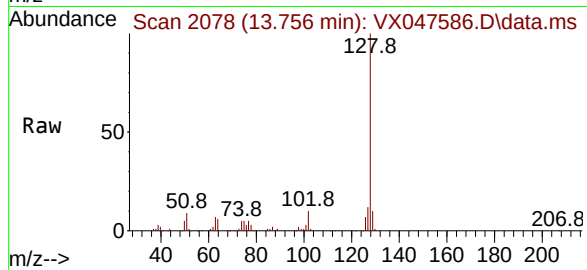
Tgt Ion:	225	Resp:	5894
Ion Ratio	Lower	Upper	
225	100		
223	63.7	31.7	95.1
227	64.7	32.0	96.0





#95
Naphthalene
Concen: 4.808 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

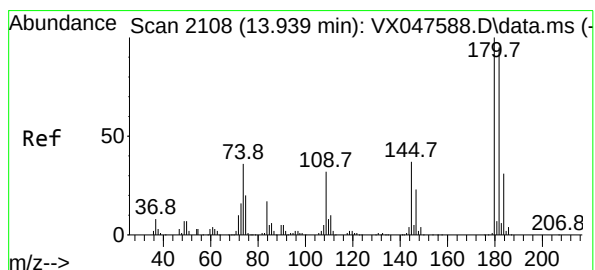
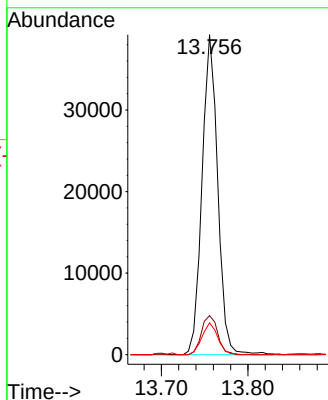
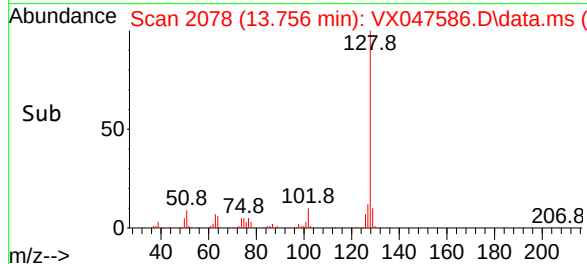
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:128 Resp: 4925
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.1 8.8 13.2

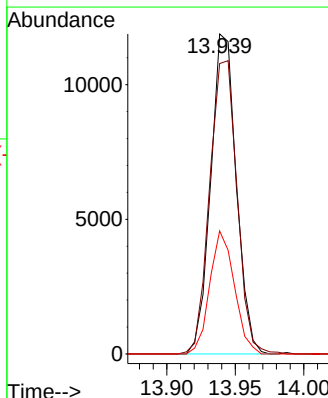
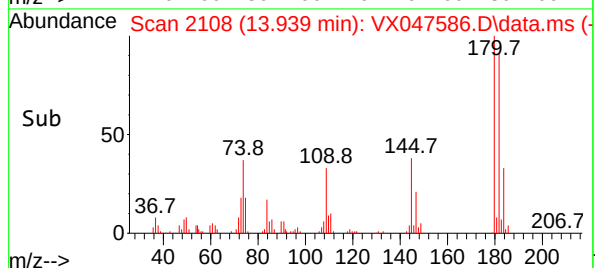
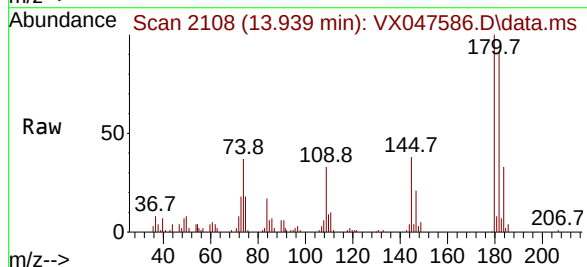
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.921 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:180 Resp: 15400
Ion Ratio Lower Upper
180 100
182 98.0 47.6 142.8
145 37.1 17.9 53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047587.D
 Acq On : 16 Sep 2025 10:37
 Operator : JC/MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	189559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	336287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	49073	16.264	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	32.520%#		
35) Dibromofluoromethane	5.379	113	35788	15.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	31.740%#		
50) Toluene-d8	8.634	98	126875	16.258	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	32.520%#		
62) 4-Bromofluorobenzene	11.067	95	48454	16.360	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	32.720%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	44126	22.480	ug/l	100
3) Chloromethane	1.300	50	56023	21.716	ug/l	96
4) Vinyl Chloride	1.386	62	54256	21.485	ug/l	96
5) Bromomethane	1.617	94	34193	21.353	ug/l	100
6) Chloroethane	1.697	64	35551	21.063	ug/l	97
7) Trichlorofluoromethane	1.898	101	78667	20.980	ug/l	100
8) Diethyl Ether	2.136	74	31335	20.429	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	45733	20.859	ug/l	98
10) Methyl Iodide	2.459	142	69935	20.452	ug/l	99
11) Tert butyl alcohol	2.946	59	32456	96.582	ug/l	98
12) 1,1-Dichloroethene	2.325	96	46863	20.808	ug/l	96
13) Acrolein	2.239	56	26159	84.473	ug/l	100
14) Allyl chloride	2.666	41	94710	20.379	ug/l	97
15) Acrylonitrile	3.062	53	130143	104.554	ug/l	99
16) Acetone	2.373	43	151538	115.507	ug/l	100
17) Carbon Disulfide	2.520	76	133296	21.620	ug/l	98
18) Methyl Acetate	2.703	43	54120	18.536	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	168426	20.486	ug/l	98
20) Methylene Chloride	2.788	84	57153	20.581	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	50413	20.791	ug/l	94
22) Diisopropyl ether	3.757	45	188598	20.940	ug/l	96
23) Vinyl Acetate	3.715	43	765675	106.218	ug/l	100
24) 1,1-Dichloroethane	3.605	63	98509	20.578	ug/l	99
25) 2-Butanone	4.538	43	179487	109.679	ug/l	94
26) 2,2-Dichloropropane	4.471	77	81413	20.459	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	60865	20.497	ug/l	98
28) Bromochloromethane	4.891	49	34085	16.309	ug/l	100
29) Tetrahydrofuran	4.995	42	102935	104.560	ug/l	97
30) Chloroform	5.080	83	103586	21.413	ug/l	99
31) Cyclohexane	5.464	56	82770	20.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	86500	21.081	ug/l	99
36) 1,1-Dichloropropene	5.684	75	68395	20.754	ug/l	99
37) Ethyl Acetate	4.702	43	74499	21.113	ug/l	96
38) Carbon Tetrachloride	5.665	117	74636	20.844	ug/l	95
39) Methylcyclohexane	7.366	83	79499	21.251	ug/l	98
40) Benzene	6.025	78	210711	21.051	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047587.D
 Acq On : 16 Sep 2025 10:37
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	38525	21.148	ug/l	99
42) 1,2-Dichloroethane	6.074	62	80646	21.175	ug/l	99
43) Isopropyl Acetate	6.324	43	119623	20.670	ug/l	100
44) Trichloroethene	7.110	130	51369	21.228	ug/l	97
45) 1,2-Dichloropropane	7.415	63	53046	20.697	ug/l	97
46) Dibromomethane	7.568	93	38910	20.862	ug/l	99
47) Bromodichloromethane	7.805	83	80831	21.002	ug/l	98
48) Methyl methacrylate	7.677	41	60182	20.877	ug/l	98
49) 1,4-Dioxane	7.647	88	12047	413.530	ug/l	95
51) 4-Methyl-2-Pentanone	8.561	43	338370	105.456	ug/l	100
52) Toluene	8.708	92	129193	20.950	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	80972	20.625	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	86648	20.650	ug/l	99
55) 1,1,2-Trichloroethane	9.140	97	49857	20.967	ug/l	98
56) Ethyl methacrylate	9.104	69	79011	21.158	ug/l	99
57) 1,3-Dichloropropane	9.293	76	85511	20.934	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	141395	86.617	ug/l	100
59) 2-Hexanone	9.415	43	250007	108.488	ug/l	99
60) Dibromochloromethane	9.506	129	57994	21.167	ug/l	99
61) 1,2-Dibromoethane	9.598	107	51614	21.310	ug/l	99
64) Tetrachloroethene	9.262	164	40840	20.979	ug/l	95
65) Chlorobenzene	10.061	112	140642	20.731	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.146	131	48022	20.513	ug/l	99
67) Ethyl Benzene	10.177	91	244737	20.907	ug/l	98
68) m/p-Xylenes	10.287	106	182778	41.951	ug/l	100
69) o-Xylene	10.628	106	87651	20.799	ug/l	98
70) Styrene	10.640	104	154077	20.866	ug/l	99
71) Bromoform	10.780	173	35922	20.550	ug/l #	98
73) Isopropylbenzene	10.945	105	225730	20.970	ug/l	99
74) N-amyl acetate	10.829	43	104823	21.354	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	68132	20.920	ug/l	99
76) 1,2,3-Trichloropropane	11.225	75	60797m	20.680	ug/l	
77) Bromobenzene	11.183	156	56161	21.183	ug/l	99
78) n-propylbenzene	11.286	91	268399	21.092	ug/l	100
79) 2-Chlorotoluene	11.347	91	166237	21.329	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	187513	21.202	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	21553	19.173	ug/l	96
82) 4-Chlorotoluene	11.439	91	193122	20.980	ug/l	100
83) tert-Butylbenzene	11.695	119	189484	20.929	ug/l	100
84) 1,2,4-Trimethylbenzene	11.738	105	191477	21.355	ug/l	98
85) sec-Butylbenzene	11.872	105	223434	20.777	ug/l	100
86) p-Isopropyltoluene	11.994	119	190931	20.972	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	103584	21.035	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	105819	20.937	ug/l	99
89) n-Butylbenzene	12.317	91	176373	20.937	ug/l	99
90) Hexachloroethane	12.518	117	32526	20.349	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	99493	21.207	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	13729	20.821	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	62722	20.571	ug/l	96
94) Hexachlorobutadiene	13.707	225	20456	19.751	ug/l	98
95) Naphthalene	13.756	128	193134	20.801	ug/l	99
96) 1,2,3-Trichlorobenzene	13.938	180	58409	20.593	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

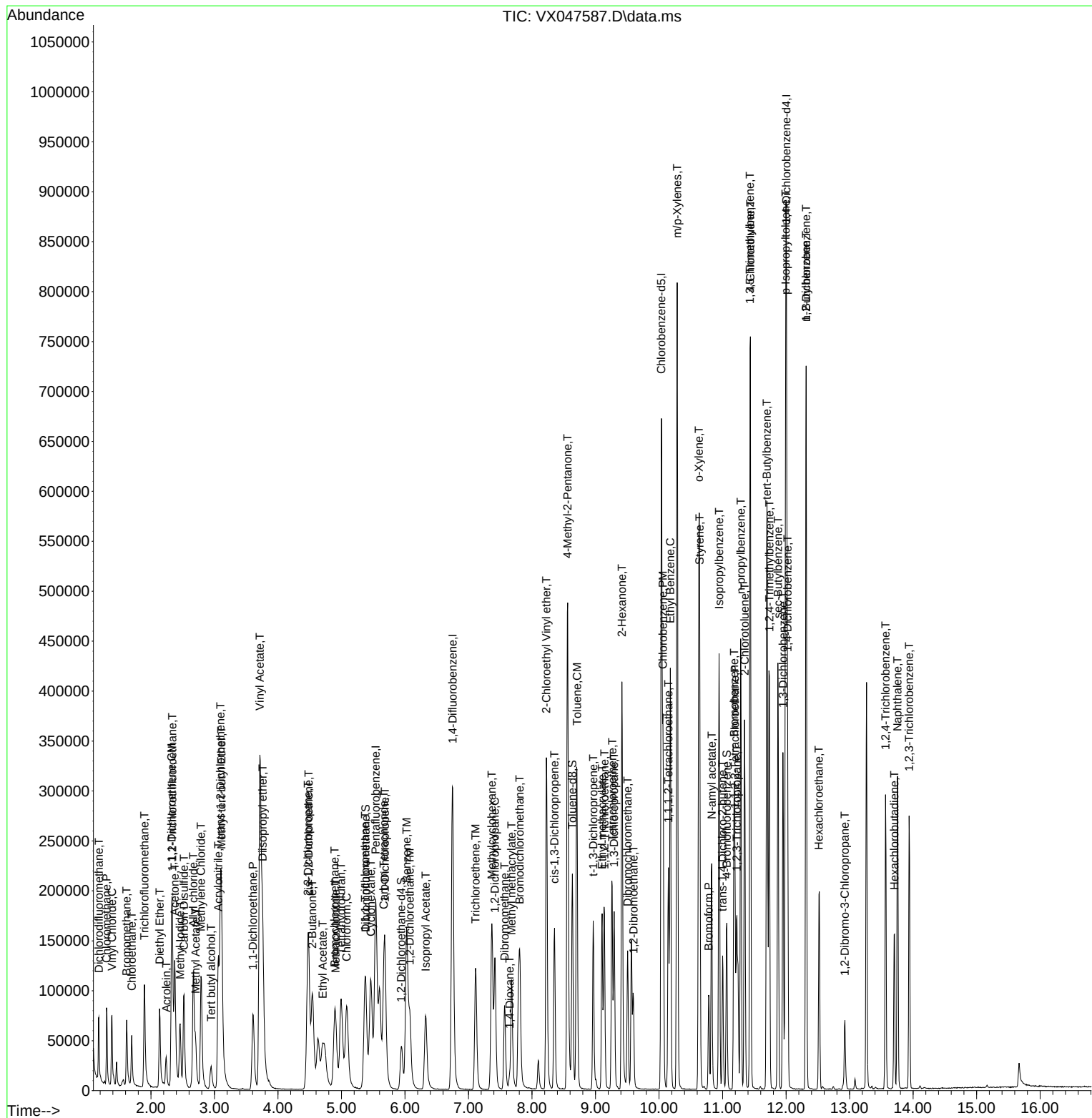
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

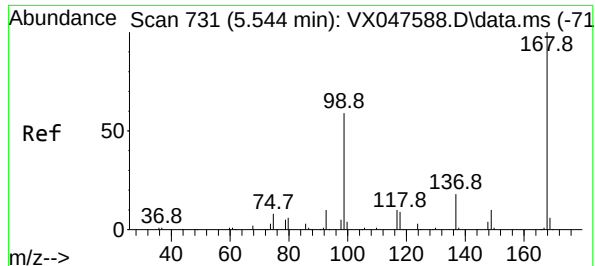
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations

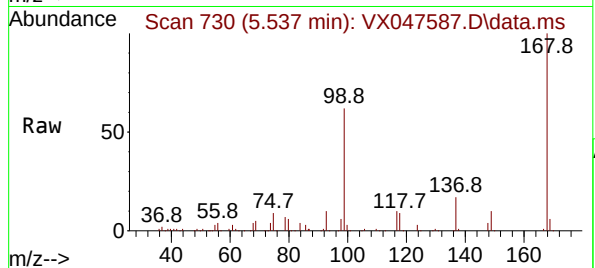
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

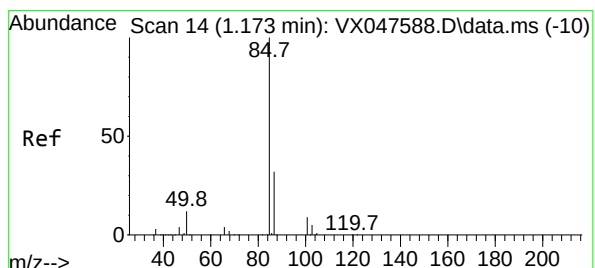
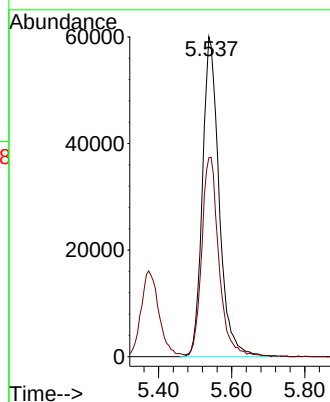
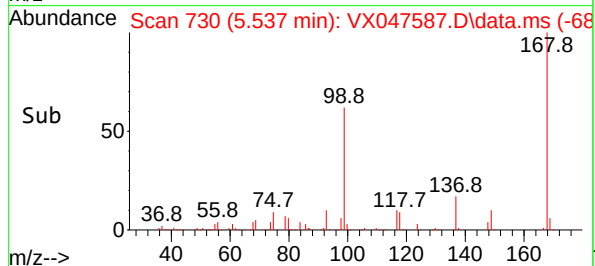
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:168 Resp: 18955
Ion Ratio Lower Upper
168 100
99 61.9 48.8 73.2

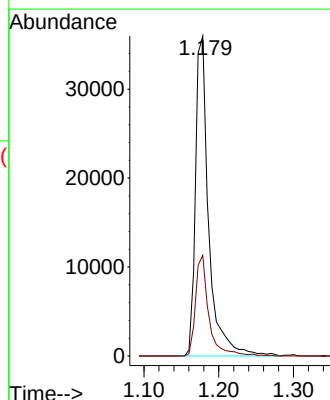
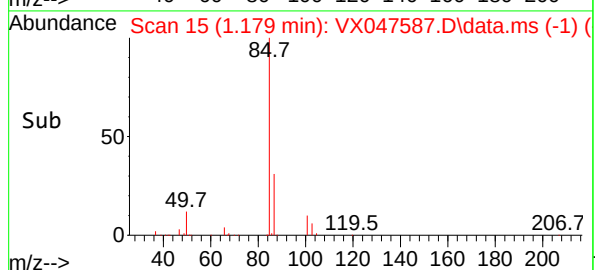
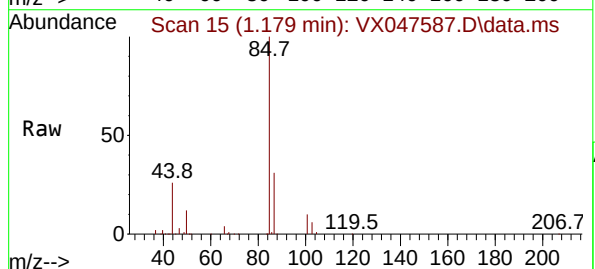
Manual Integrations
APPROVED

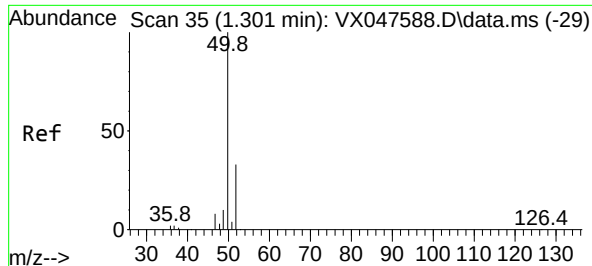
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 22.480 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 85 Resp: 44126
Ion Ratio Lower Upper
85 100
87 31.5 15.8 47.3





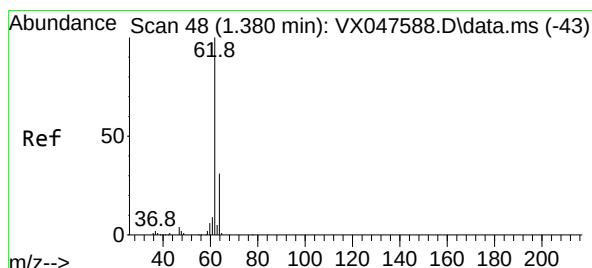
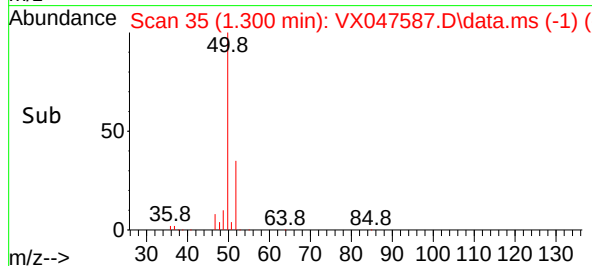
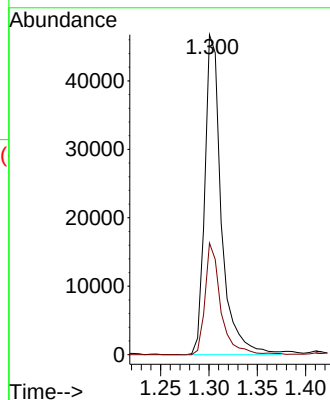
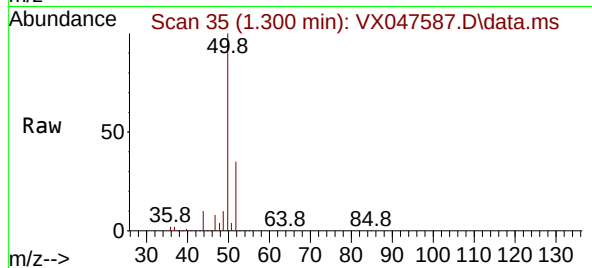
#3
Chloromethane
Concen: 21.716 ug/l
RT: 1.300 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion: 50 Resp: 5602
Ion Ratio Lower Upper
50 100
52 34.9 26.1 39.1

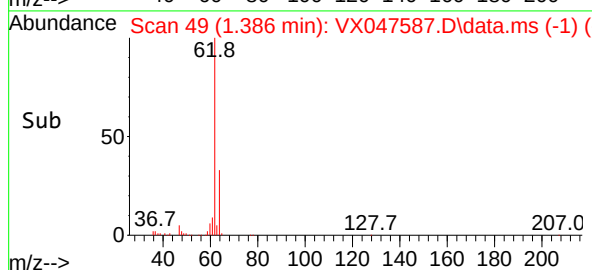
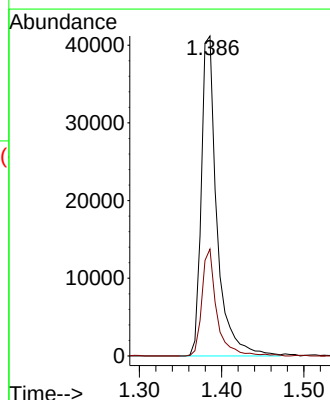
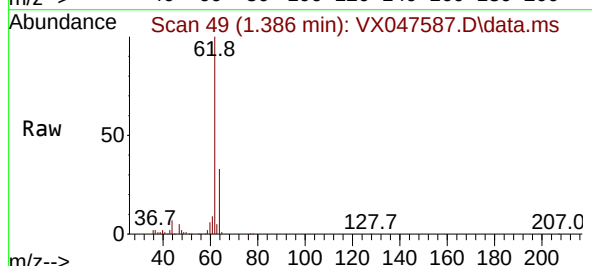
Manual Integrations
APPROVED

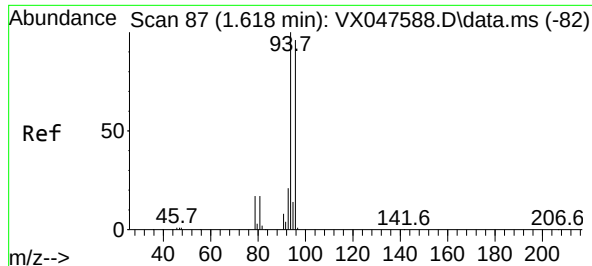
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 21.485 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

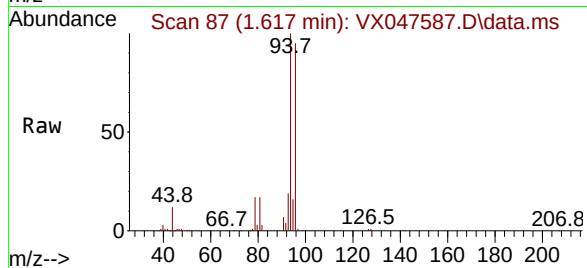
Tgt Ion: 62 Resp: 54256
Ion Ratio Lower Upper
62 100
64 33.4 24.9 37.3





#5
Bromomethane
Concen: 21.353 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

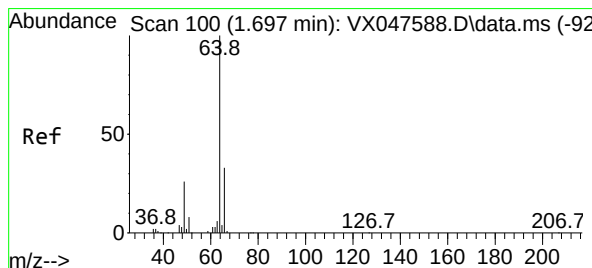
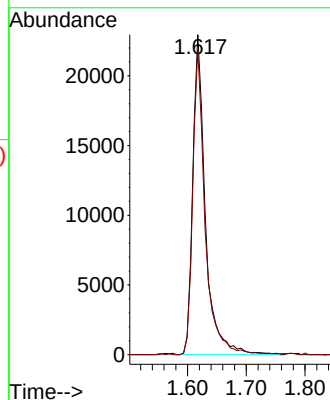
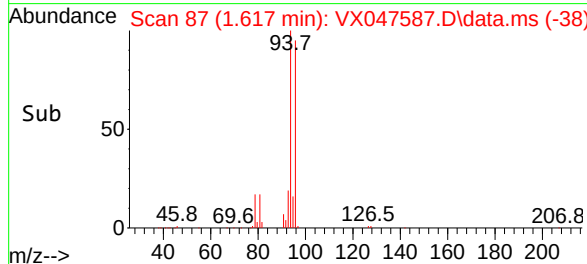
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 94 Resp: 3419
Ion Ratio Lower Upper
94 100
96 95.3 76.6 115.0

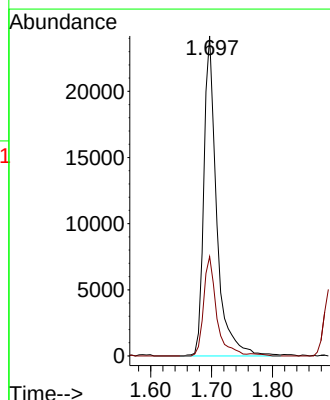
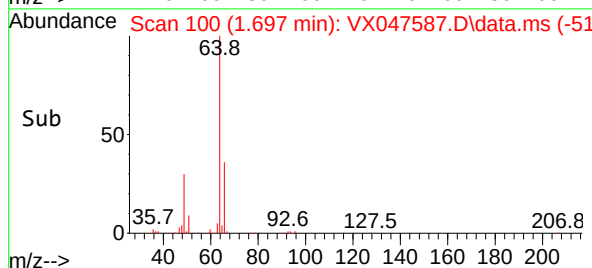
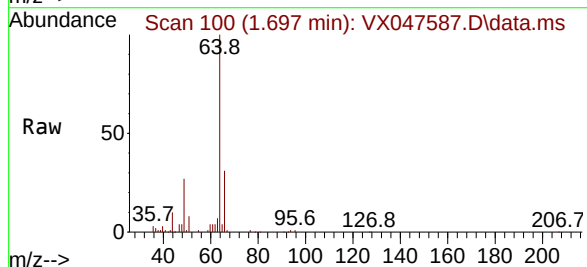
Manual Integrations
APPROVED

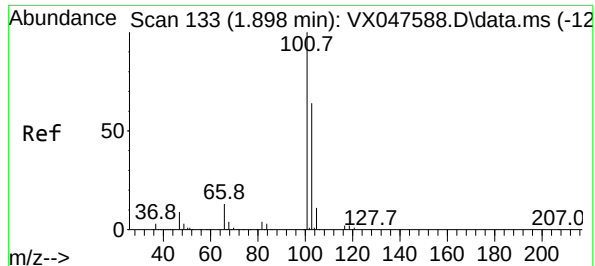
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 21.063 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

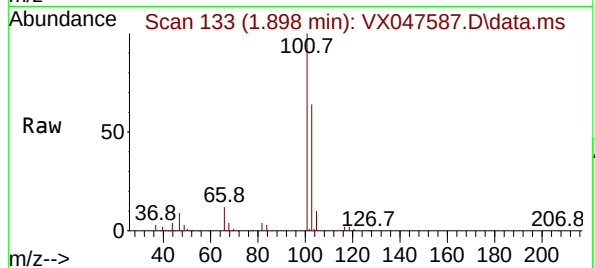
Tgt Ion: 64 Resp: 35551
Ion Ratio Lower Upper
64 100
66 31.0 26.1 39.1





#7
Trichlorofluoromethane
Concen: 20.980 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

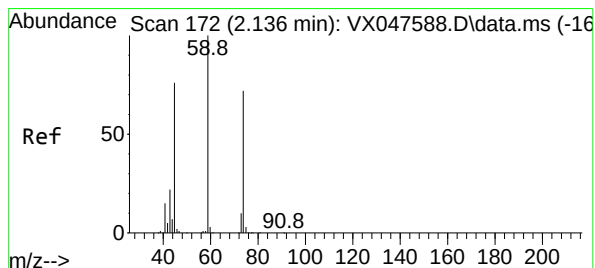
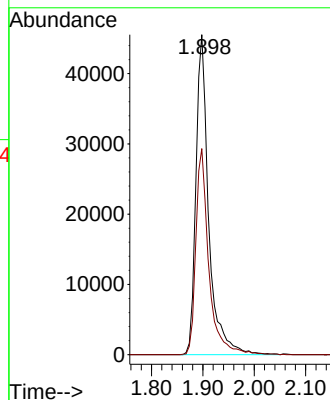
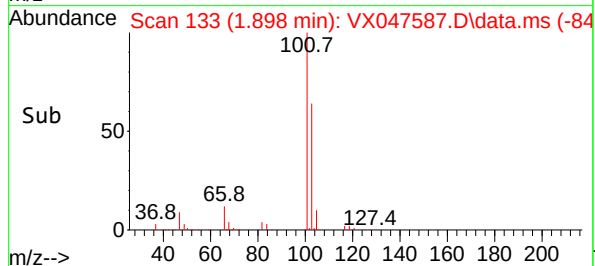
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:101 Resp: 7866
Ion Ratio Lower Upper
101 100
103 64.4 51.4 77.2

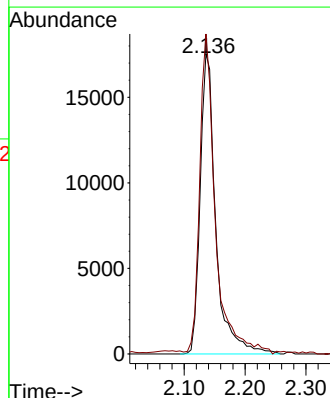
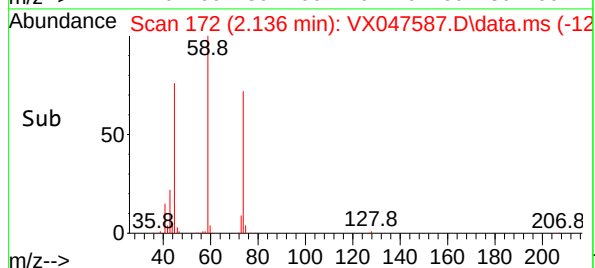
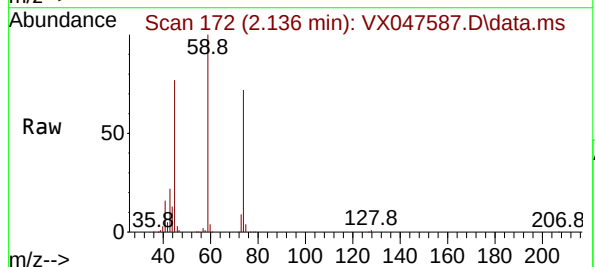
Manual Integrations
APPROVED

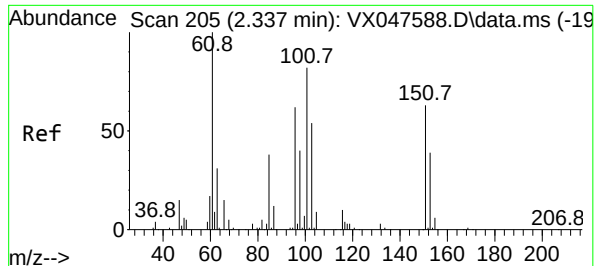
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 20.429 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 74 Resp: 31335
Ion Ratio Lower Upper
74 100
45 107.0 52.3 156.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.859 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

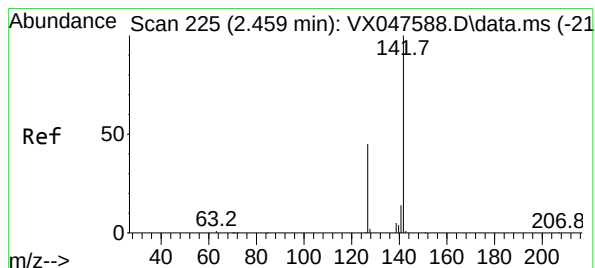
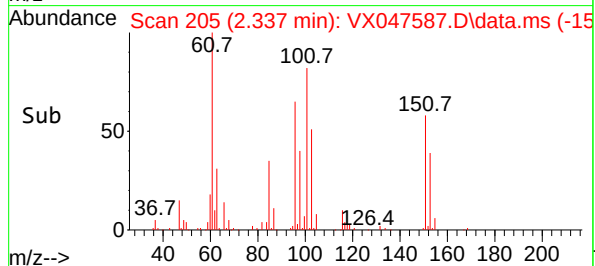
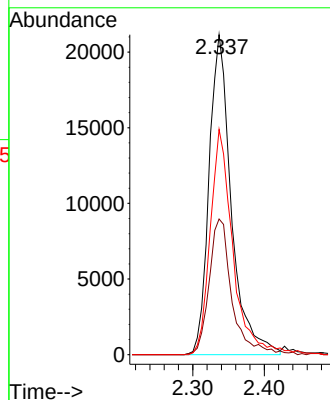
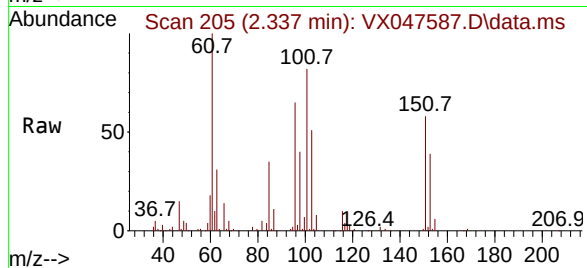
Tgt Ion:	101	Resp:	4573
Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	72.1	59.4	89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#10

Methyl Iodide

Concen: 20.452 ug/l

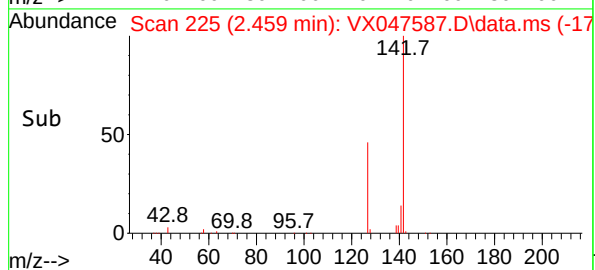
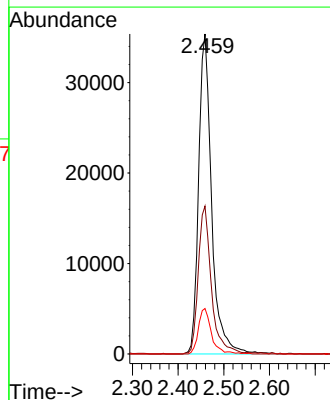
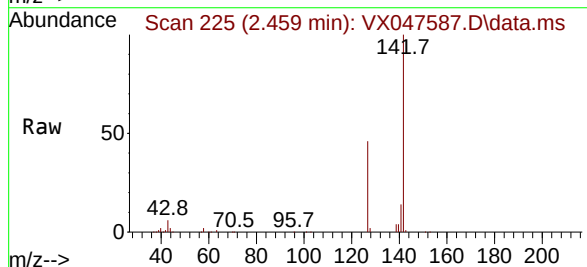
RT: 2.459 min Scan# 225

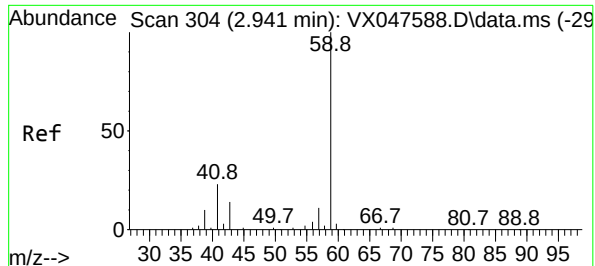
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	142	Resp:	69935
Ion	Ratio	Lower	Upper
142	100		
127	46.9	37.2	55.8
141	14.3	11.4	17.0





#11

Tert butyl alcohol

Concen: 96.582 ug/l

RT: 2.946 min Scan# 304

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 32450

Ion Ratio Lower Upper

59 100

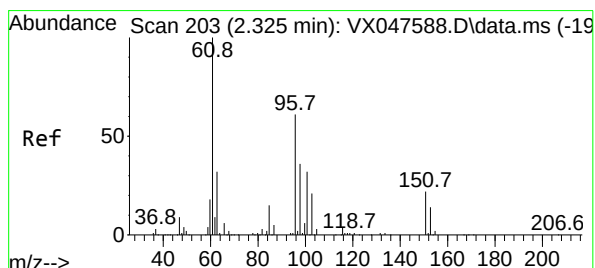
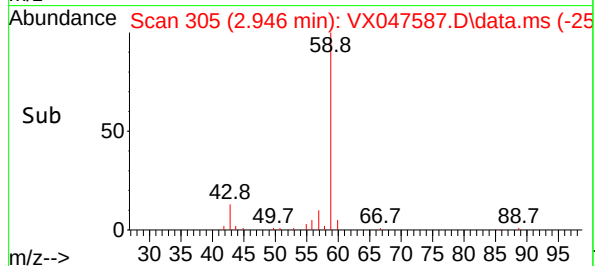
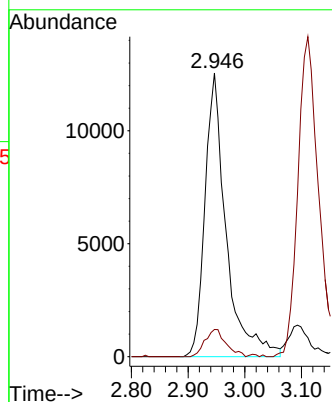
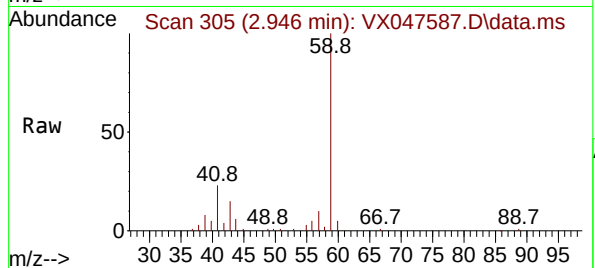
57 9.5 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 20.808 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

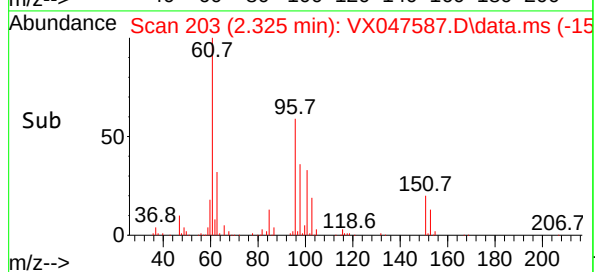
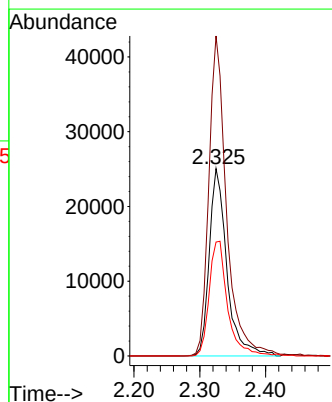
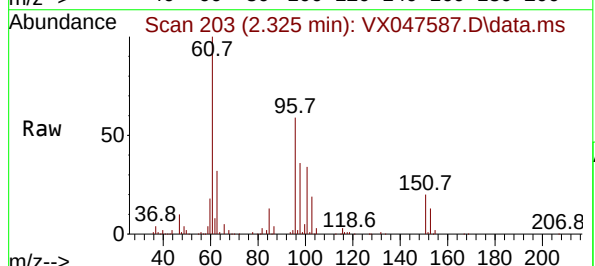
Tgt Ion: 96 Resp: 46863

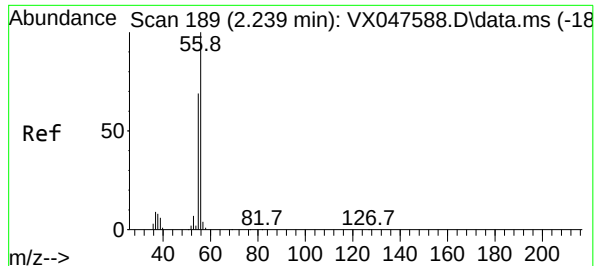
Ion Ratio Lower Upper

96 100

61 170.7 131.0 196.6

98 60.8 47.7 71.5





#13

Acrolein

Concen: 84.473 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 2615

Ion Ratio Lower Upper

56 100

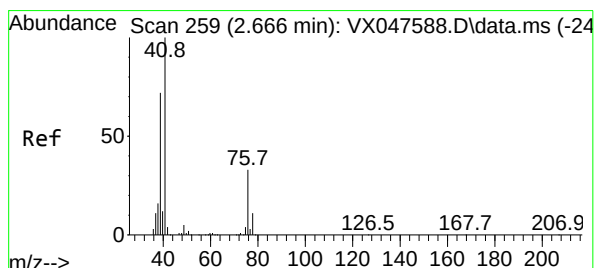
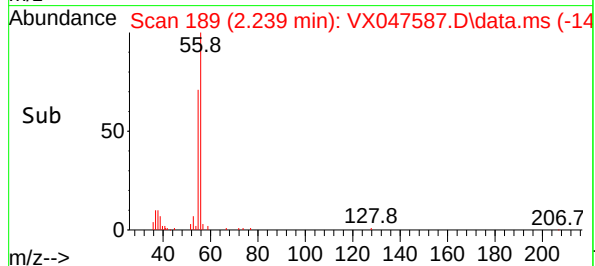
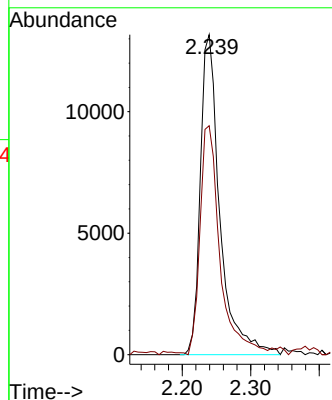
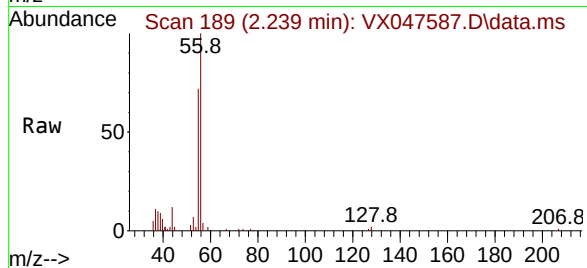
55 71.5 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 20.379 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

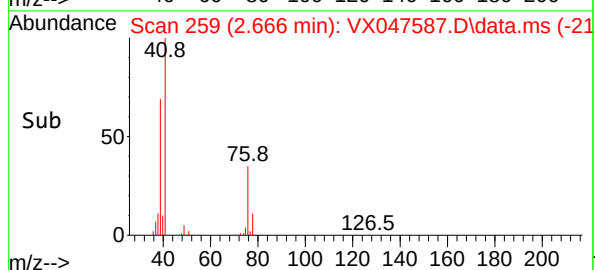
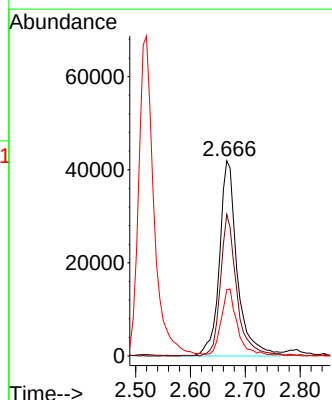
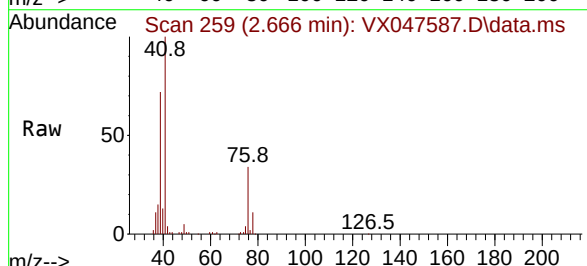
Tgt Ion: 41 Resp: 94710

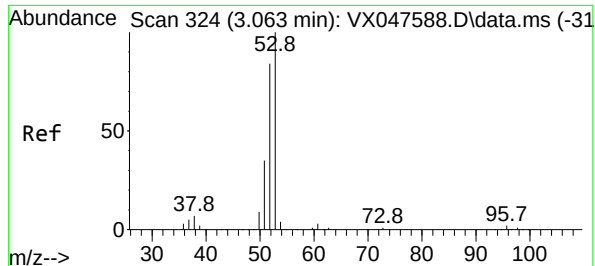
Ion Ratio Lower Upper

41 100

39 65.5 54.7 82.1

76 30.3 25.7 38.5





#15

Acrylonitrile

Concen: 104.554 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 53 Resp: 13014

Ion Ratio Lower Upper

53 100

52 82.3 66.4 99.6

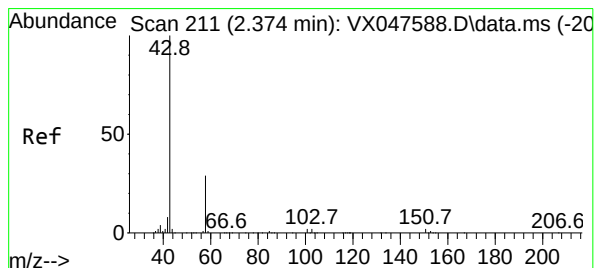
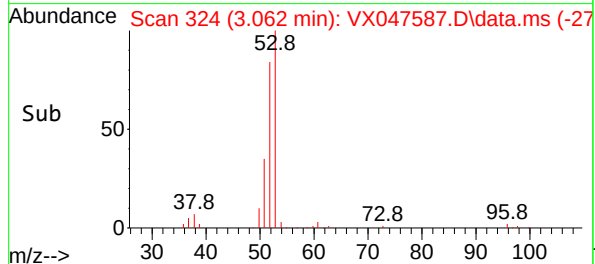
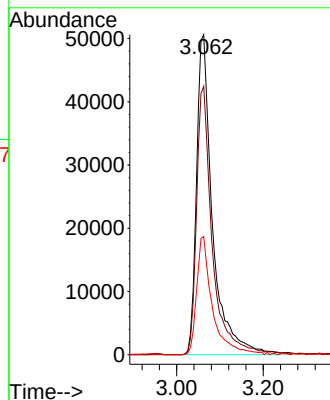
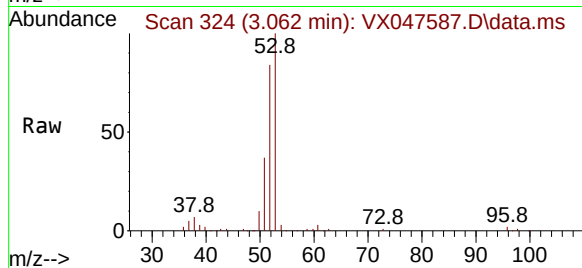
51 36.2 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 115.507 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX047587.D

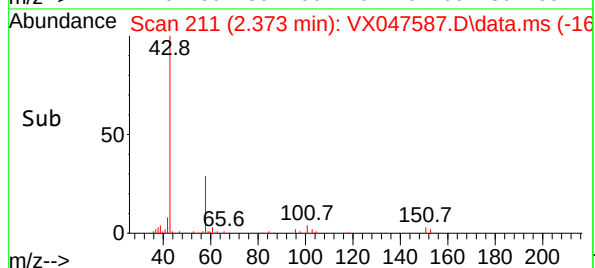
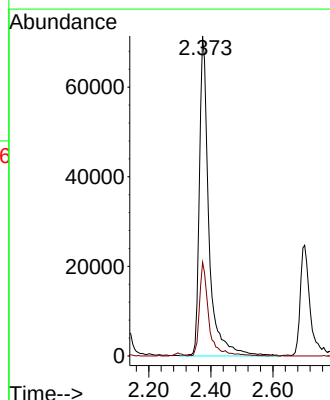
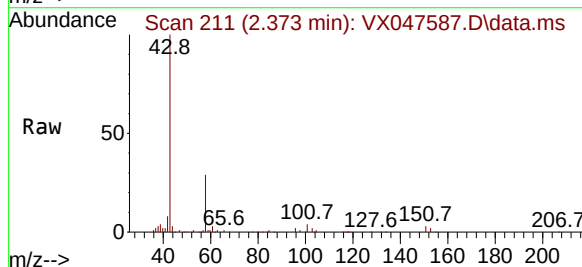
Acq: 16 Sep 2025 10:37

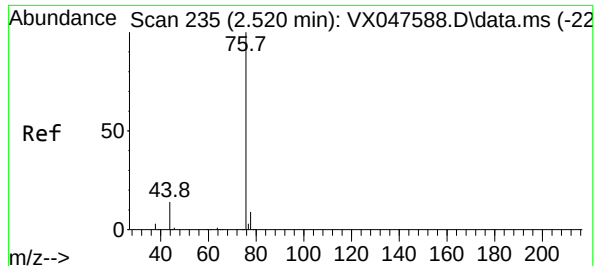
Tgt Ion: 43 Resp: 151538

Ion Ratio Lower Upper

43 100

58 29.3 23.4 35.0





#17

Carbon Disulfide

Concen: 21.620 ug/l

RT: 2.520 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 133290

Ion Ratio Lower Upper

76 100

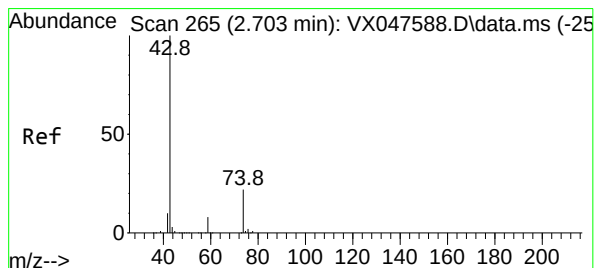
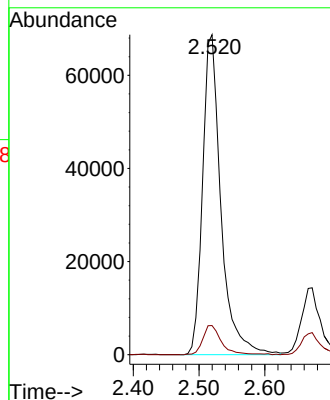
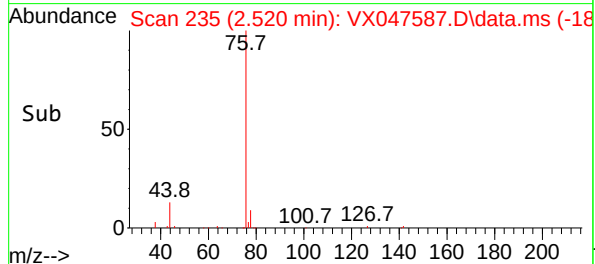
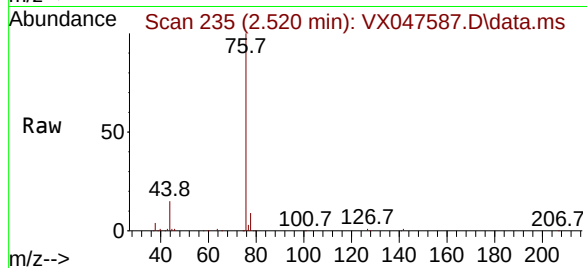
78 9.1 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 18.536 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX047587.D

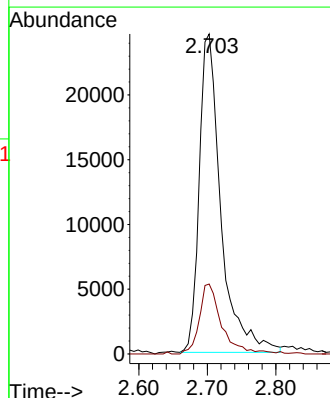
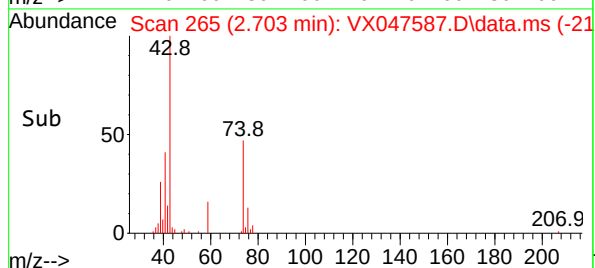
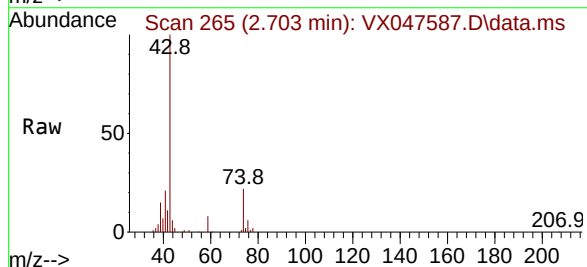
Acq: 16 Sep 2025 10:37

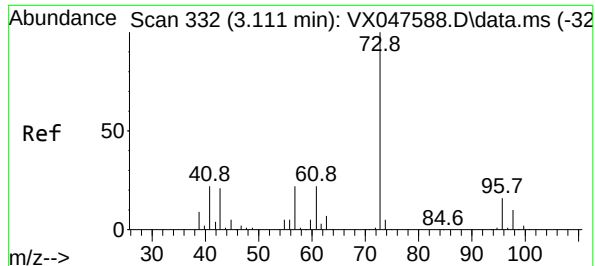
Tgt Ion: 43 Resp: 54120

Ion Ratio Lower Upper

43 100

74 22.7 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 20.486 ug/l

RT: 3.111 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 168420

Ion Ratio Lower Upper

73 100

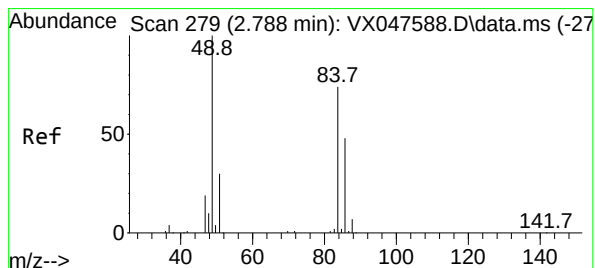
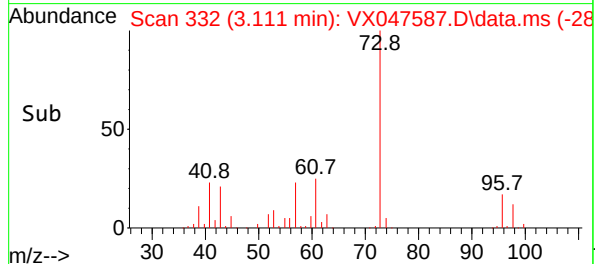
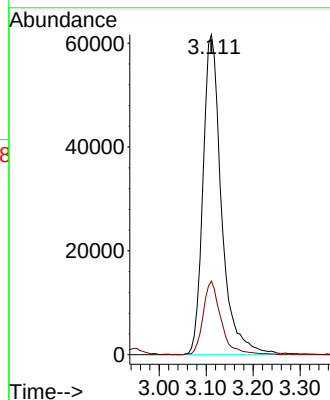
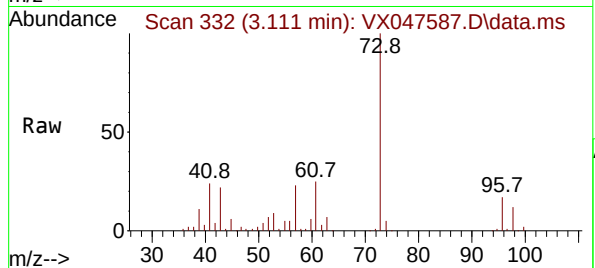
57 23.0 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 20.581 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion: 84 Resp: 57153

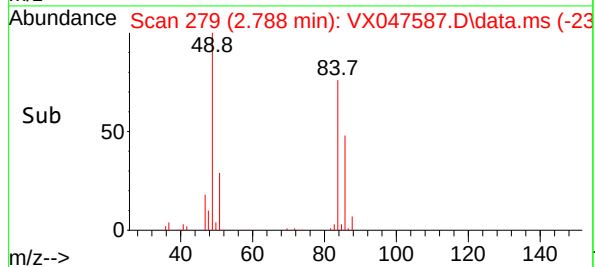
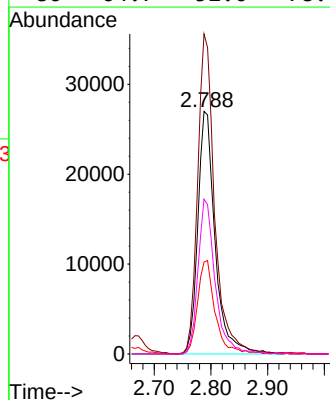
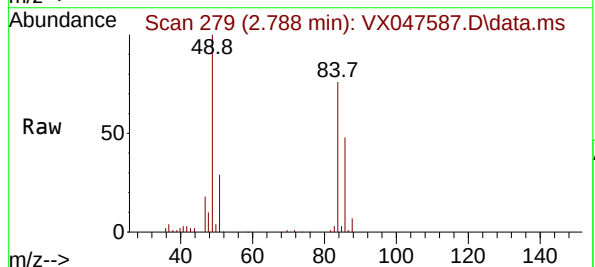
Ion Ratio Lower Upper

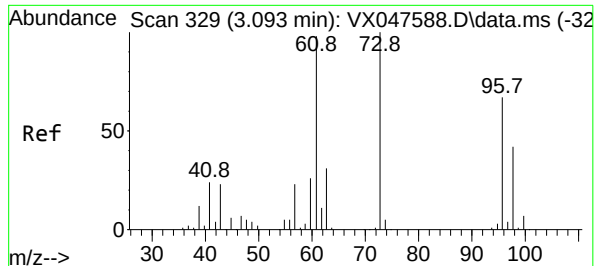
84 100

49 131.7 108.6 162.8

51 37.9 32.6 48.8

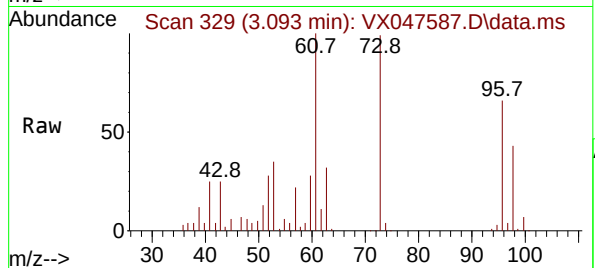
86 64.7 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 20.791 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

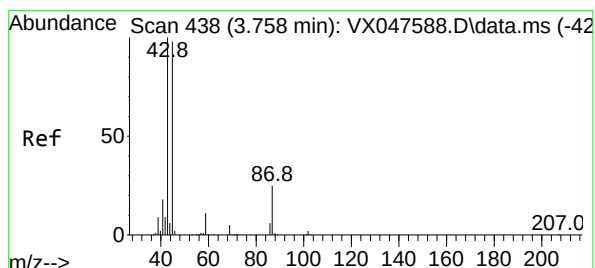
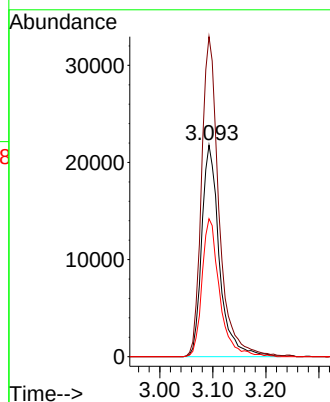
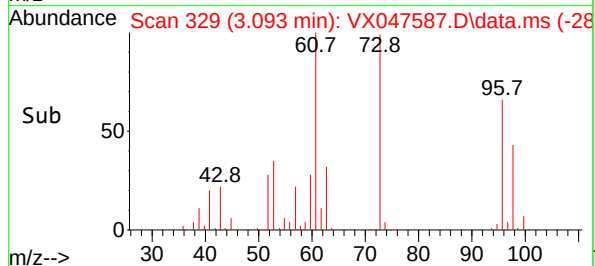
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 96 Resp: 5041
Ion Ratio Lower Upper
96 100
61 151.3 116.2 174.2
98 67.2 49.3 73.9

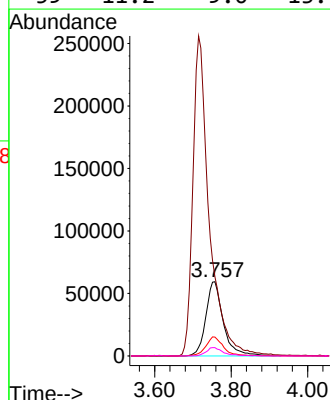
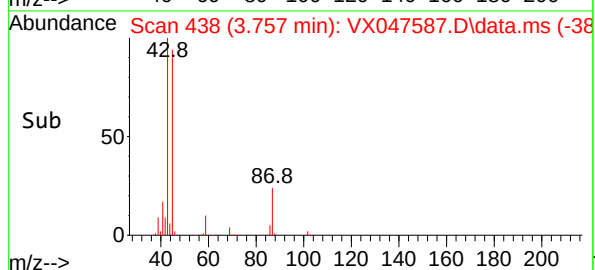
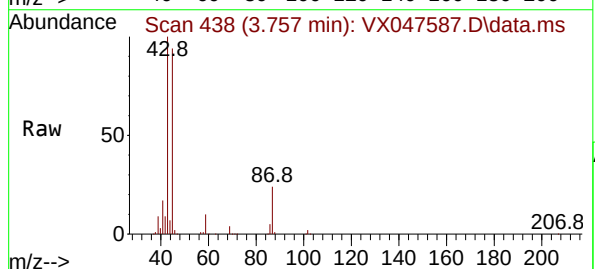
Manual Integrations
APPROVED

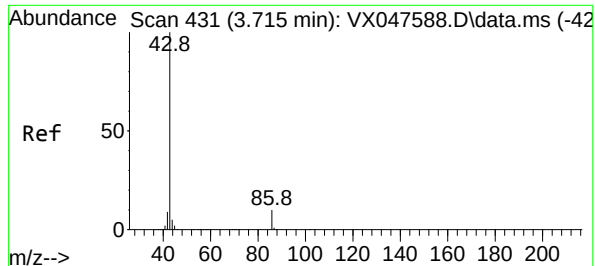
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 20.940 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

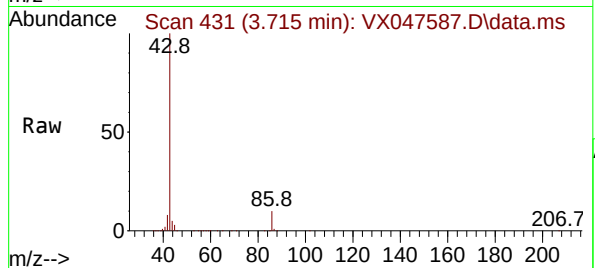
Tgt Ion: 45 Resp: 188598
Ion Ratio Lower Upper
45 100
43 106.1 81.0 121.4
87 25.5 20.3 30.5
59 11.2 9.0 13.4





#23
Vinyl Acetate
Concen: 106.218 ug/l
RT: 3.715 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

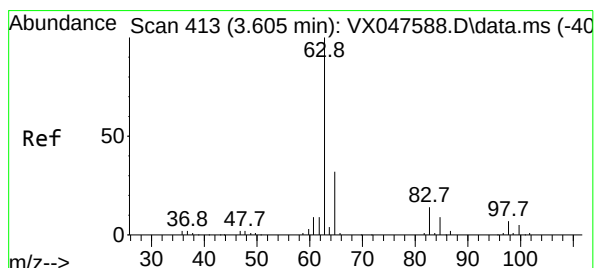
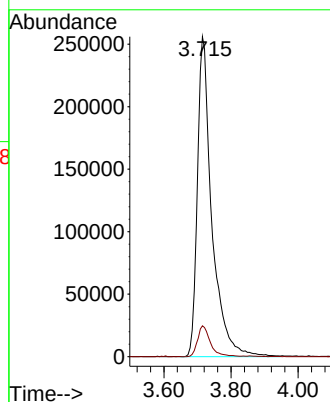
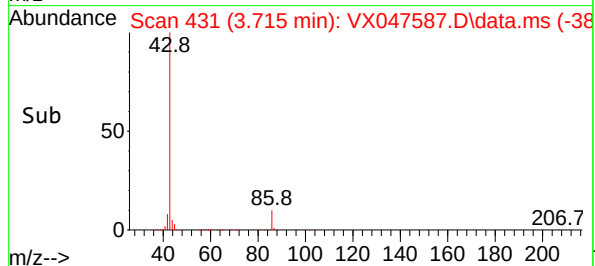
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 765679
Ion Ratio Lower Upper
43 100
86 9.6 7.8 11.8

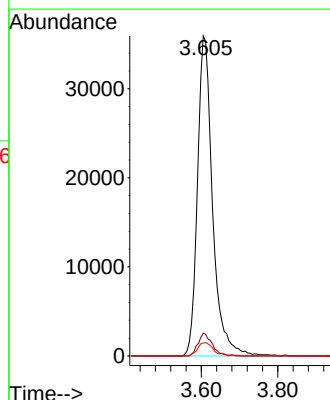
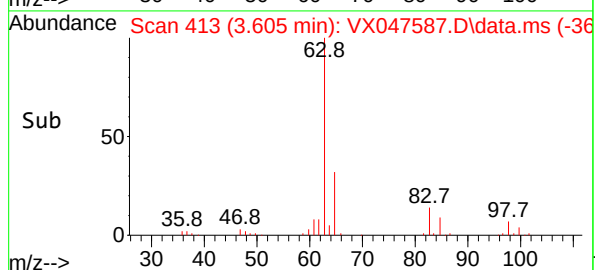
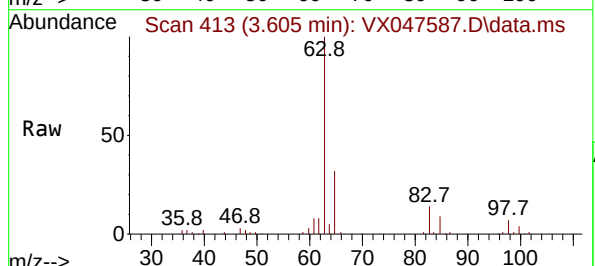
Manual Integrations
APPROVED

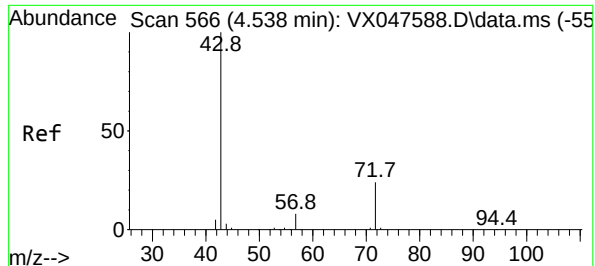
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#24
1,1-Dichloroethane
Concen: 20.578 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 98509
Ion Ratio Lower Upper
63 100
98 7.1 3.8 11.2
100 4.1 2.3 6.9





#25

2-Butanone

Concen: 109.679 ug/l

RT: 4.538 min Scan# 566

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 17948

Ion Ratio Lower Upper

43 100

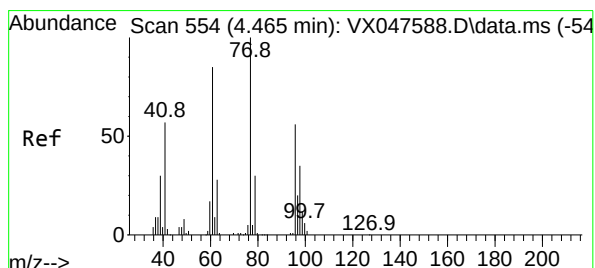
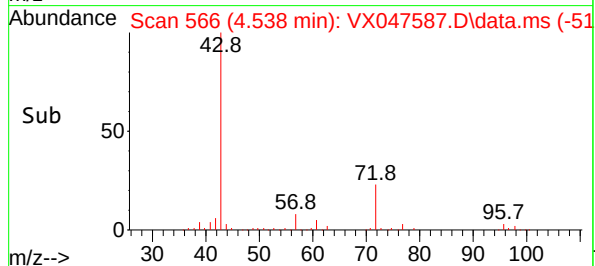
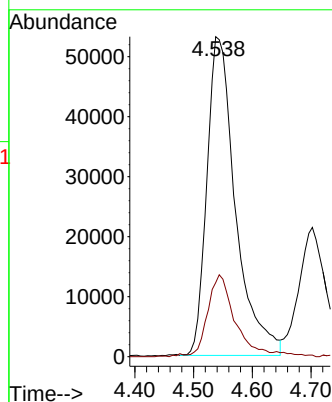
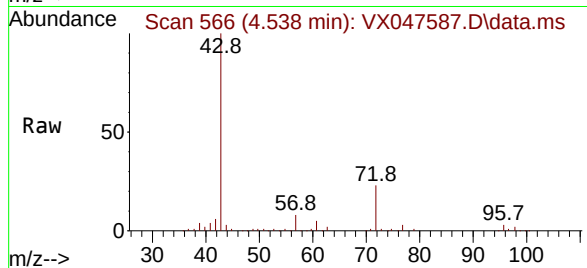
72 22.3 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 20.459 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX047587.D

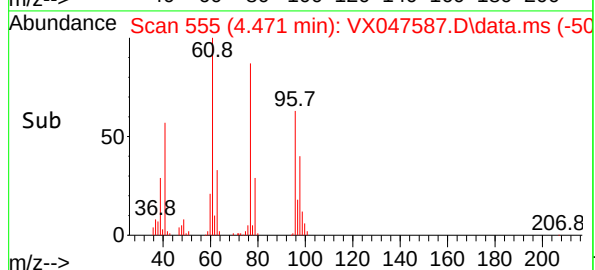
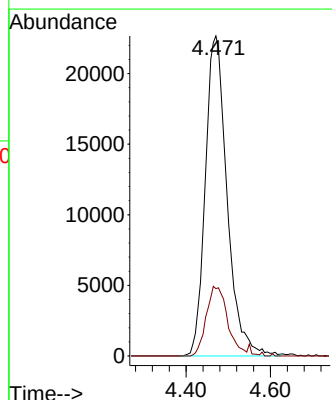
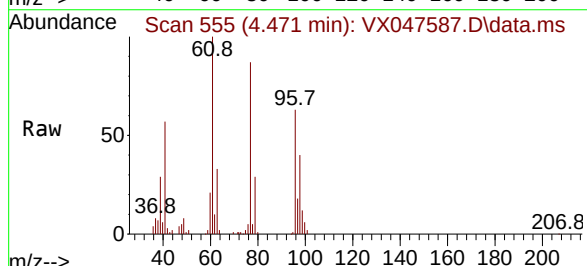
Acq: 16 Sep 2025 10:37

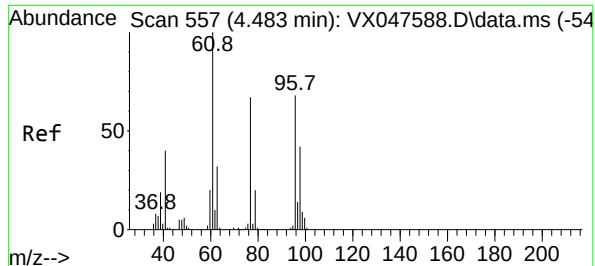
Tgt Ion: 77 Resp: 81413

Ion Ratio Lower Upper

77 100

97 21.2 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 20.497 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 6086

Ion Ratio Lower Upper

96 100

61 154.8 0.0 303.2

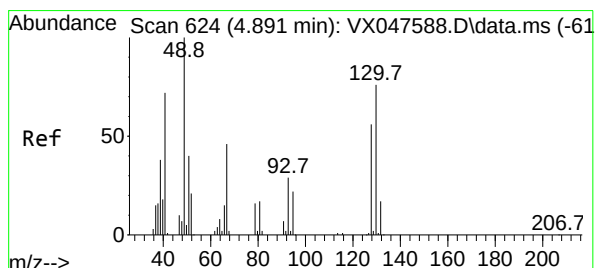
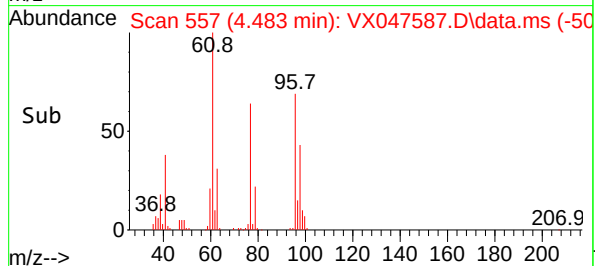
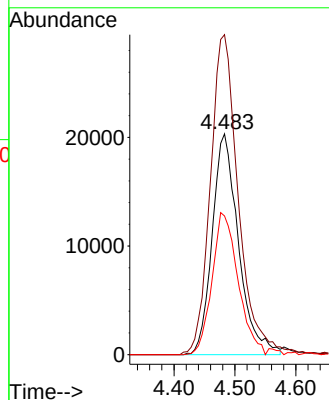
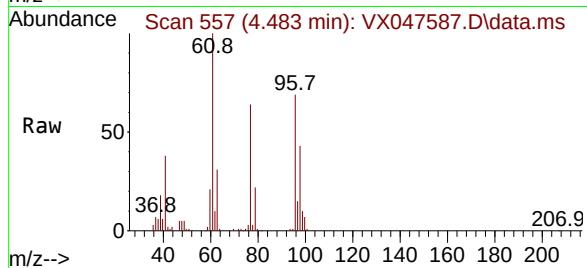
98 63.7 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 16.309 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

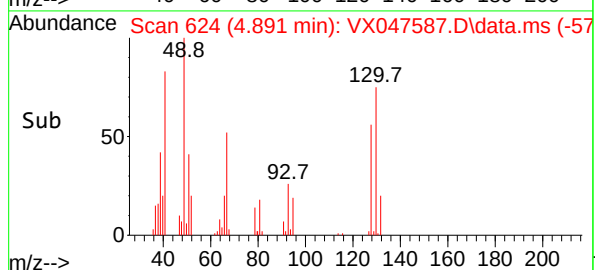
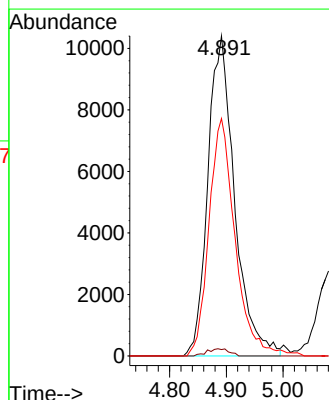
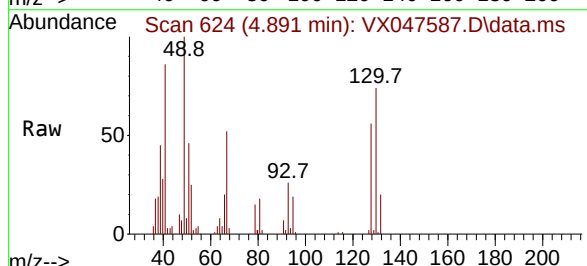
Tgt Ion: 49 Resp: 34085

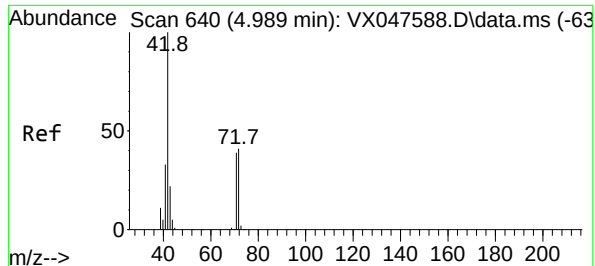
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.2

130 72.7 57.8 86.8





#29

Tetrahydrofuran

Concen: 104.560 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.006 min

Lab File: VX047587.D

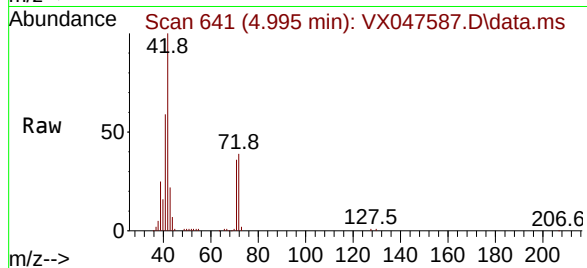
Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020



Tgt Ion: 42 Resp: 102935

Ion Ratio Lower Upper

42 100

72 41.5 34.2 51.2

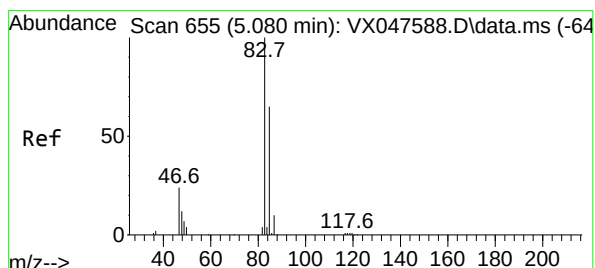
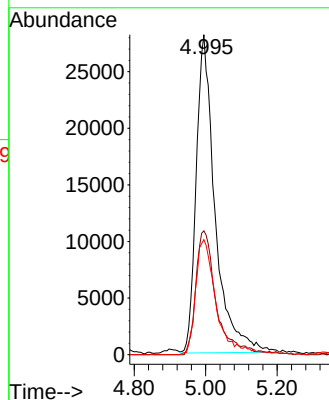
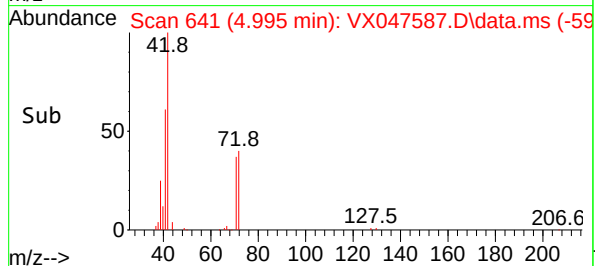
71 37.8 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 21.413 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.000 min

Lab File: VX047587.D

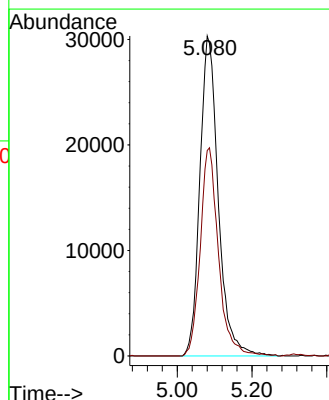
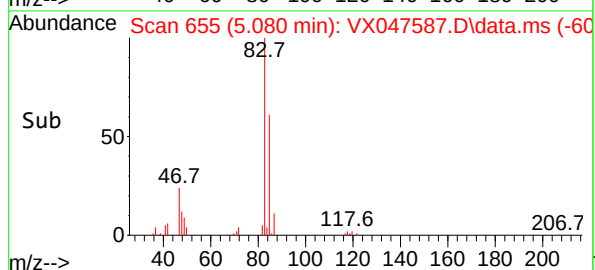
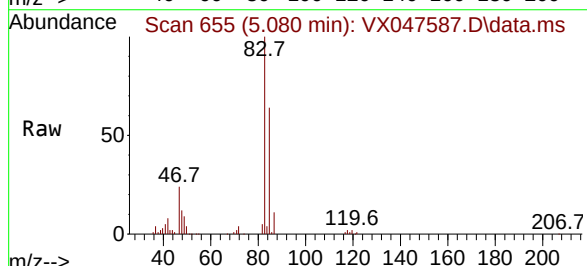
Acq: 16 Sep 2025 10:37

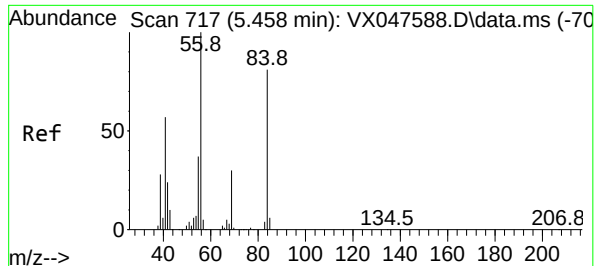
Tgt Ion: 83 Resp: 103586

Ion Ratio Lower Upper

83 100

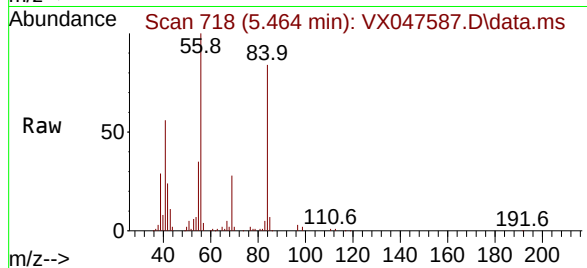
85 64.2 51.8 77.6





#31
Cyclohexane
Concen: 20.759 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

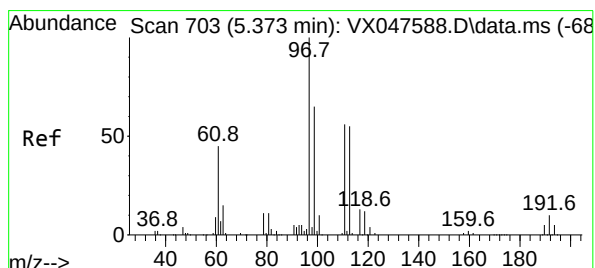
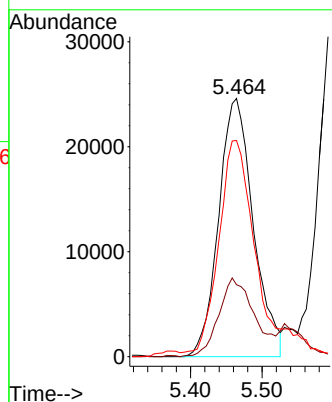
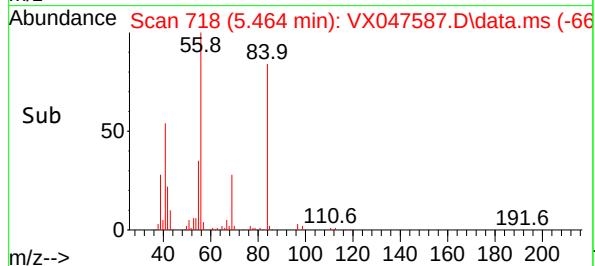
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion: 56 Resp: 82770
Ion Ratio Lower Upper
56 100
69 27.9 23.8 35.8
84 82.2 64.6 97.0

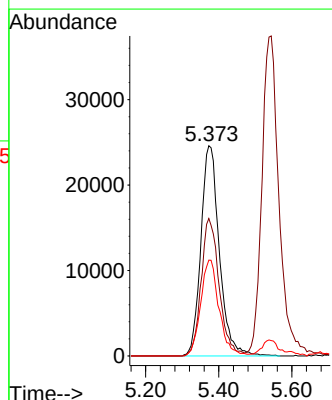
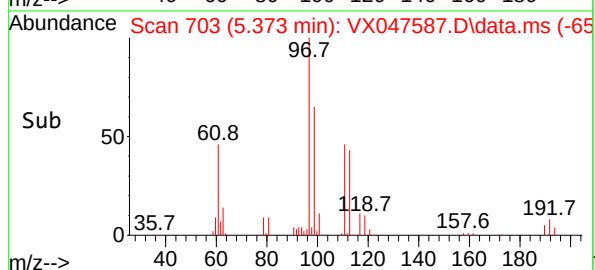
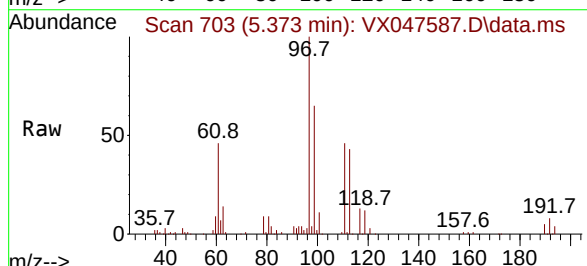
Manual Integrations
APPROVED

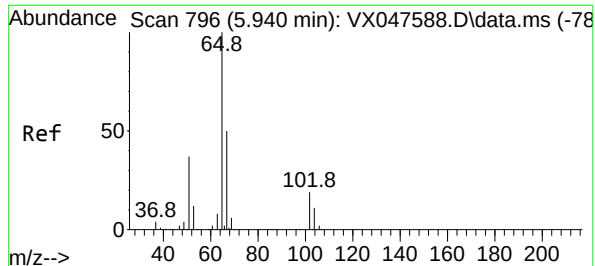
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#32
1,1,1-Trichloroethane
Concen: 21.081 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 97 Resp: 86500
Ion Ratio Lower Upper
97 100
99 63.5 50.6 76.0
61 45.5 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 16.264 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 4907

Ion Ratio Lower Upper

65 100

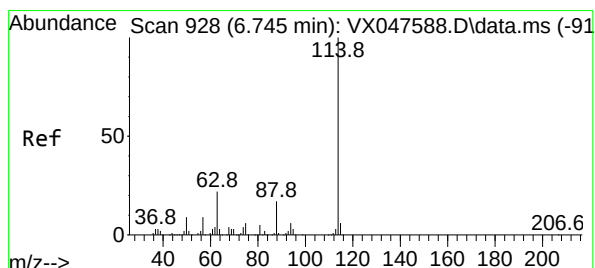
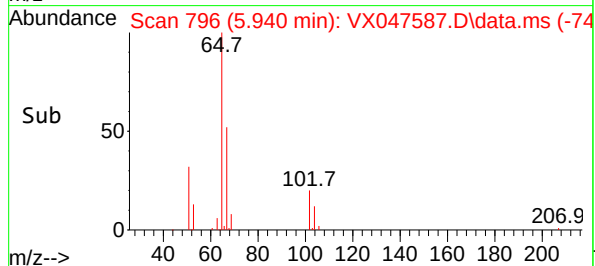
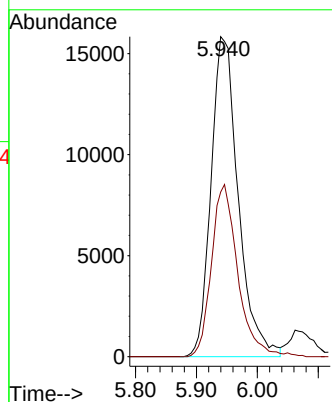
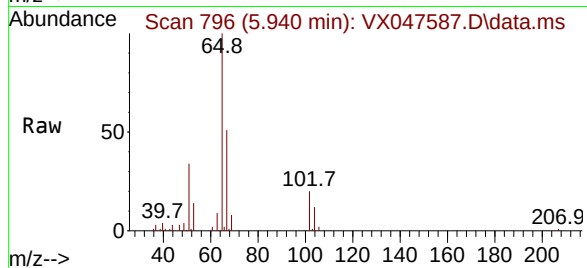
67 52.2 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

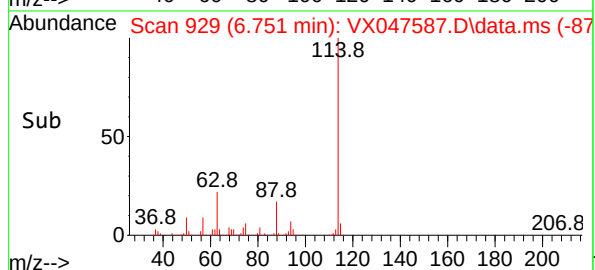
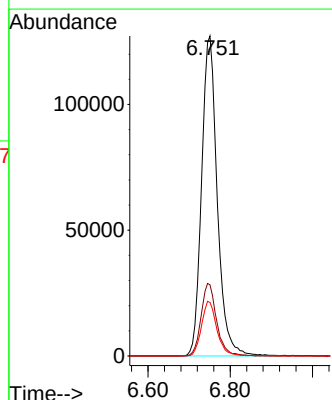
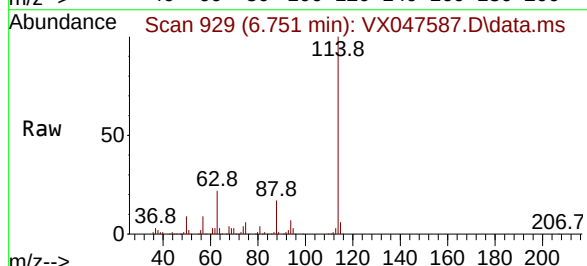
Tgt Ion:114 Resp: 336287

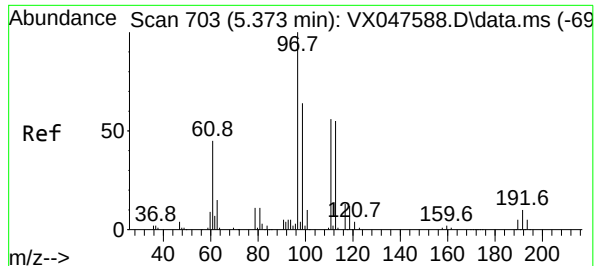
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 16.8 0.0 34.2





#35

Dibromofluoromethane

Concen: 15.868 ug/l

RT: 5.379 min Scan# 703

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

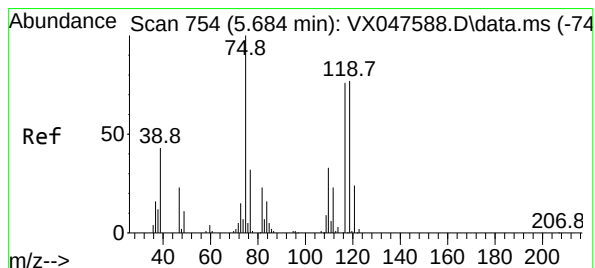
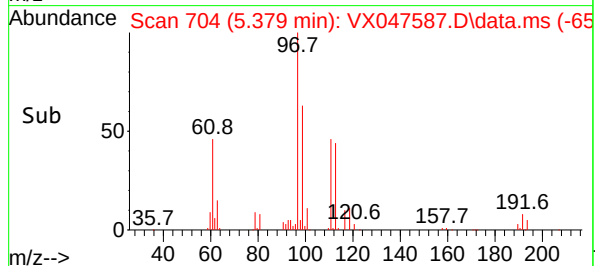
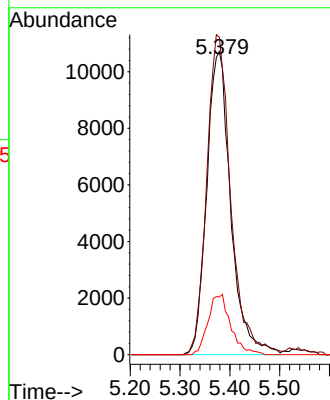
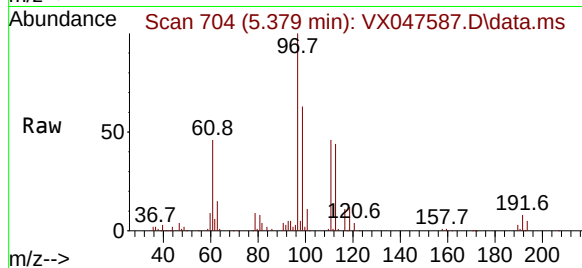
Tgt Ion:	113	Resp:	3578
Ion	Ratio	Lower	Upper
113	100		
111	105.7	80.9	121.3
192	18.8	14.2	21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 20.754 ug/l

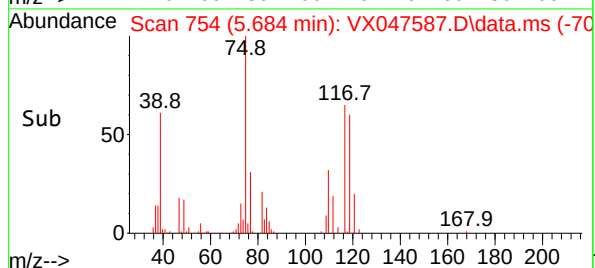
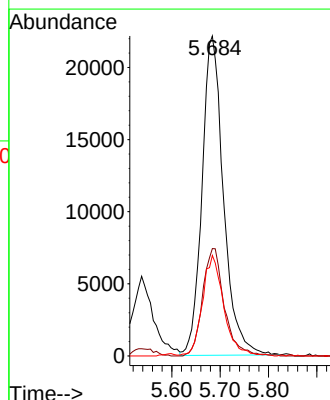
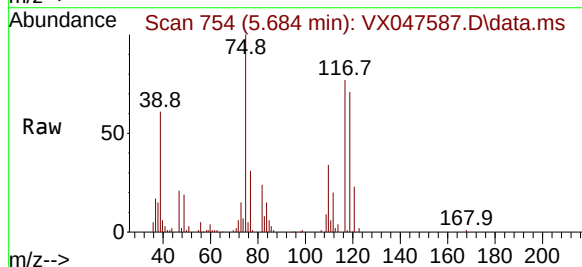
RT: 5.684 min Scan# 754

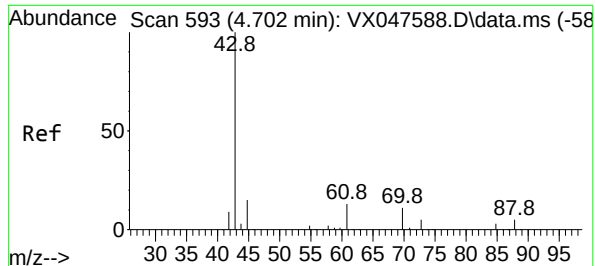
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	75	Resp:	68395
Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.2	24.3	36.5





#37

Ethyl Acetate

Concen: 21.113 ug/l

RT: 4.702 min Scan# 593

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

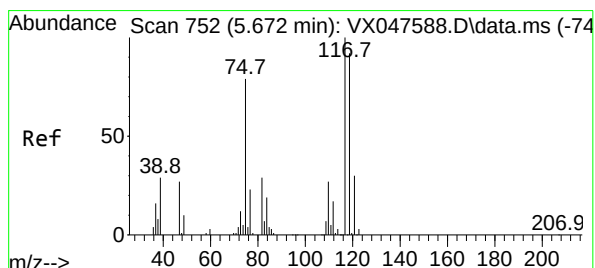
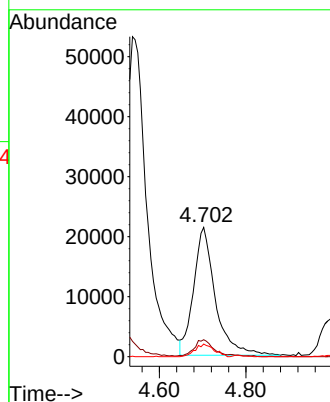
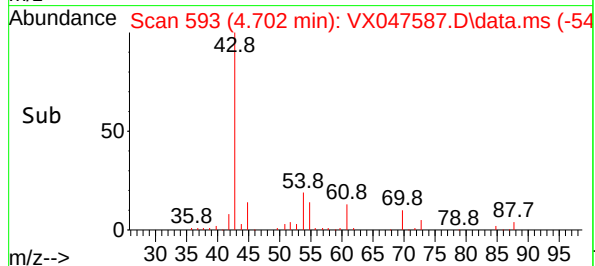
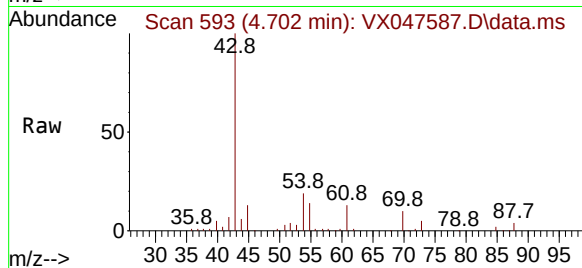
Tgt Ion:	43	Resp:	7449
Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	8.5	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 20.844 ug/l

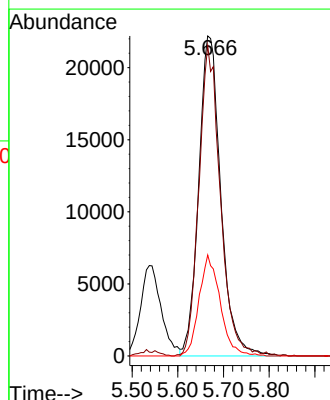
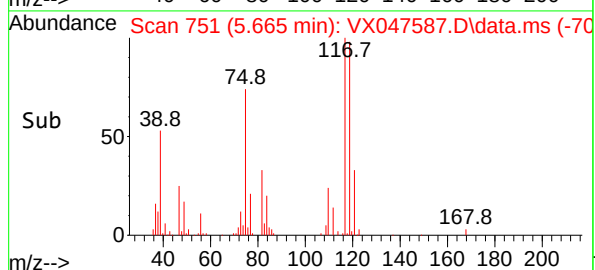
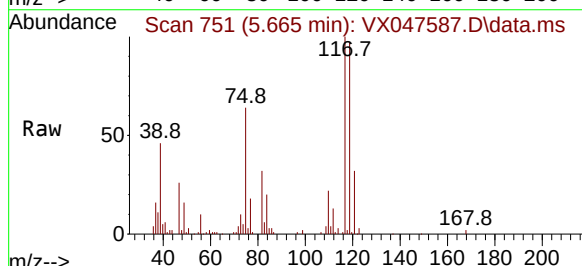
RT: 5.665 min Scan# 751

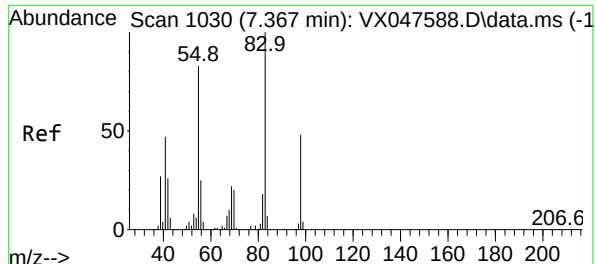
Delta R.T. -0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	117	Resp:	74636
Ion	Ratio	Lower	Upper
117	100		
119	96.9	73.4	110.2
121	31.6	23.8	35.6





#39

Methylcyclohexane

Concen: 21.251 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

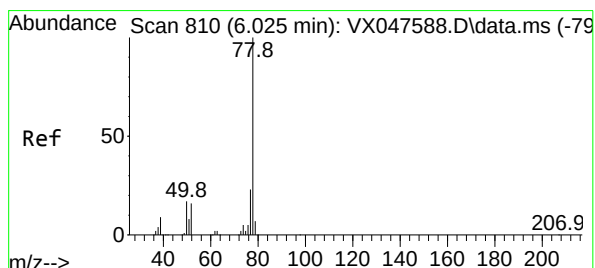
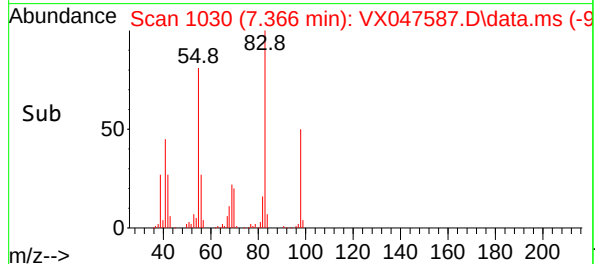
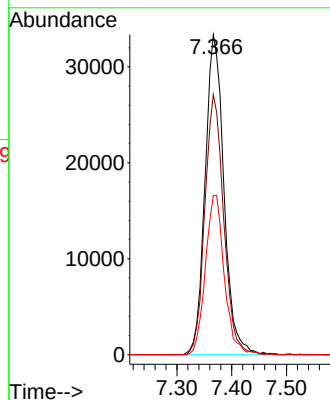
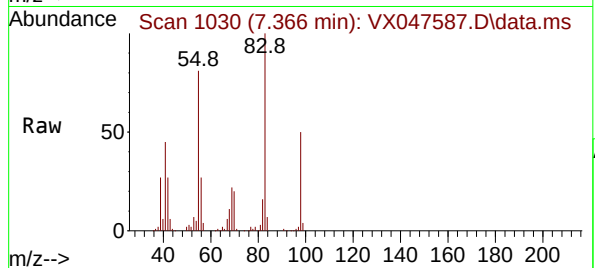
Tgt Ion:	83	Resp:	79499
Ion	Ratio	Lower	Upper
83	100		
55	81.2	66.4	99.6
98	49.6	38.1	57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 21.051 ug/l

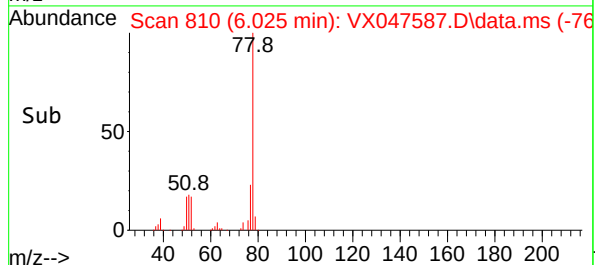
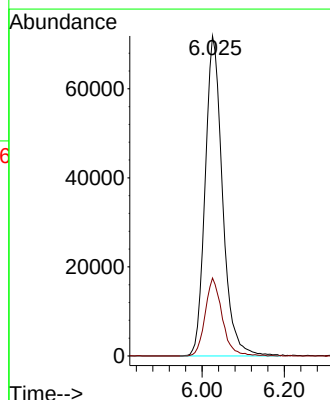
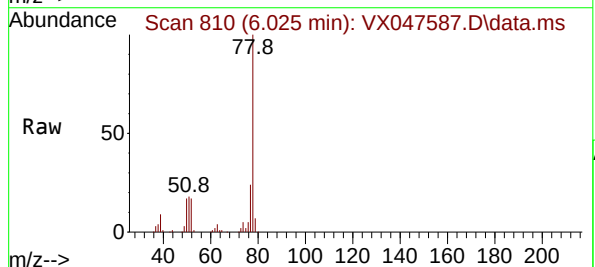
RT: 6.025 min Scan# 810

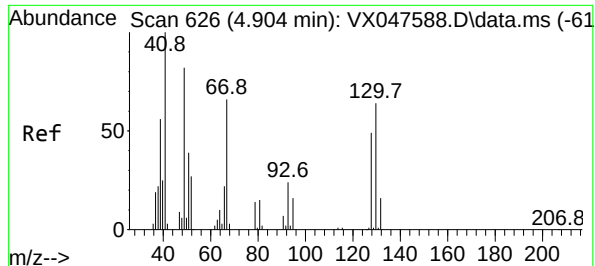
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

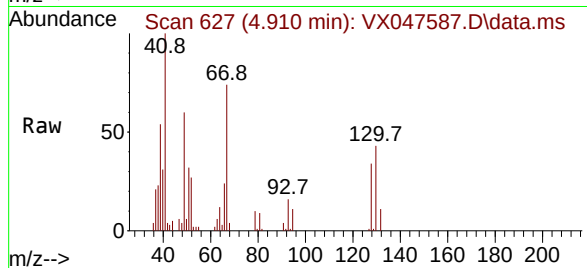
Tgt Ion:	78	Resp:	210711
Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2





#41
Methacrylonitrile
Concen: 21.148 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

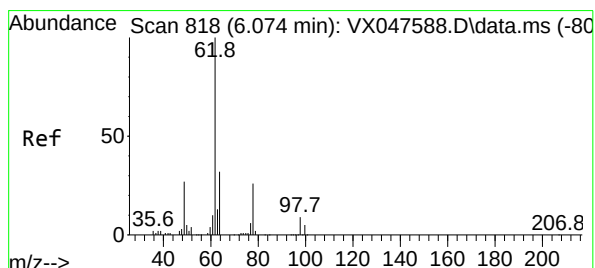
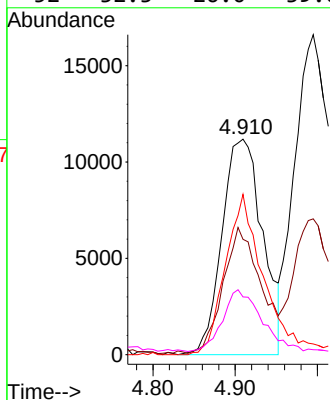
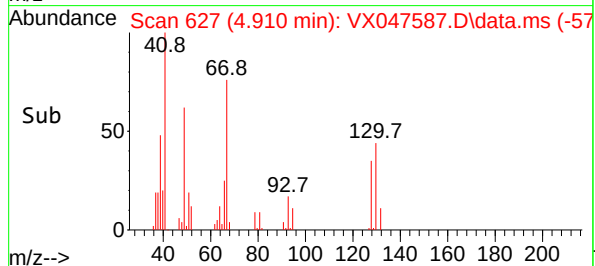
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 41 Resp: 3852
Ion Ratio Lower Upper
41 100
39 53.8 43.3 64.9
67 72.5 58.6 87.8
52 32.3 26.0 39.0

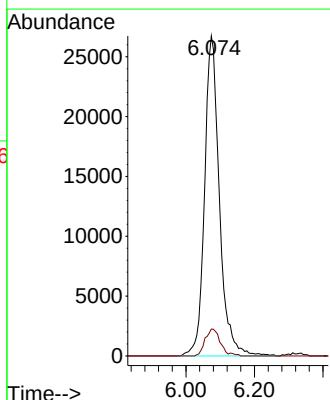
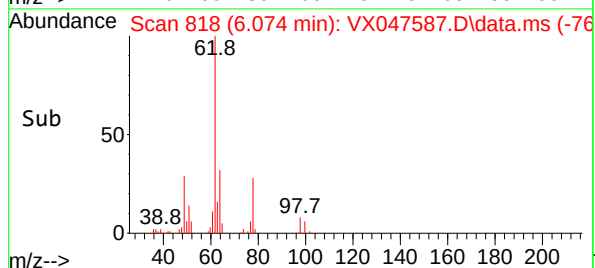
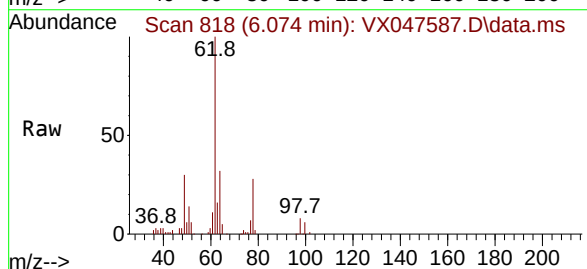
Manual Integrations
APPROVED

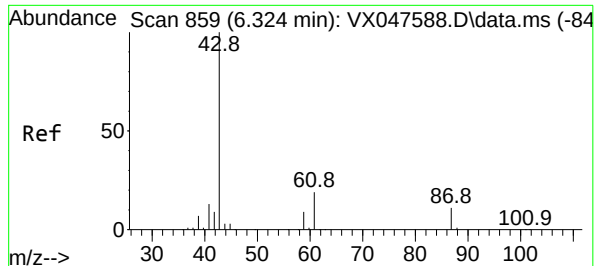
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#42
1,2-Dichloroethane
Concen: 21.175 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 80646
Ion Ratio Lower Upper
62 100
98 8.7 0.0 17.0





#43

Isopropyl Acetate

Concen: 20.670 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 11962

Ion Ratio Lower Upper

43

100

61

18.9

87

12.1

15.2

9.6

22.8

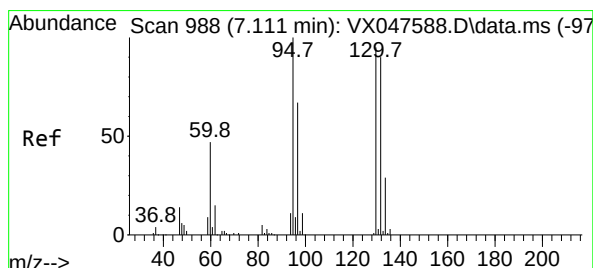
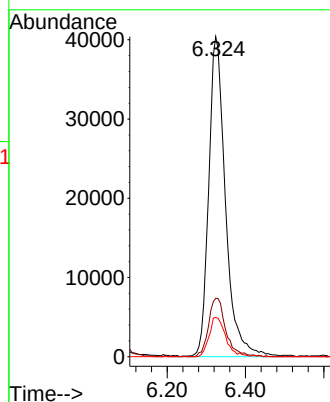
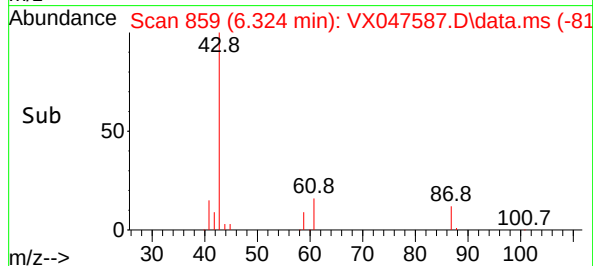
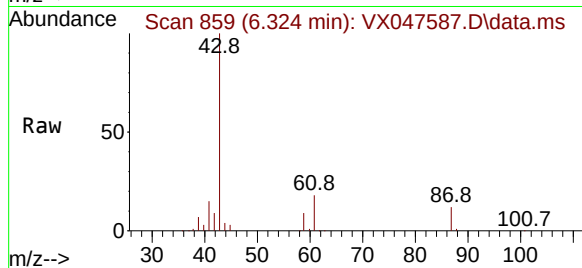
14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 21.228 ug/l

RT: 7.110 min Scan# 988

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:130 Resp: 51369

Ion Ratio Lower Upper

130

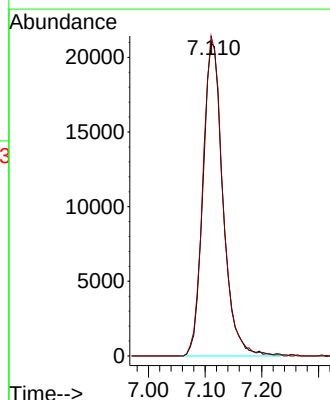
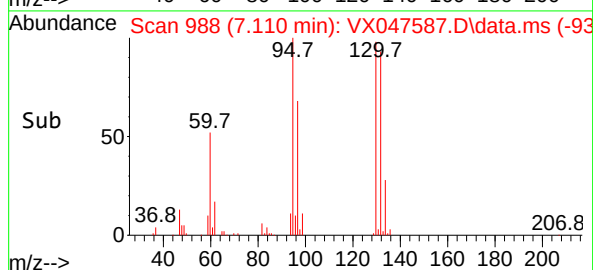
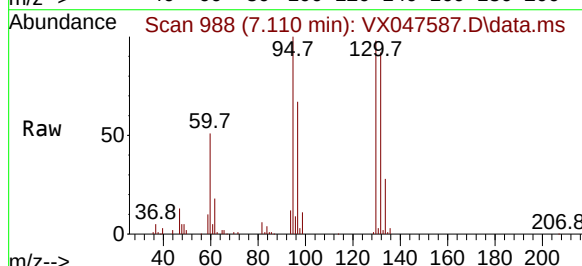
100

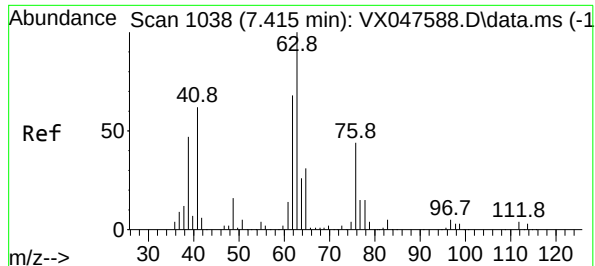
95

102.3

0.0

210.8





#45

1,2-Dichloropropane

Concen: 20.697 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 53040

Ion Ratio Lower Upper

63 100

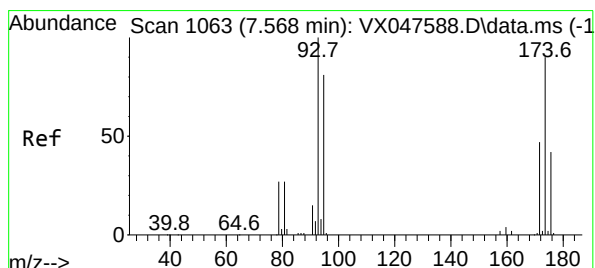
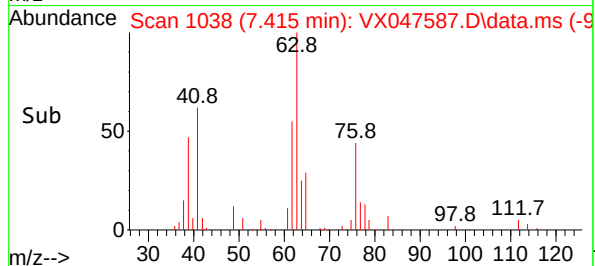
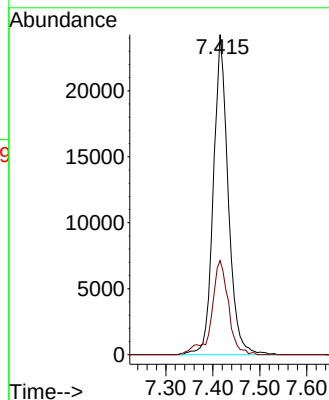
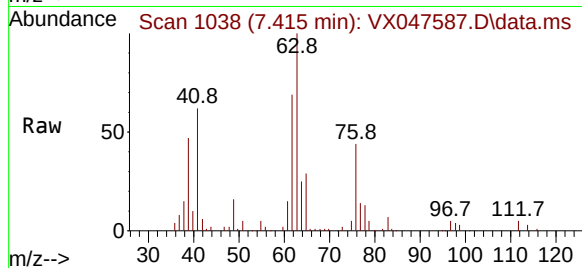
65 29.4 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 20.862 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

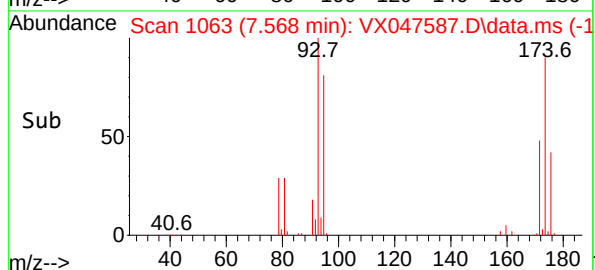
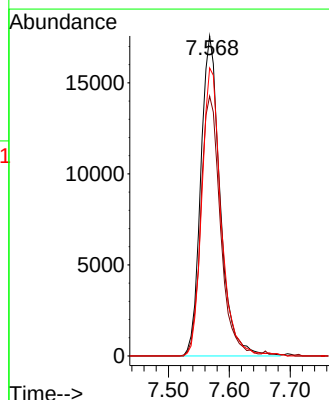
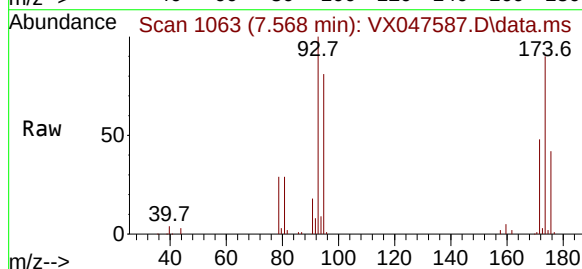
Tgt Ion: 93 Resp: 38910

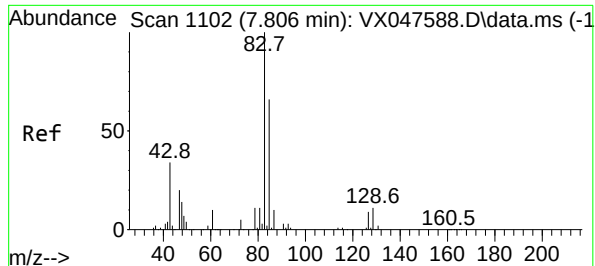
Ion Ratio Lower Upper

93 100

95 82.0 65.0 97.6

174 89.2 71.6 107.4





#47

Bromodichloromethane

Concen: 21.002 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

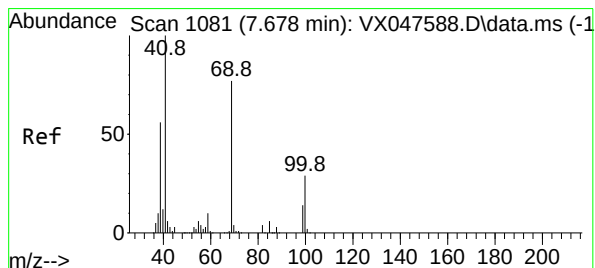
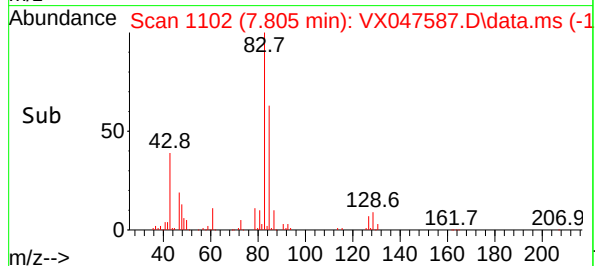
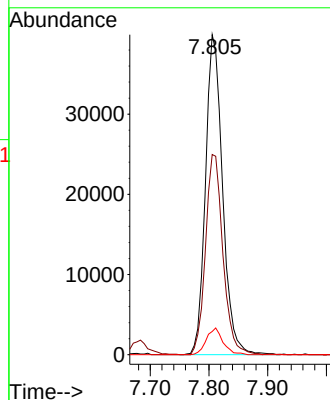
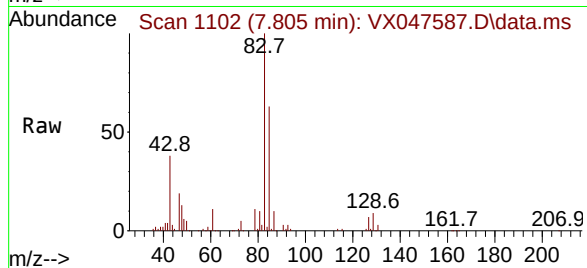
Tgt Ion:	83	Resp:	8083
Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.2	6.9	10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 20.877 ug/l

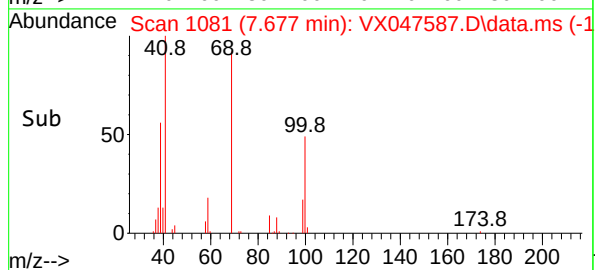
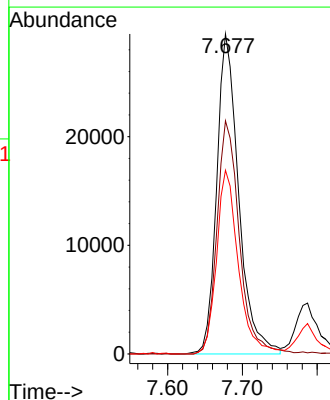
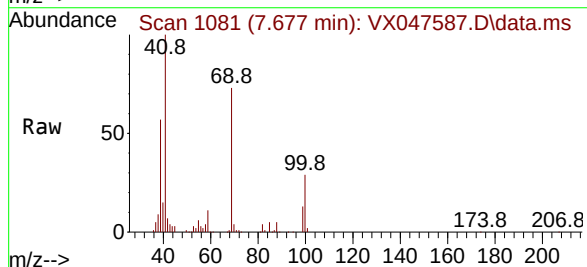
RT: 7.677 min Scan# 1081

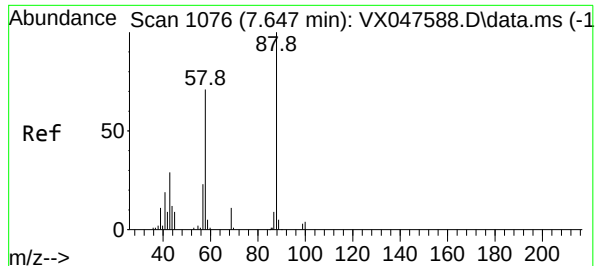
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	41	Resp:	60182
Ion	Ratio	Lower	Upper
41	100		
69	74.2	61.4	92.2
39	57.2	45.8	68.6





#49

1,4-Dioxane

Concen: 413.530 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

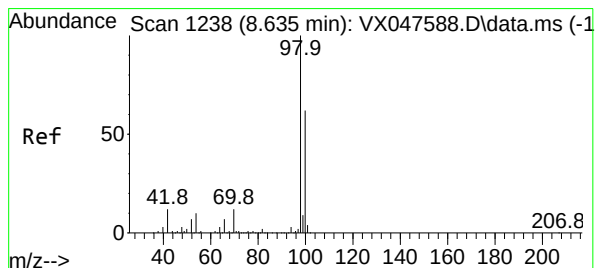
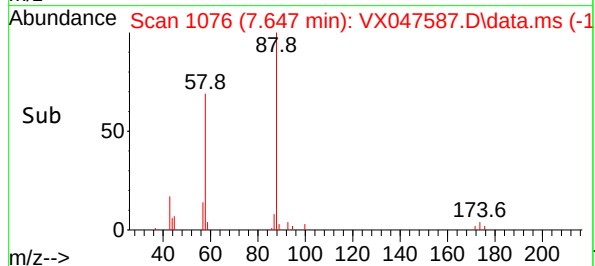
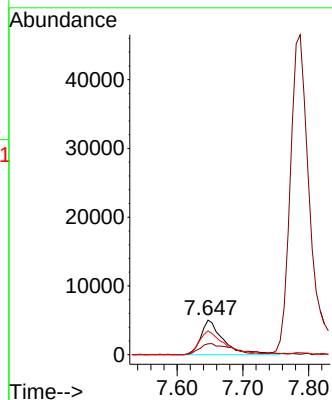
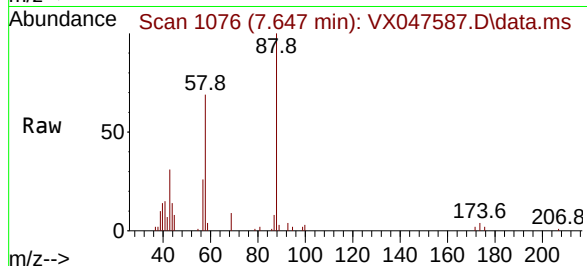
Tgt Ion:	88	Resp:	1204
Ion	Ratio	Lower	Upper
88	100		
43	44.7	30.2	45.2
58	75.8	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 16.258 ug/l

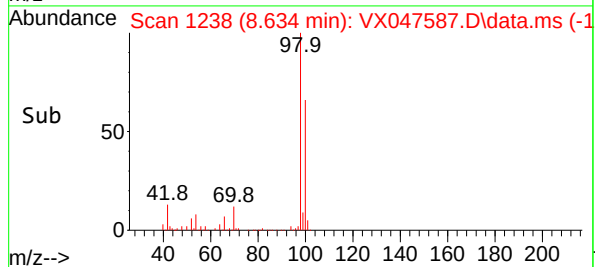
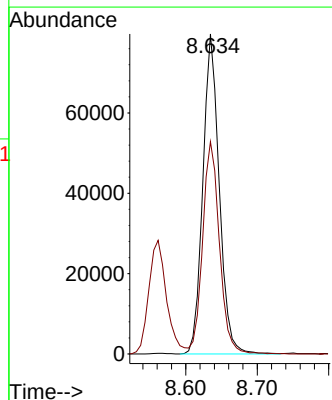
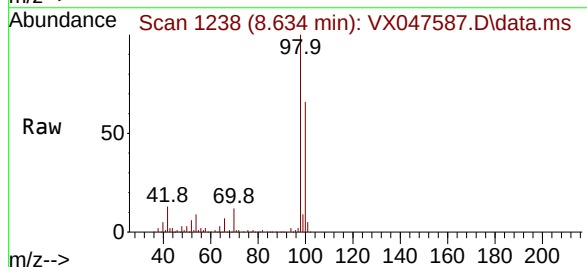
RT: 8.634 min Scan# 1238

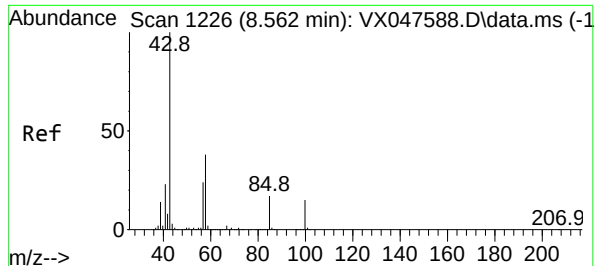
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

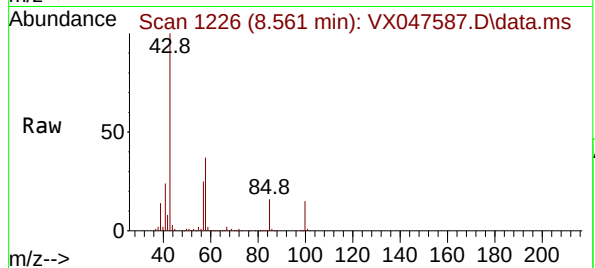
Tgt Ion:	98	Resp:	126875
Ion	Ratio	Lower	Upper
98	100		
100	67.9	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 105.456 ug/l
RT: 8.561 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

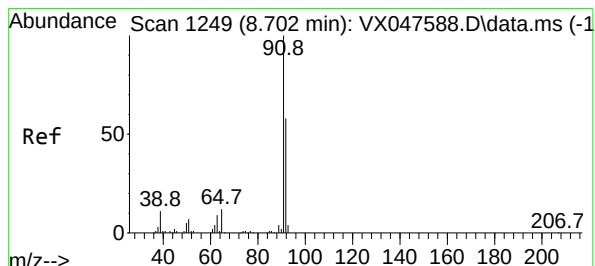
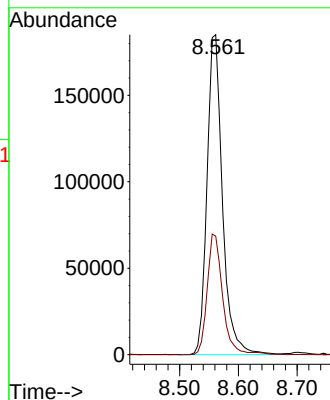
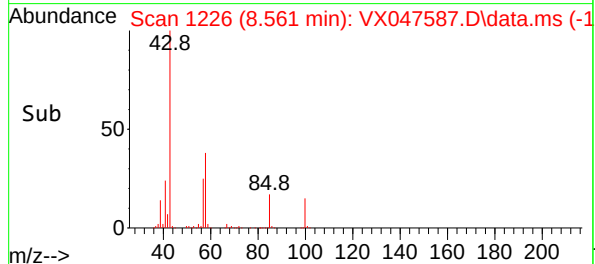
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 338370
Ion Ratio Lower Upper
43 100
58 37.8 30.3 45.5

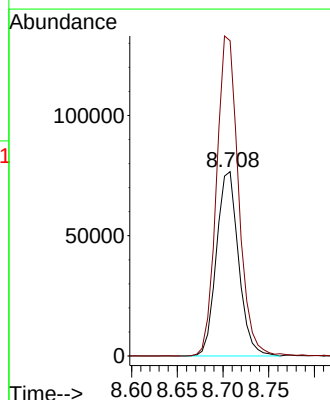
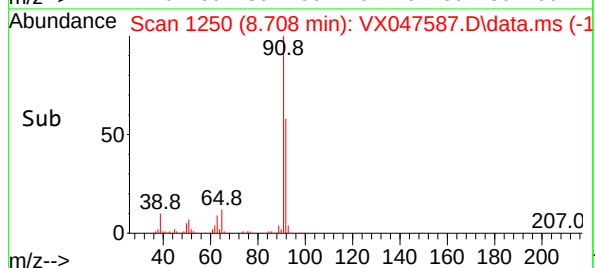
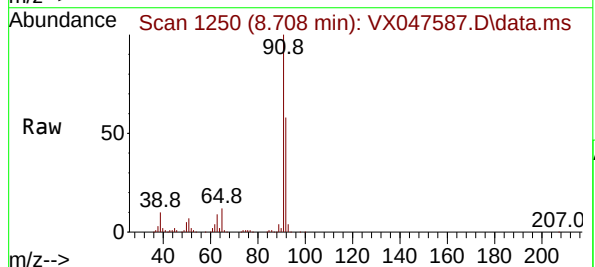
Manual Integrations
APPROVED

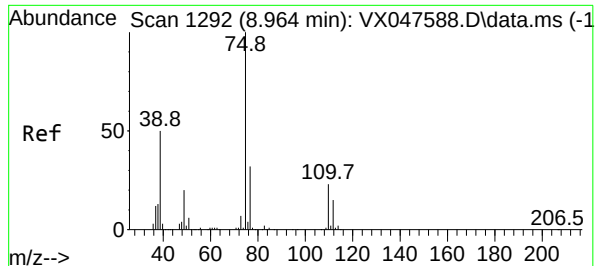
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 20.950 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 92 Resp: 129193
Ion Ratio Lower Upper
92 100
91 173.2 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 20.625 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 80972

Ion Ratio Lower Upper

75 100

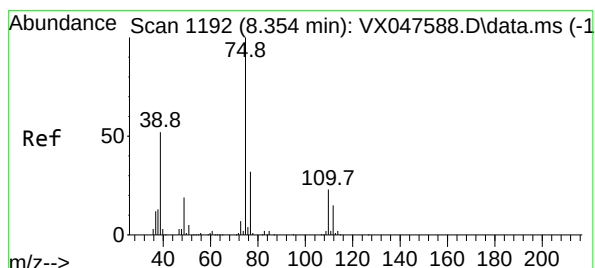
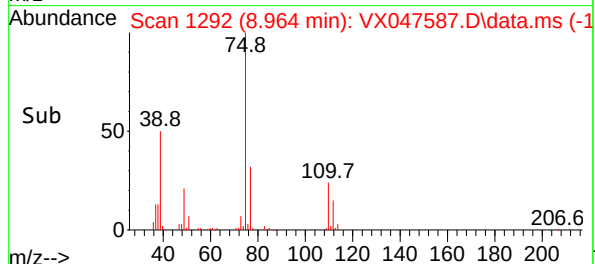
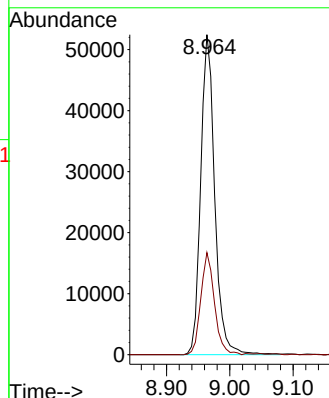
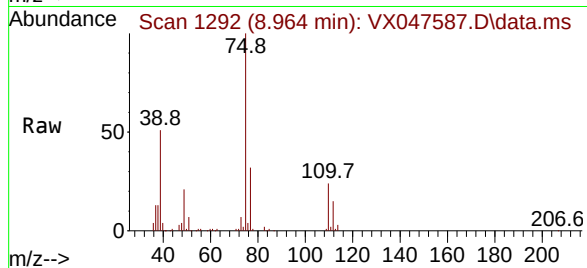
77 31.9 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 20.650 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

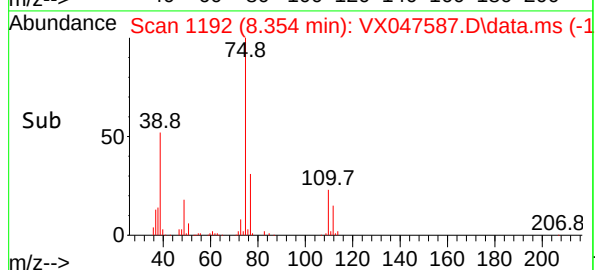
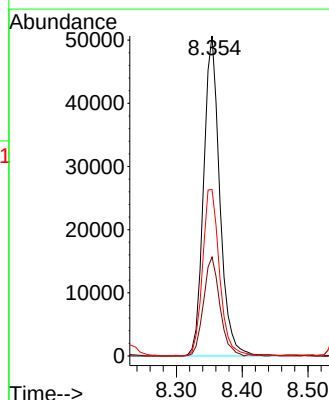
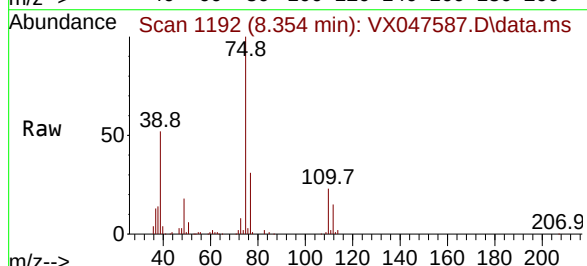
Tgt Ion: 75 Resp: 86648

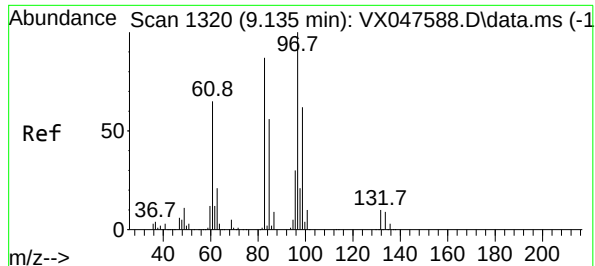
Ion Ratio Lower Upper

75 100

77 30.9 25.8 38.6

39 52.0 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 20.967 ug/l

RT: 9.140 min Scan# 1320

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

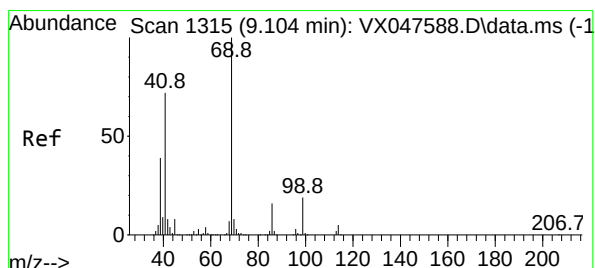
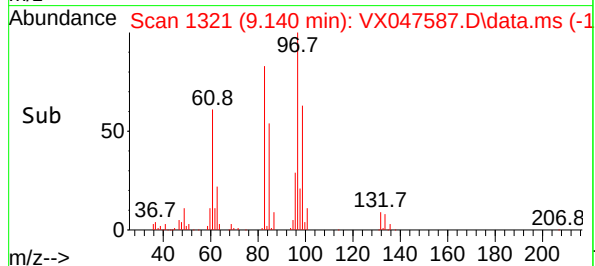
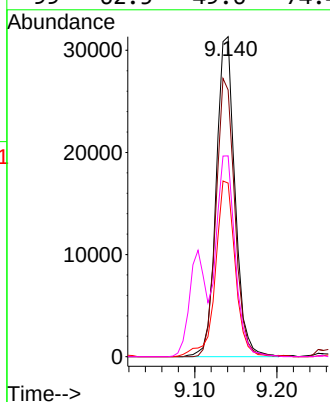
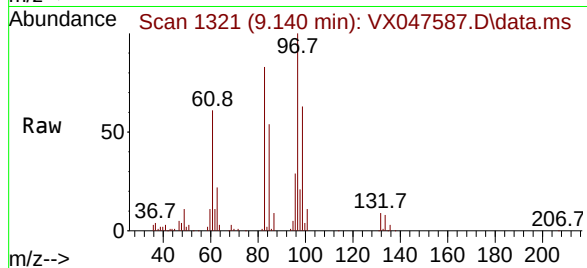
Tgt Ion	Ratio	Lower	Upper
97	100		
83	83.3	69.6	104.4
85	55.2	45.0	67.6
99	62.5	49.6	74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 21.158 ug/l

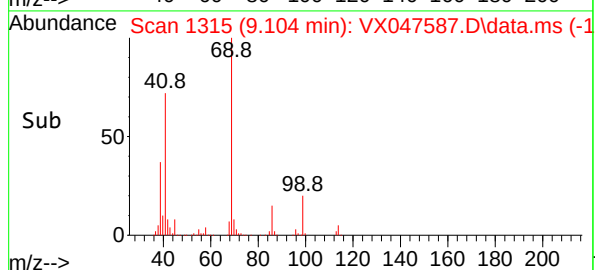
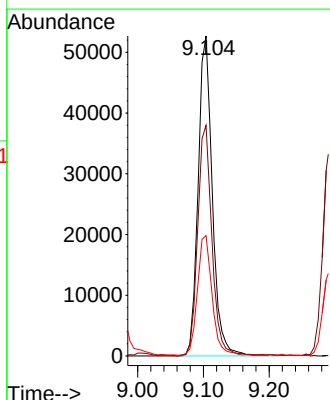
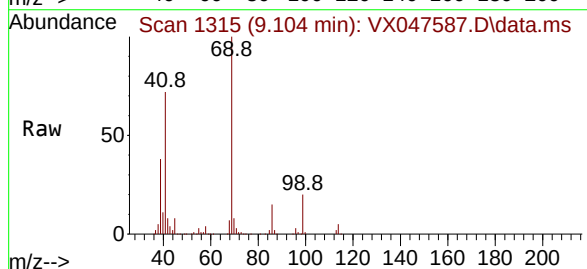
RT: 9.104 min Scan# 1315

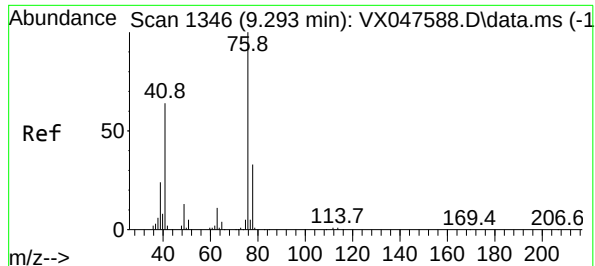
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion	Ratio	Lower	Upper
69	100		
41	72.6	58.6	87.8
39	38.6	31.5	47.3





#57

1,3-Dichloropropane

Concen: 20.934 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 8551

Ion Ratio Lower Upper

76 100

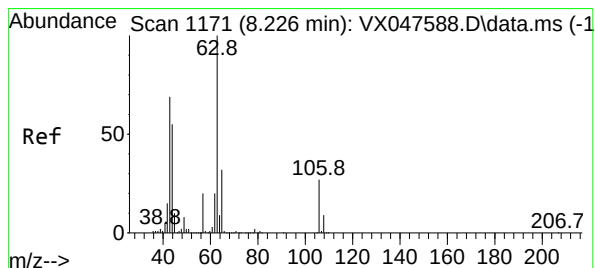
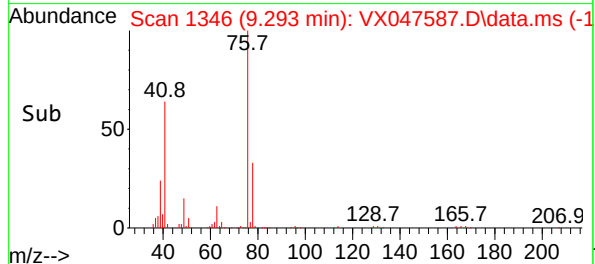
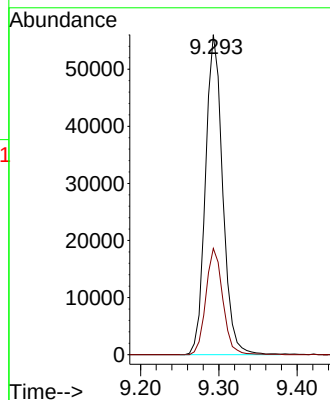
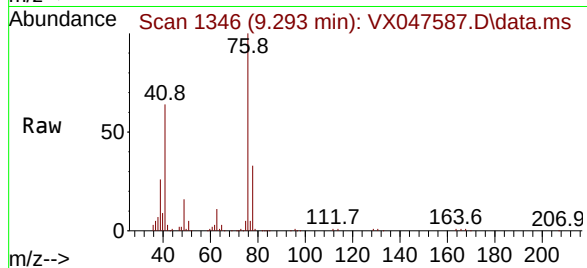
78 32.6 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 86.617 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047587.D

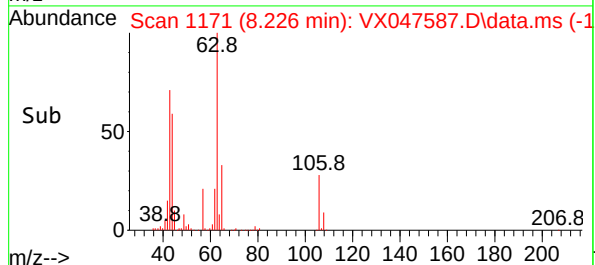
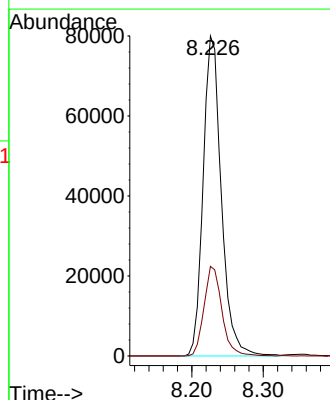
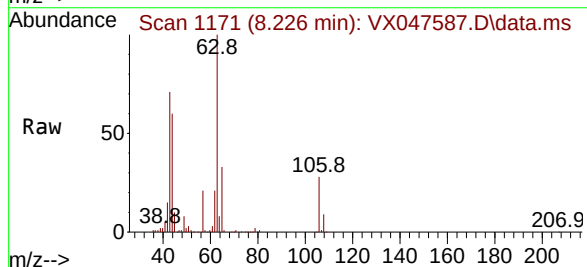
Acq: 16 Sep 2025 10:37

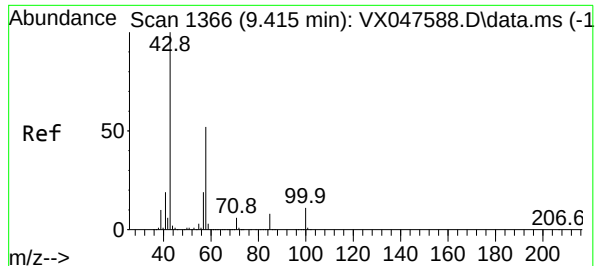
Tgt Ion: 63 Resp: 141395

Ion Ratio Lower Upper

63 100

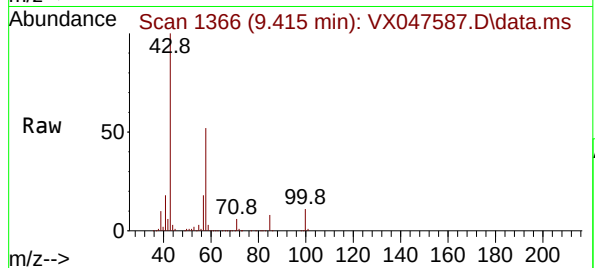
106 27.5 21.9 32.9





#59
2-Hexanone
Concen: 108.488 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

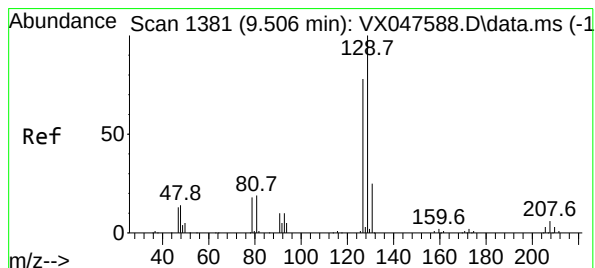
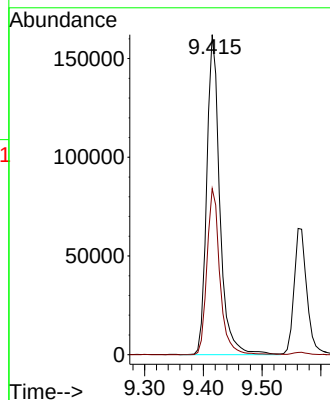
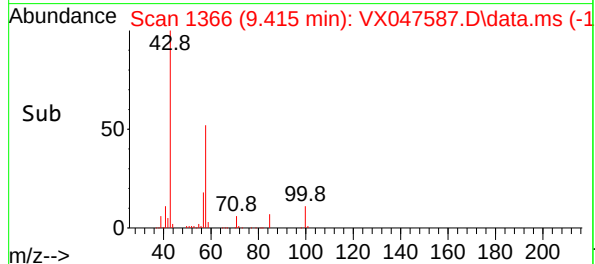
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 25000
Ion Ratio Lower Upper
43 100
58 51.4 26.1 78.2

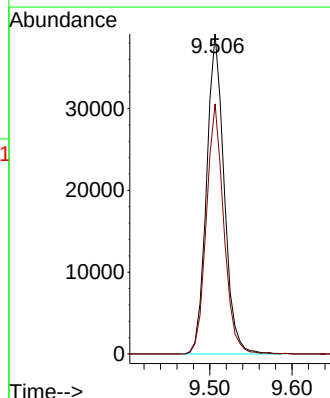
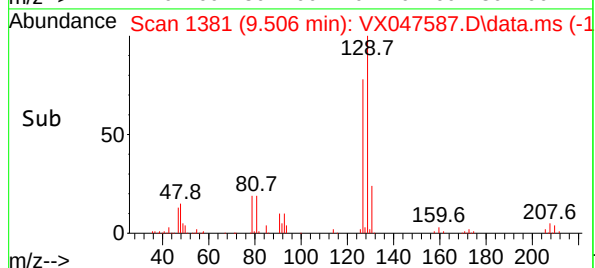
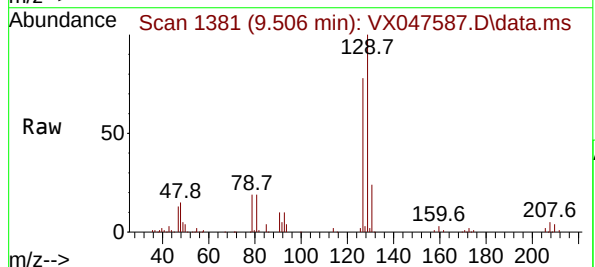
Manual Integrations
APPROVED

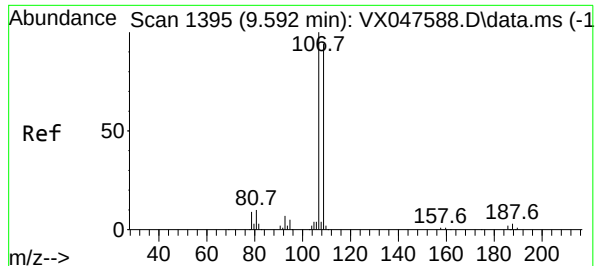
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#60
Dibromochloromethane
Concen: 21.167 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:129 Resp: 57994
Ion Ratio Lower Upper
129 100
127 77.7 38.4 115.2





#61

1,2-Dibromoethane

Concen: 21.310 ug/l

RT: 9.598 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:107 Resp: 51614

Ion Ratio Lower Upper

107 100

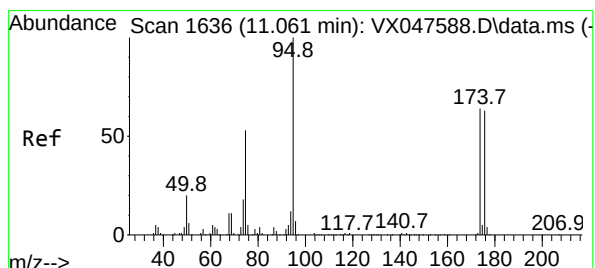
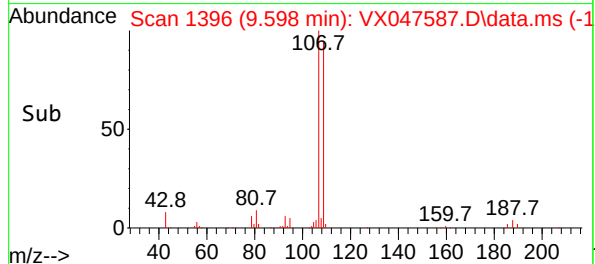
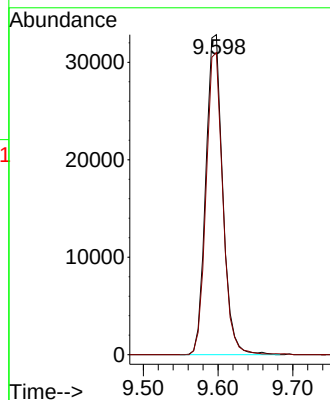
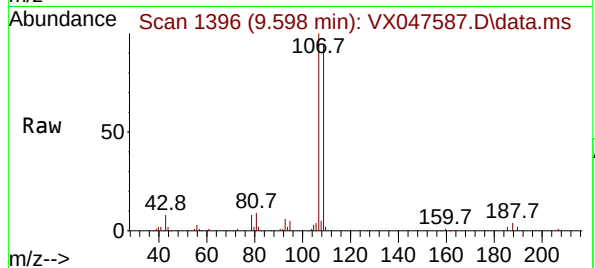
109 93.4 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#62

4-Bromofluorobenzene

Concen: 16.360 ug/l

RT: 11.067 min Scan# 1637

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

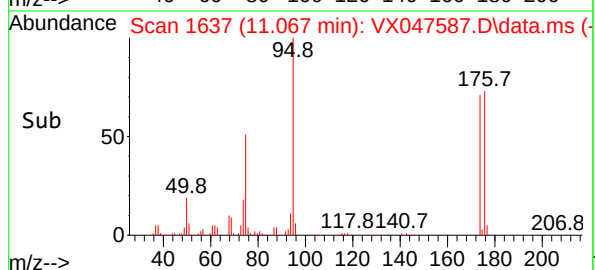
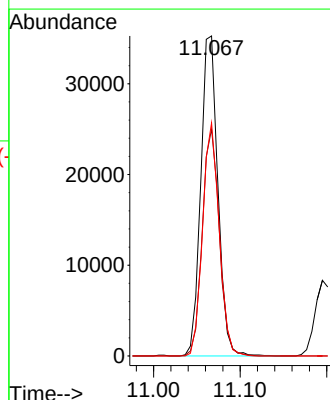
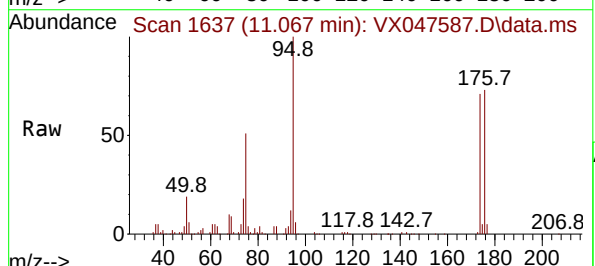
Tgt Ion: 95 Resp: 48454

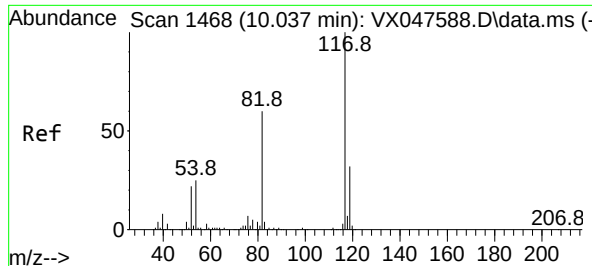
Ion Ratio Lower Upper

95 100

174 70.2 0.0 141.6

176 70.3 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:117 Resp: 298629

Ion Ratio Lower Upper

117 100

82 58.6 47.8 71.6

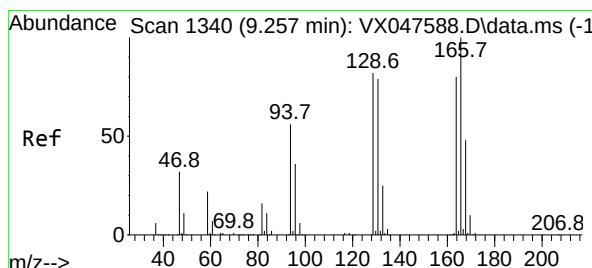
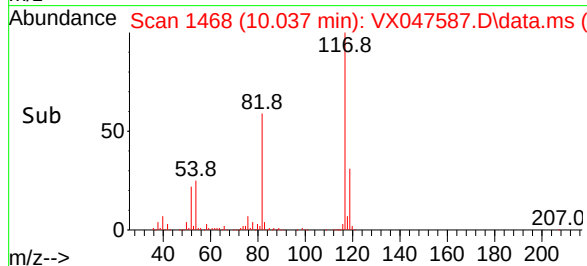
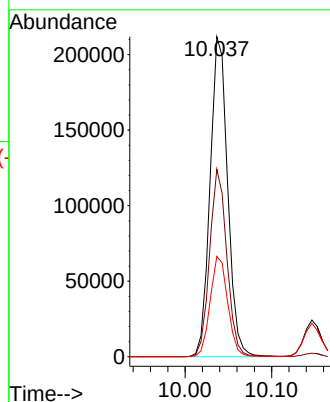
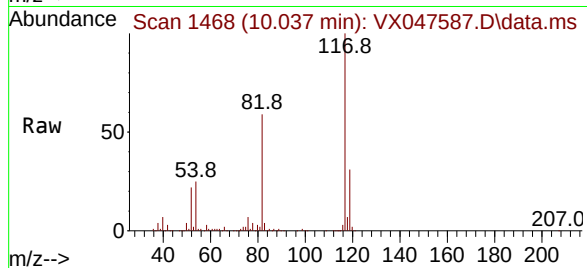
119 31.3 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#64

Tetrachloroethene

Concen: 20.979 ug/l

RT: 9.262 min Scan# 1341

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:164 Resp: 40840

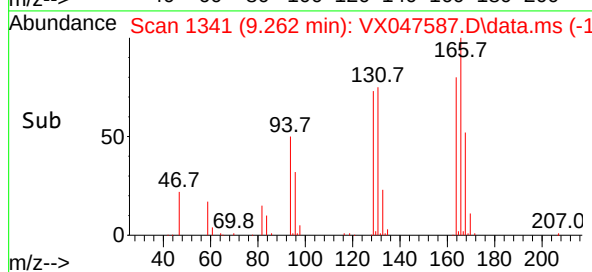
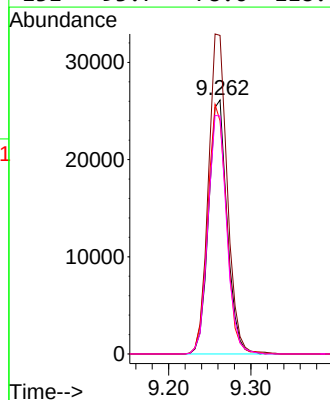
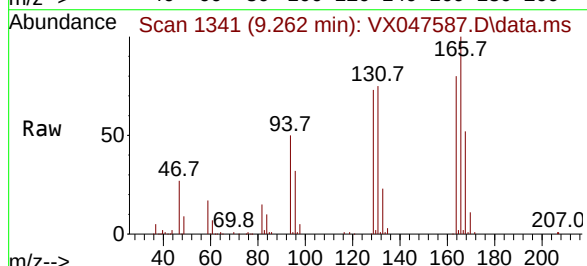
Ion Ratio Lower Upper

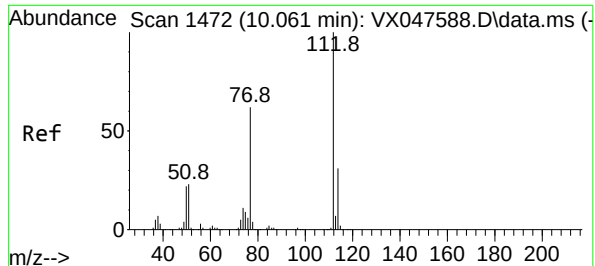
164 100

166 125.4 100.2 150.2

129 91.8 81.8 122.6

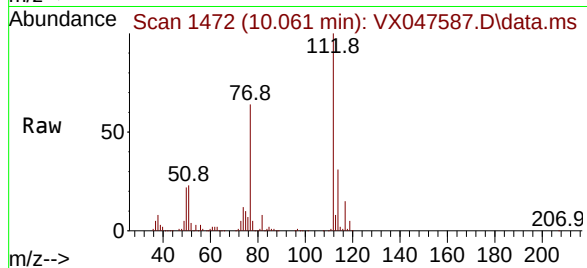
131 93.7 78.6 118.0





#65
Chlorobenzene
Concen: 20.731 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

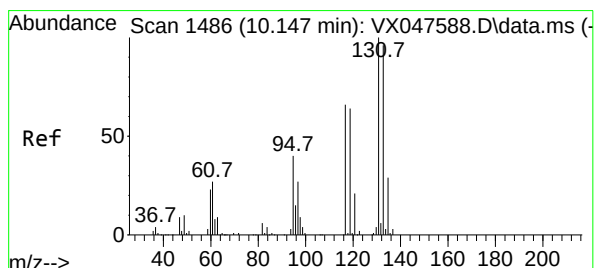
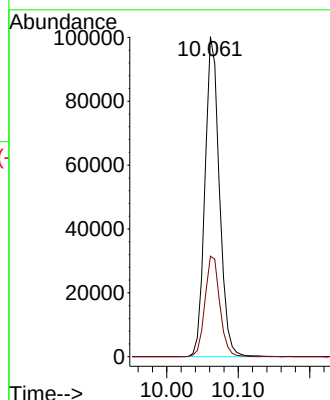
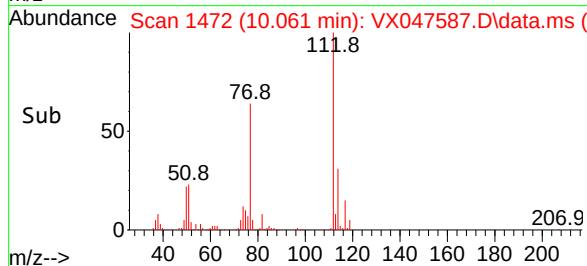
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:112 Resp: 14064
Ion Ratio Lower Upper
112 100
114 31.4 25.1 37.7

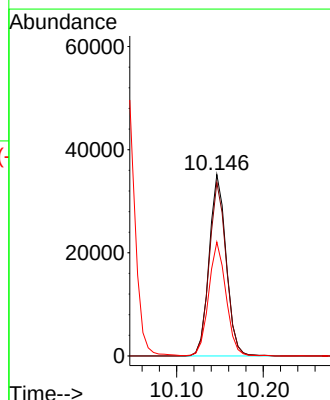
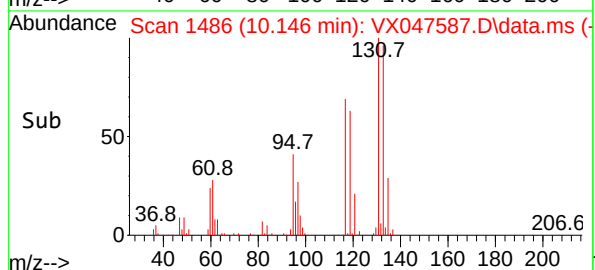
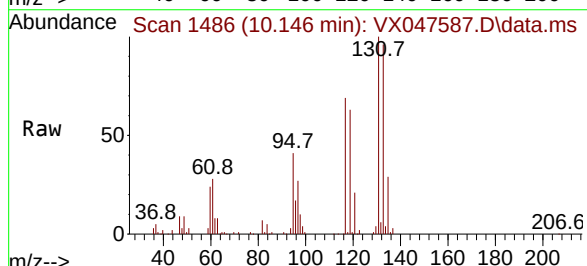
Manual Integrations
APPROVED

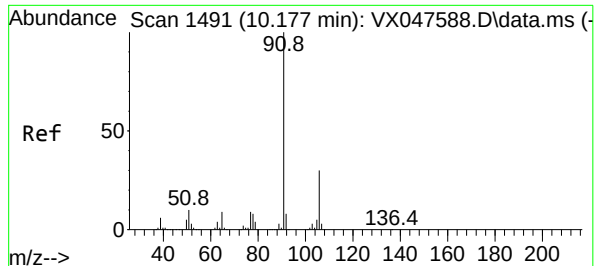
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.513 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:131 Resp: 48022
Ion Ratio Lower Upper
131 100
133 95.9 47.3 142.0
119 63.9 32.0 96.0





#67

Ethyl Benzene

Concen: 20.907 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 24473

Ion Ratio Lower Upper

91 100

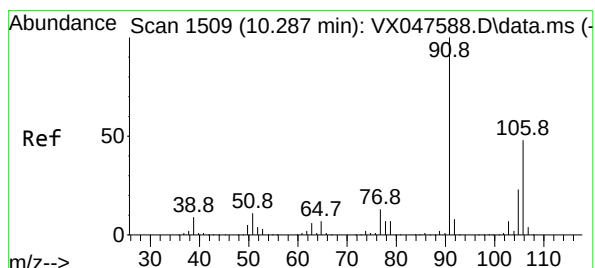
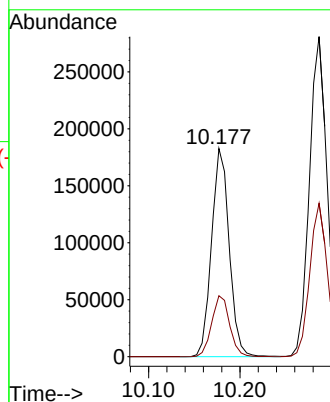
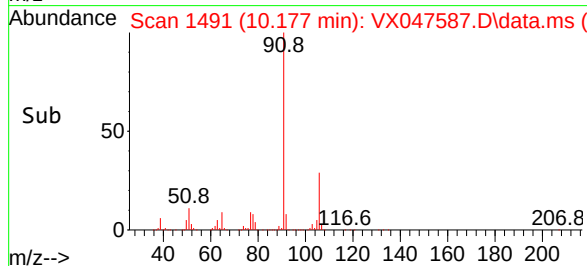
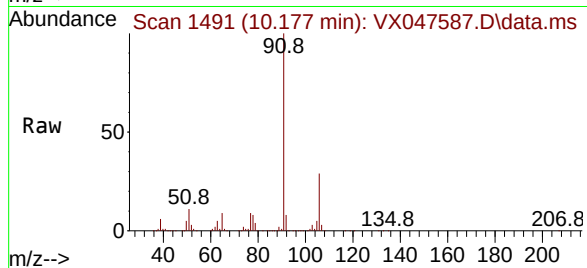
106 29.3 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 41.951 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX047587.D

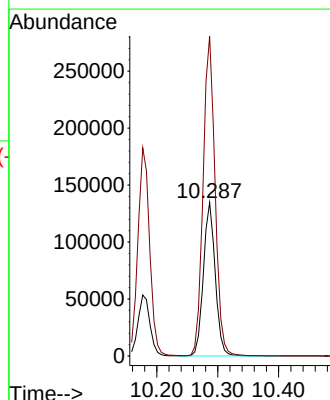
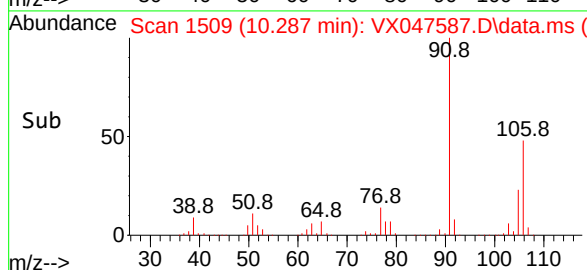
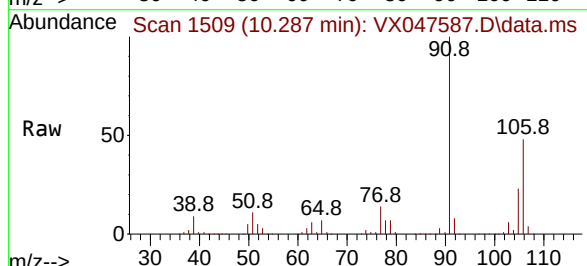
Acq: 16 Sep 2025 10:37

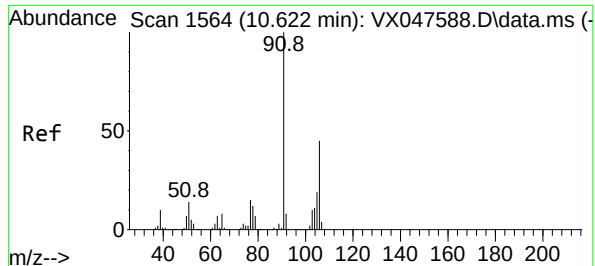
Tgt Ion:106 Resp: 182778

Ion Ratio Lower Upper

106 100

91 210.2 167.8 251.8





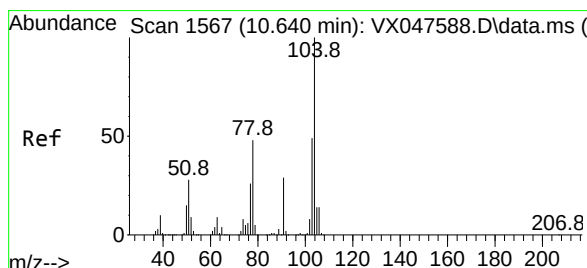
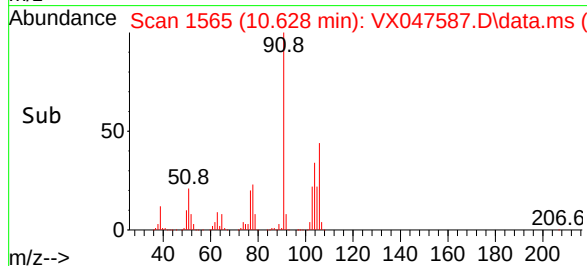
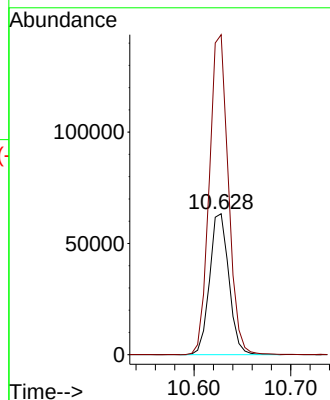
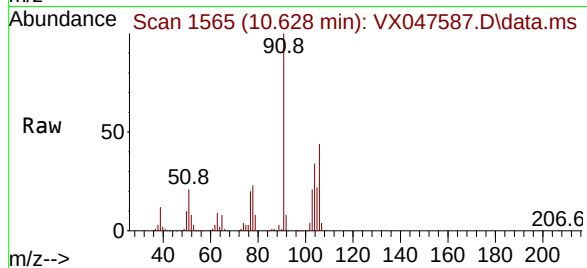
#69
o-Xylene
Concen: 20.799 ug/l
RT: 10.628 min Scan# 1565
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 8765
Ion Ratio Lower Upper
106 100
91 225.3 111.1 333.4

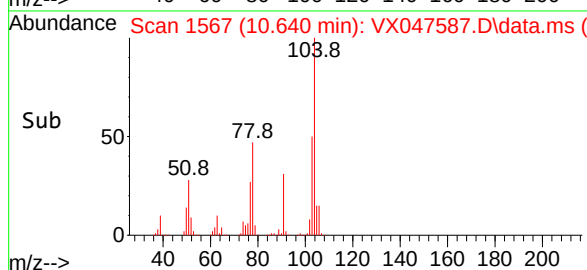
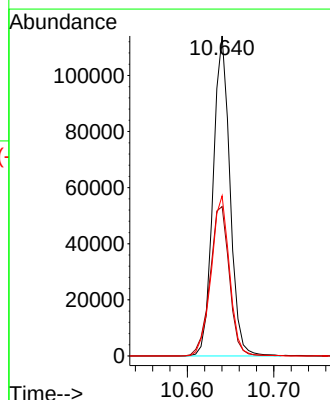
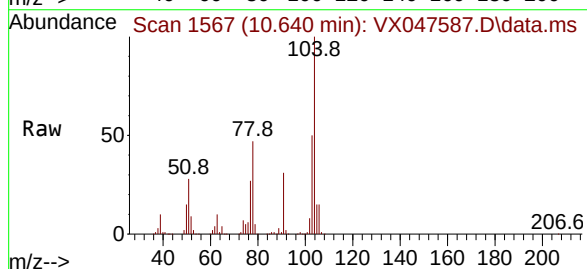
Manual Integrations
APPROVED

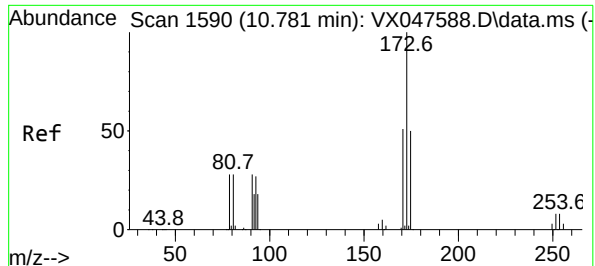
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 20.866 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

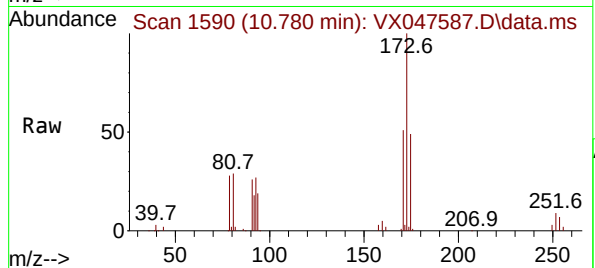
Tgt Ion:104 Resp: 154077
Ion Ratio Lower Upper
104 100
78 53.6 43.1 64.7
103 54.4 43.1 64.7





#71
Bromoform
Concen: 20.550 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

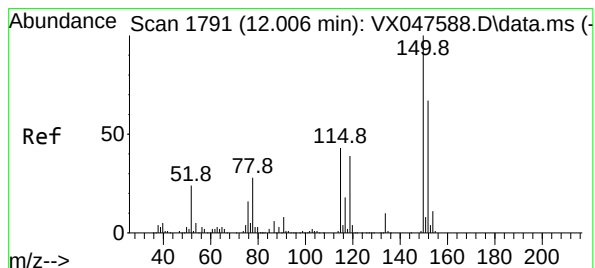
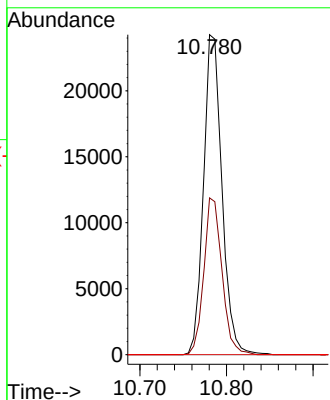
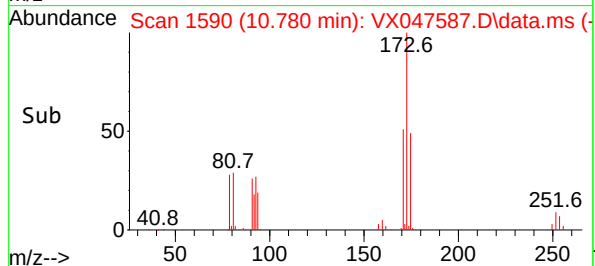
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:173 Resp: 3592
Ion Ratio Lower Upper
173 100
175 48.3 24.9 74.6
254 0.0 0.1 0.1

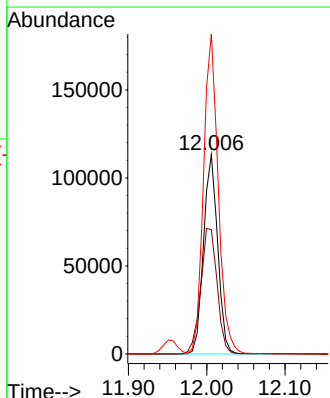
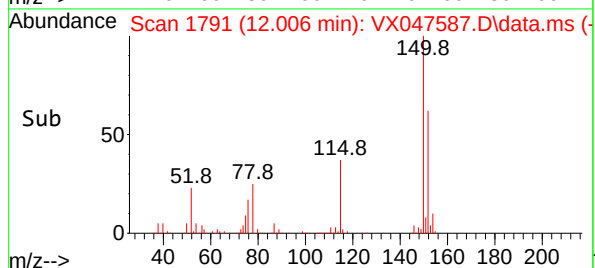
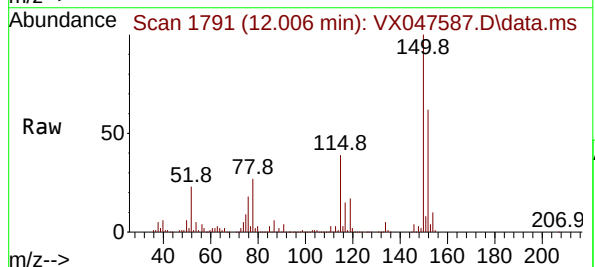
Manual Integrations
APPROVED

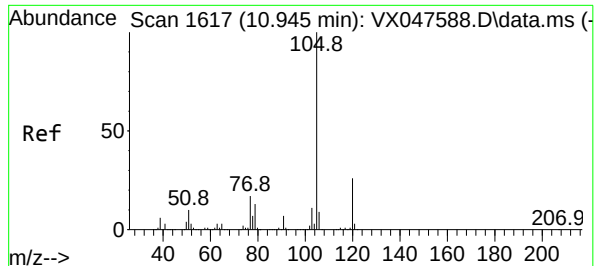
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

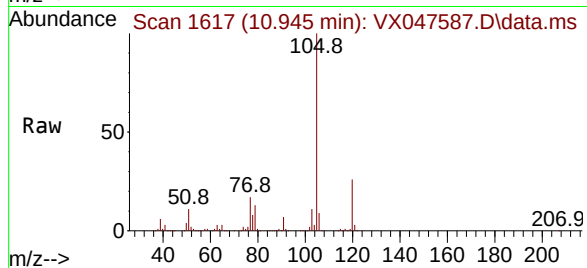
Tgt Ion:152 Resp: 141590
Ion Ratio Lower Upper
152 100
115 73.2 44.9 134.5
150 167.1 0.0 352.0





#73
Isopropylbenzene
Concen: 20.970 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

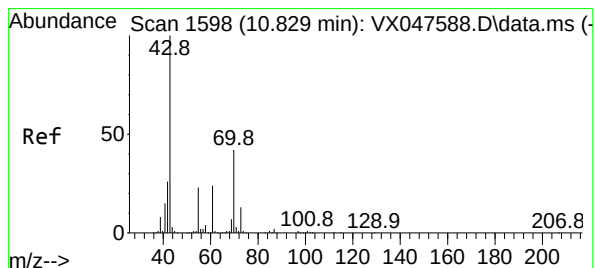
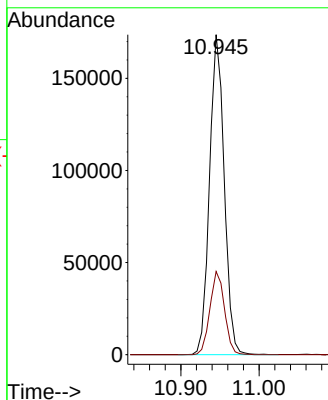
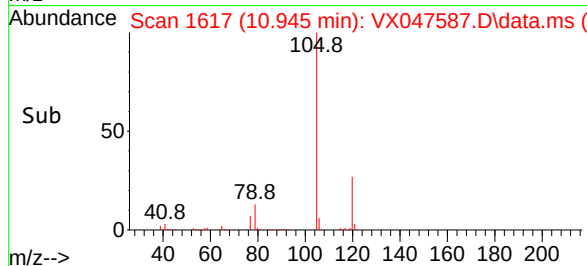
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 105 Resp: 225730
Ion Ratio Lower Upper
105 100
120 25.9 12.8 38.4

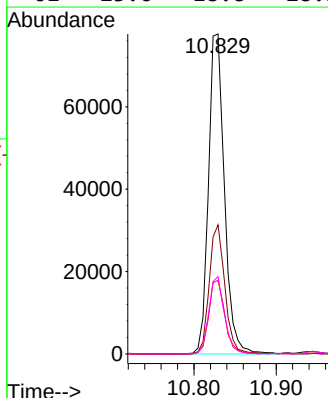
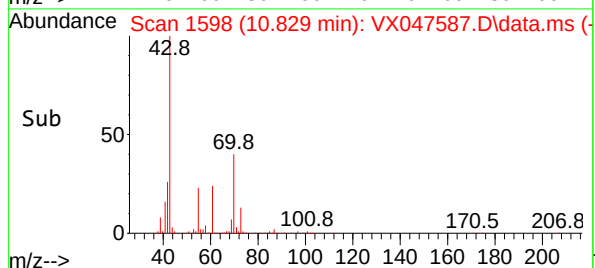
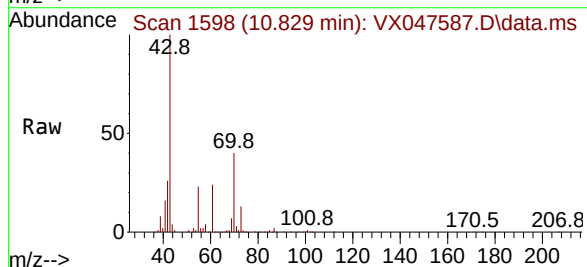
Manual Integrations
APPROVED

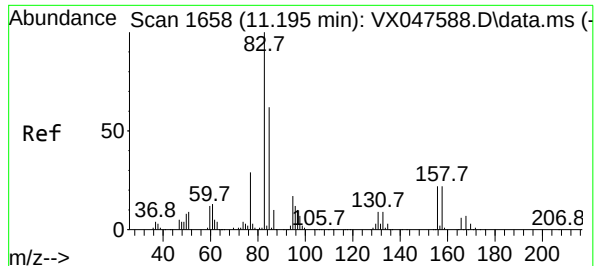
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 21.354 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 104823
Ion Ratio Lower Upper
43 100
70 39.8 32.0 48.0
55 23.4 18.9 28.3
61 23.6 18.8 28.2





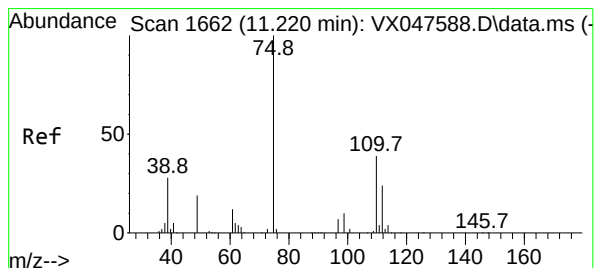
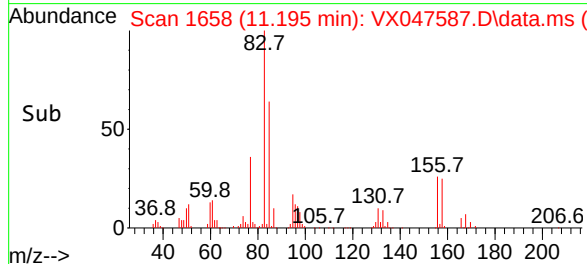
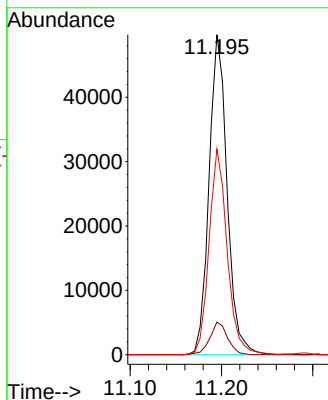
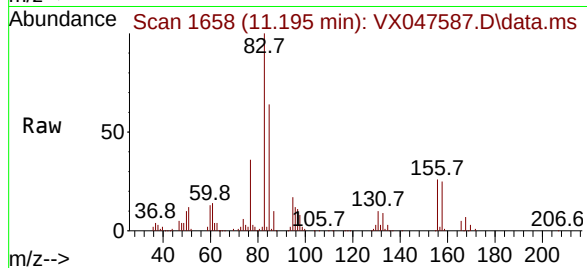
#75
1,1,2,2-Tetrachloroethane
Concen: 20.920 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 6813
Ion Ratio Lower Upper
83 100
131 10.0 5.0 14.9
85 64.4 31.6 95.0

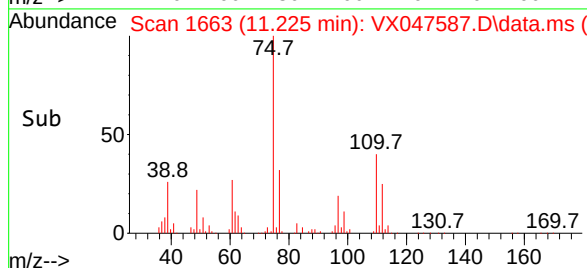
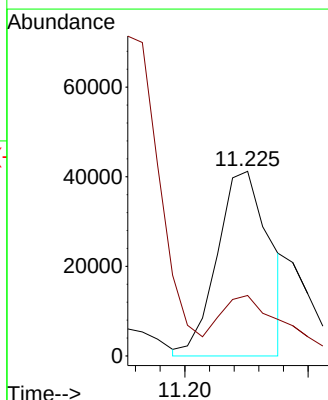
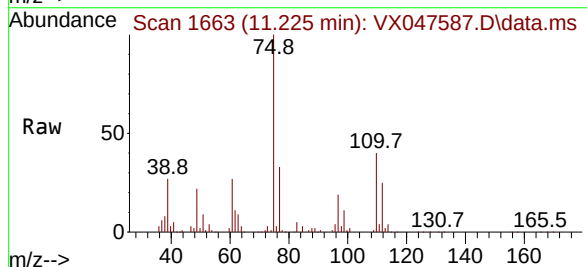
Manual Integrations
APPROVED

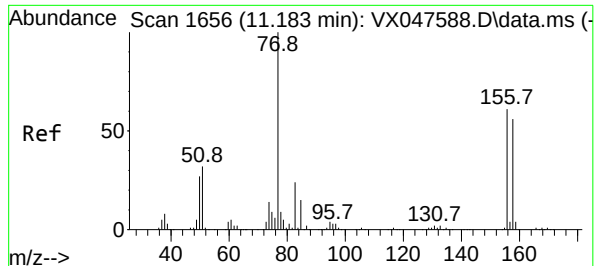
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 20.680 ug/l m
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

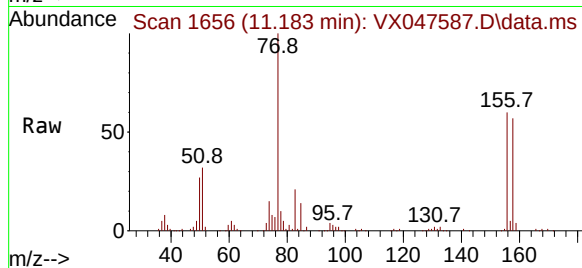
Tgt Ion: 75 Resp: 60797
Ion Ratio Lower Upper
75 100
77 39.6 18.8 56.4





#77
Bromobenzene
Concen: 21.183 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

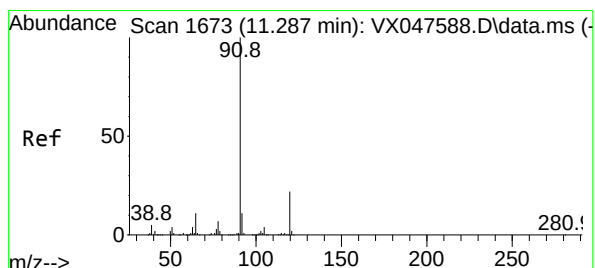
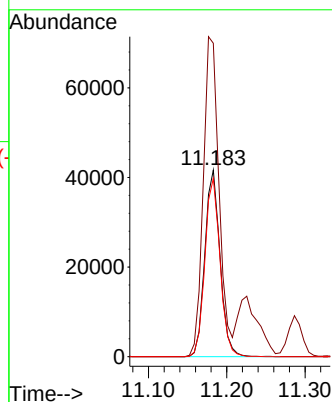
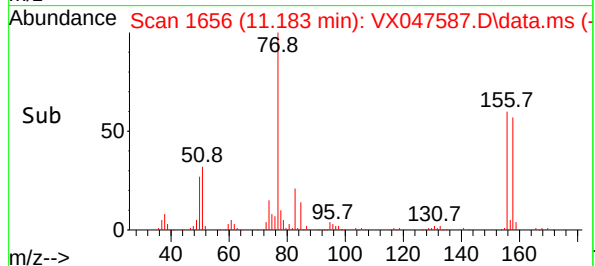
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:156 Resp: 5616
Ion Ratio Lower Upper
156 100
77 177.4 89.7 269.1
158 95.2 47.9 143.6

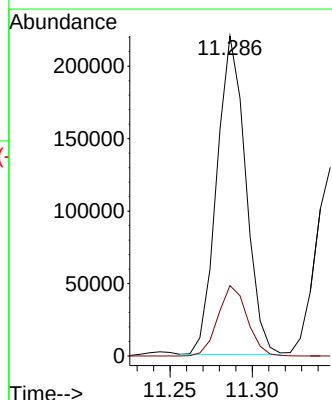
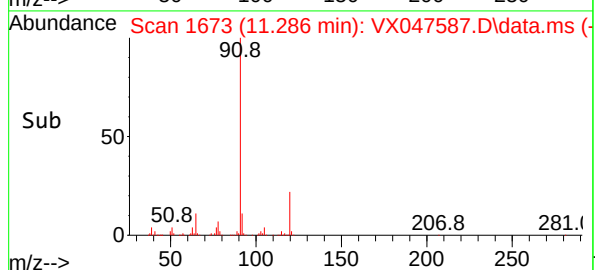
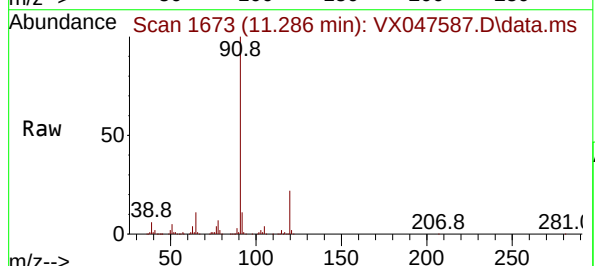
Manual Integrations
APPROVED

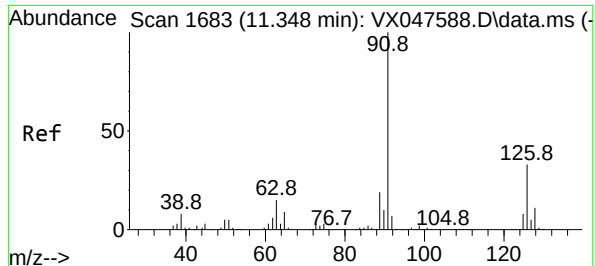
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#78
n-propylbenzene
Concen: 21.092 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 268399
Ion Ratio Lower Upper
91 100
120 22.3 11.1 33.1





#79

2-Chlorotoluene

Concen: 21.329 ug/l

RT: 11.347 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 16623

Ion Ratio Lower Upper

91 100

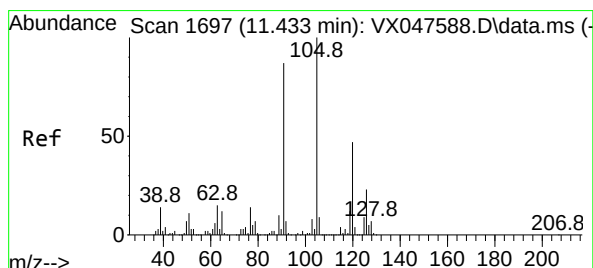
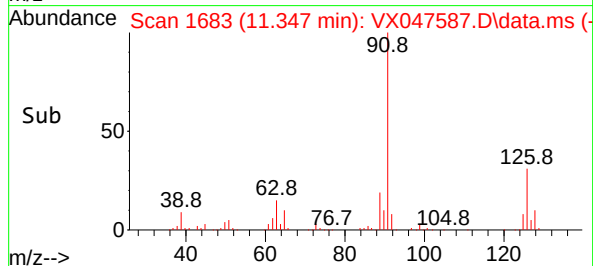
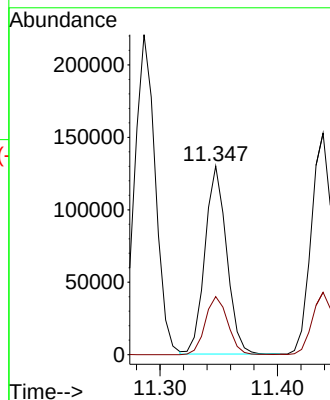
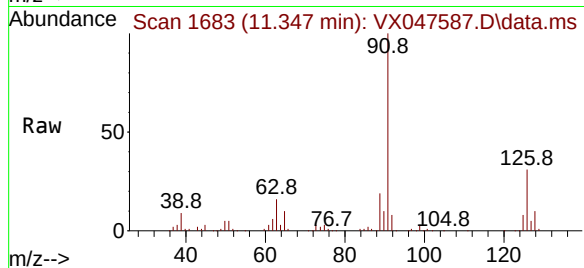
126 32.1 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#80

1,3,5-Trimethylbenzene

Concen: 21.202 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX047587.D

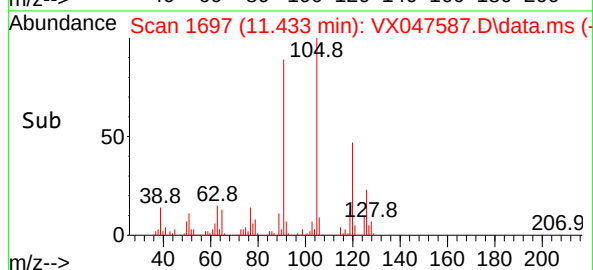
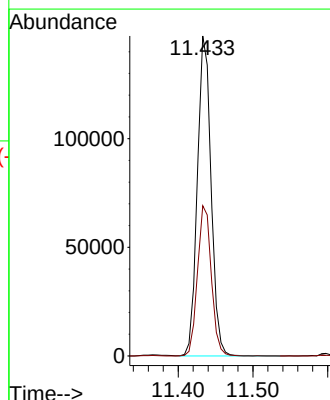
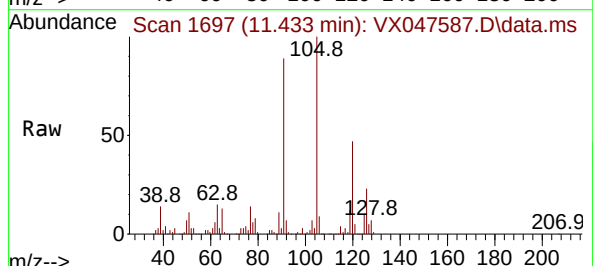
Acq: 16 Sep 2025 10:37

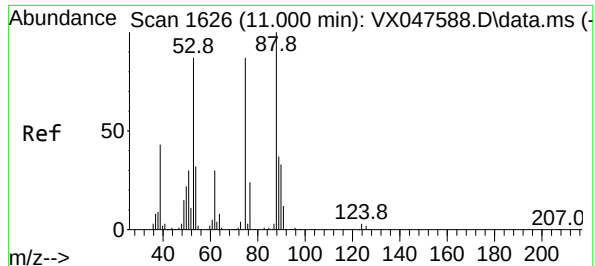
Tgt Ion:105 Resp: 187513

Ion Ratio Lower Upper

105 100

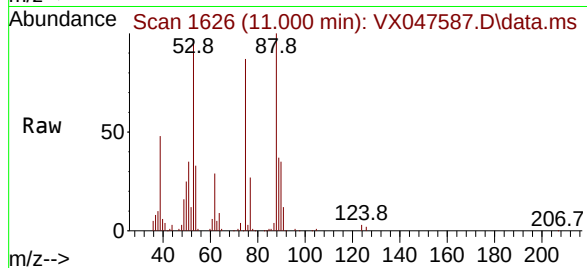
120 47.4 23.6 70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 19.173 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

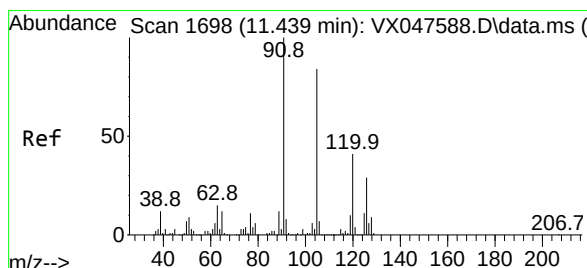
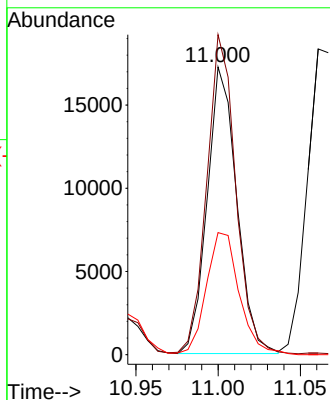
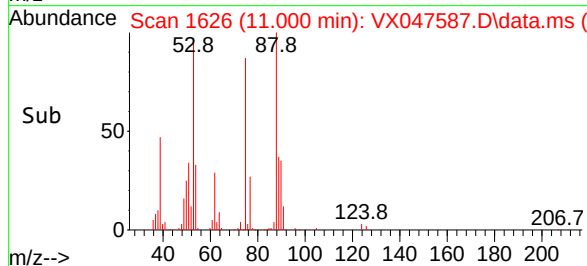
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion: 75 Resp: 2155
Ion Ratio Lower Upper
75 100
53 109.1 83.4 125.2
89 47.6 36.3 54.5

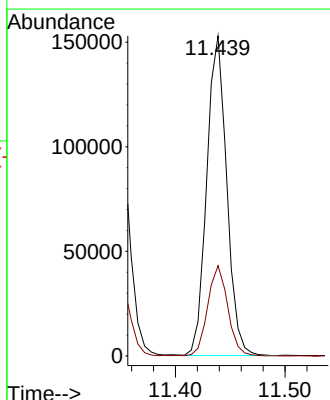
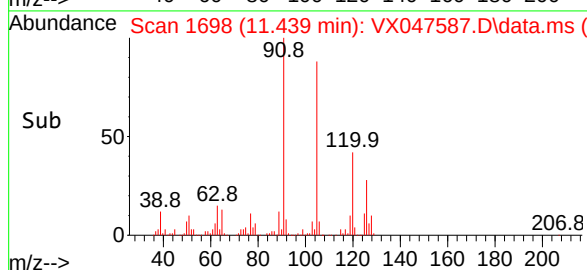
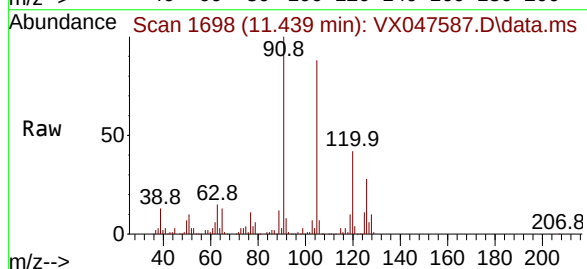
Manual Integrations
APPROVED

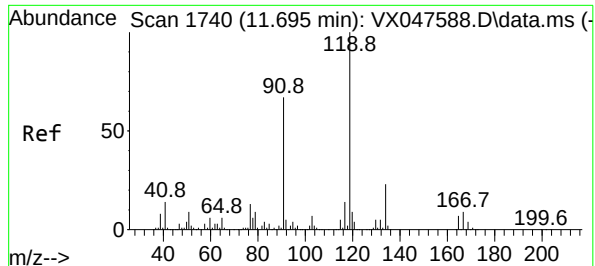
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 20.980 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 193122
Ion Ratio Lower Upper
91 100
126 28.5 14.2 42.6





#83

tert-Butylbenzene

Concen: 20.929 ug/l

RT: 11.695 min Scan# 1119

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:119 Resp: 189484

Ion Ratio Lower Upper

119 100

91 59.2 29.6 88.8

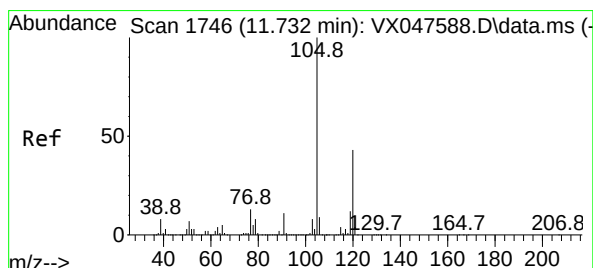
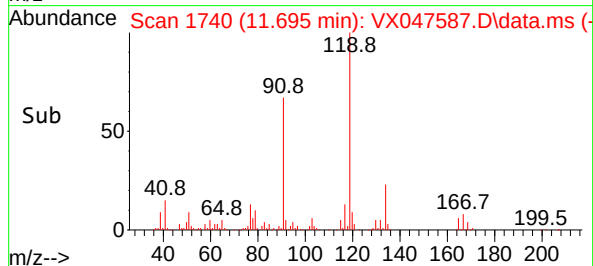
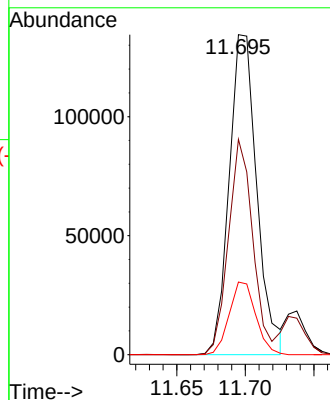
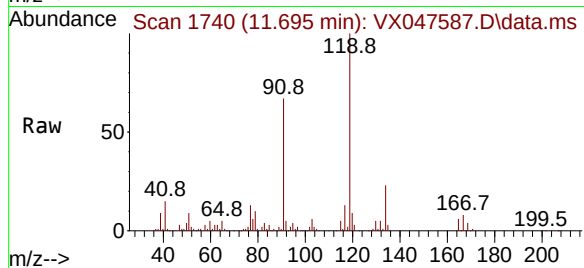
134 21.8 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 21.355 ug/l

RT: 11.738 min Scan# 1747

Delta R.T. 0.006 min

Lab File: VX047587.D

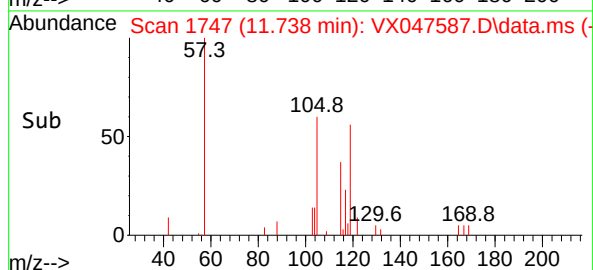
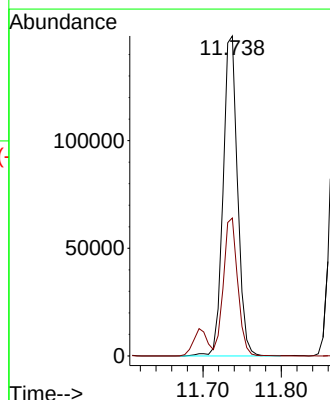
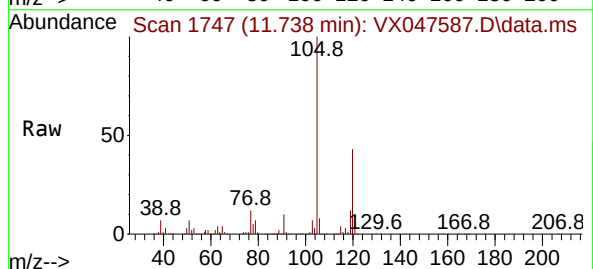
Acq: 16 Sep 2025 10:37

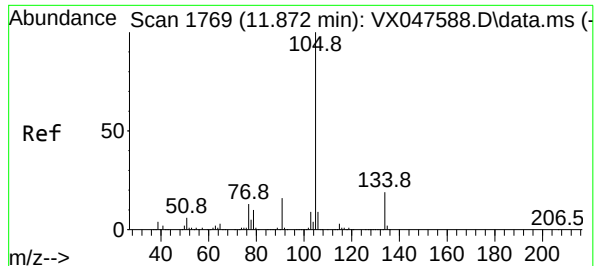
Tgt Ion:105 Resp: 191477

Ion Ratio Lower Upper

105 100

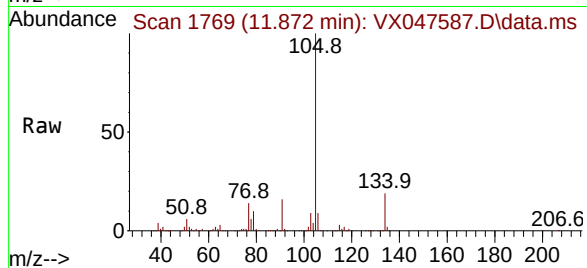
120 42.6 22.1 66.1





#85
sec-Butylbenzene
Concen: 20.777 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

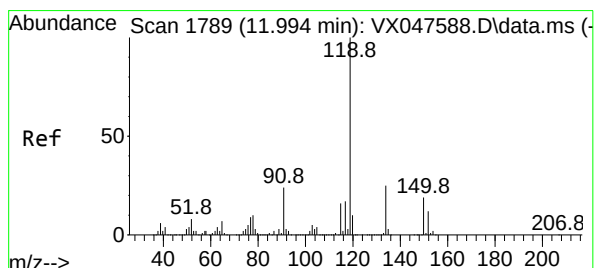
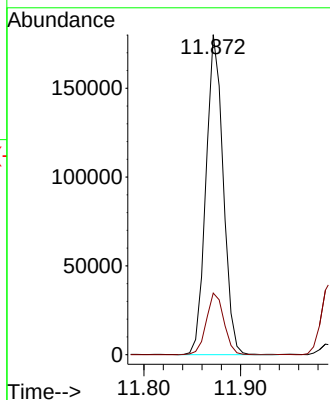
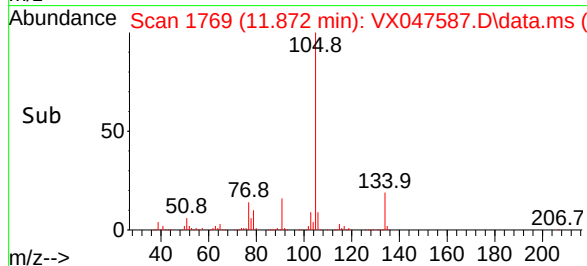
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:105 Resp: 223434
Ion Ratio Lower Upper
105 100
134 19.7 9.8 29.5

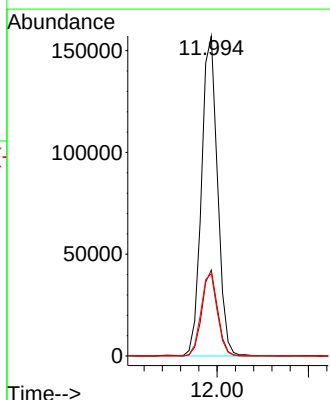
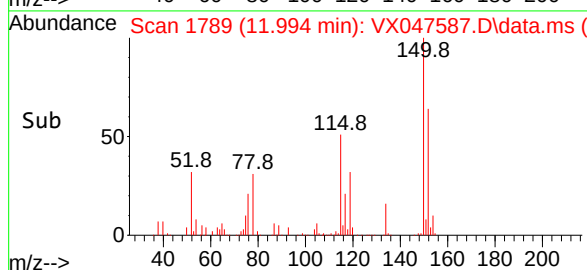
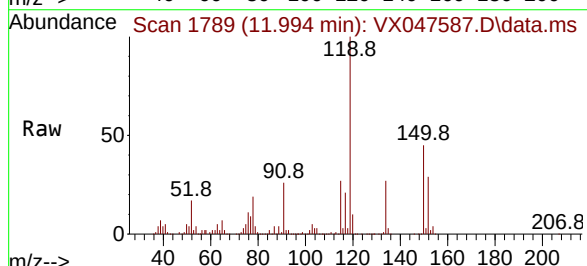
Manual Integrations
APPROVED

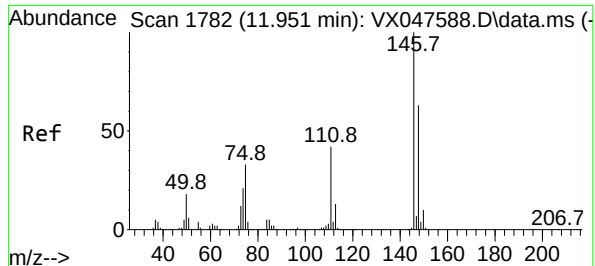
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#86
p-Isopropyltoluene
Concen: 20.972 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

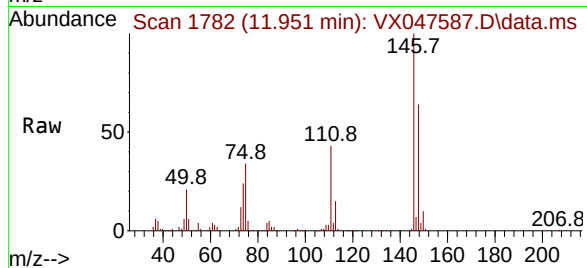
Tgt Ion:119 Resp: 190931
Ion Ratio Lower Upper
119 100
134 26.1 12.6 37.8
91 26.2 12.6 37.6





#87
1,3-Dichlorobenzene
Concen: 21.035 ug/l
RT: 11.951 min Scan# 1782
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

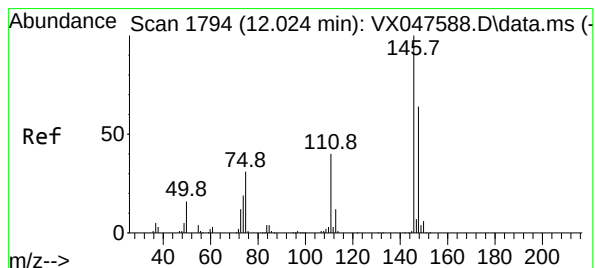
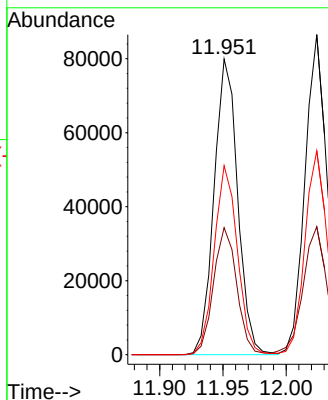
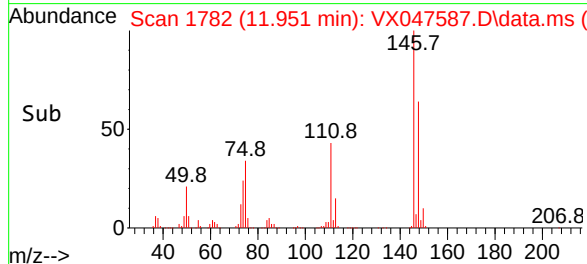
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:146 Resp: 103584
Ion Ratio Lower Upper
146 100
111 42.4 21.5 64.5
148 62.7 32.0 96.0

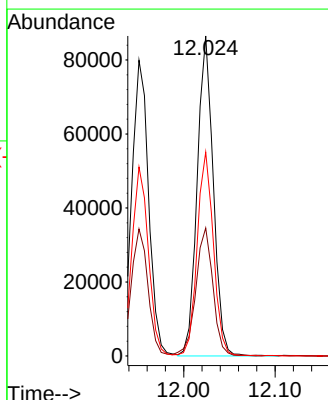
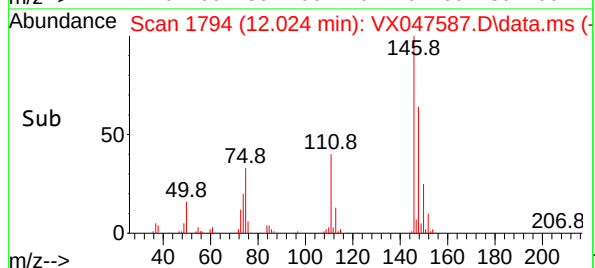
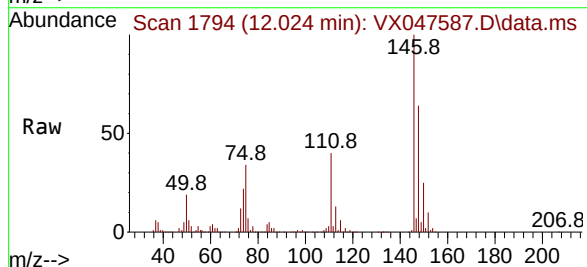
Manual Integrations
APPROVED

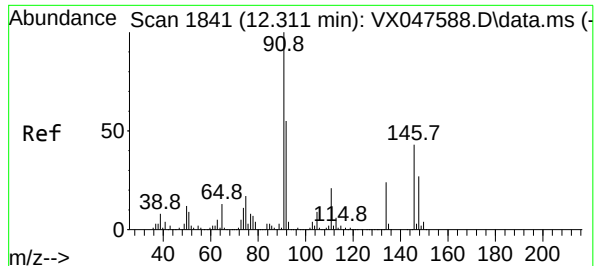
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#88
1,4-Dichlorobenzene
Concen: 20.937 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 105819
Ion Ratio Lower Upper
146 100
111 42.6 20.8 62.4
148 64.4 31.7 95.1





#89

n-Butylbenzene

Concen: 20.937 ug/l

RT: 12.317 min Scan# 1841

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 17637

Ion Ratio Lower Upper

91 100

92 54.6 27.6 82.7

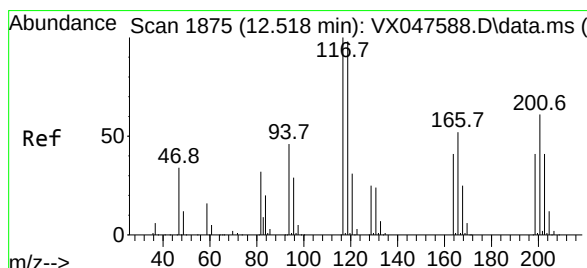
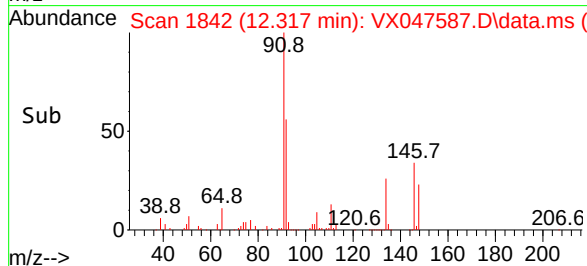
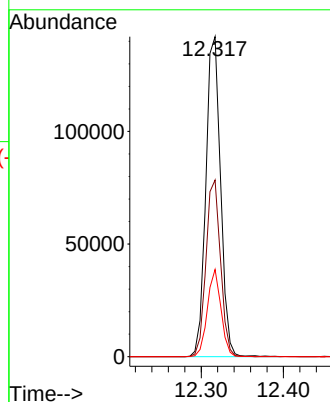
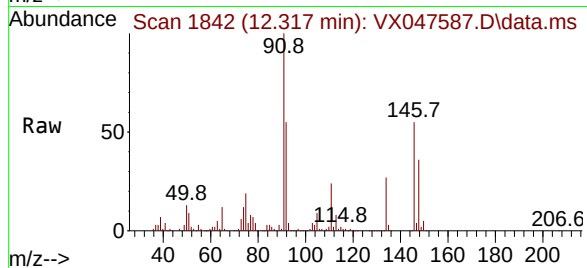
134 25.3 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 20.349 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX047587.D

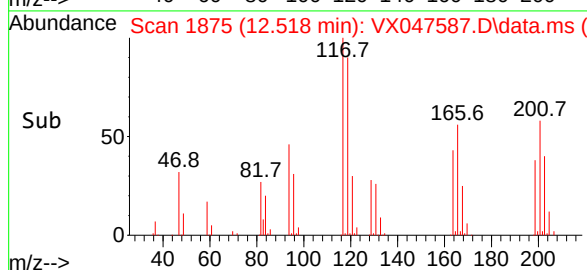
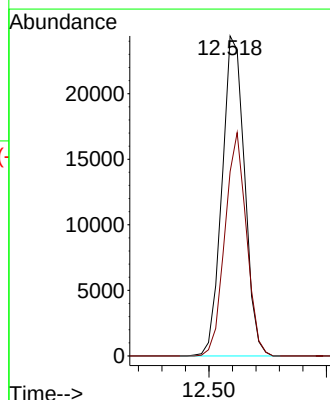
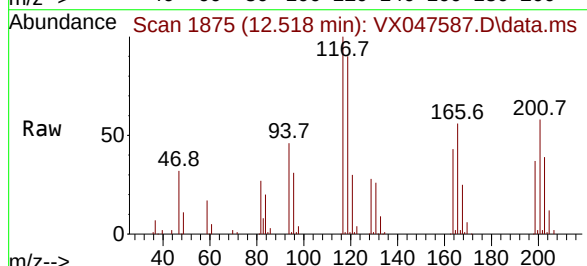
Acq: 16 Sep 2025 10:37

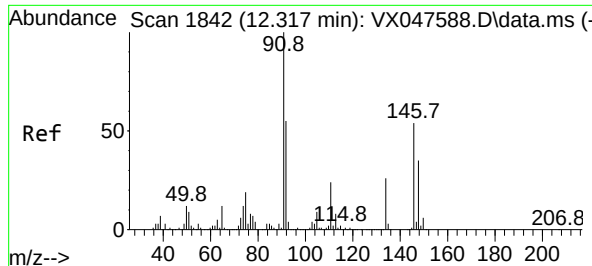
Tgt Ion:117 Resp: 32526

Ion Ratio Lower Upper

117 100

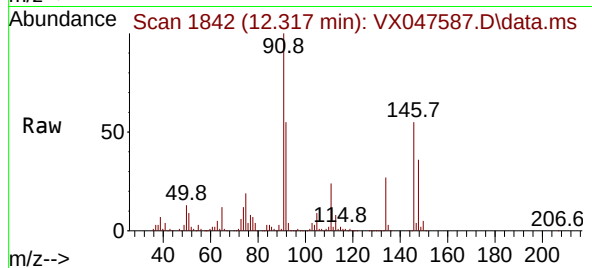
201 66.6 34.2 102.5





#91
1,2-Dichlorobenzene
Concen: 21.207 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

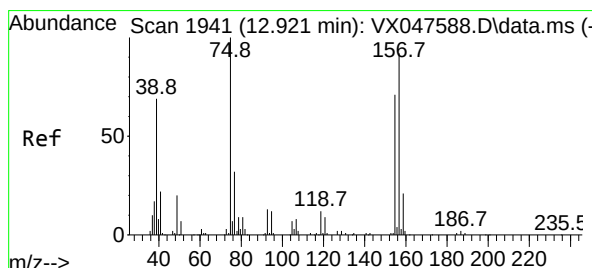
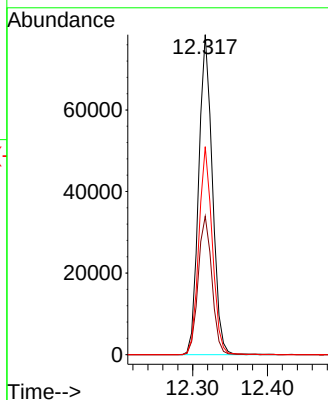
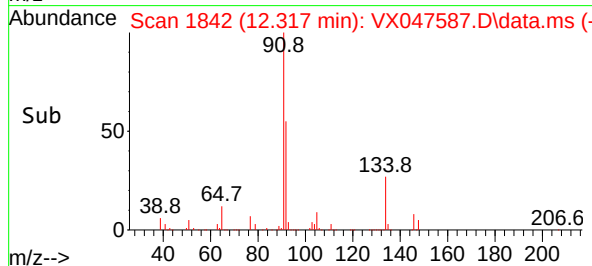
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:146 Resp: 9949
Ion Ratio Lower Upper
146 100
111 43.4 22.2 66.6
148 63.9 31.8 95.4

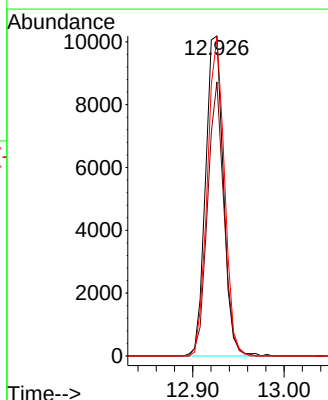
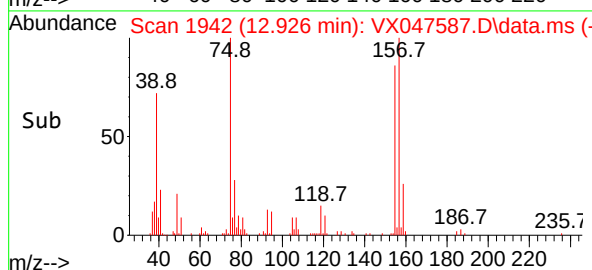
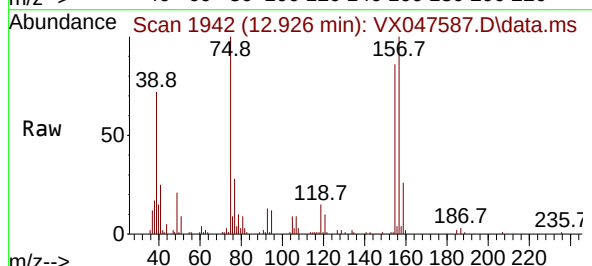
Manual Integrations
APPROVED

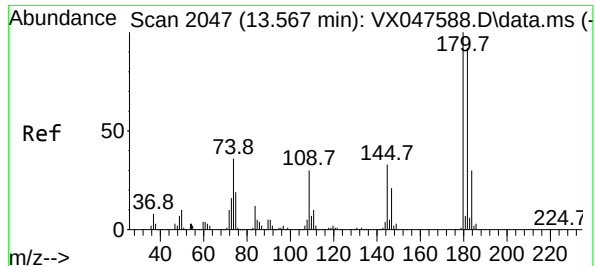
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.821 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 13729
Ion Ratio Lower Upper
75 100
155 78.8 37.7 113.1
157 95.9 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 20.571 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

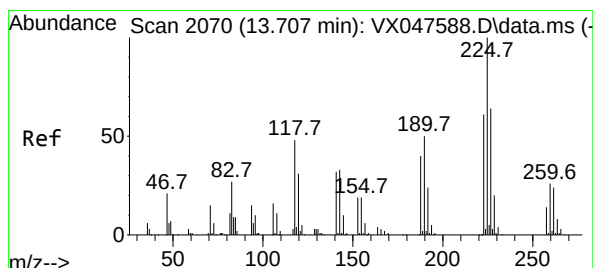
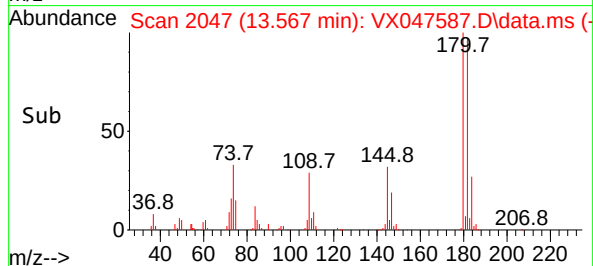
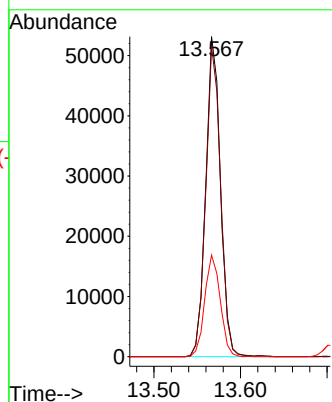
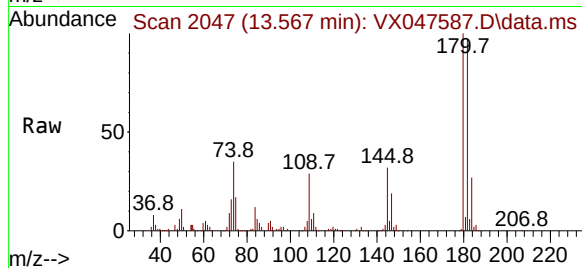
Tgt Ion:	180	Resp:	6272
Ion Ratio	Lower	Upper	
180	100		
182	97.8	46.6	139.8
145	33.4	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 19.751 ug/l

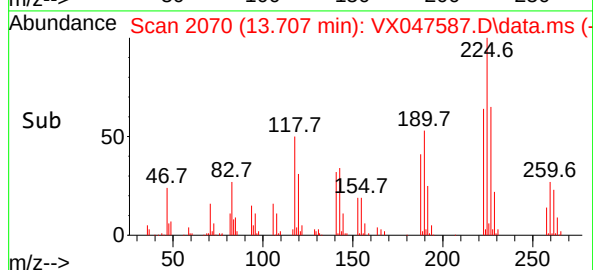
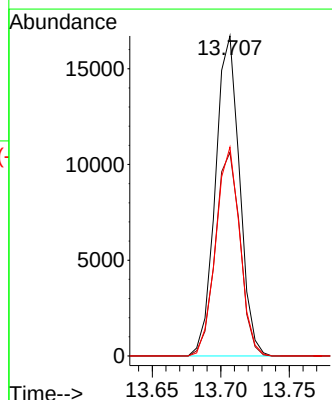
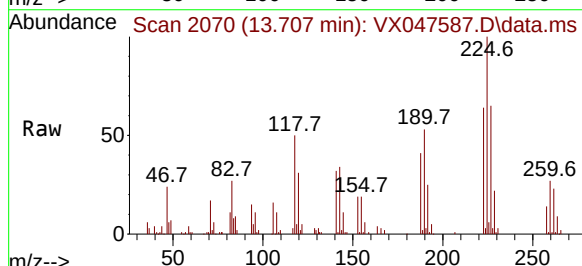
RT: 13.707 min Scan# 2070

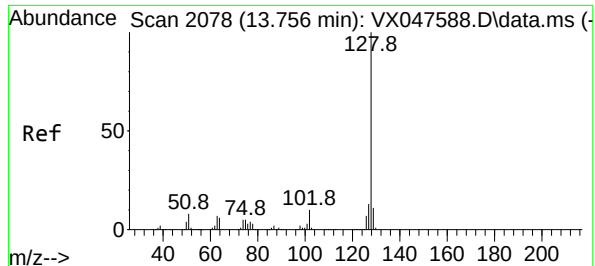
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	225	Resp:	20456
Ion Ratio	Lower	Upper	
225	100		
223	65.0	31.7	95.1
227	65.1	32.0	96.0





#95

Naphthalene

Concen: 20.801 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

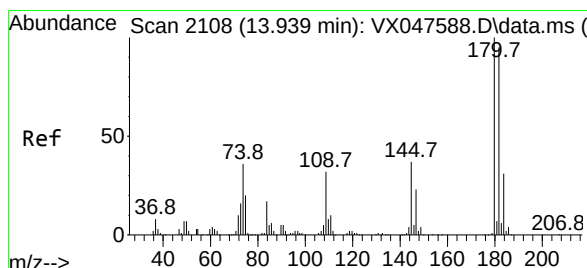
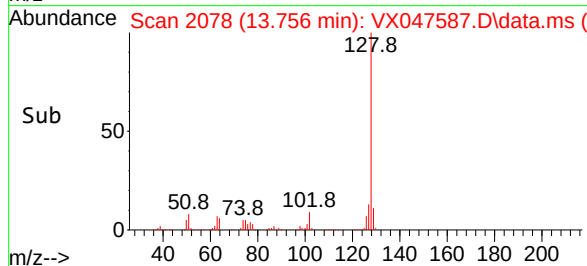
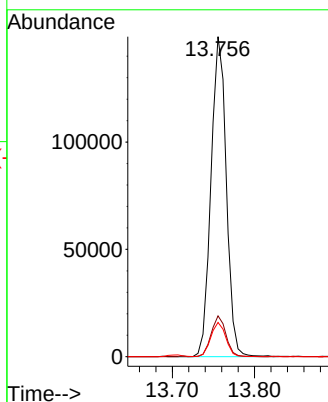
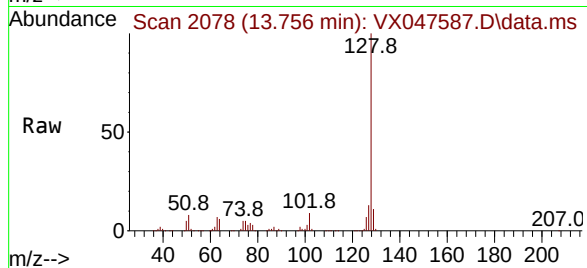
Tgt Ion:	128	Resp:	193134
Ion Ratio	Lower	Upper	
128	100		
127	12.3	10.2	15.2
129	10.5	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#96

1,2,3-Trichlorobenzene

Concen: 20.593 ug/l

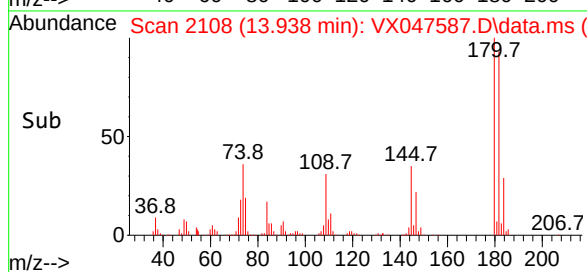
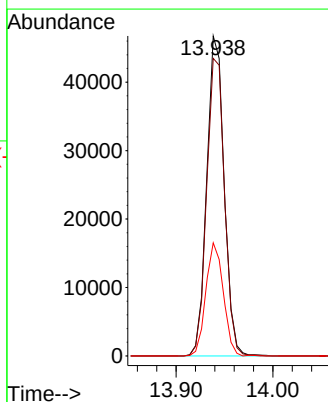
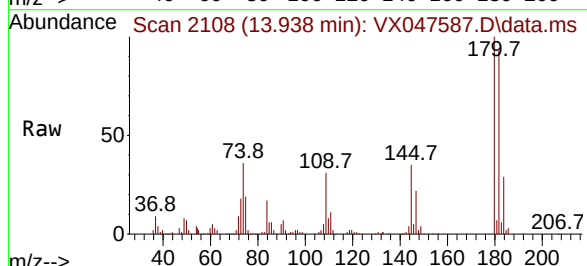
RT: 13.938 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	180	Resp:	58409
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.6	142.8
145	35.5	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047588.D
 Acq On : 16 Sep 2025 10:58
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	173407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	307383	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	270040	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	127732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	133606	48.404	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.800%		
35) Dibromofluoromethane	5.373	113	101627	49.298	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.600%		
50) Toluene-d8	8.635	98	352578	49.428	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.860%		
62) 4-Bromofluorobenzene	11.061	95	131217	48.471	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.940%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	86824	48.352	ug/l	100
3) Chloromethane	1.301	50	114682	48.594	ug/l	100
4) Vinyl Chloride	1.380	62	114666	49.635	ug/l	100
5) Bromomethane	1.618	94	73561	50.216	ug/l	100
6) Chloroethane	1.697	64	76736	49.698	ug/l	100
7) Trichlorofluoromethane	1.898	101	172561	50.307	ug/l	100
8) Diethyl Ether	2.136	74	70874	50.510	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	101178	50.445	ug/l	100
10) Methyl Iodide	2.459	142	158046	50.525	ug/l	100
11) Tert butyl alcohol	2.941	59	77232	251.232	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104724	50.831	ug/l	100
13) Acrolein	2.239	56	70721	249.645	ug/l	100
14) Allyl chloride	2.666	41	210001	49.396	ug/l	100
15) Acrylonitrile	3.063	53	300642	264.027	ug/l	100
16) Acetone	2.374	43	275065	229.193	ug/l	100
17) Carbon Disulfide	2.520	76	271480	48.133	ug/l	100
18) Methyl Acetate	2.703	43	151968	56.897	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	389607	51.804	ug/l	100
20) Methylene Chloride	2.788	84	126506	49.798	ug/l	100
21) trans-1,2-Dichloroethene	3.093	96	112553	50.743	ug/l	100
22) Diisopropyl ether	3.758	45	429524	52.131	ug/l	100
23) Vinyl Acetate	3.715	43	1726735	261.852	ug/l	100
24) 1,1-Dichloroethane	3.605	63	224824	51.338	ug/l	100
25) 2-Butanone	4.538	43	380335	254.060	ug/l	100
26) 2,2-Dichloropropane	4.465	77	185247	50.888	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	140105	51.576	ug/l	100
28) Bromochloromethane	4.891	49	99991	52.301	ug/l	100
29) Tetrahydrofuran	4.989	42	238677	265.026	ug/l	100
30) Chloroform	5.080	83	229430	51.844	ug/l	100
31) Cyclohexane	5.458	56	178546	48.952	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	195407	52.058	ug/l	100
36) 1,1-Dichloropropene	5.684	75	149800	49.729	ug/l	100
37) Ethyl Acetate	4.702	43	163482	50.687	ug/l	100
38) Carbon Tetrachloride	5.672	117	165730	50.637	ug/l	100
39) Methylcyclohexane	7.367	83	173610	50.773	ug/l	100
40) Benzene	6.025	78	468136	51.167	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047588.D
 Acq On : 16 Sep 2025 10:58
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	87761	52.707	ug/l	100
42) 1,2-Dichloroethane	6.074	62	179037	51.431	ug/l	100
43) Isopropyl Acetate	6.324	43	275572	52.096	ug/l	100
44) Trichloroethene	7.111	130	113832	51.463	ug/l	100
45) 1,2-Dichloropropane	7.415	63	122109	52.122	ug/l	100
46) Dibromomethane	7.568	93	88505	51.914	ug/l	100
47) Bromodichloromethane	7.806	83	186540	53.025	ug/l	100
48) Methyl methacrylate	7.678	41	138167	52.438	ug/l	100
49) 1,4-Dioxane	7.647	88	29496	1107.698	ug/l	100
51) 4-Methyl-2-Pentanone	8.562	43	784978	267.650	ug/l	100
52) Toluene	8.702	92	288853	51.244	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	190282	53.027	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	200859	52.369	ug/l	100
55) 1,1,2-Trichloroethane	9.135	97	112837	51.915	ug/l	100
56) Ethyl methacrylate	9.104	69	184087	53.930	ug/l	100
57) 1,3-Dichloropropane	9.293	76	195989	52.492	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	418707	256.309	ug/l	100
59) 2-Hexanone	9.415	43	553313	262.683	ug/l	100
60) Dibromochloromethane	9.506	129	133737	53.401	ug/l	100
61) 1,2-Dibromoethane	9.592	107	116462	52.607	ug/l	100
64) Tetrachloroethene	9.257	164	88149	50.074	ug/l	100
65) Chlorobenzene	10.061	112	317982	51.833	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	111849	52.835	ug/l	100
67) Ethyl Benzene	10.177	91	550610	52.017	ug/l	100
68) m/p-Xylenes	10.287	106	412932	104.809	ug/l	100
69) o-Xylene	10.622	106	202291	53.084	ug/l	100
70) Styrene	10.640	104	350654	52.515	ug/l	100
71) Bromoform	10.781	173	84485	53.447	ug/l #	100
73) Isopropylbenzene	10.945	105	516891	53.227	ug/l	100
74) N-amyl acetate	10.829	43	237846	53.710	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	156454	53.251	ug/l	100
76) 1,2,3-Trichloropropane	11.220	75	144074m	54.322	ug/l	
77) Bromobenzene	11.183	156	126174	52.754	ug/l	100
78) n-propylbenzene	11.287	91	612035	53.315	ug/l	100
79) 2-Chlorotoluene	11.348	91	372397	52.965	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	426989	53.518	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	52927	52.190	ug/l	100
82) 4-Chlorotoluene	11.439	91	438502	52.806	ug/l	100
83) tert-Butylbenzene	11.695	119	429107	52.539	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	427073	52.798	ug/l	100
85) sec-Butylbenzene	11.872	105	514442	53.029	ug/l	100
86) p-Isopropyltoluene	11.994	119	436704	53.172	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	232038	52.232	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	233975	51.316	ug/l	100
89) n-Butylbenzene	12.311	91	400997	52.766	ug/l	100
90) Hexachloroethane	12.518	117	75800	52.567	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	222993	52.688	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.921	75	32451	54.554	ug/l	100
93) 1,2,4-Trichlorobenzene	13.567	180	147670	53.685	ug/l	100
94) Hexachlorobutadiene	13.707	225	49061	52.510	ug/l	100
95) Naphthalene	13.756	128	452013	53.966	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	138978	54.316	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

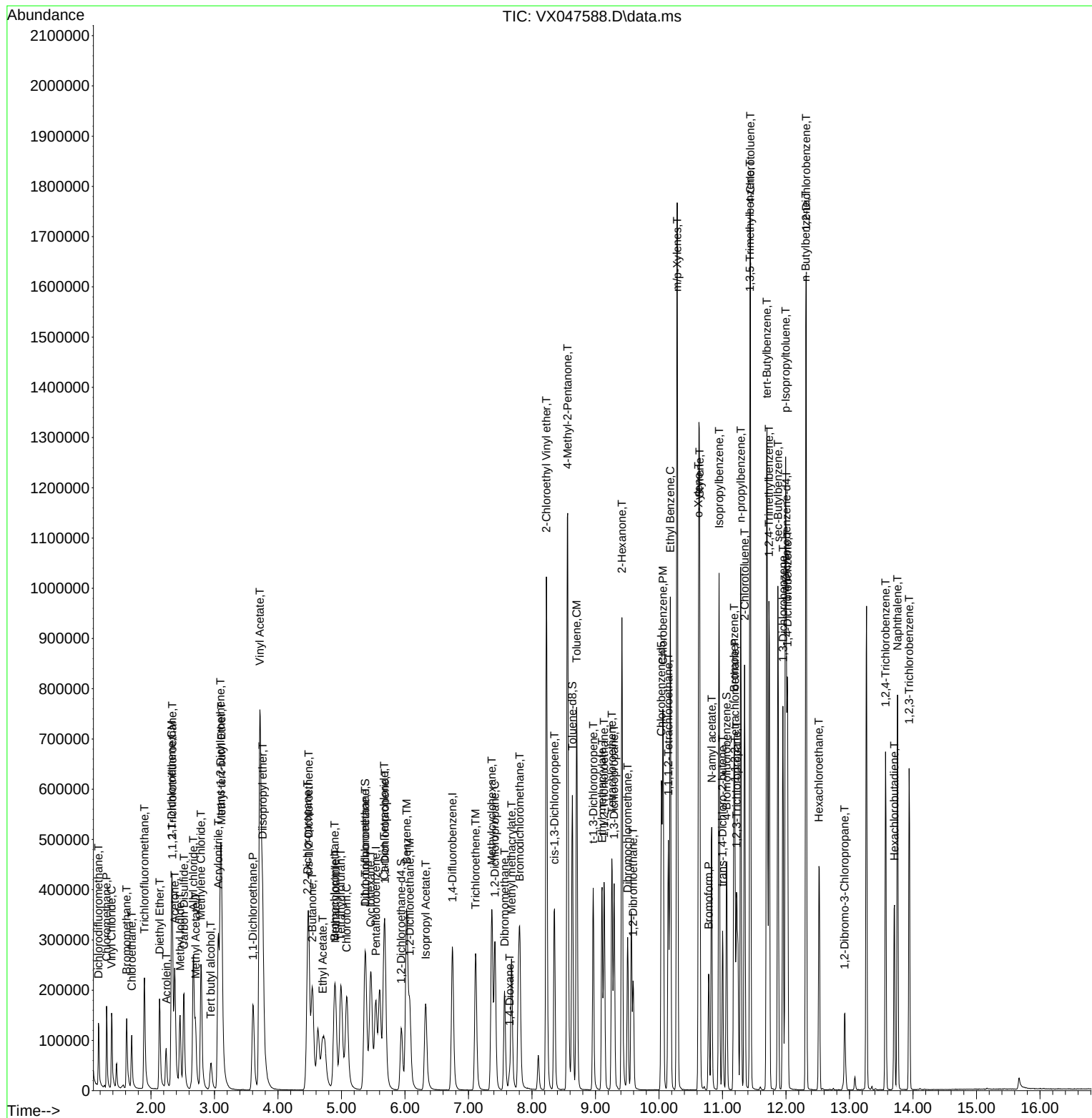
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047588.D
 Acq On : 16 Sep 2025 10:58
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

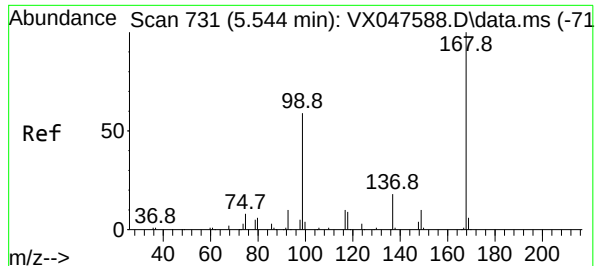
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Sep 17 06:13:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025





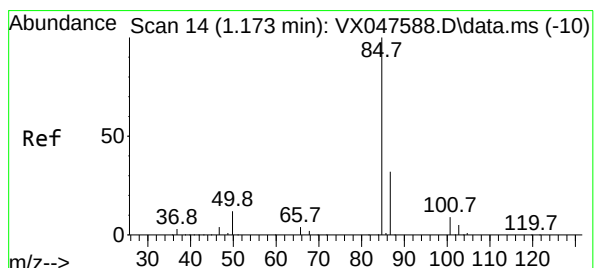
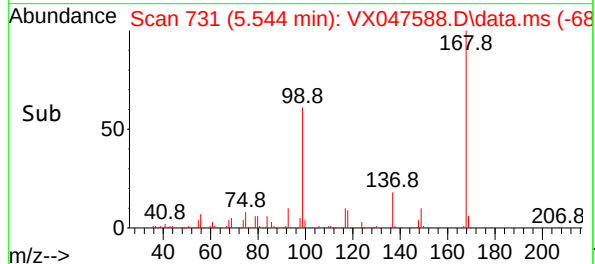
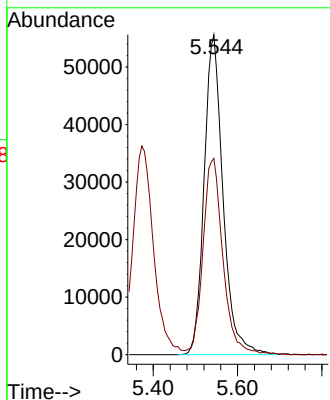
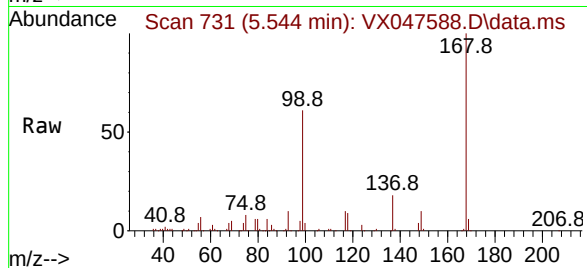
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 17340
Ion Ratio Lower Upper
168 100
99 61.0 48.8 73.2

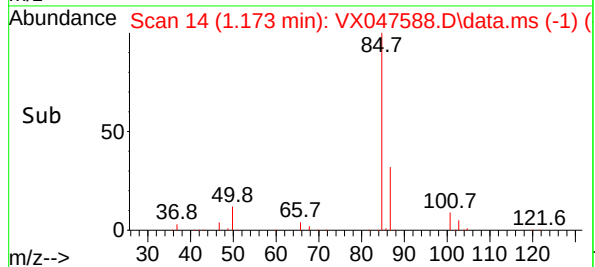
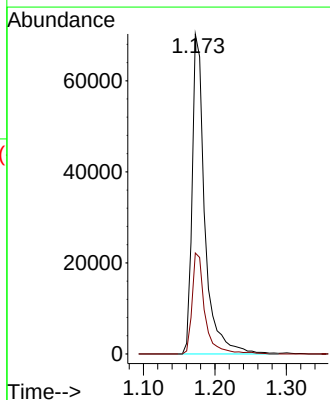
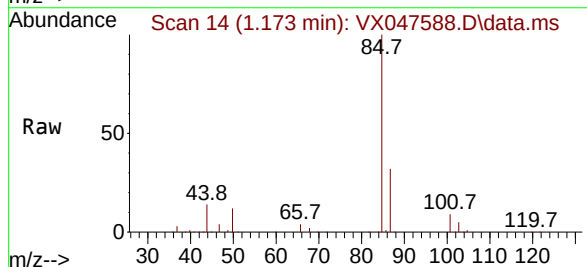
Manual Integrations
APPROVED

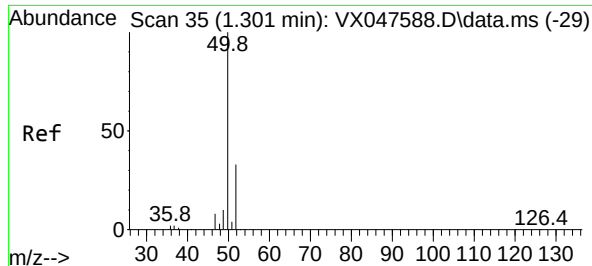
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 48.352 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 85 Resp: 86824
Ion Ratio Lower Upper
85 100
87 31.5 15.8 47.3





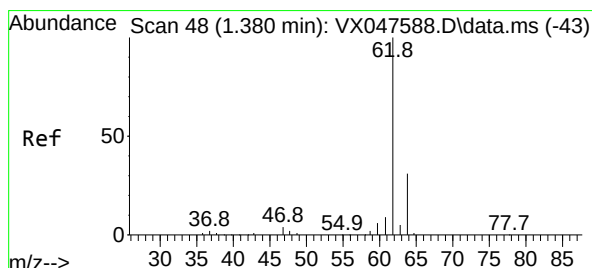
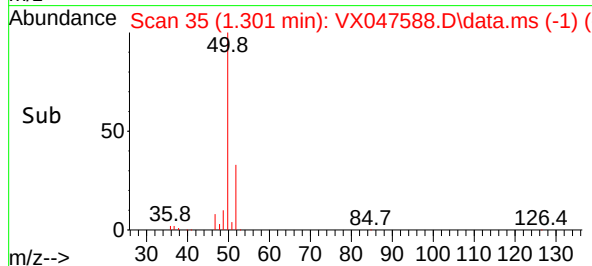
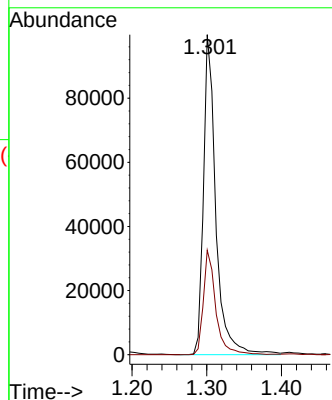
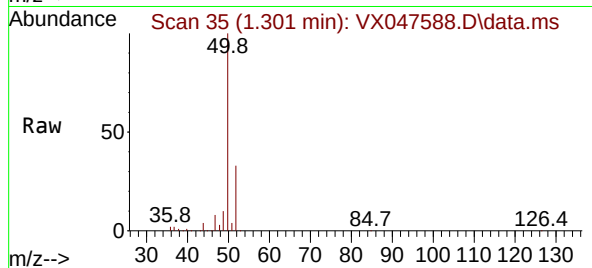
#3
Chloromethane
Concen: 48.594 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 114682
Ion Ratio Lower Upper
50 100
52 32.6 26.1 39.1

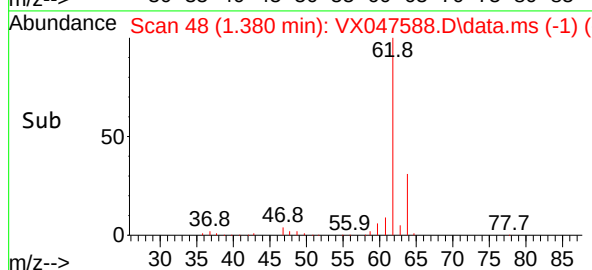
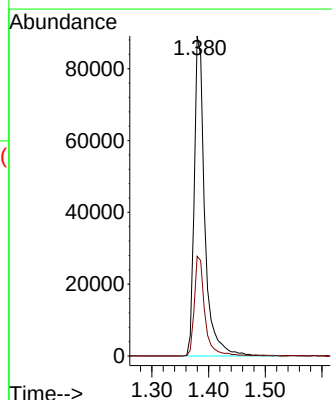
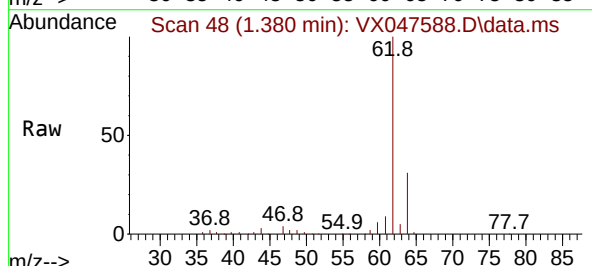
Manual Integrations
APPROVED

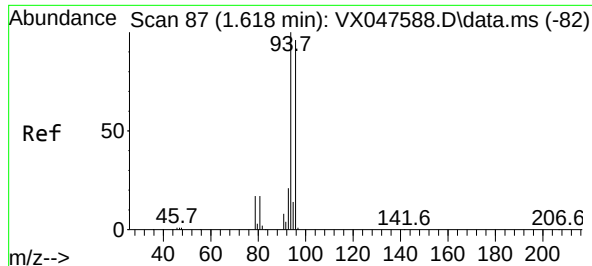
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 49.635 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 114666
Ion Ratio Lower Upper
62 100
64 31.1 24.9 37.3





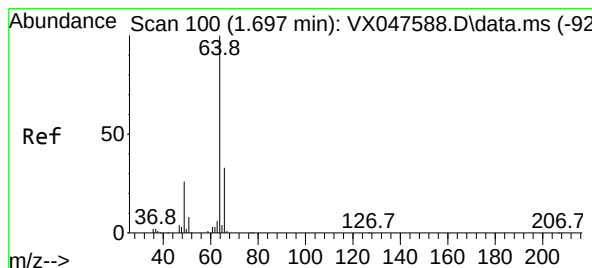
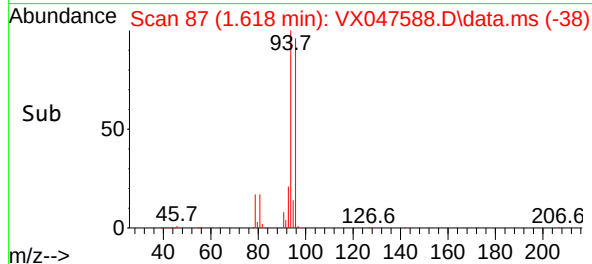
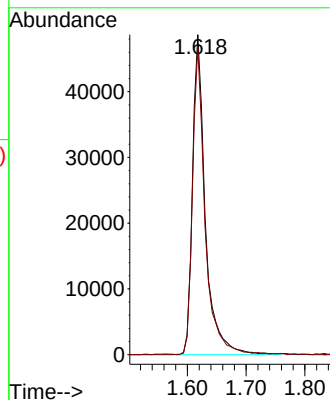
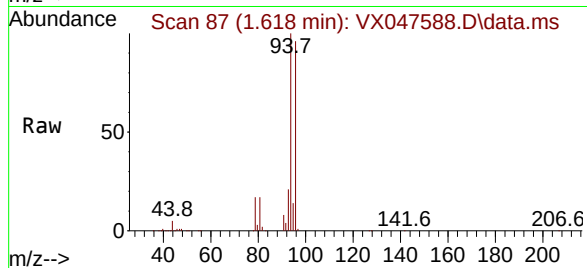
#5
Bromomethane
Concen: 50.216 ug/l
RT: 1.618 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 7356
Ion Ratio Lower Upper
94 100
96 95.8 76.6 115.0

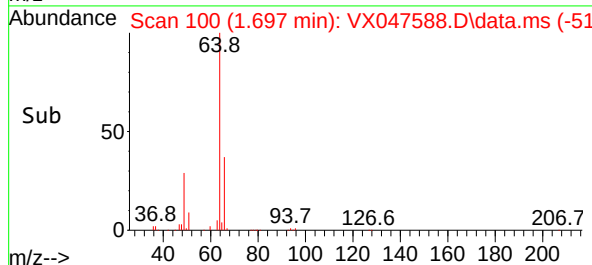
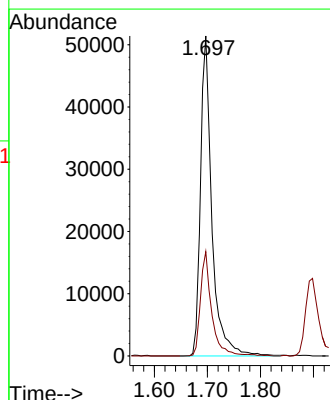
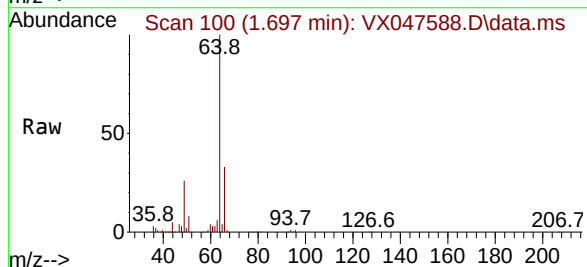
Manual Integrations
APPROVED

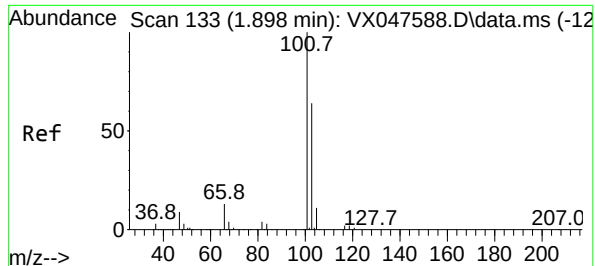
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 49.698 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 64 Resp: 76736
Ion Ratio Lower Upper
64 100
66 32.6 26.1 39.1





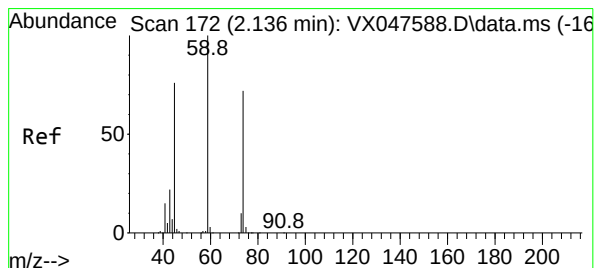
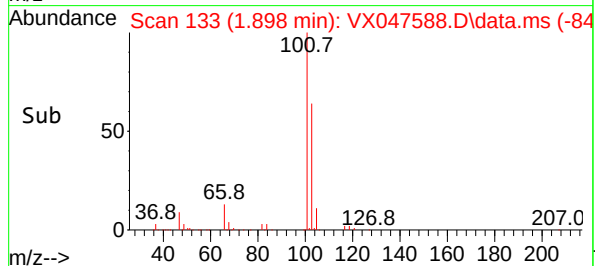
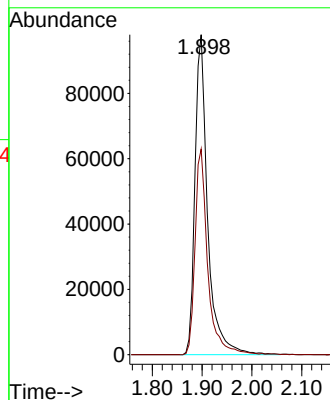
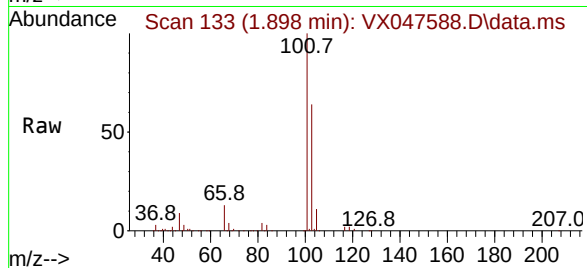
#7
Trichlorofluoromethane
Concen: 50.307 ug/l
RT: 1.898 min Scan# 133
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 17256
Ion Ratio Lower Upper
101 100
103 64.3 51.4 77.2

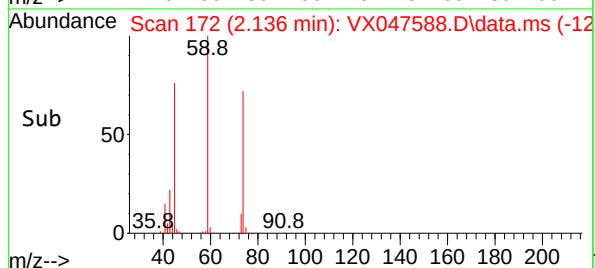
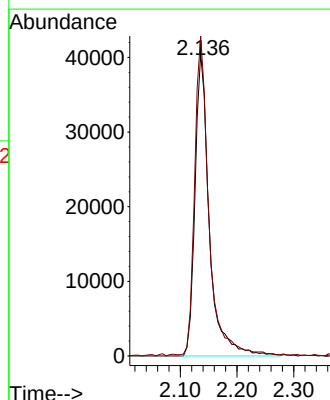
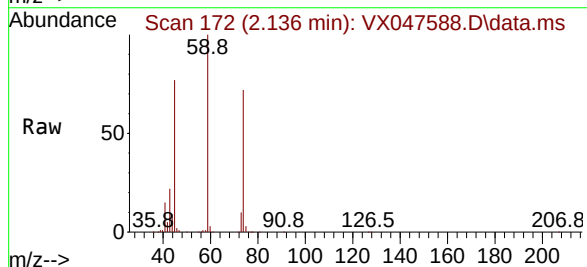
Manual Integrations
APPROVED

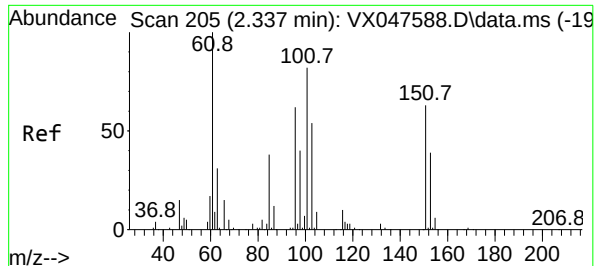
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 50.510 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 74 Resp: 70874
Ion Ratio Lower Upper
74 100
45 104.5 52.3 156.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.445 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

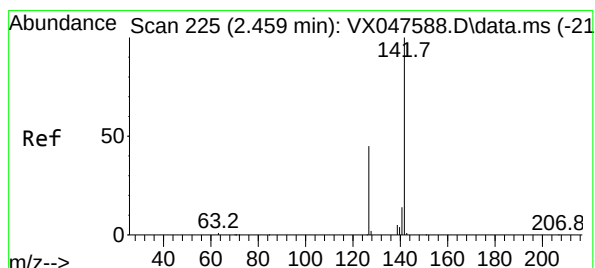
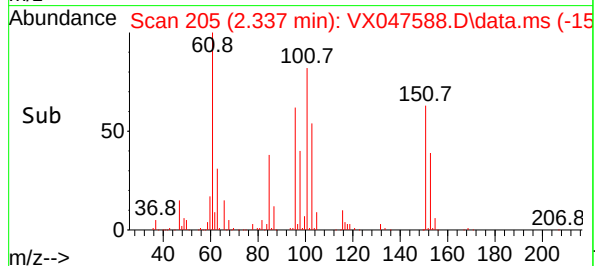
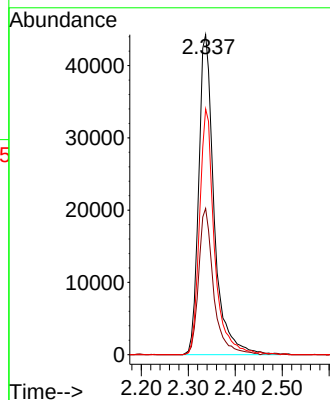
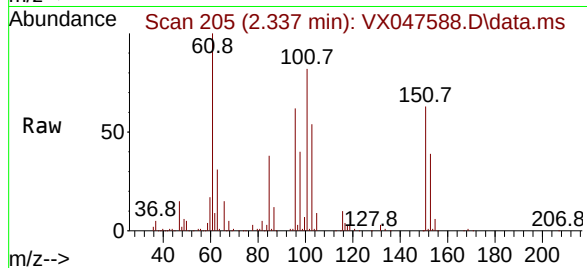
VSTDICCC050

Tgt Ion:	101	Resp:	101178
Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	74.2	59.4	89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#10

Methyl Iodide

Concen: 50.525 ug/l

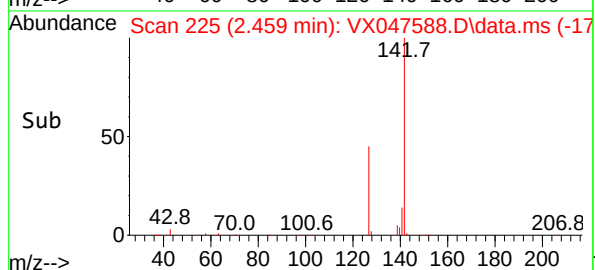
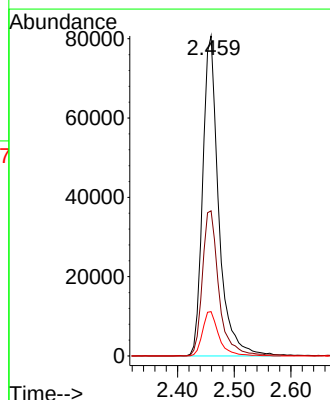
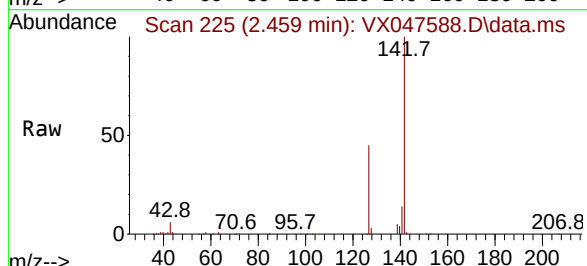
RT: 2.459 min Scan# 225

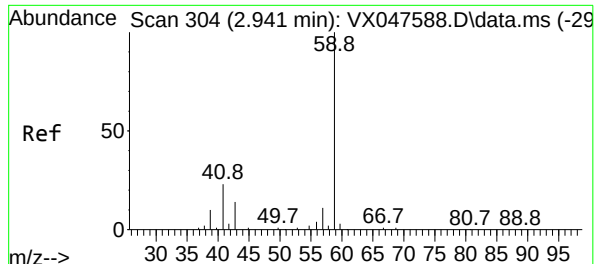
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion:	142	Resp:	158046
Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.2	11.4	17.0





#11

Tert butyl alcohol

Concen: 251.232 ug/l

RT: 2.941 min Scan# 304

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 7723

Ion Ratio Lower Upper

59 100

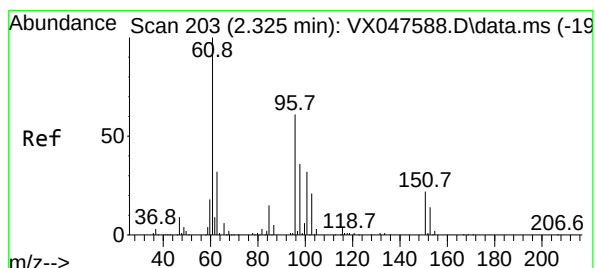
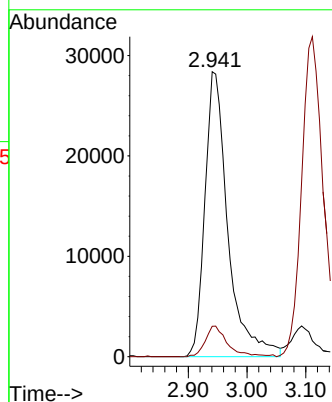
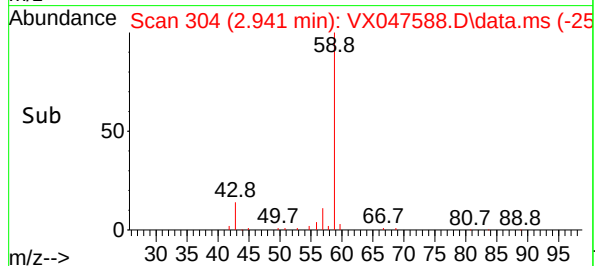
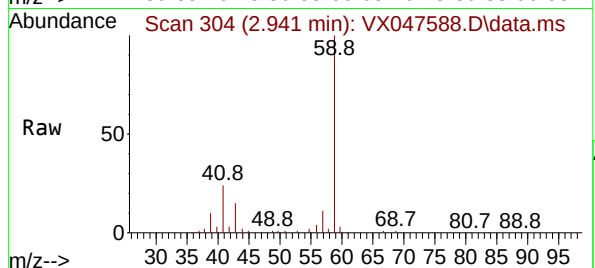
57 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 50.831 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

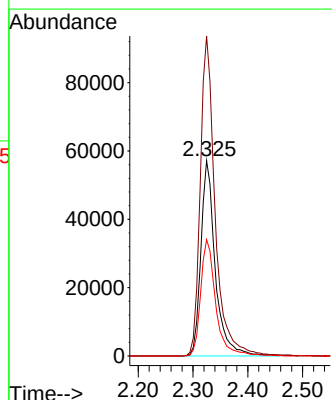
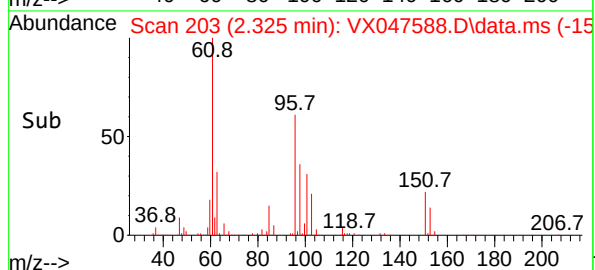
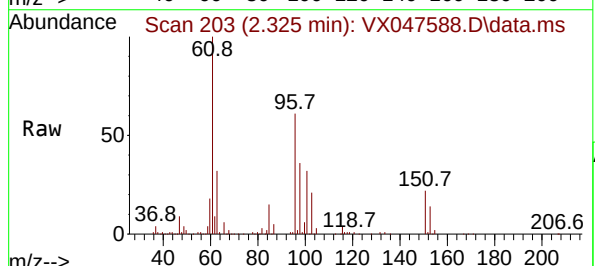
Tgt Ion: 96 Resp: 104724

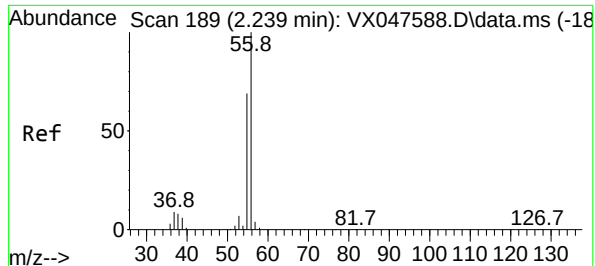
Ion Ratio Lower Upper

96 100

61 163.8 131.0 196.6

98 59.6 47.7 71.5





#13

Acrolein

Concen: 249.645 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 7072

Ion Ratio Lower Upper

56 100

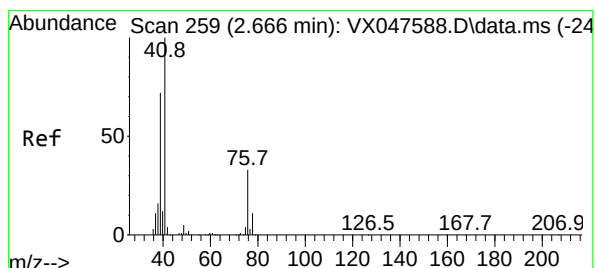
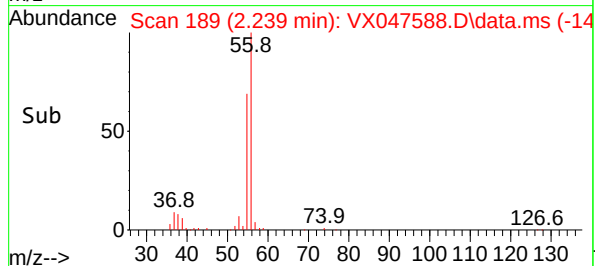
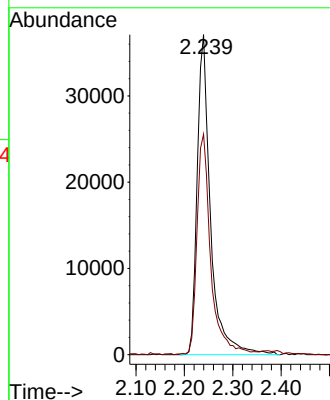
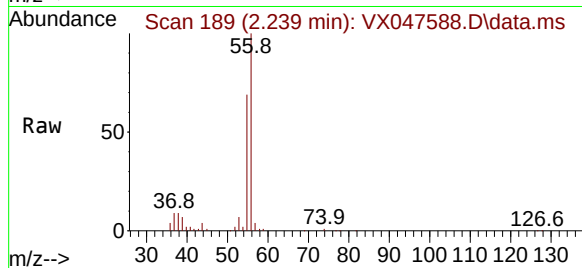
55 71.5 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 49.396 ug/l

RT: 2.666 min Scan# 259

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

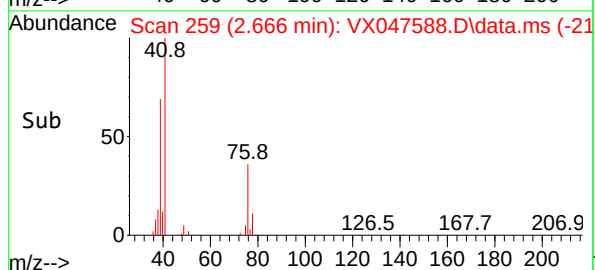
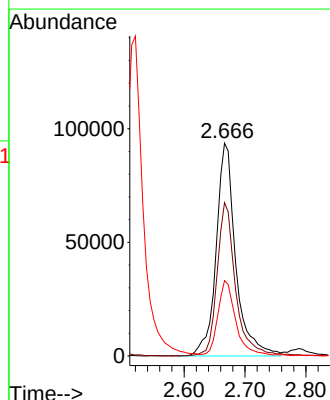
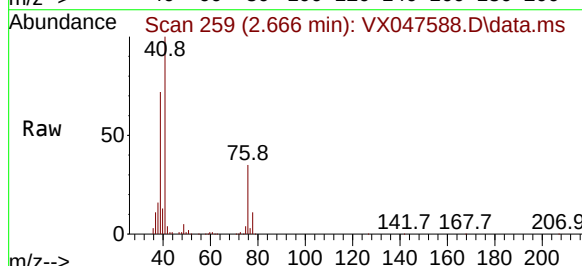
Tgt Ion: 41 Resp: 210001

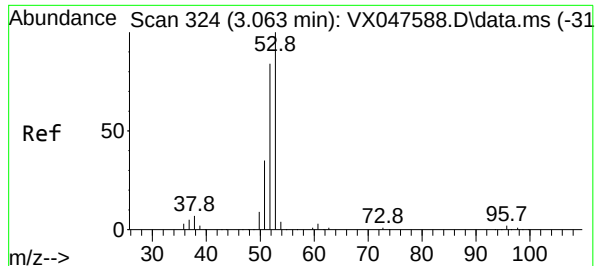
Ion Ratio Lower Upper

41 100

39 68.4 54.7 82.1

76 32.1 25.7 38.5





#15

Acrylonitrile

Concen: 264.027 ug/l

RT: 3.063 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 30064

Ion Ratio Lower Upper

53 100

52 83.0 66.4 99.6

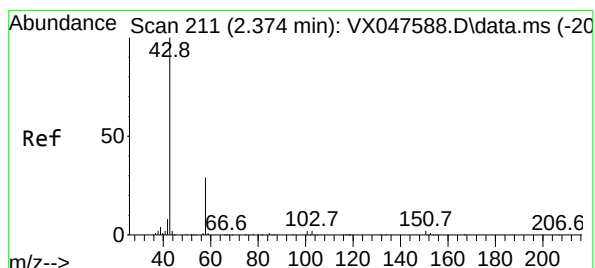
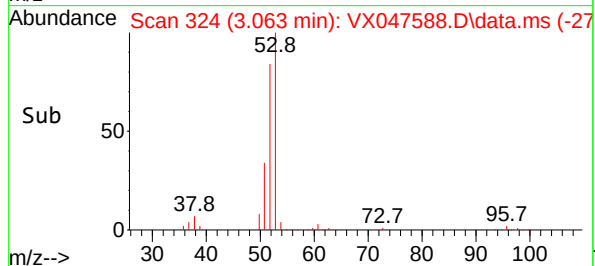
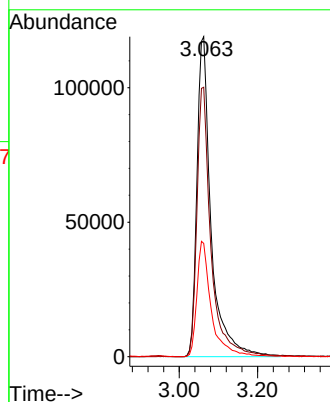
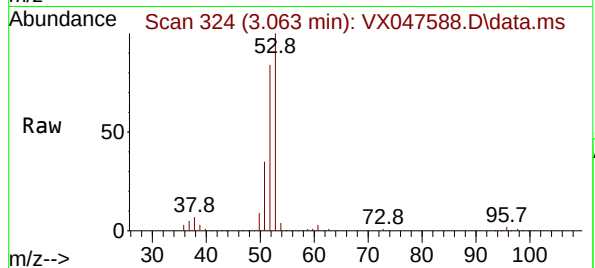
51 36.9 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 229.193 ug/l

RT: 2.374 min Scan# 211

Delta R.T. 0.000 min

Lab File: VX047588.D

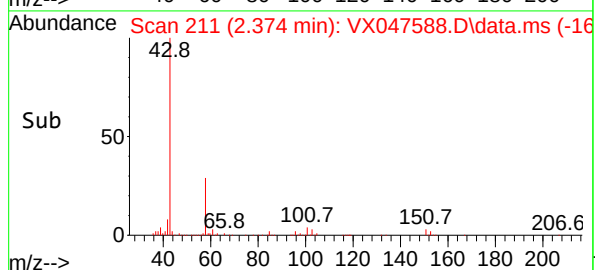
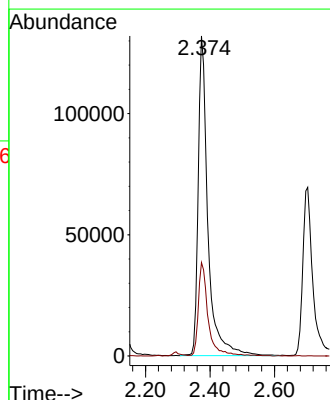
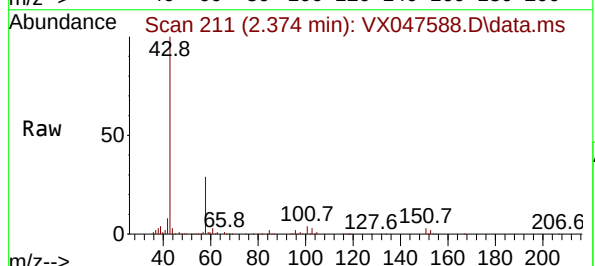
Acq: 16 Sep 2025 10:58

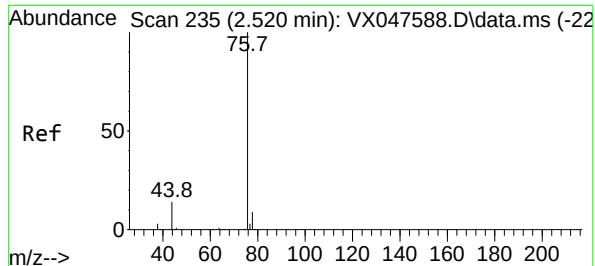
Tgt Ion: 43 Resp: 275065

Ion Ratio Lower Upper

43 100

58 29.2 23.4 35.0





#17

Carbon Disulfide

Concen: 48.133 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 271480

Ion Ratio Lower Upper

76 100

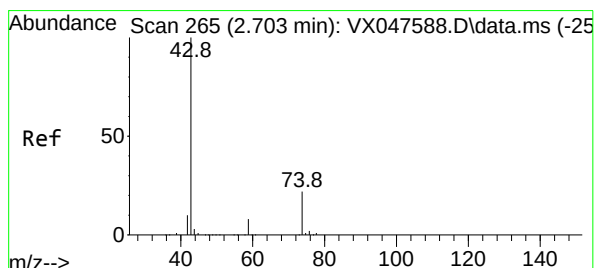
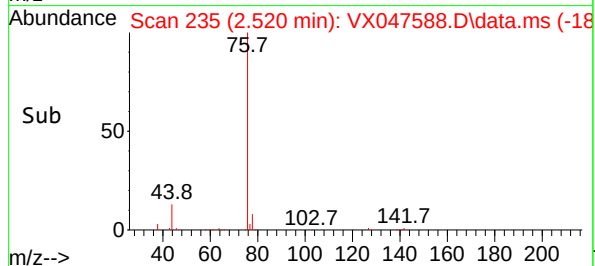
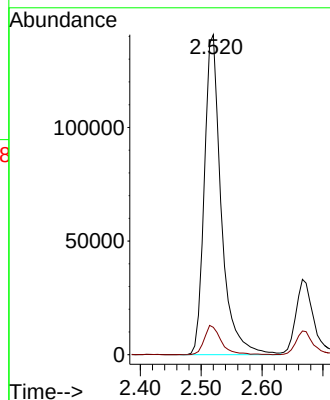
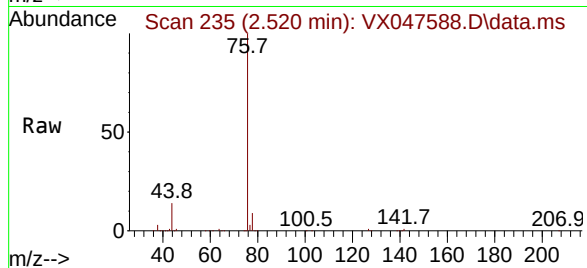
78 8.5 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 56.897 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX047588.D

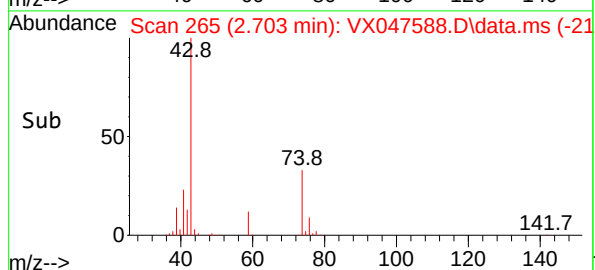
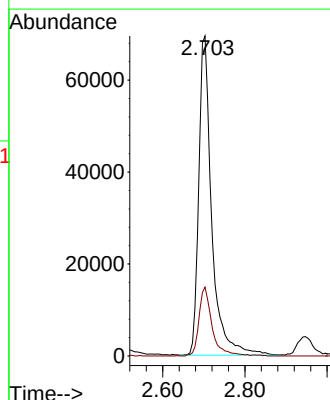
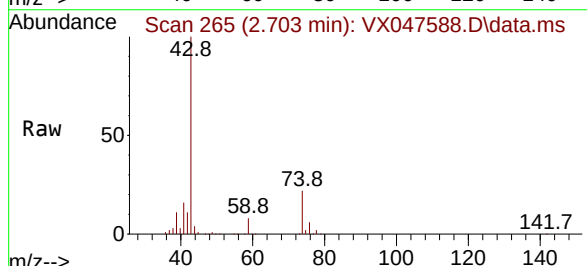
Acq: 16 Sep 2025 10:58

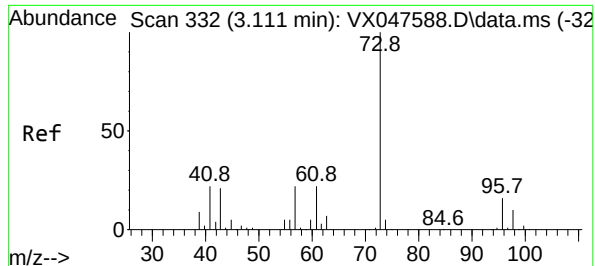
Tgt Ion: 43 Resp: 151968

Ion Ratio Lower Upper

43 100

74 21.8 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 51.804 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 38960

Ion Ratio Lower Upper

73 100

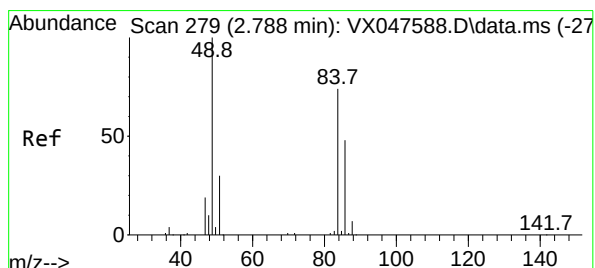
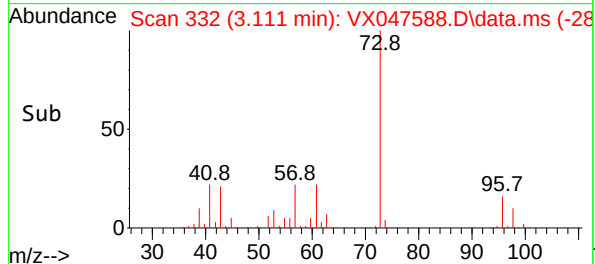
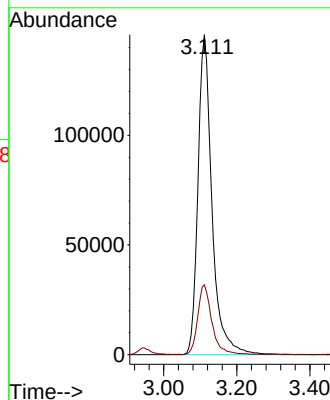
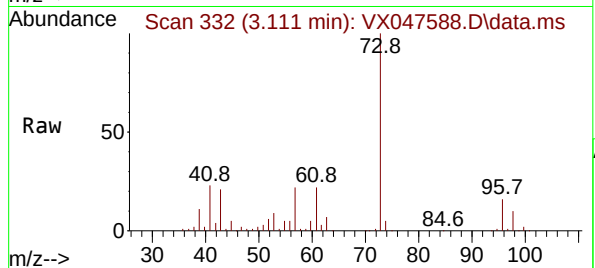
57 21.8 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 49.798 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion: 84 Resp: 126506

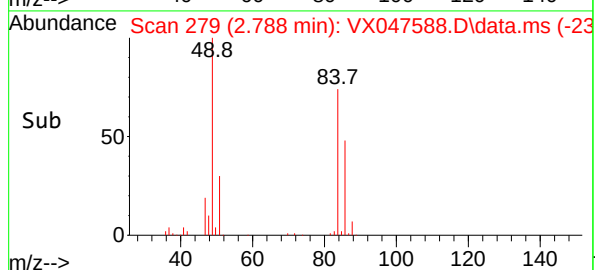
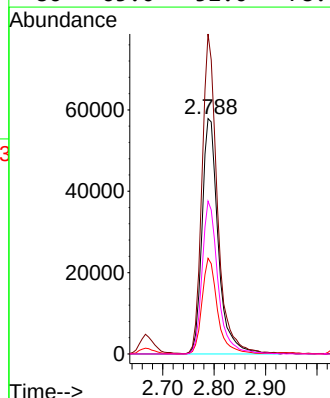
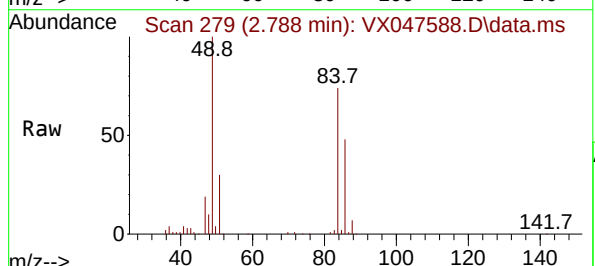
Ion Ratio Lower Upper

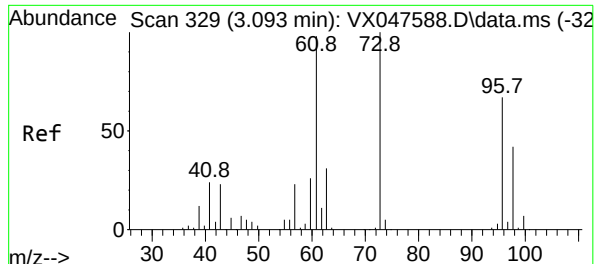
84 100

49 135.7 108.6 162.8

51 40.7 32.6 48.8

86 65.0 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 50.743 ug/l

RT: 3.093 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 11255

Ion Ratio Lower Upper

96 100

61 145.2 116.2 174.2

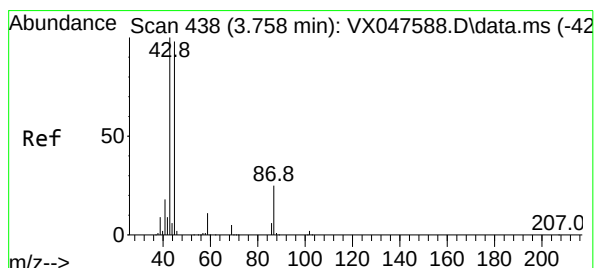
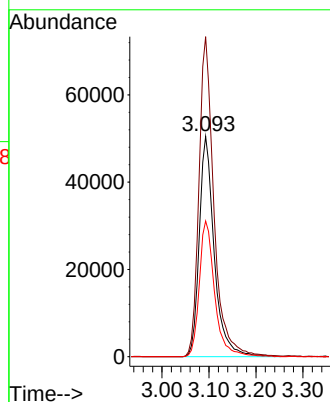
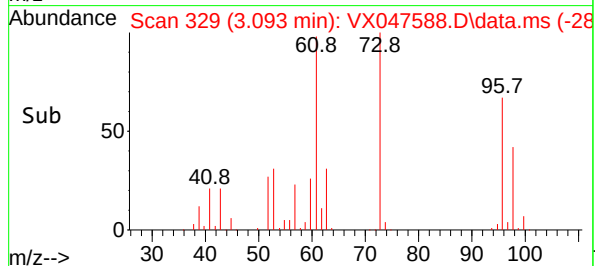
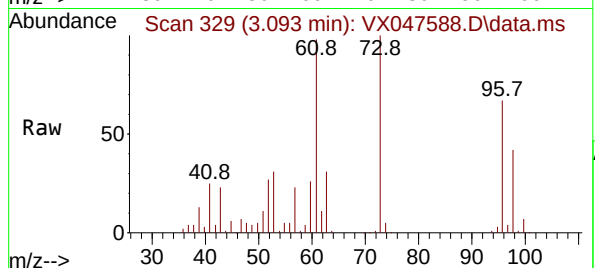
98 61.6 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#22

Diisopropyl ether

Concen: 52.131 ug/l

RT: 3.758 min Scan# 438

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion: 45 Resp: 429524

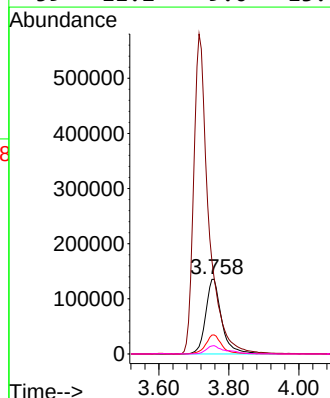
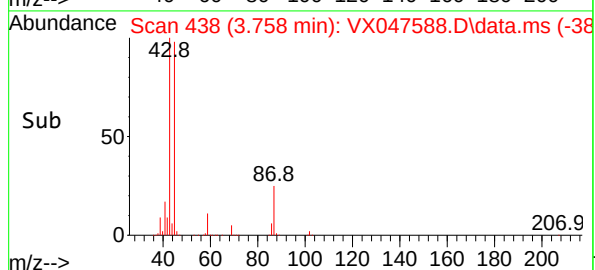
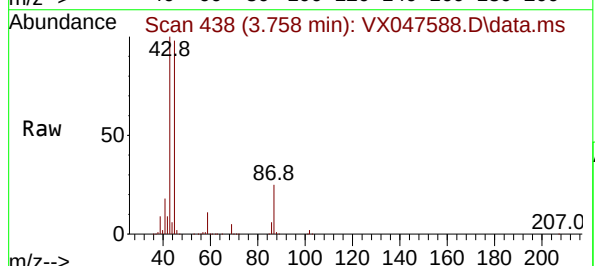
Ion Ratio Lower Upper

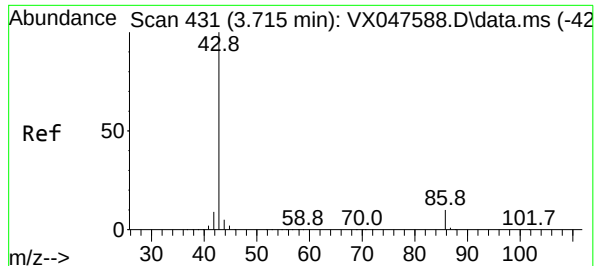
45 100

43 101.2 81.0 121.4

87 25.4 20.3 30.5

59 11.2 9.0 13.4





#23

Vinyl Acetate

Concen: 261.852 ug/l

RT: 3.715 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 172673

Ion Ratio Lower Upper

43

86

100

9.8

7.8

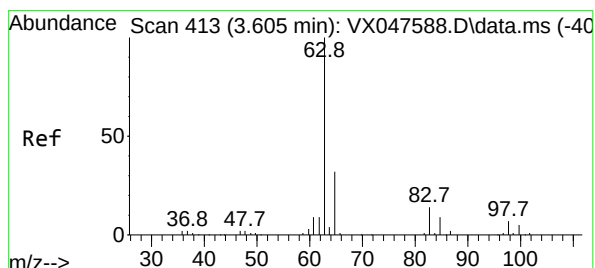
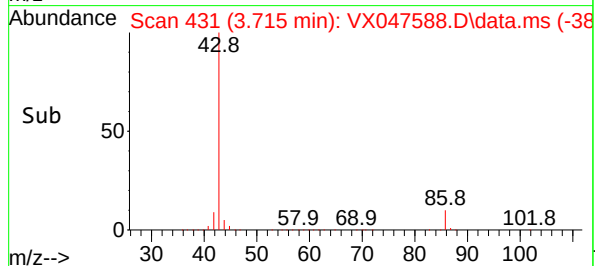
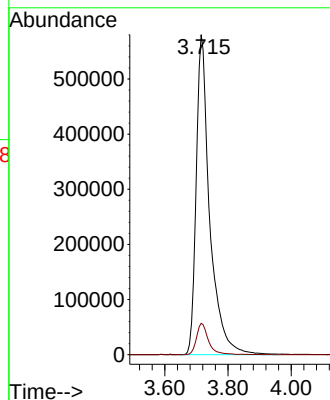
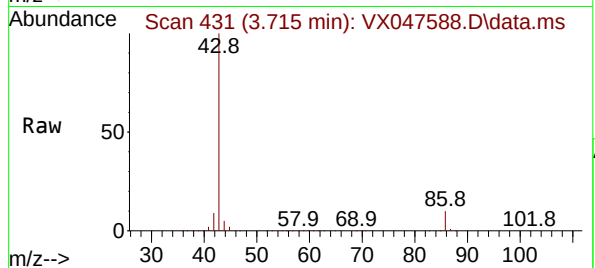
11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#24

1,1-Dichloroethane

Concen: 51.338 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 224824

Ion Ratio Lower Upper

63

98

100

100

7.5

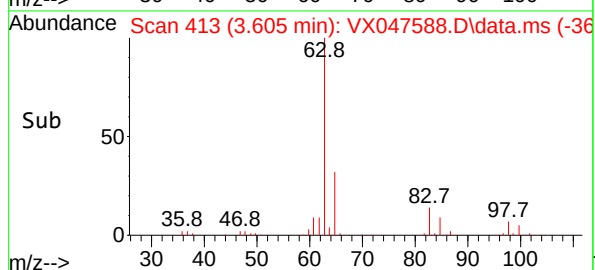
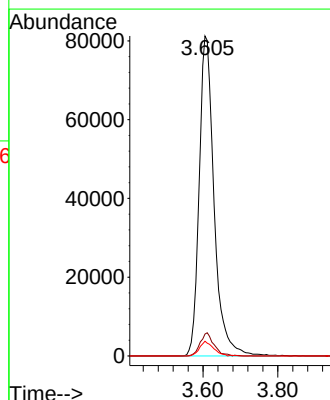
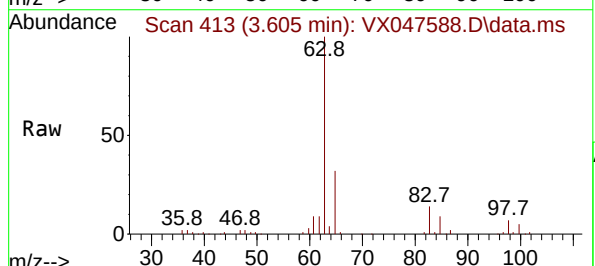
4.6

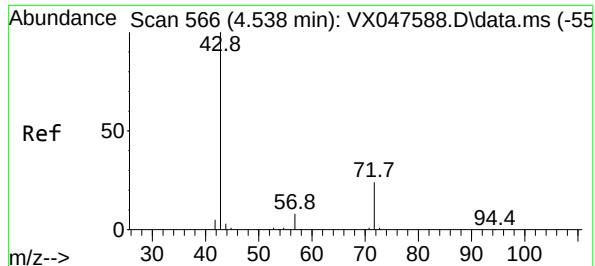
3.8

2.3

11.2

6.9





#25

2-Butanone

Concen: 254.060 ug/l

RT: 4.538 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 38033

Ion Ratio Lower Upper

43 100

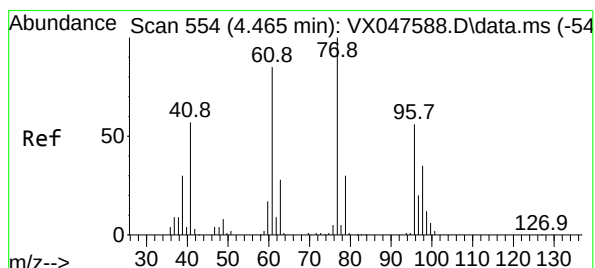
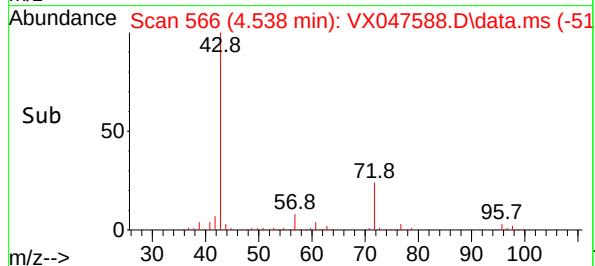
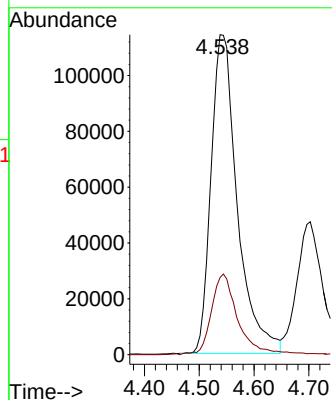
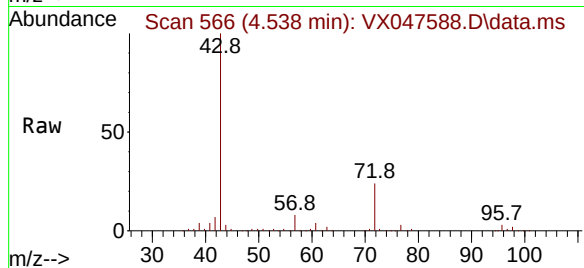
72 25.1 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 50.888 ug/l

RT: 4.465 min Scan# 554

Delta R.T. 0.000 min

Lab File: VX047588.D

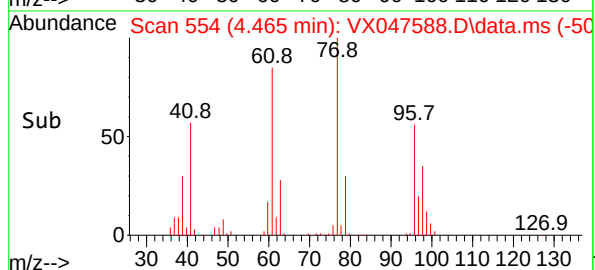
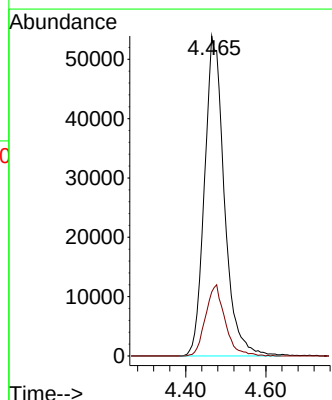
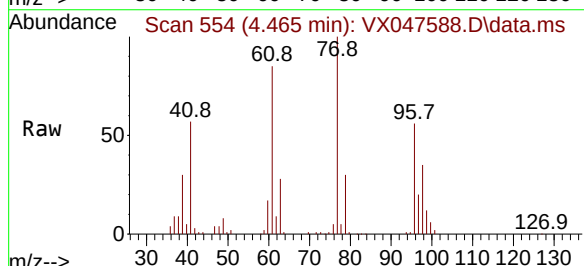
Acq: 16 Sep 2025 10:58

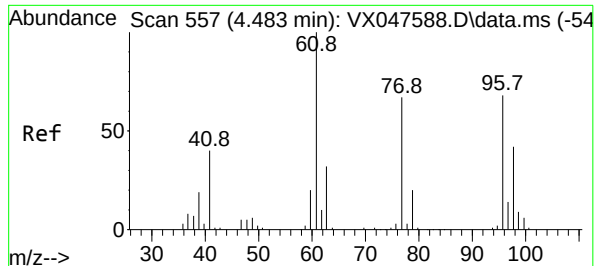
Tgt Ion: 77 Resp: 185247

Ion Ratio Lower Upper

77 100

97 21.8 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 51.576 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 14010

Ion Ratio Lower Upper

96 100

61 151.6 0.0 303.2

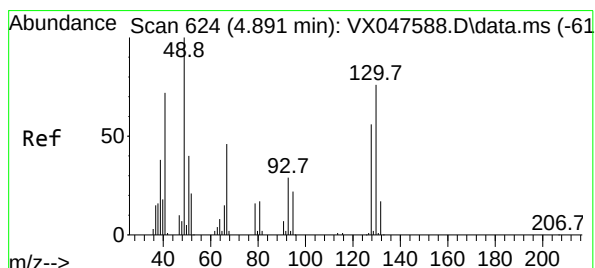
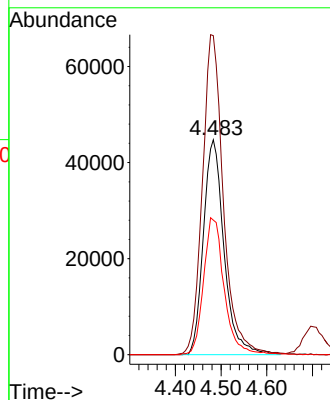
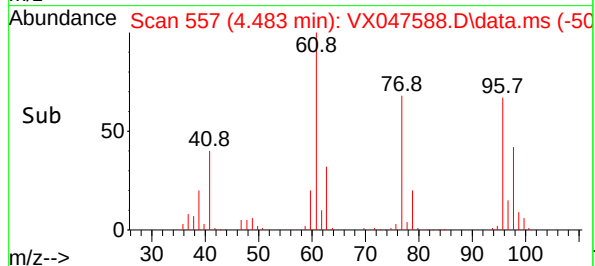
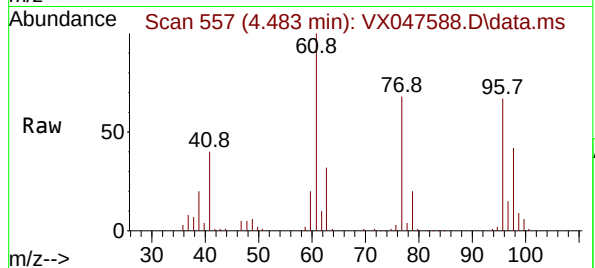
98 63.9 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 52.301 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

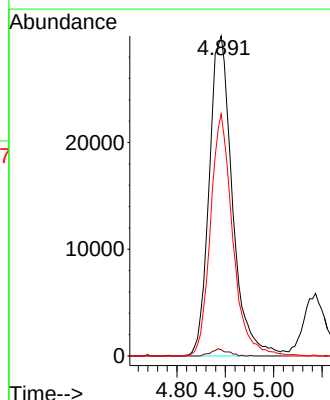
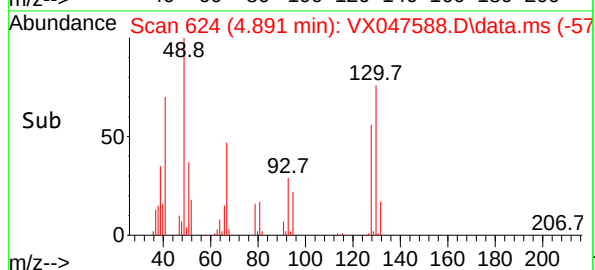
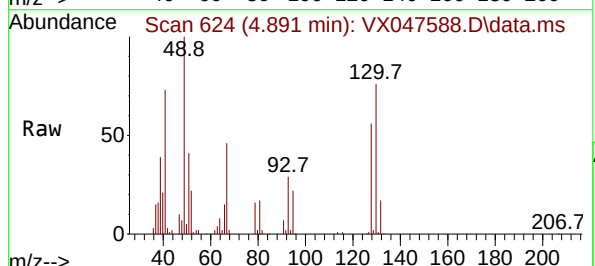
Tgt Ion: 49 Resp: 99991

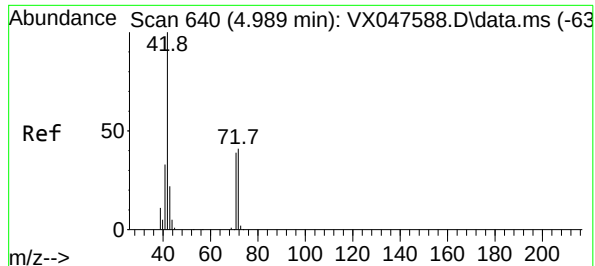
Ion Ratio Lower Upper

49 100

129 1.6 0.0 3.2

130 72.3 57.8 86.8





#29

Tetrahydrofuran

Concen: 265.026 ug/l

RT: 4.989 min Scan# 640

Delta R.T. 0.000 min

Lab File: VX047588.D

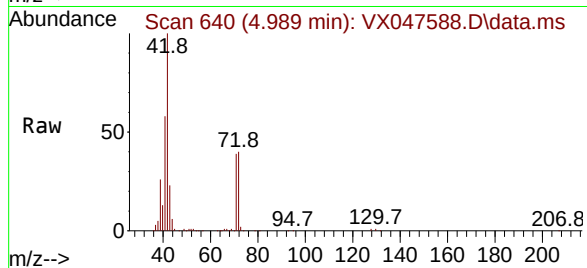
Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050



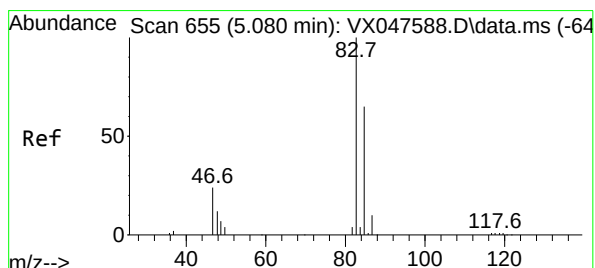
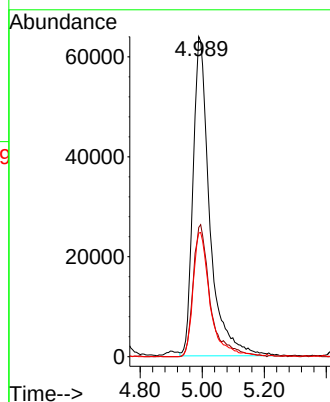
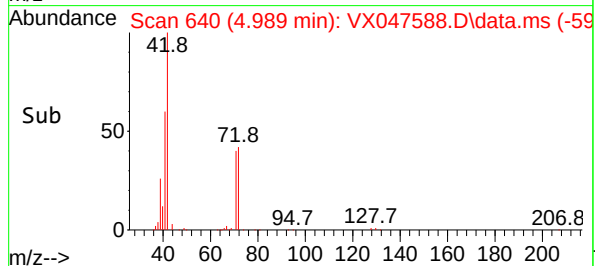
Tgt Ion:	42	Resp:	23867
Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	39.9	31.9	47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 51.844 ug/l

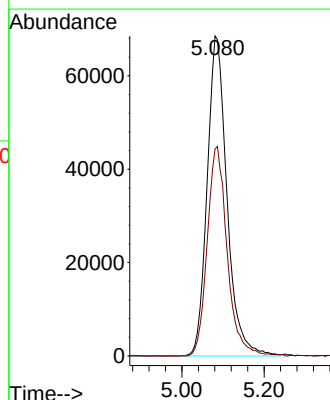
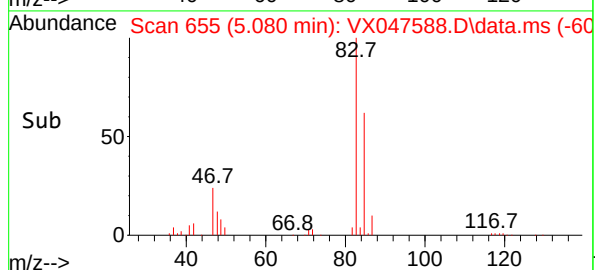
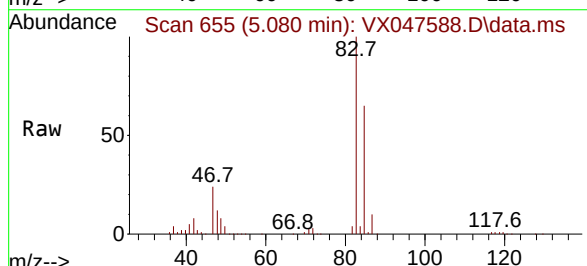
RT: 5.080 min Scan# 655

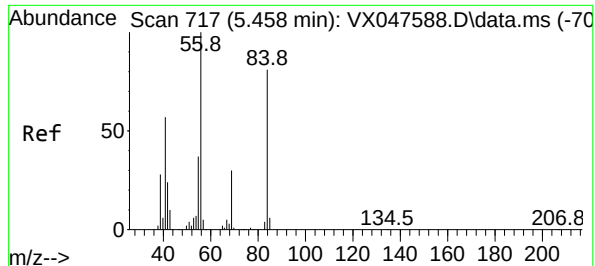
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion:	83	Resp:	229430
Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6





#31

Cyclohexane

Concen: 48.952 ug/l

RT: 5.458 min Scan# 717

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 178540

Ion Ratio Lower Upper

56 100

69 29.8 23.8 35.8

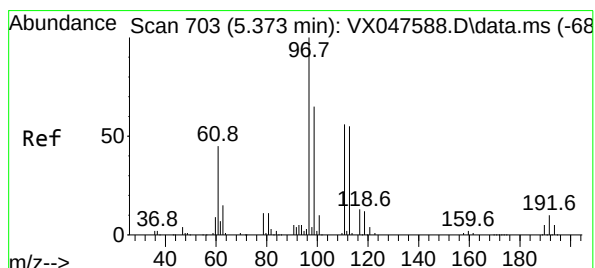
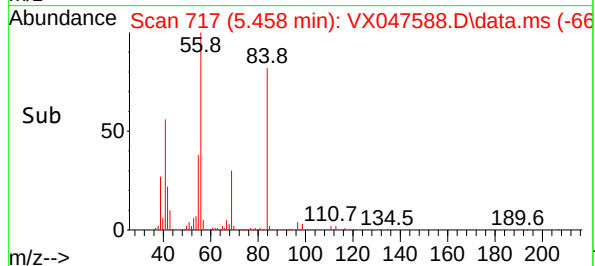
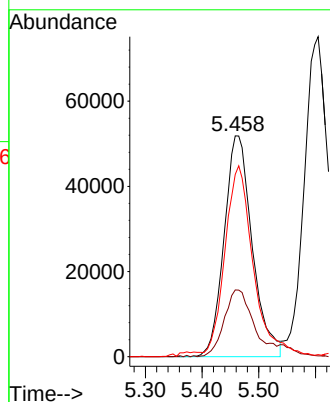
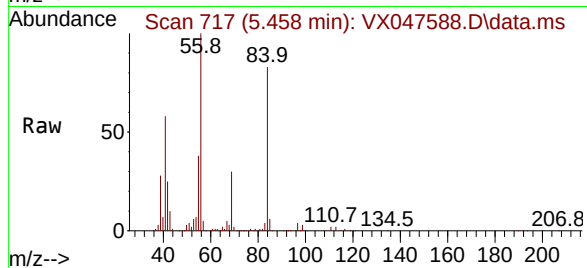
84 80.8 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#32

1,1,1-Trichloroethane

Concen: 52.058 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

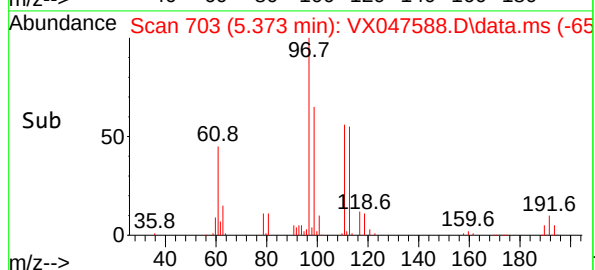
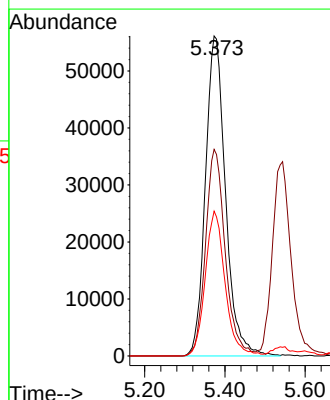
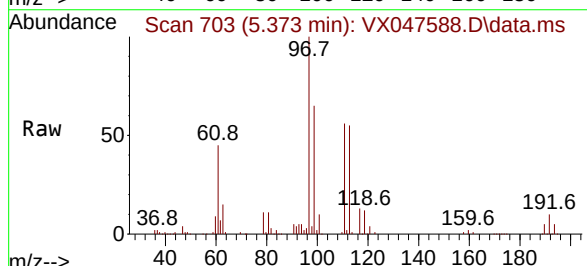
Tgt Ion: 97 Resp: 195407

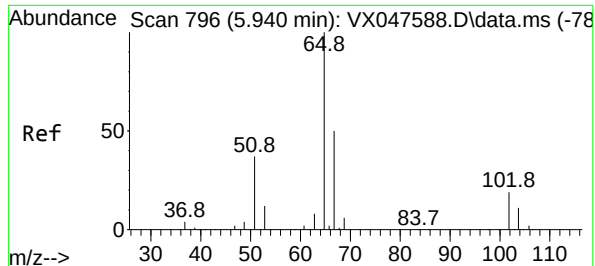
Ion Ratio Lower Upper

97 100

99 63.3 50.6 76.0

61 44.8 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 48.404 ug/l

RT: 5.940 min Scan# 796

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 133600

Ion Ratio Lower Upper

65 100

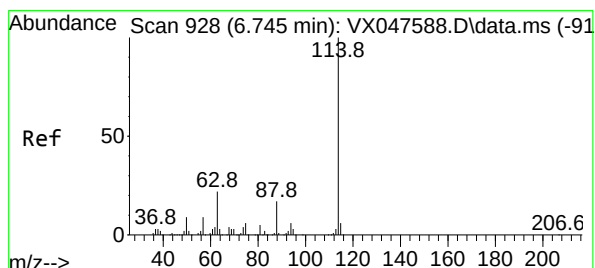
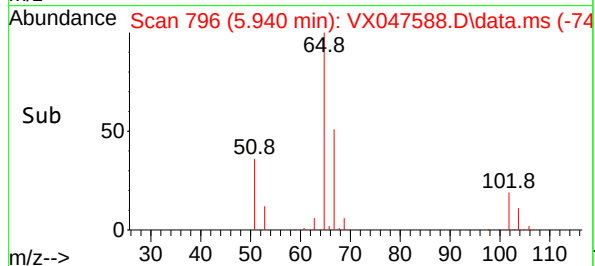
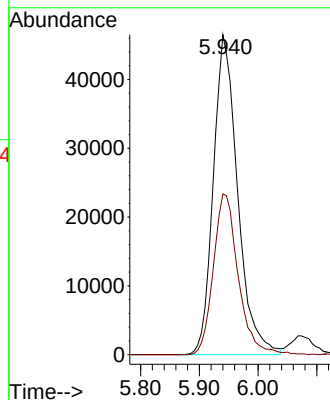
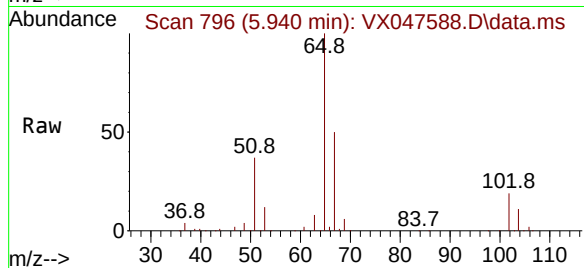
67 51.5 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

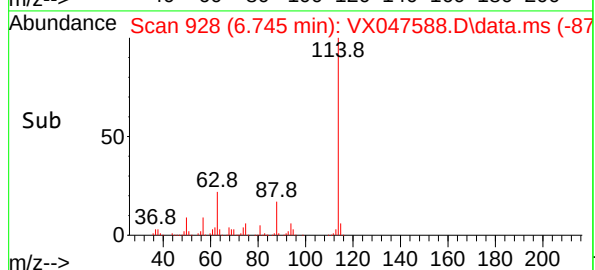
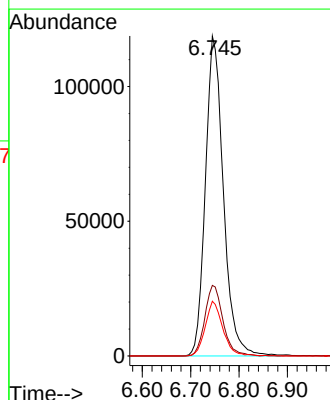
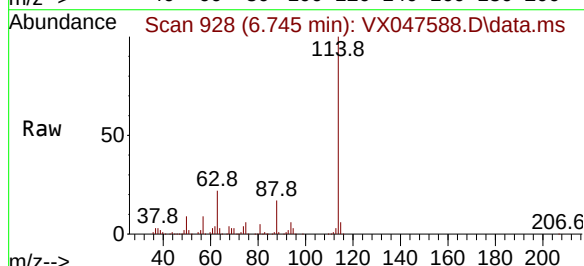
Tgt Ion:114 Resp: 307383

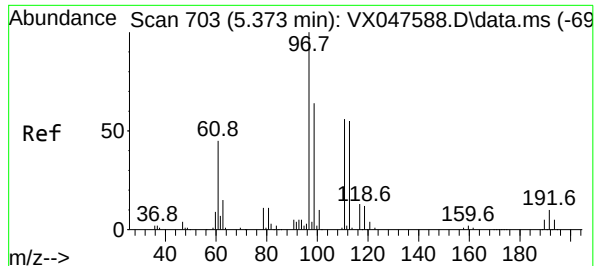
Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.0

88 17.1 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.298 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 10162

Ion Ratio Lower Upper

113 100

111 101.1 80.9 121.3

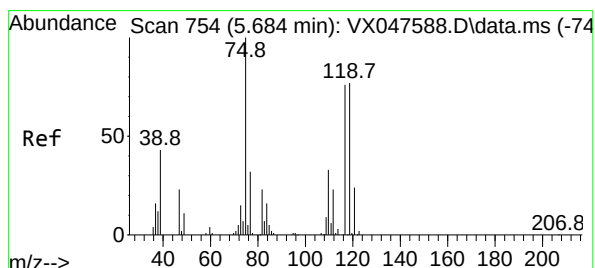
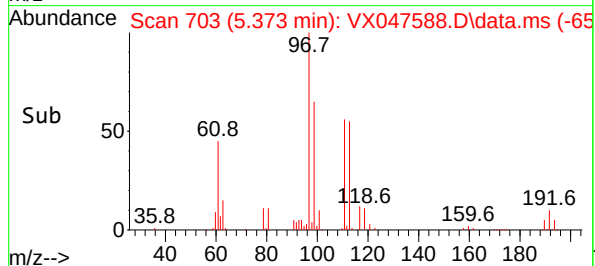
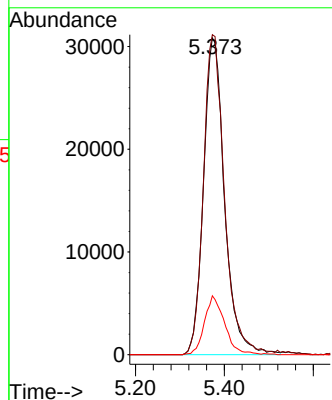
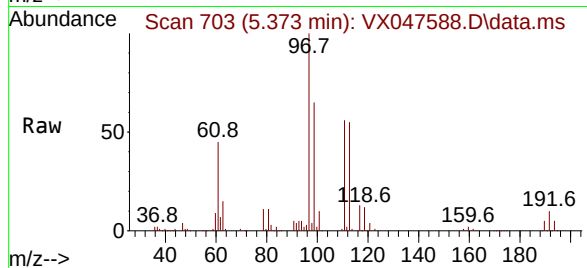
192 17.8 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 49.729 ug/l

RT: 5.684 min Scan# 754

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

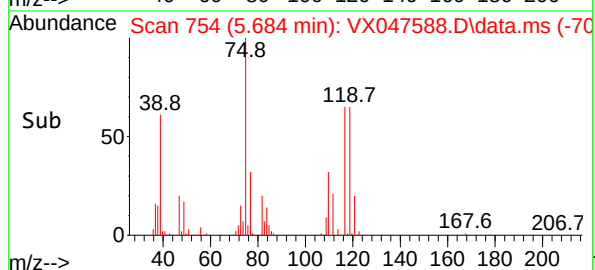
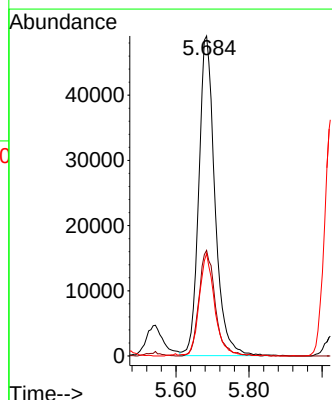
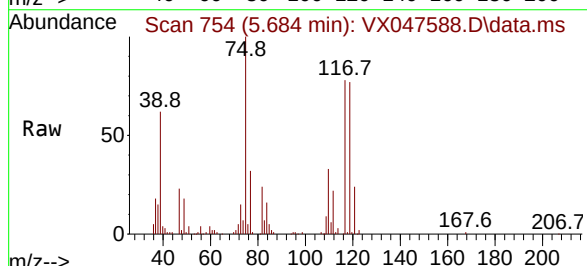
Tgt Ion: 75 Resp: 149800

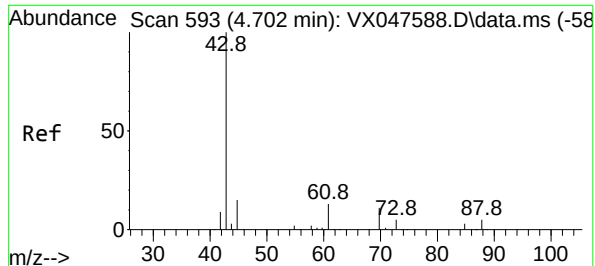
Ion Ratio Lower Upper

75 100

110 33.4 16.7 50.1

77 30.4 24.3 36.5





#37

Ethyl Acetate

Concen: 50.687 ug/l

RT: 4.702 min Scan# 593

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 16348

Ion Ratio Lower Upper

43 100

61 12.3 9.8 14.8

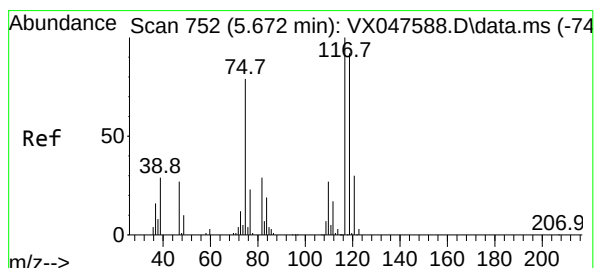
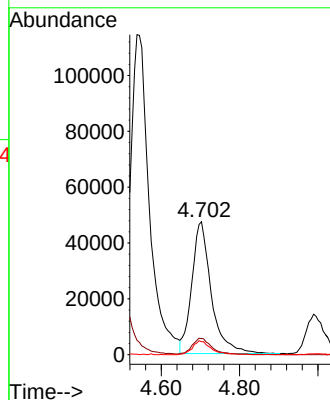
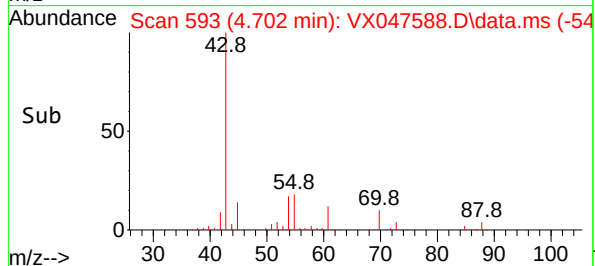
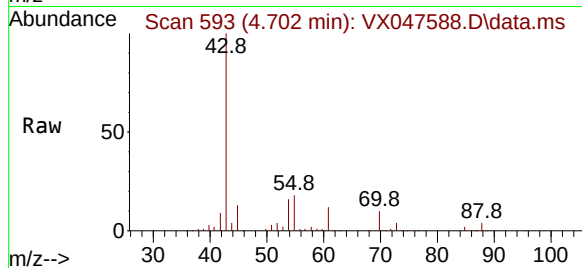
70 9.9 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 50.637 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

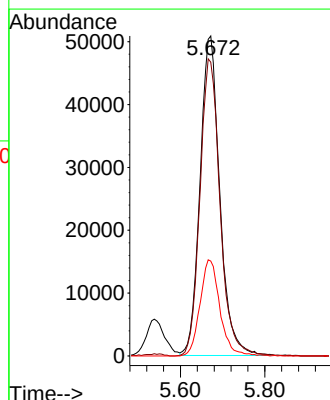
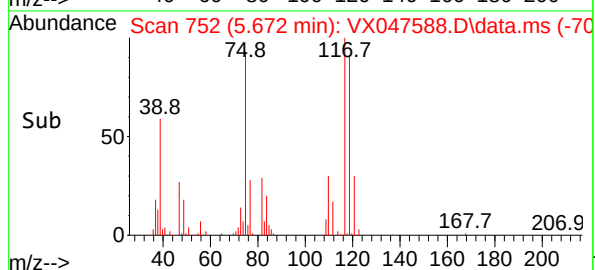
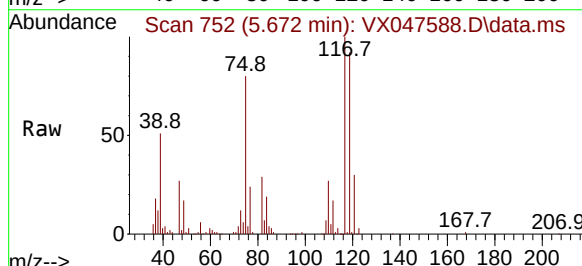
Tgt Ion:117 Resp: 165730

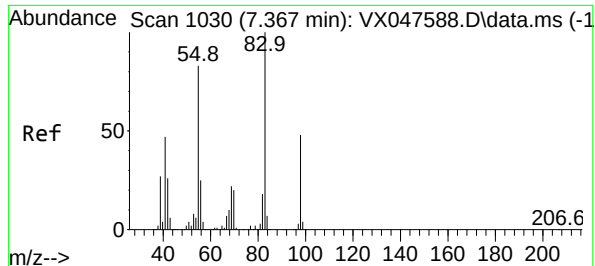
Ion Ratio Lower Upper

117 100

119 91.8 73.4 110.2

121 29.7 23.8 35.6





#39

Methylcyclohexane

Concen: 50.773 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 173610

Ion Ratio Lower Upper

83 100

55 83.0 66.4 99.6

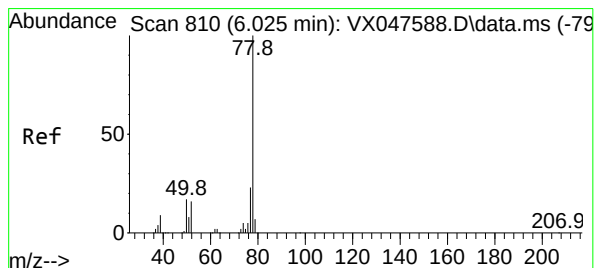
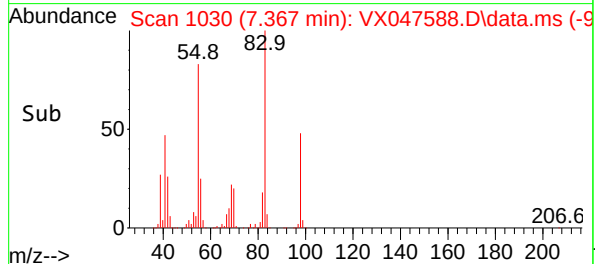
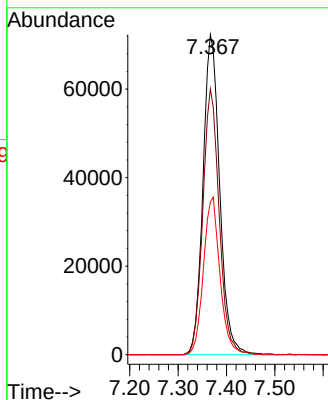
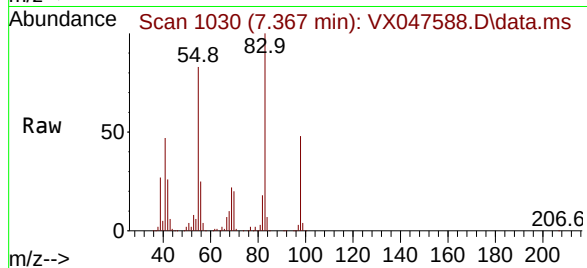
98 47.6 38.1 57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 51.167 ug/l

RT: 6.025 min Scan# 810

Delta R.T. 0.000 min

Lab File: VX047588.D

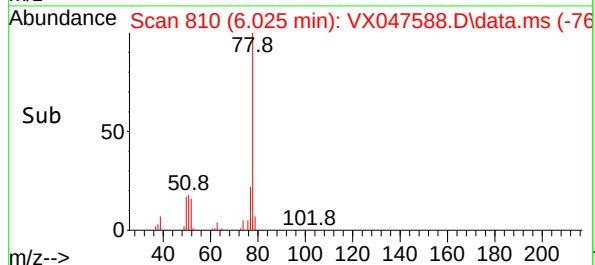
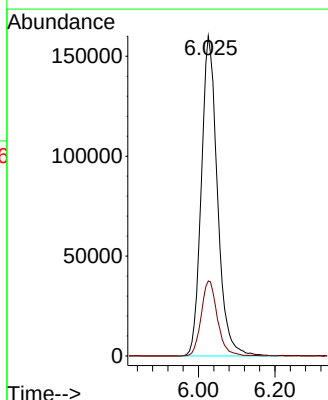
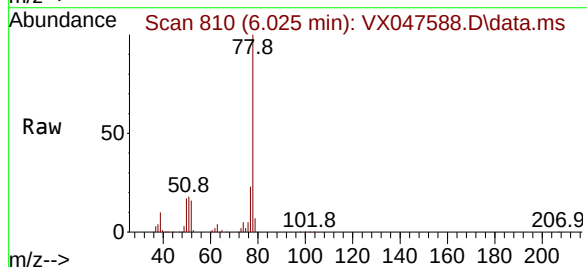
Acq: 16 Sep 2025 10:58

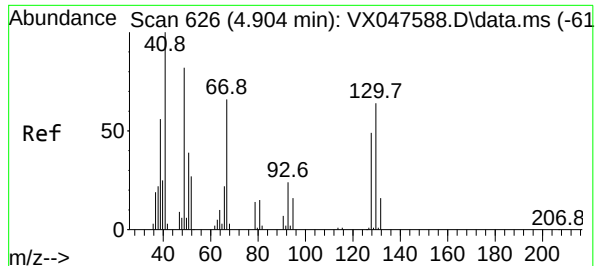
Tgt Ion: 78 Resp: 468136

Ion Ratio Lower Upper

78 100

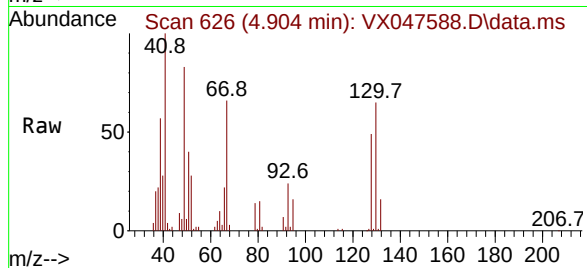
77 23.5 18.8 28.2





#41
Methacrylonitrile
Concen: 52.707 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

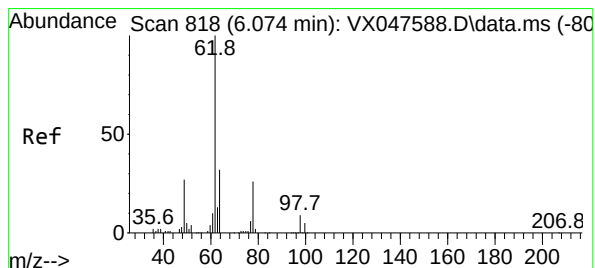
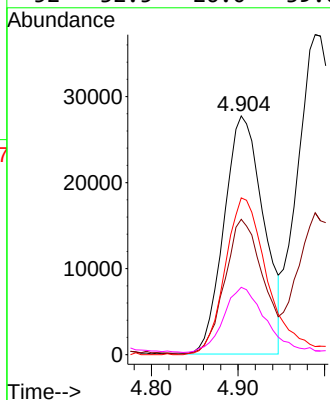
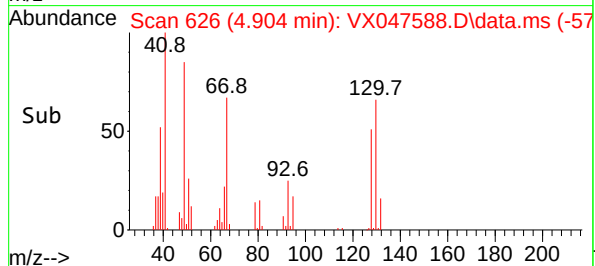
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 41 Resp: 8776
Ion Ratio Lower Upper
41 100
39 54.1 43.3 64.9
67 73.2 58.6 87.8
52 32.5 26.0 39.0

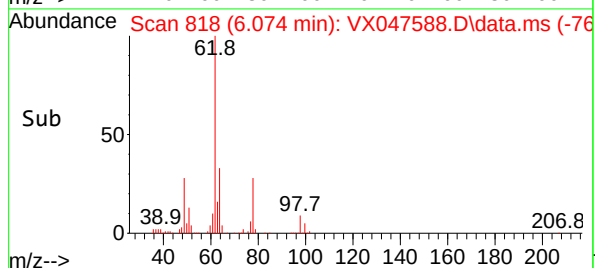
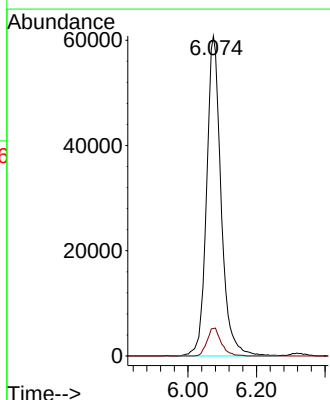
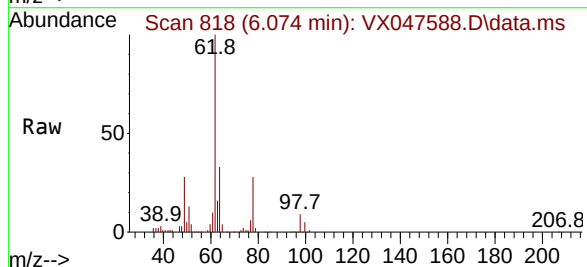
Manual Integrations
APPROVED

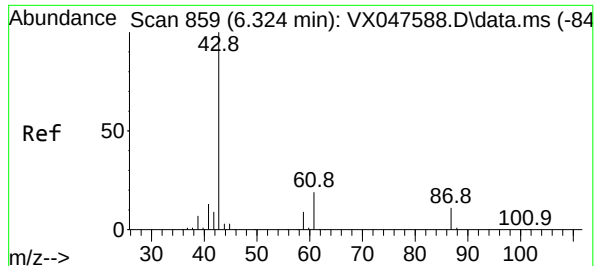
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 179037
Ion Ratio Lower Upper
62 100
98 8.5 0.0 17.0





#43

Isopropyl Acetate

Concen: 52.096 ug/l

RT: 6.324 min Scan# 859

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 275572

Ion Ratio Lower Upper

43 100

61 19.0 15.2 22.8

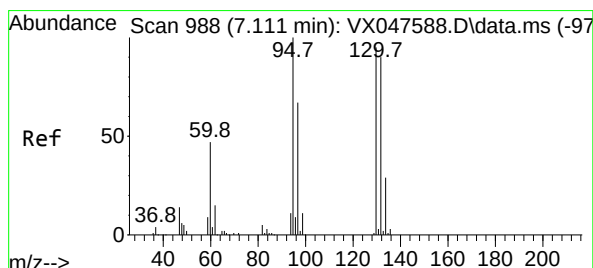
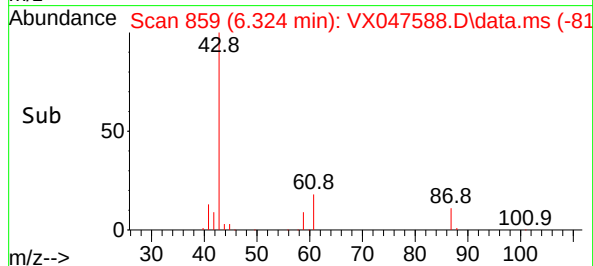
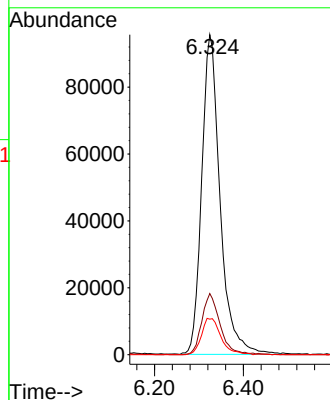
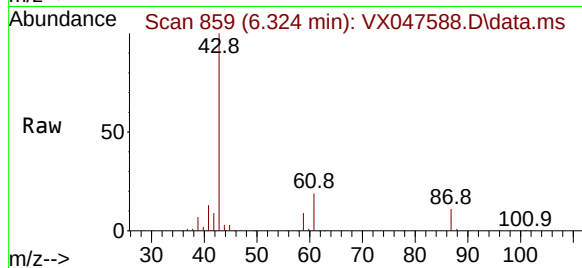
87 12.0 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 51.463 ug/l

RT: 7.111 min Scan# 988

Delta R.T. 0.000 min

Lab File: VX047588.D

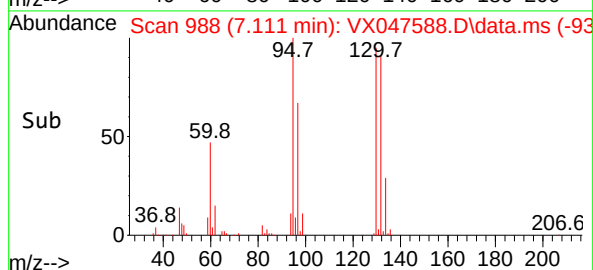
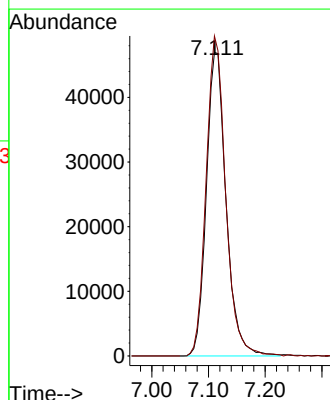
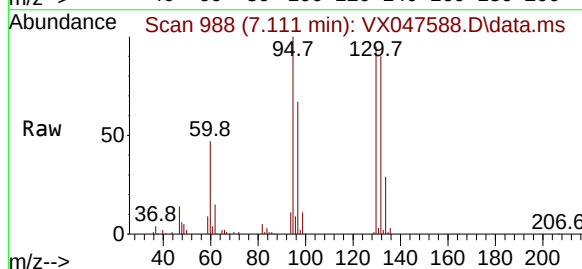
Acq: 16 Sep 2025 10:58

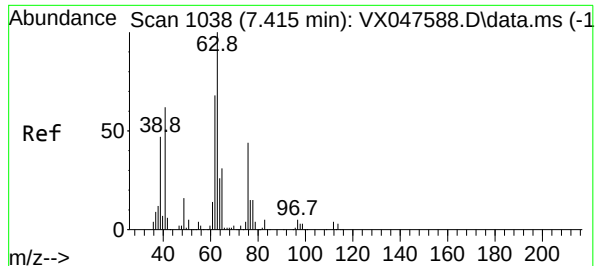
Tgt Ion:130 Resp: 113832

Ion Ratio Lower Upper

130 100

95 105.4 0.0 210.8





#45

1,2-Dichloropropane

Concen: 52.122 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 122105

Ion Ratio Lower Upper

63 100

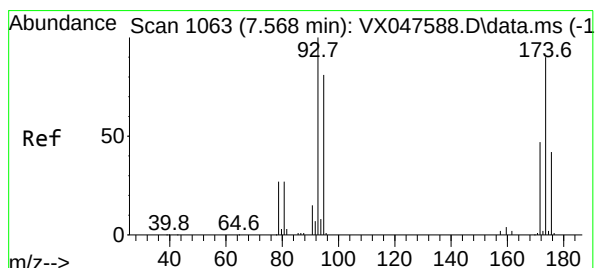
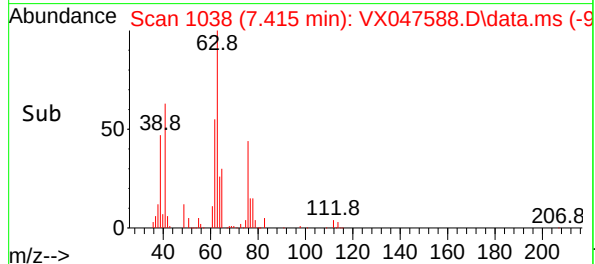
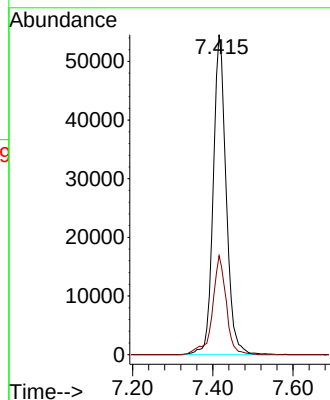
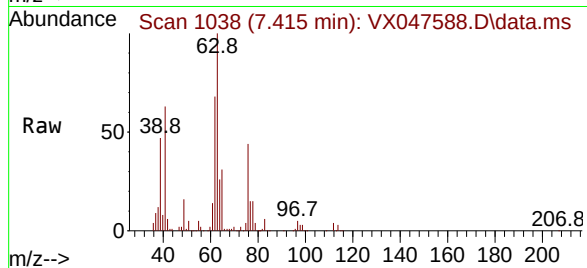
65 30.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 51.914 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

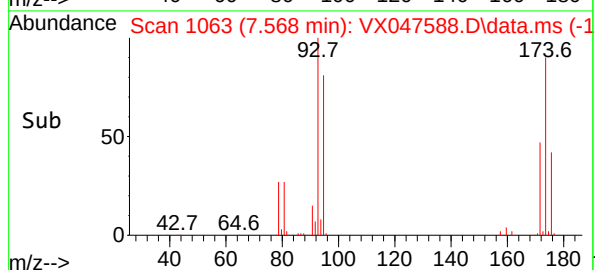
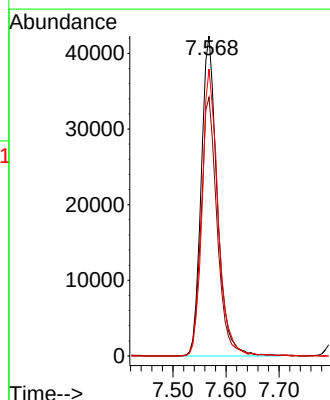
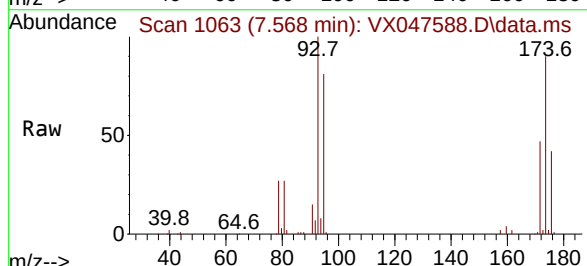
Tgt Ion: 93 Resp: 88505

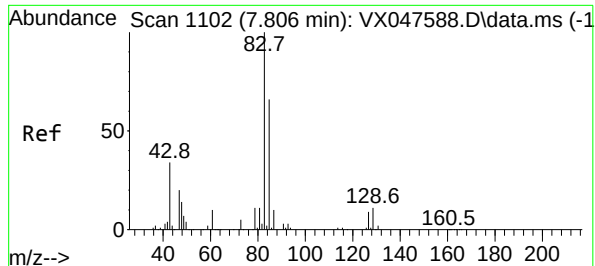
Ion Ratio Lower Upper

93 100

95 81.3 65.0 97.6

174 89.5 71.6 107.4





#47

Bromodichloromethane

Concen: 53.025 ug/l

RT: 7.806 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

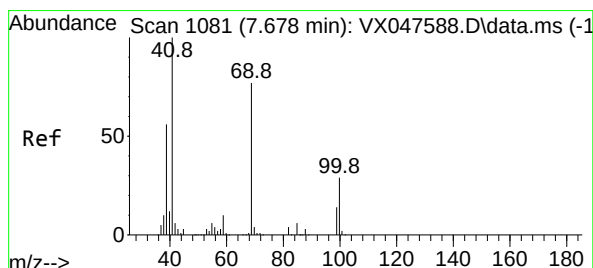
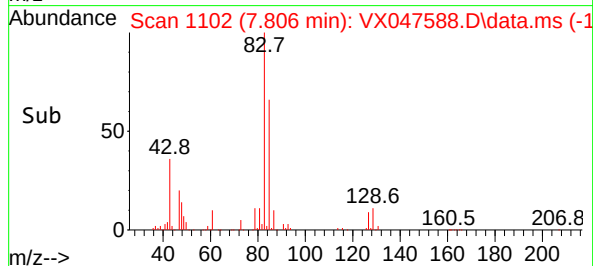
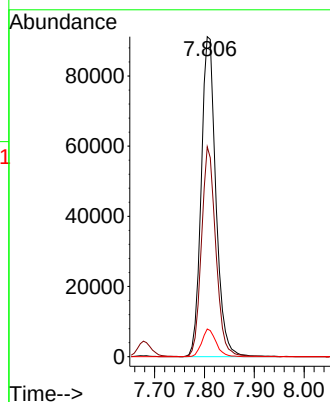
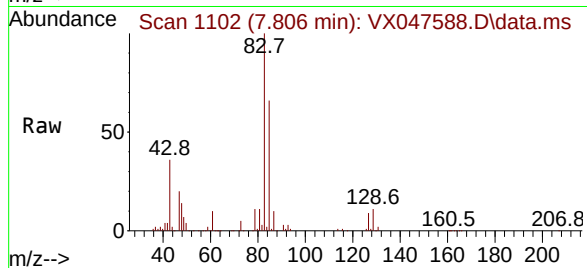
Tgt Ion:	83	Resp:	186540
Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7
127	8.6	6.9	10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 52.438 ug/l

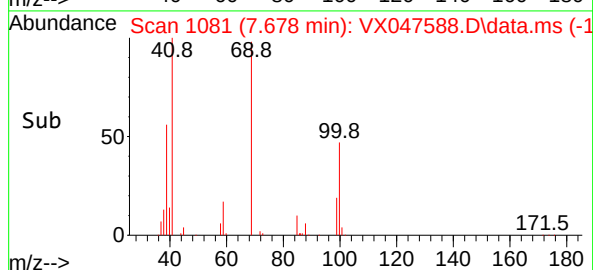
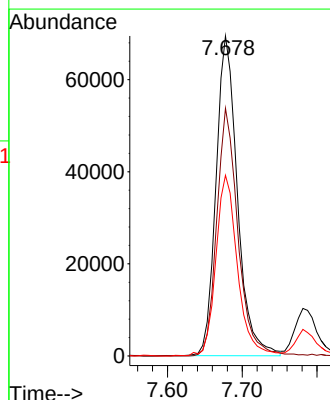
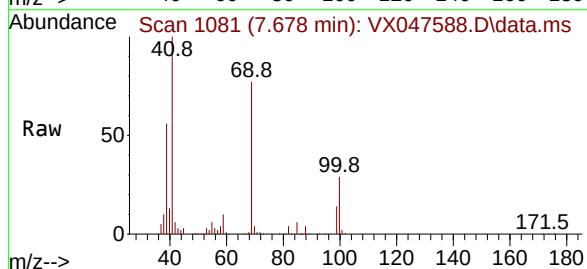
RT: 7.678 min Scan# 1081

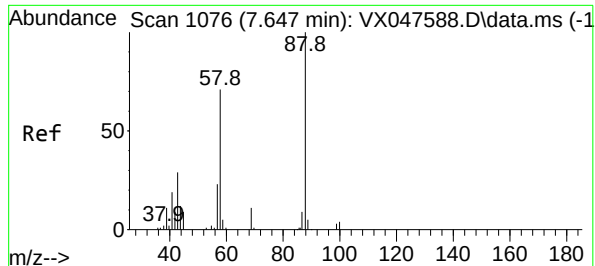
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion:	41	Resp:	138167
Ion	Ratio	Lower	Upper
41	100		
69	76.8	61.4	92.2
39	57.2	45.8	68.6





#49

1,4-Dioxane

Concen: 1107.698 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

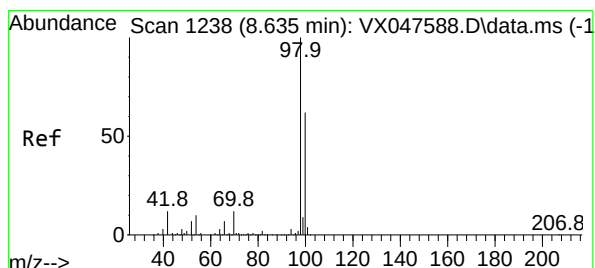
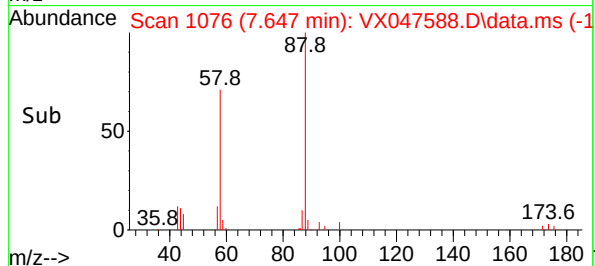
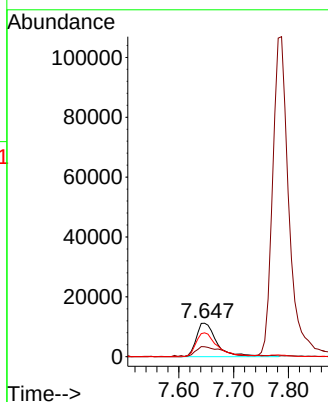
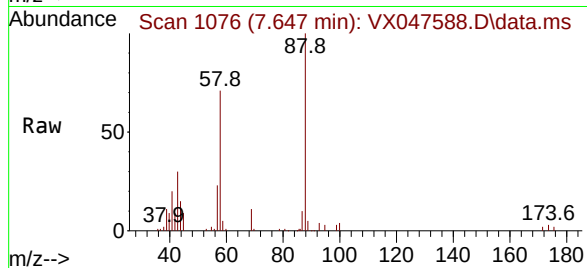
Tgt Ion:	88	Resp:	29490
Ion	Ratio	Lower	Upper
88	100		
43	37.7	30.2	45.2
58	74.4	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 49.428 ug/l

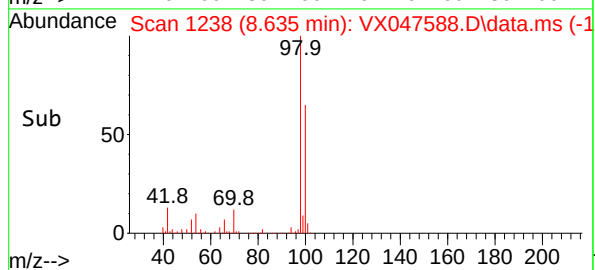
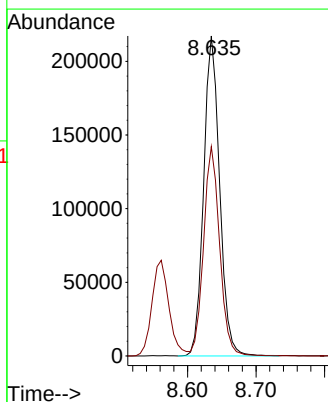
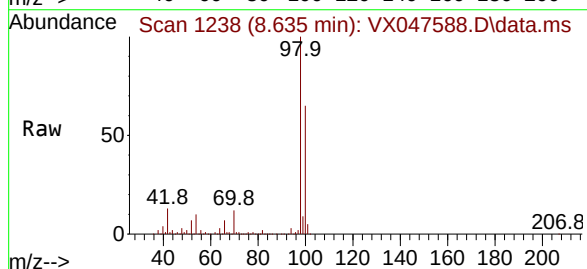
RT: 8.635 min Scan# 1238

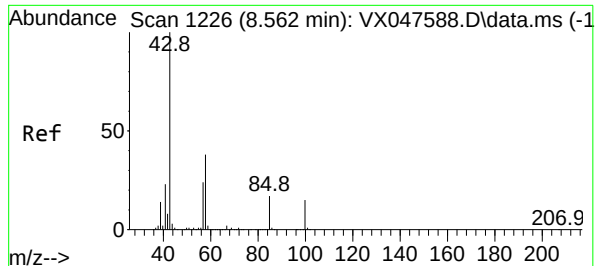
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

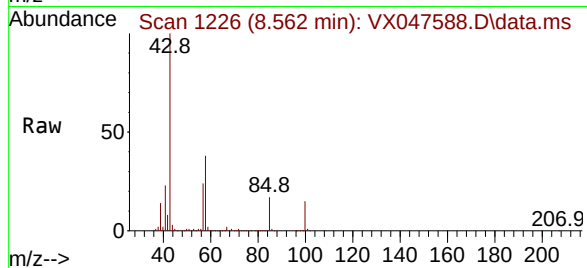
Tgt Ion:	98	Resp:	352578
Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 267.650 ug/l
RT: 8.562 min Scan# 1226
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

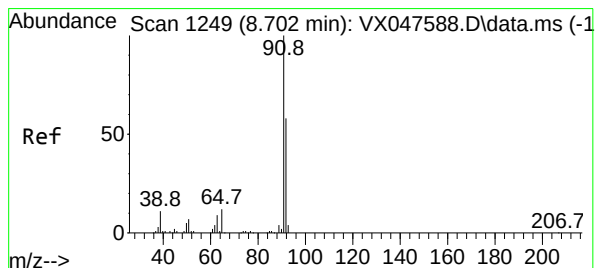
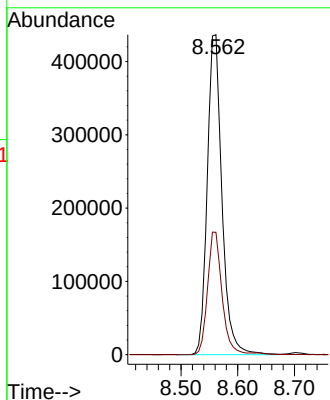
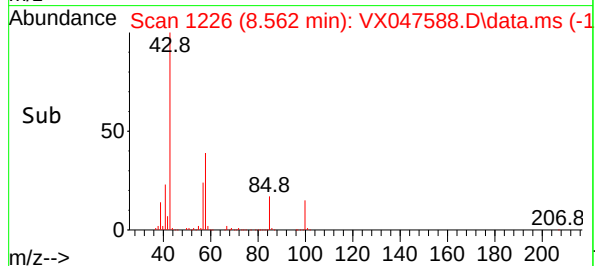
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 784978
Ion Ratio Lower Upper
43 100
58 37.9 30.3 45.5

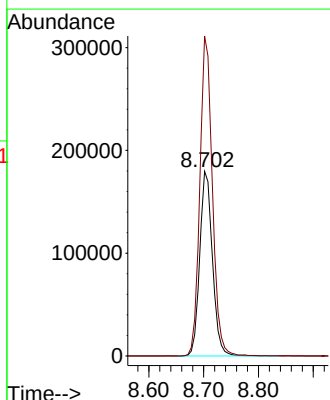
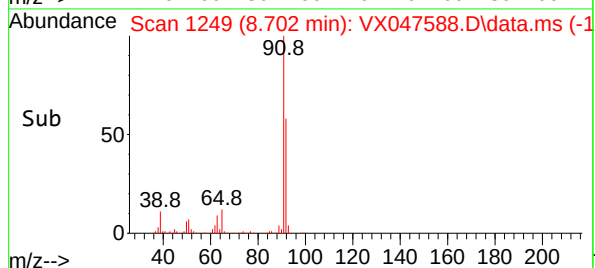
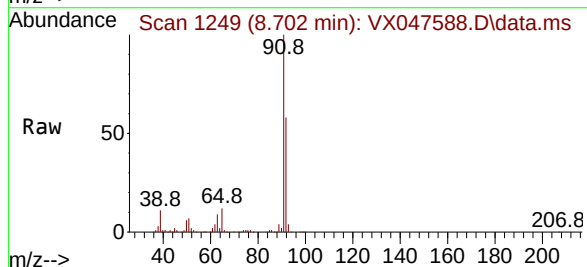
Manual Integrations
APPROVED

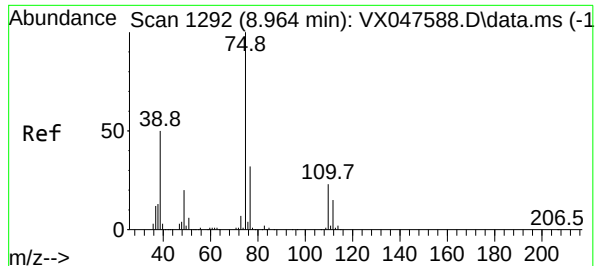
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 51.244 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 92 Resp: 288853
Ion Ratio Lower Upper
92 100
91 171.4 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 53.027 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 19028

Ion Ratio Lower Upper

75 100

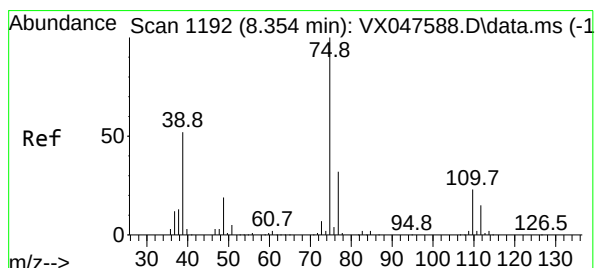
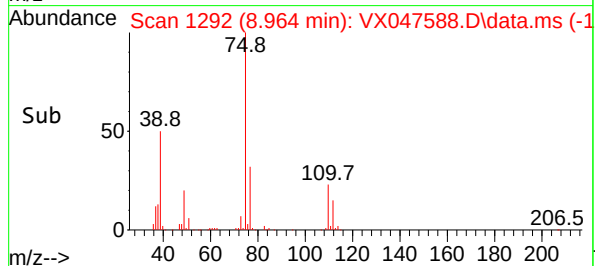
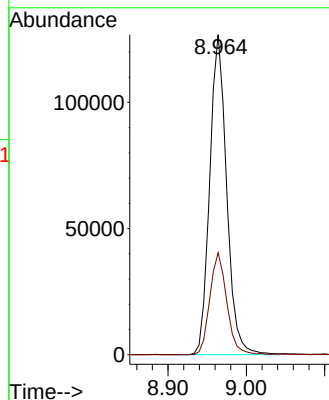
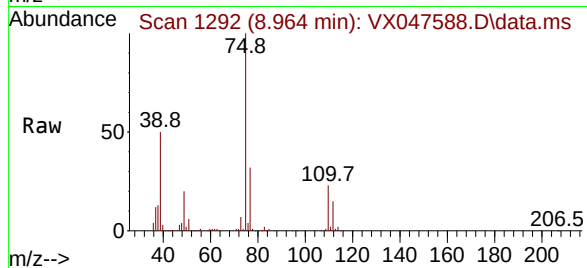
77 31.8 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 52.369 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

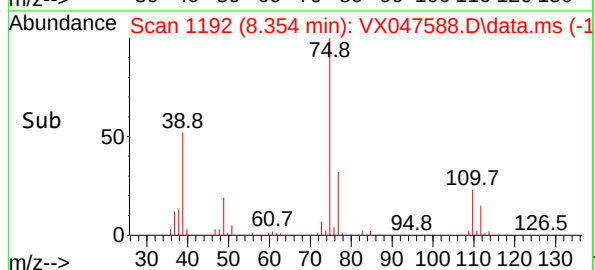
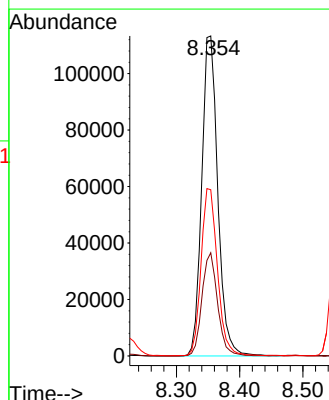
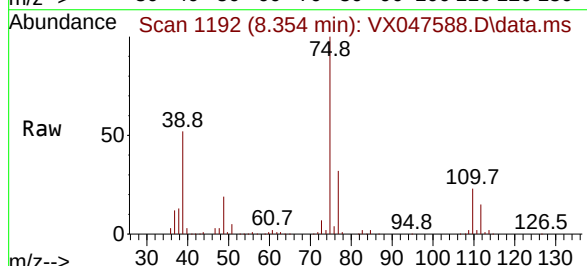
Tgt Ion: 75 Resp: 200859

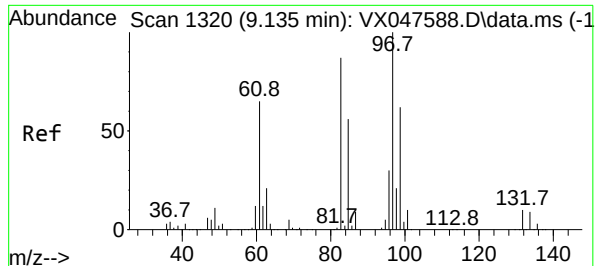
Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.6

39 51.8 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 51.915 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 11283

Ion Ratio Lower Upper

97 100

83 87.0 69.6 104.4

85 56.3 45.0 67.6

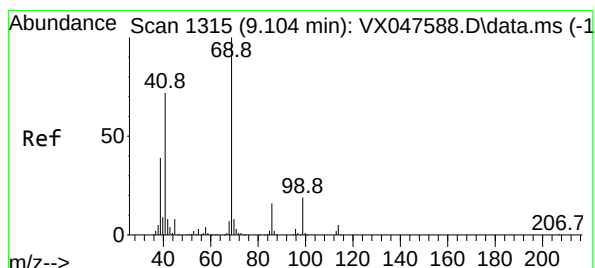
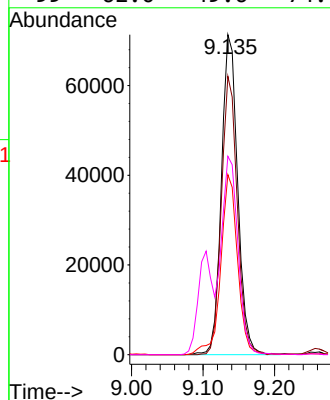
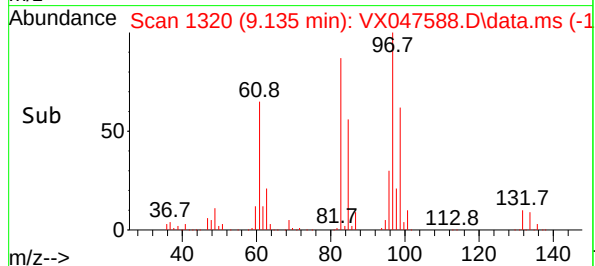
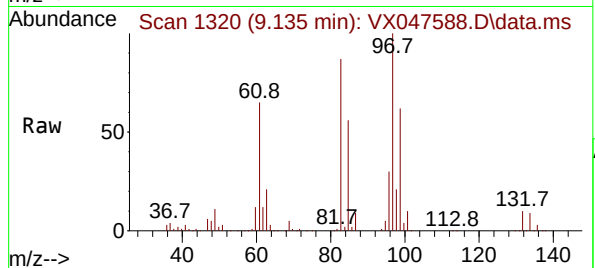
99 62.0 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 53.930 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

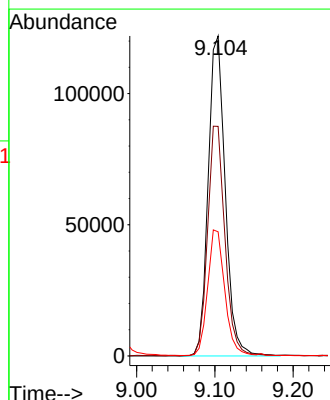
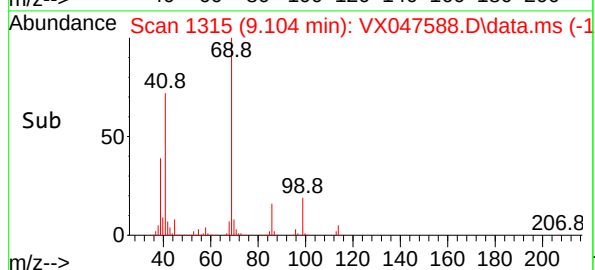
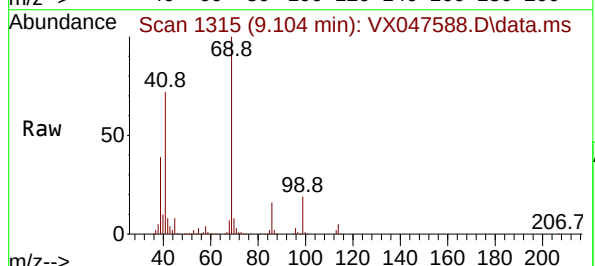
Tgt Ion: 69 Resp: 184087

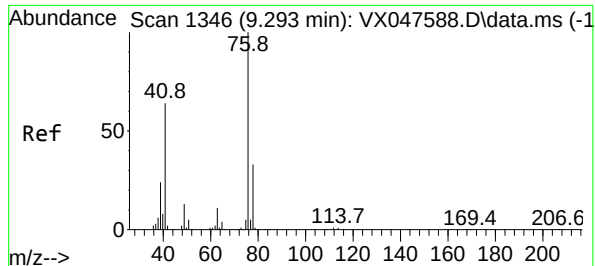
Ion Ratio Lower Upper

69 100

41 73.2 58.6 87.8

39 39.4 31.5 47.3





#57

1,3-Dichloropropane

Concen: 52.492 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 195989

Ion Ratio Lower Upper

76 100

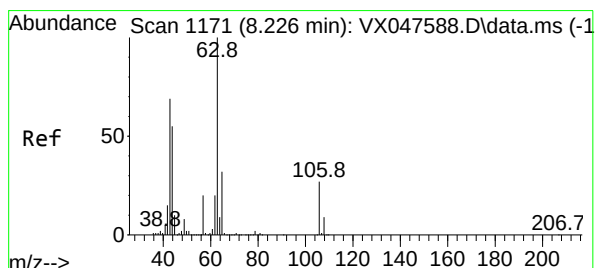
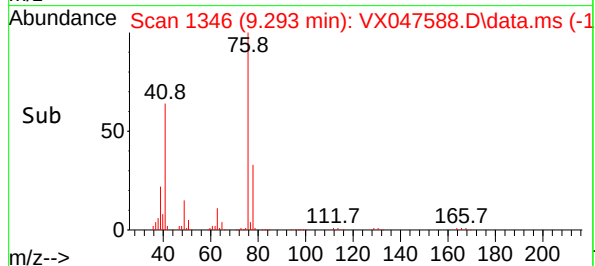
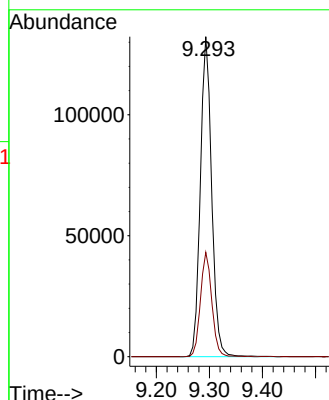
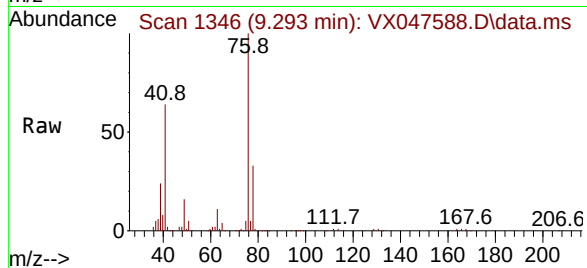
78 32.8 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 256.309 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047588.D

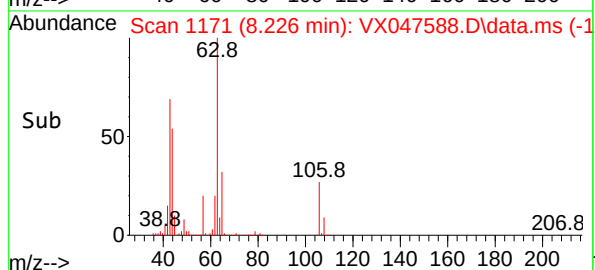
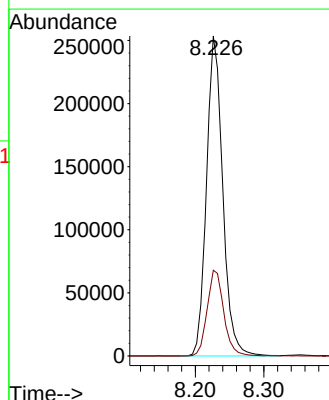
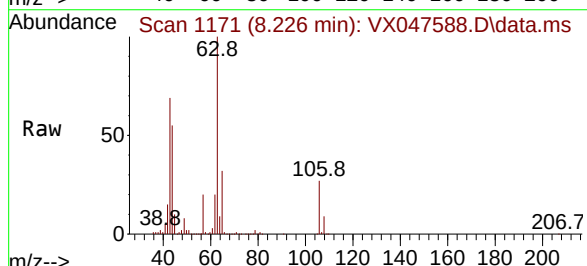
Acq: 16 Sep 2025 10:58

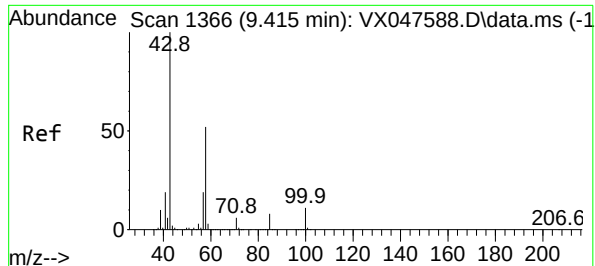
Tgt Ion: 63 Resp: 418707

Ion Ratio Lower Upper

63 100

106 27.4 21.9 32.9





#59

2-Hexanone

Concen: 262.683 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 55331

Ion Ratio Lower Upper

43 100

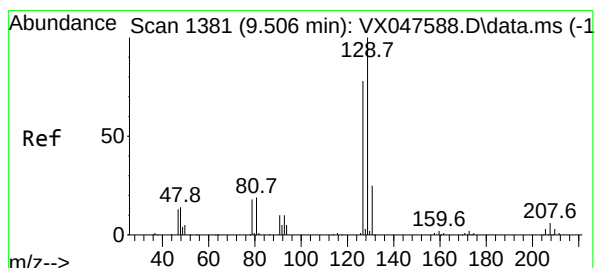
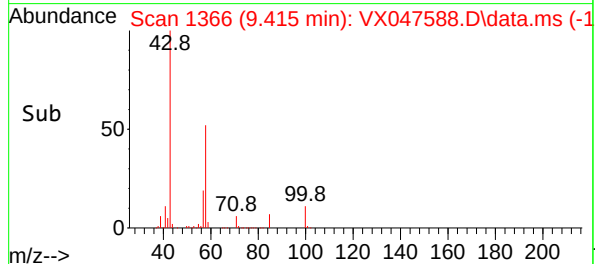
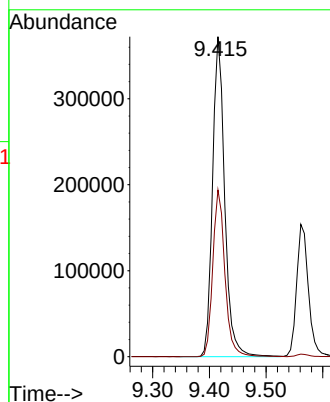
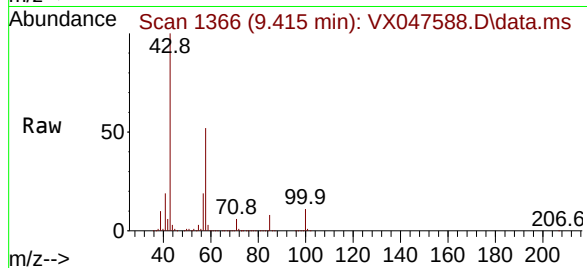
58 52.1 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 53.401 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VX047588.D

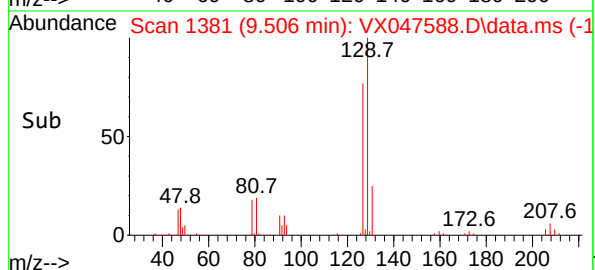
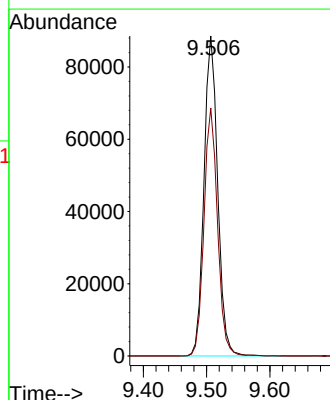
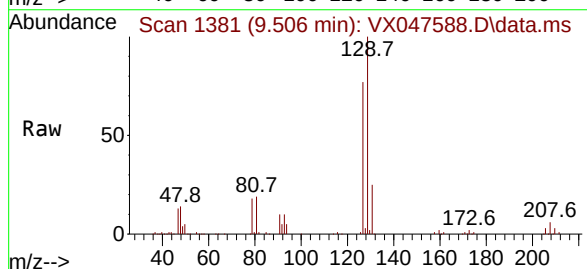
Acq: 16 Sep 2025 10:58

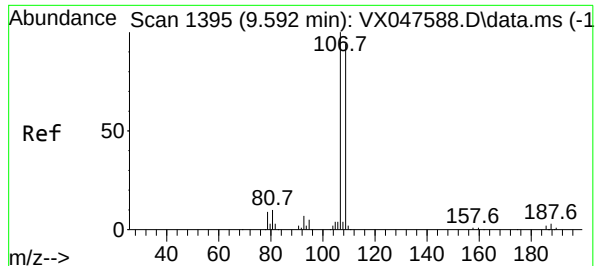
Tgt Ion:129 Resp: 133737

Ion Ratio Lower Upper

129 100

127 76.8 38.4 115.2





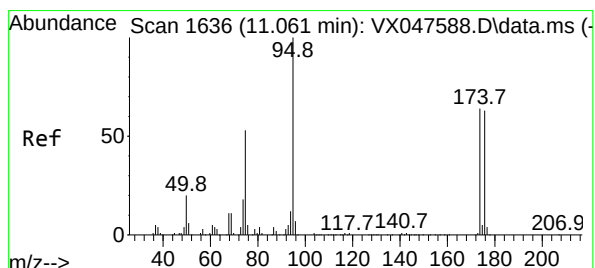
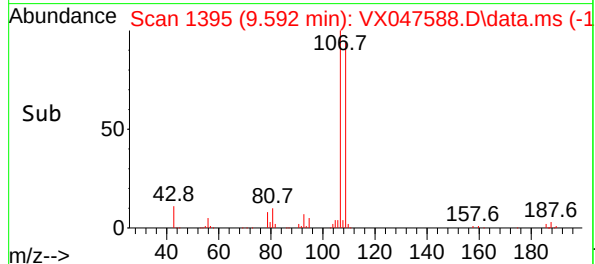
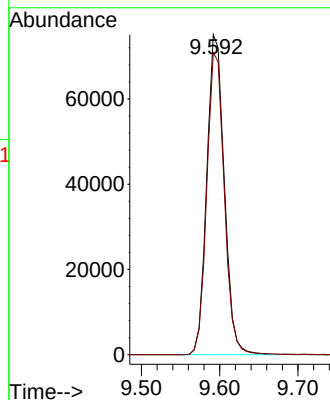
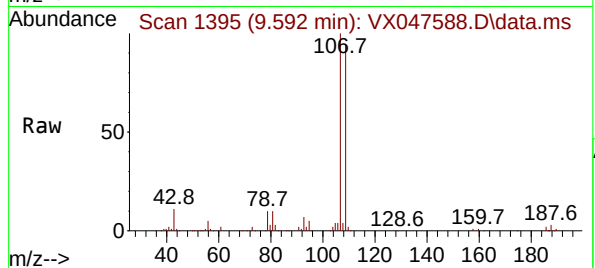
#61
1,2-Dibromoethane
Concen: 52.607 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 116462
Ion Ratio Lower Upper
107 100
109 94.1 75.3 112.9

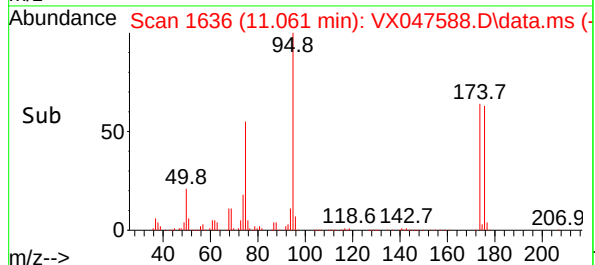
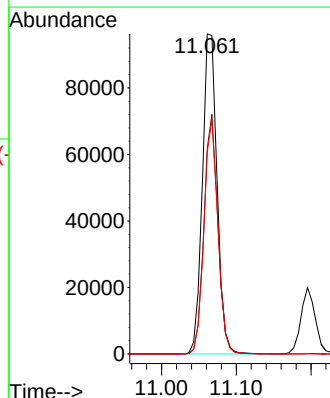
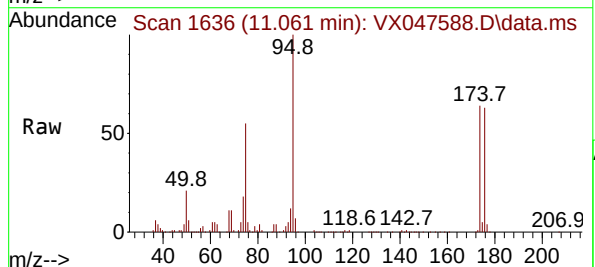
Manual Integrations
APPROVED

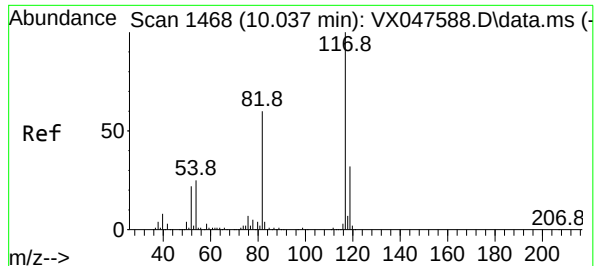
Reviewed By :John Carbone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#62
4-Bromofluorobenzene
Concen: 48.471 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

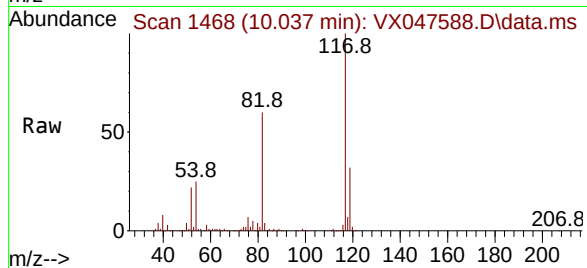
Tgt Ion: 95 Resp: 131217
Ion Ratio Lower Upper
95 100
174 70.8 0.0 141.6
176 69.2 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

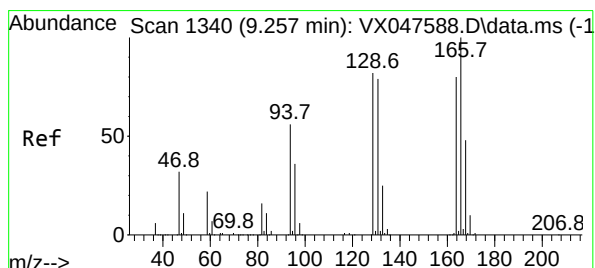
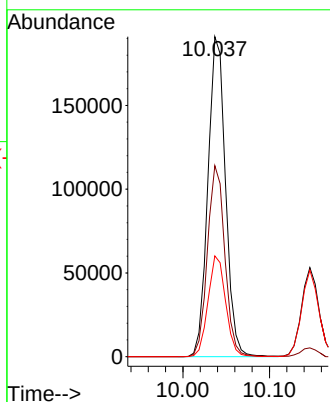
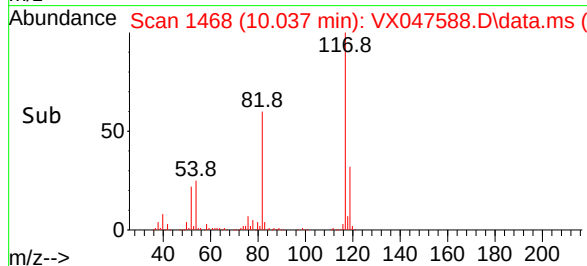
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 270040
Ion Ratio Lower Upper
117 100
82 59.7 47.8 71.6
119 31.5 25.2 37.8

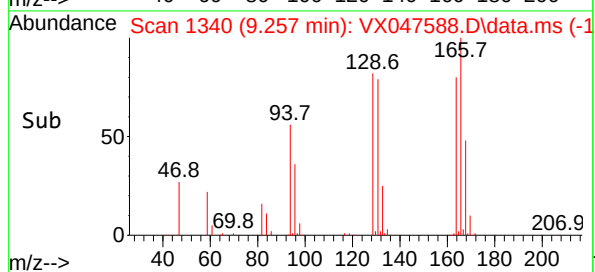
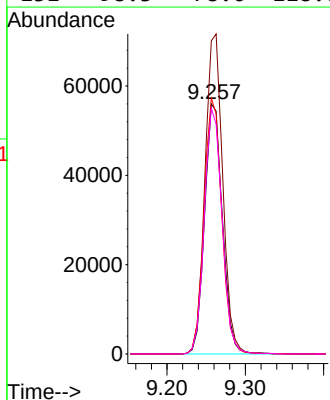
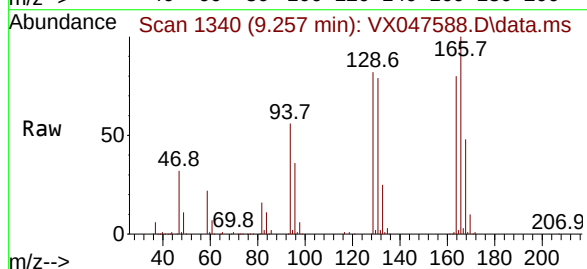
Manual Integrations
APPROVED

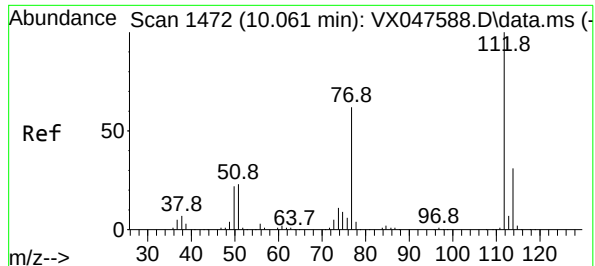
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#64
Tetrachloroethene
Concen: 50.074 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:164 Resp: 88149
Ion Ratio Lower Upper
164 100
166 125.2 100.2 150.2
129 102.2 81.8 122.6
131 98.3 78.6 118.0





#65

Chlorobenzene

Concen: 51.833 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 31798

Ion Ratio Lower Upper

112 100

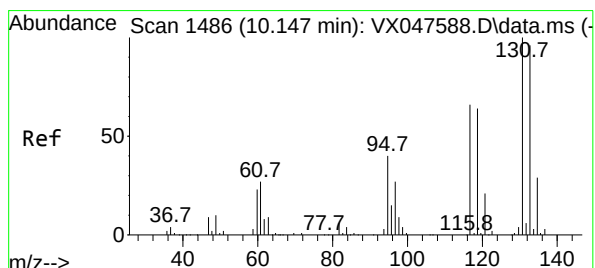
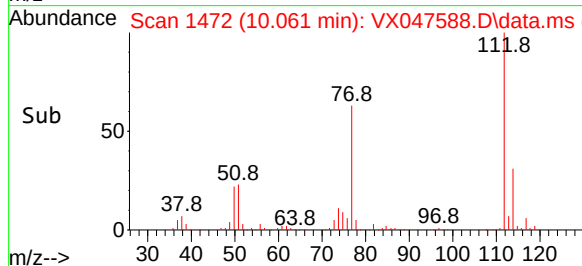
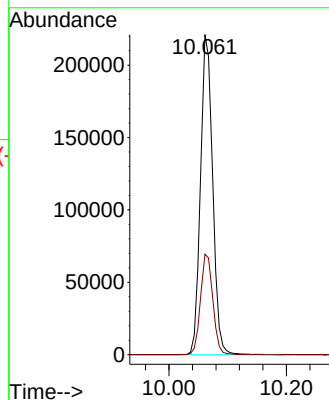
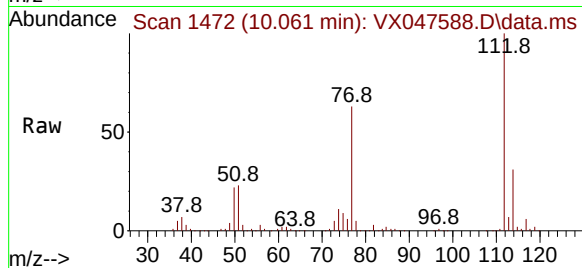
114 31.4 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 52.835 ug/l

RT: 10.147 min Scan# 1486

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

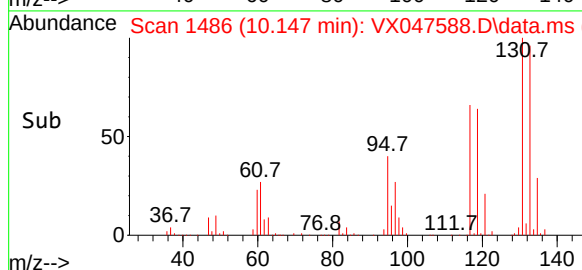
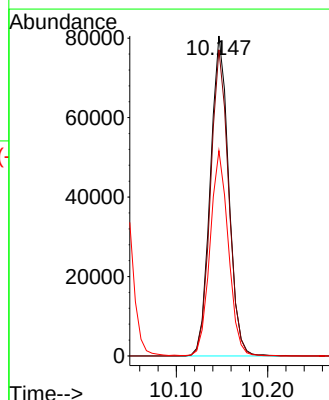
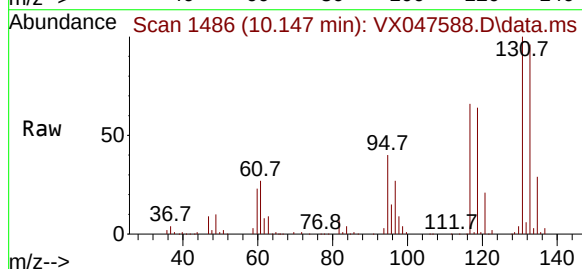
Tgt Ion:131 Resp: 111849

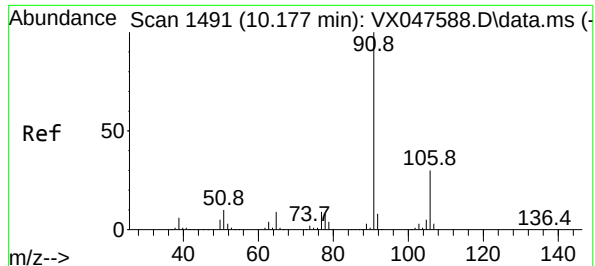
Ion Ratio Lower Upper

131 100

133 94.7 47.3 142.0

119 64.0 32.0 96.0





#67

Ethyl Benzene

Concen: 52.017 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 550610

Ion Ratio Lower Upper

91 100

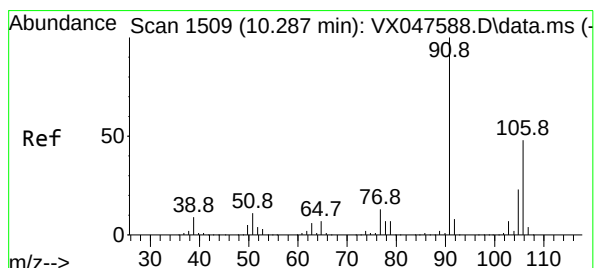
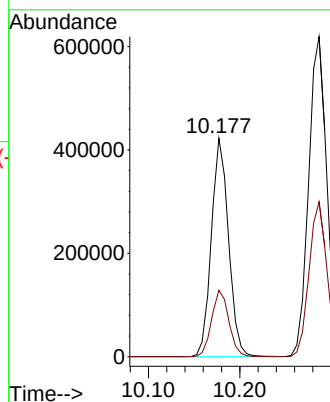
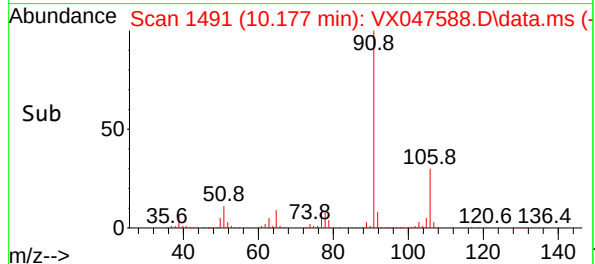
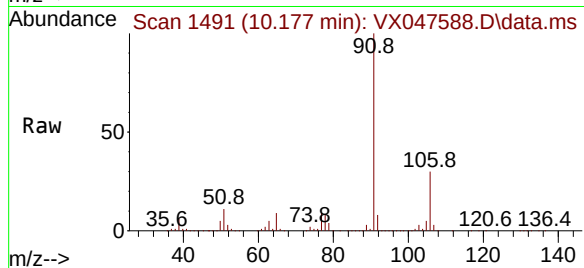
106 30.4 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 104.809 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VX047588.D

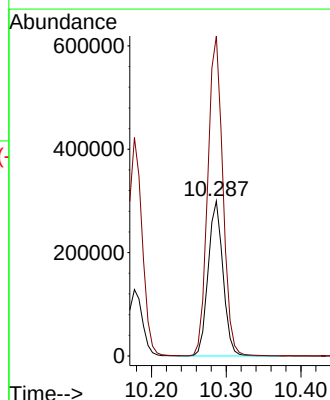
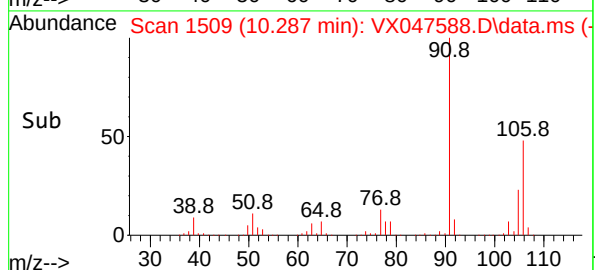
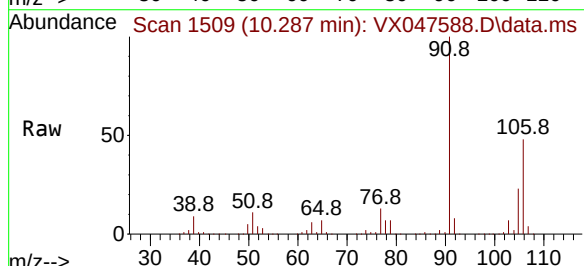
Acq: 16 Sep 2025 10:58

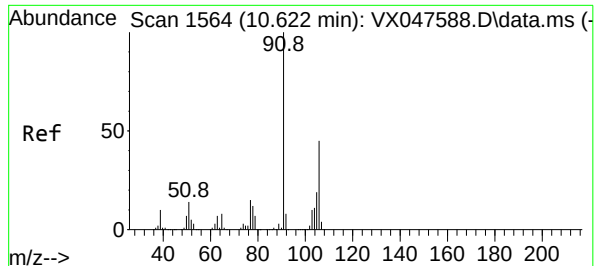
Tgt Ion:106 Resp: 412932

Ion Ratio Lower Upper

106 100

91 209.8 167.8 251.8





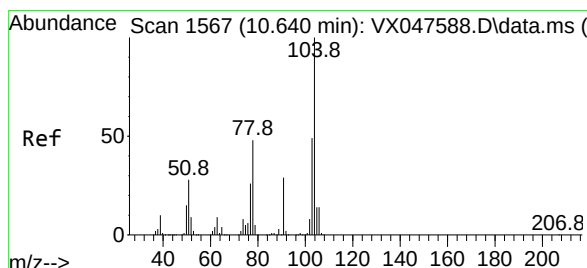
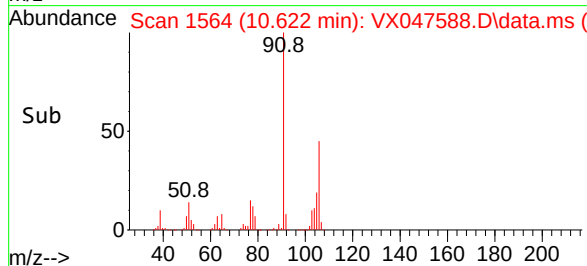
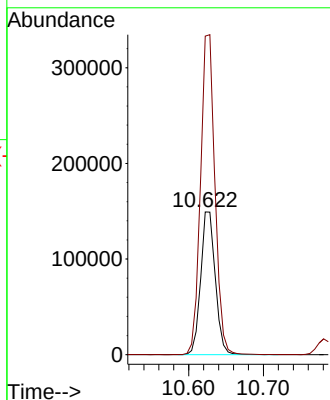
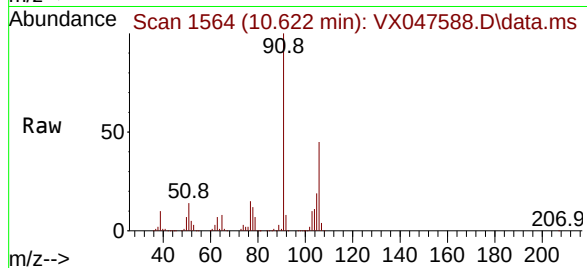
#69
o-Xylene
Concen: 53.084 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 20229
Ion Ratio Lower Upper
106 100
91 222.3 111.1 333.4

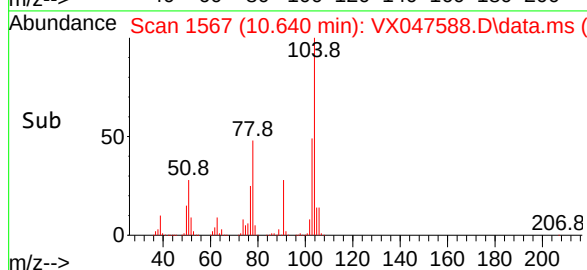
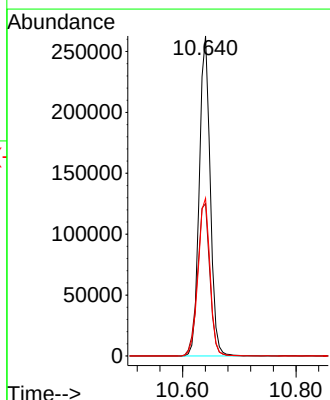
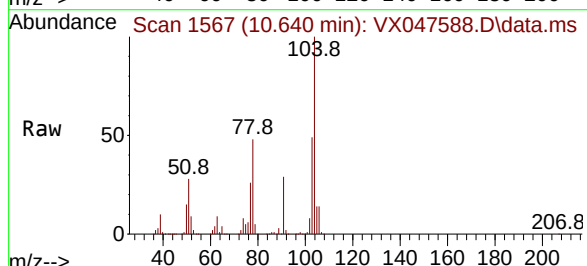
Manual Integrations
APPROVED

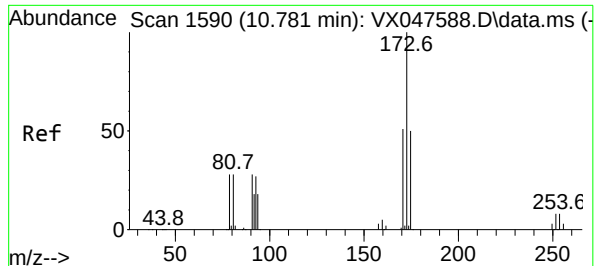
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 52.515 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

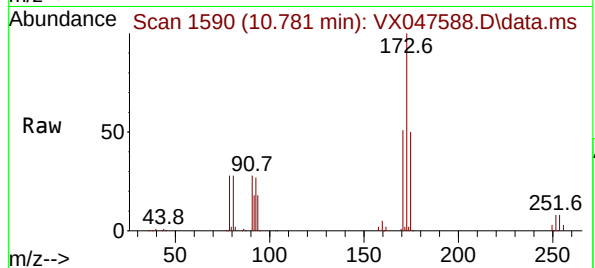
Tgt Ion:104 Resp: 350654
Ion Ratio Lower Upper
104 100
78 53.9 43.1 64.7
103 53.9 43.1 64.7





#71
Bromoform
Concen: 53.447 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

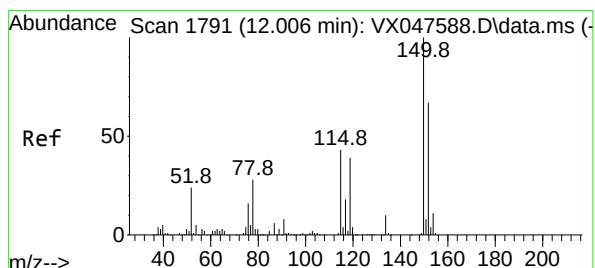
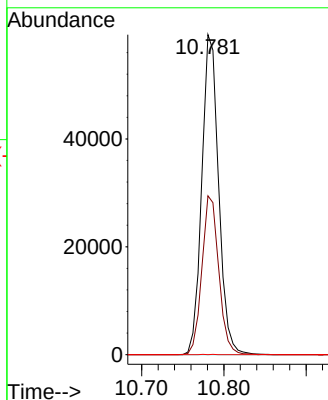
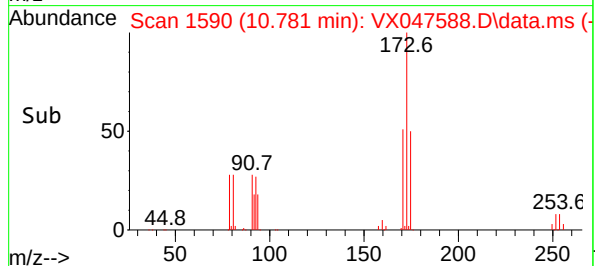
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:173 Resp: 8448
Ion Ratio Lower Upper
173 100
175 49.7 24.9 74.6
254 0.1 0.1 0.1

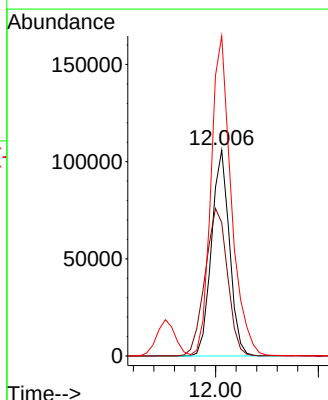
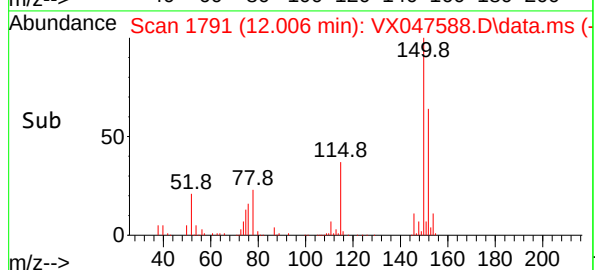
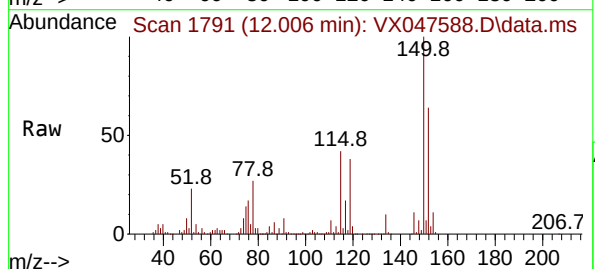
Manual Integrations
APPROVED

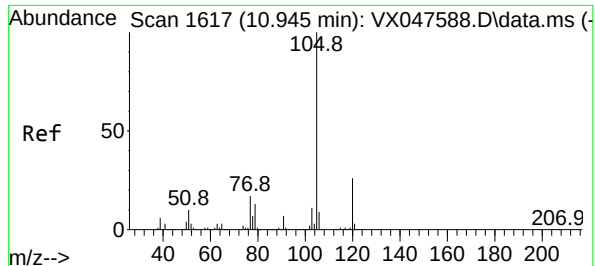
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

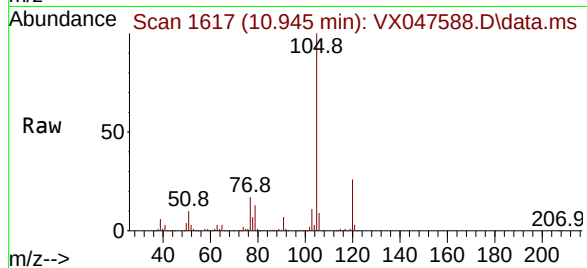
Tgt Ion:152 Resp: 127732
Ion Ratio Lower Upper
152 100
115 89.7 44.9 134.5
150 176.0 0.0 352.0





#73
Isopropylbenzene
Concen: 53.227 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

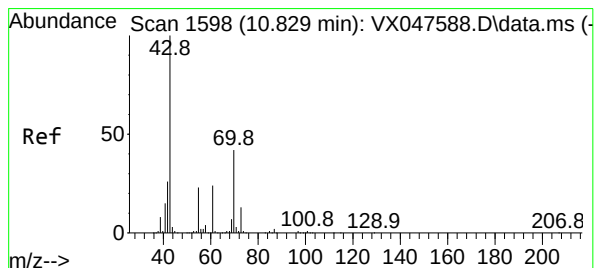
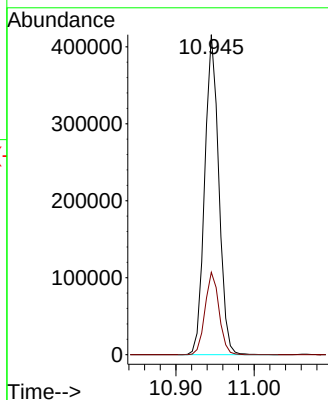
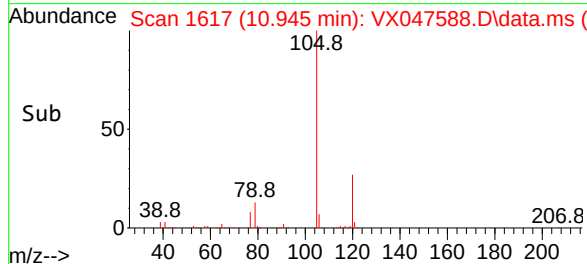
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:105 Resp: 51689
Ion Ratio Lower Upper
105 100
120 25.6 12.8 38.4

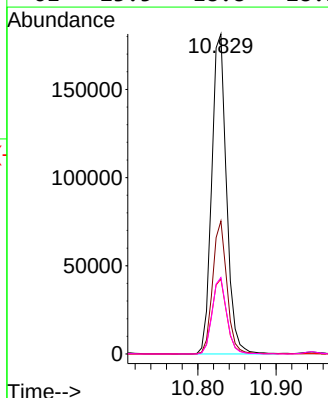
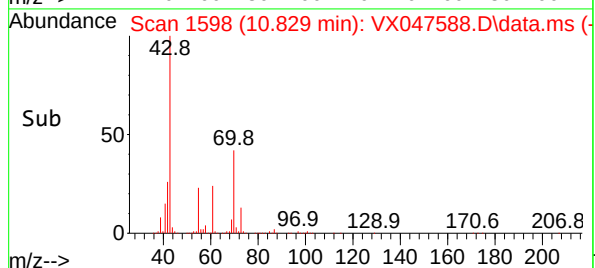
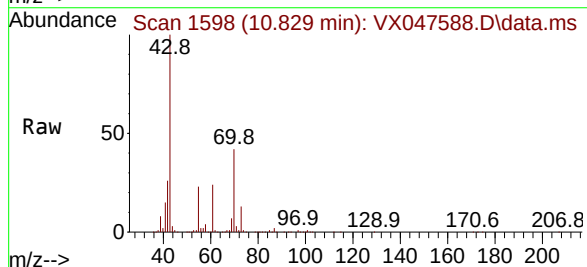
Manual Integrations
APPROVED

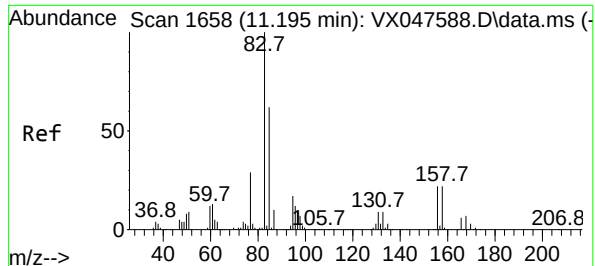
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 53.710 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

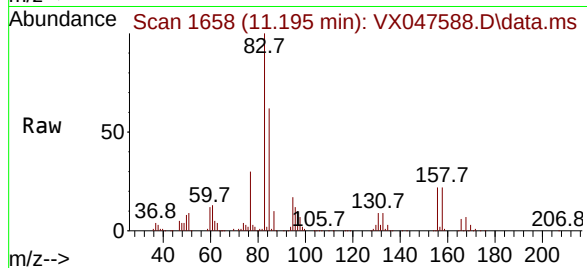
Tgt Ion: 43 Resp: 237846
Ion Ratio Lower Upper
43 100
70 40.0 32.0 48.0
55 23.6 18.9 28.3
61 23.5 18.8 28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 53.251 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

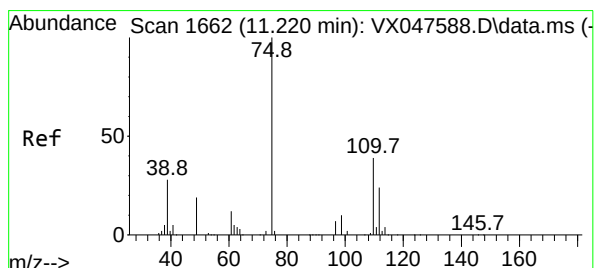
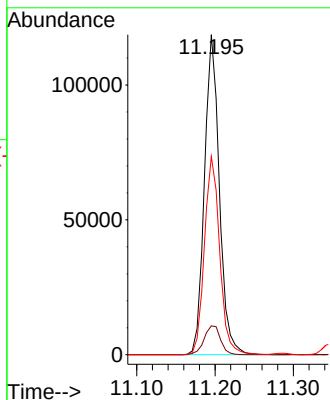
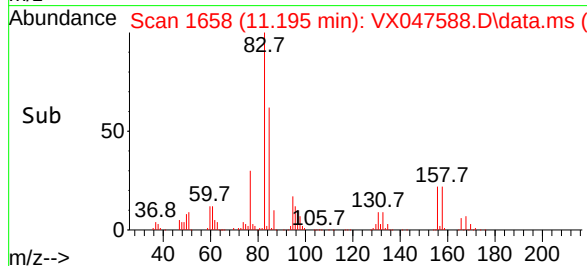
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 83 Resp: 156454
Ion Ratio Lower Upper
83 100
131 9.9 5.0 14.9
85 63.3 31.6 95.0

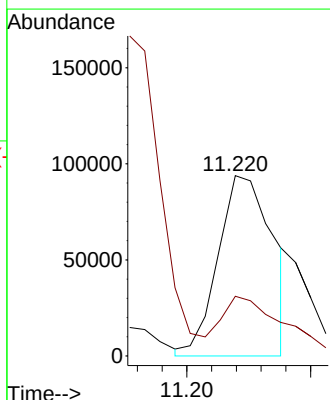
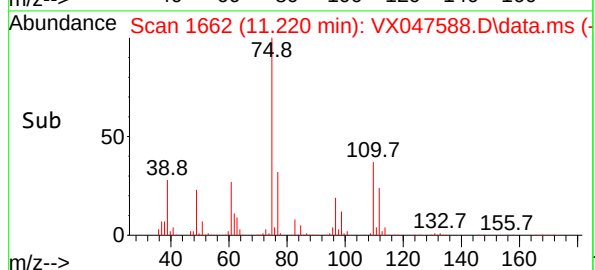
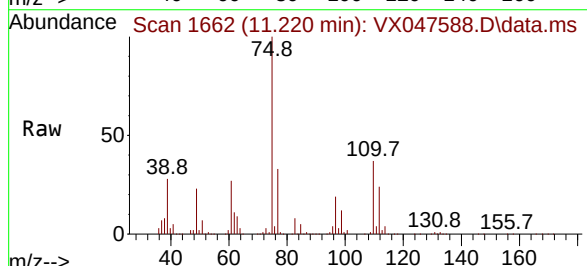
Manual Integrations
APPROVED

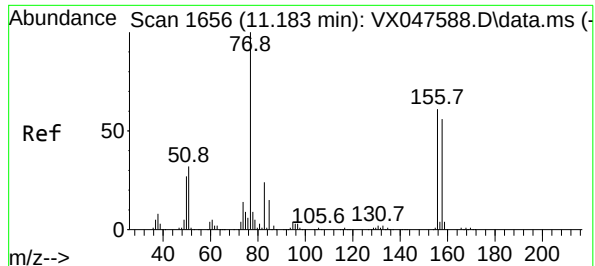
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 54.322 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

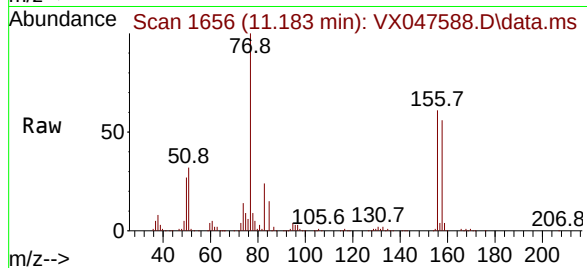
Tgt Ion: 75 Resp: 144074
Ion Ratio Lower Upper
75 100
77 37.6 18.8 56.4





#77
Bromobenzene
Concen: 52.754 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

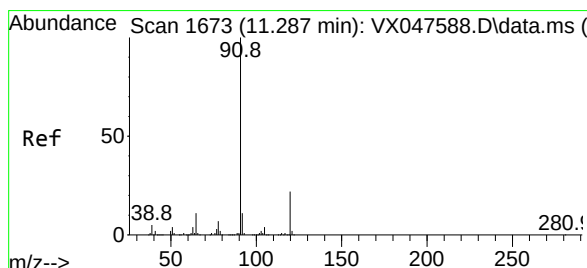
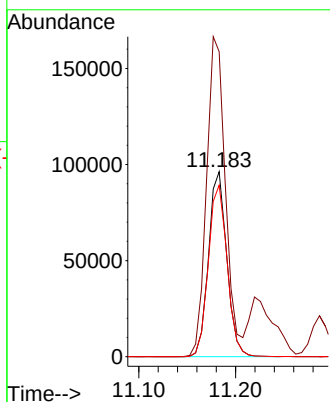
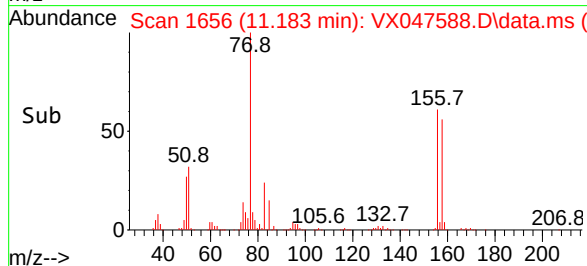
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 156 Resp: 126174
Ion Ratio Lower Upper
156 100
77 179.4 89.7 269.1
158 95.7 47.9 143.6

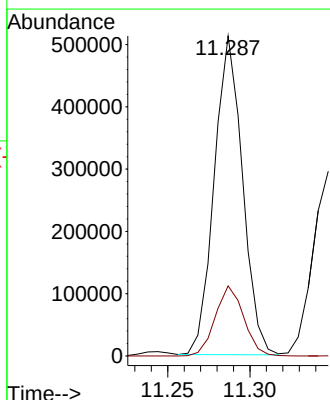
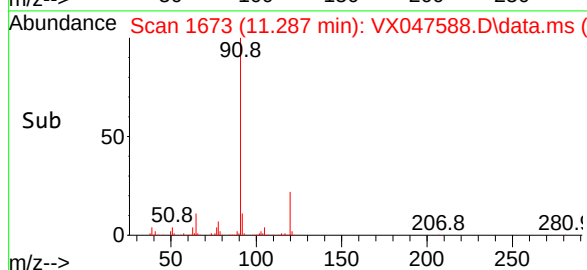
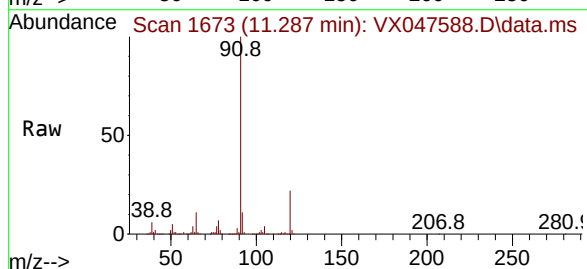
Manual Integrations
APPROVED

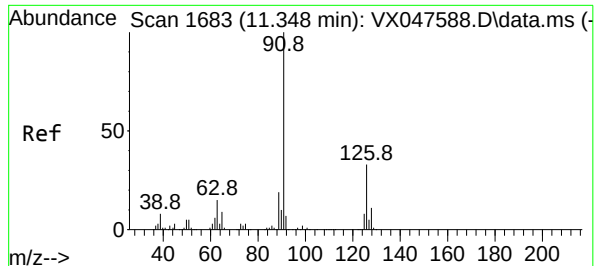
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#78
n-propylbenzene
Concen: 53.315 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 612035
Ion Ratio Lower Upper
91 100
120 22.1 11.1 33.1





#79

2-Chlorotoluene

Concen: 52.965 ug/l

RT: 11.348 min Scan# 1683

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 37239

Ion Ratio Lower Upper

91 100

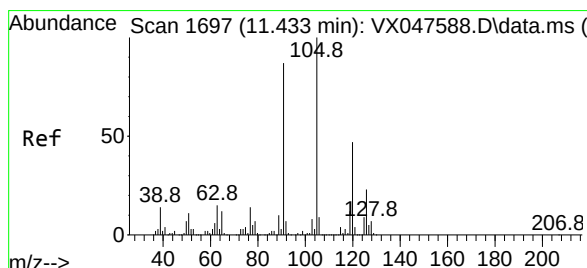
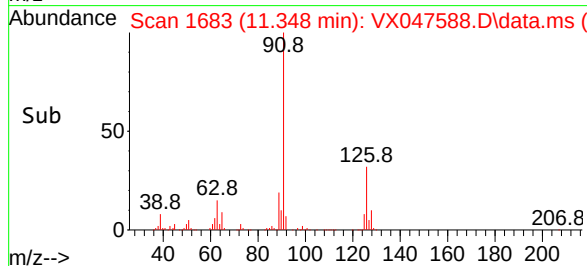
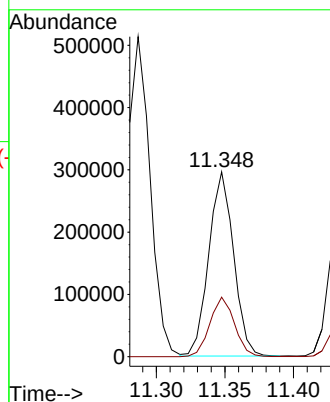
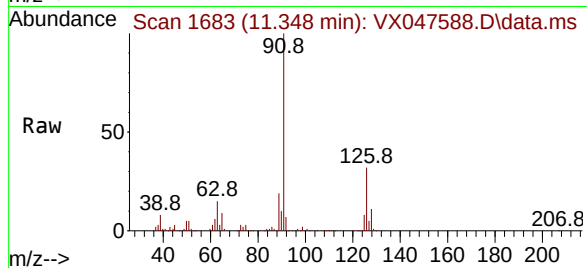
126 32.2 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#80

1,3,5-Trimethylbenzene

Concen: 53.518 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. 0.000 min

Lab File: VX047588.D

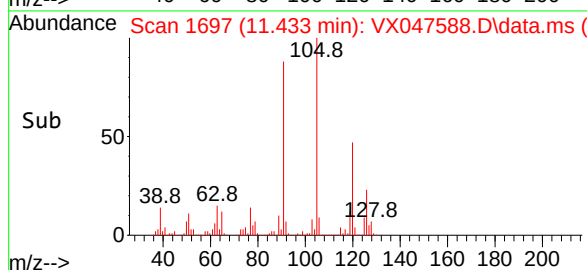
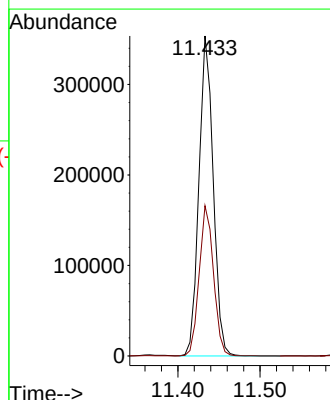
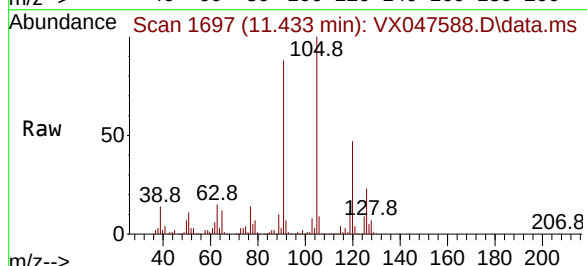
Acq: 16 Sep 2025 10:58

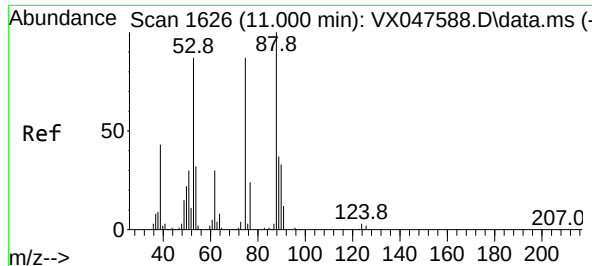
Tgt Ion:105 Resp: 426989

Ion Ratio Lower Upper

105 100

120 47.2 23.6 70.8





#81

trans-1,4-Dichloro-2-butene

Concen: 52.190 ug/l

RT: 11.000 min Scan# 1626

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

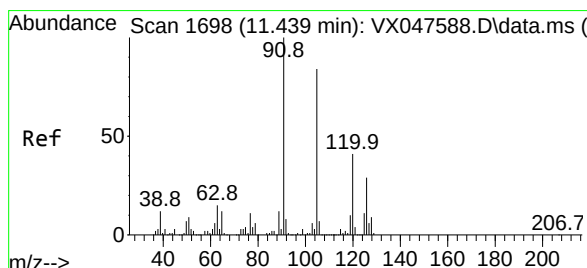
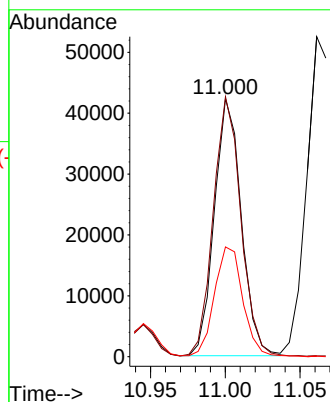
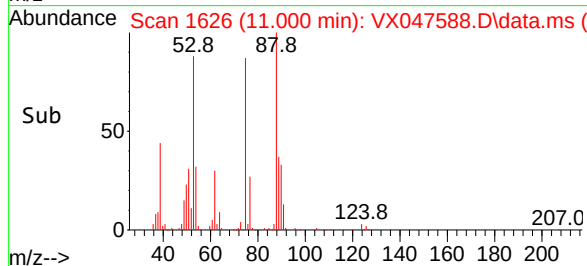
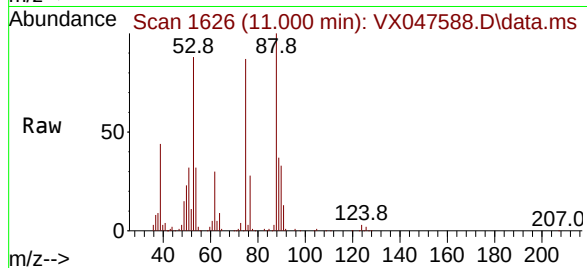
Tgt Ion:	75	Resp:	5292
Ion	Ratio	Lower	Upper
75	100		
53	104.3	83.4	125.2
89	45.4	36.3	54.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#82

4-Chlorotoluene

Concen: 52.806 ug/l

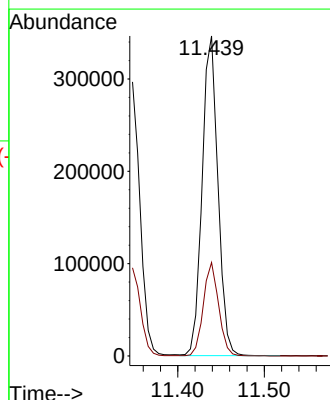
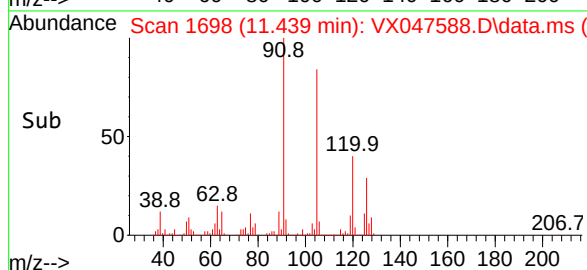
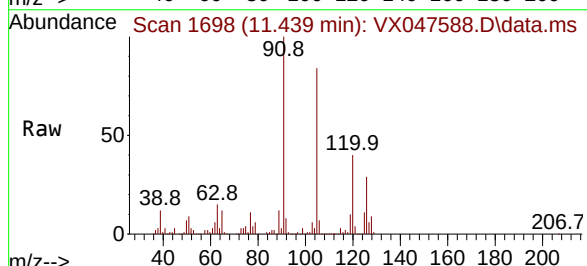
RT: 11.439 min Scan# 1698

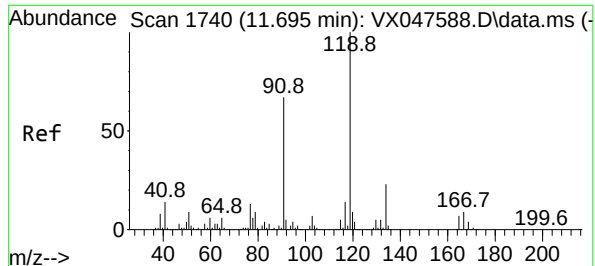
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion:	91	Resp:	438502
Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6





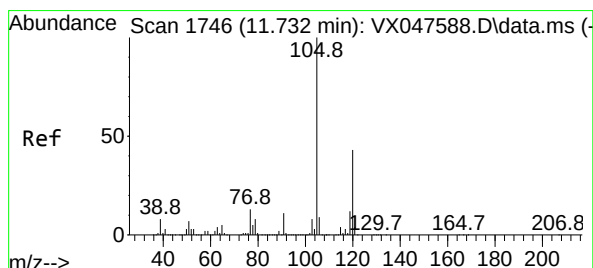
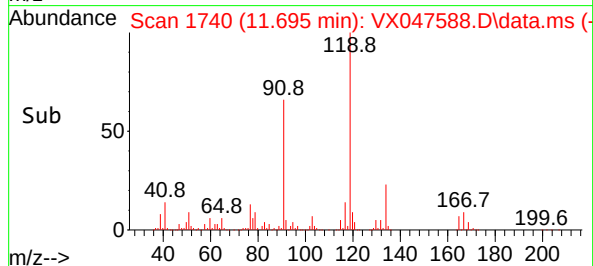
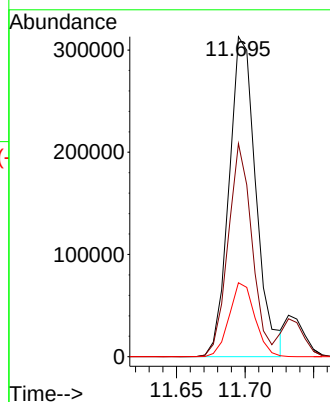
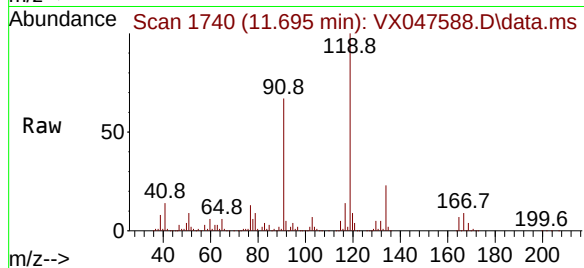
#83
tert-Butylbenzene
Concen: 52.539 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 429107
Ion Ratio Lower Upper
119 100
91 59.2 29.6 88.8
134 22.0 11.0 33.0

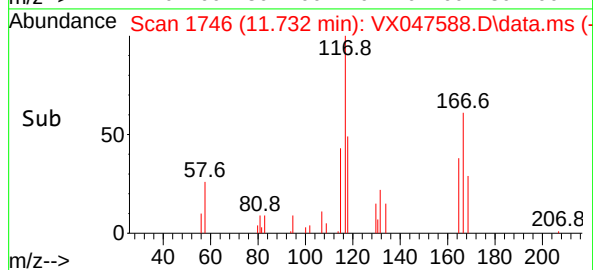
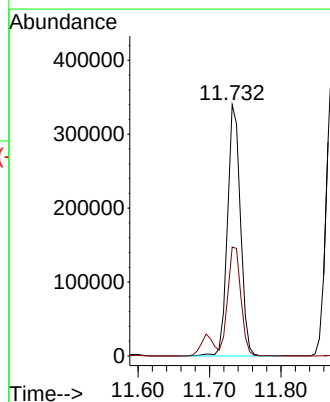
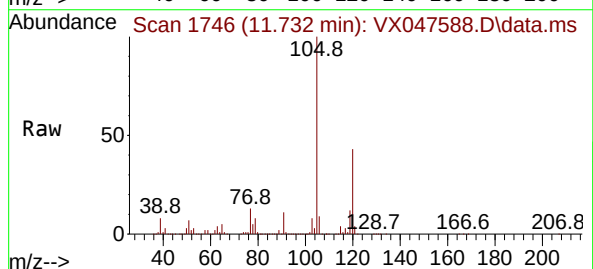
Manual Integrations
APPROVED

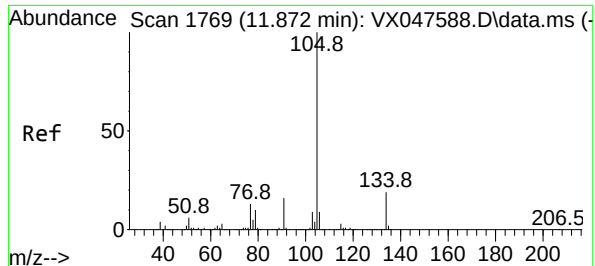
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#84
1,2,4-Trimethylbenzene
Concen: 52.798 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 427073
Ion Ratio Lower Upper
105 100
120 44.1 22.1 66.1





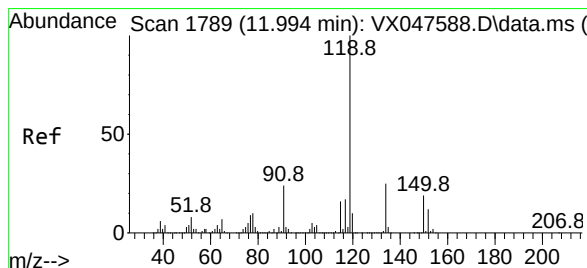
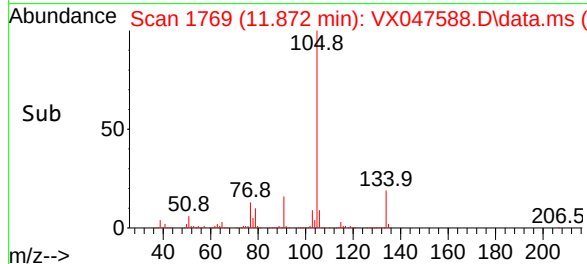
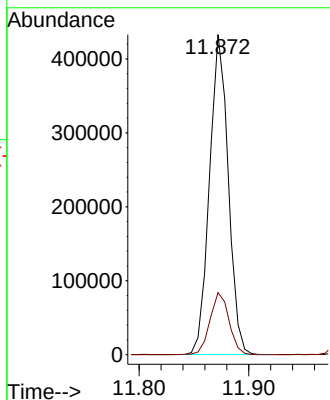
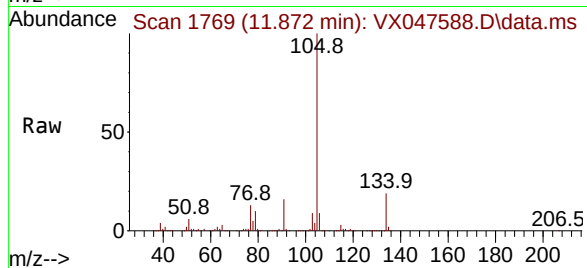
#85
sec-Butylbenzene
Concen: 53.029 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 51444
Ion Ratio Lower Upper
105 100
134 19.7 9.8 29.5

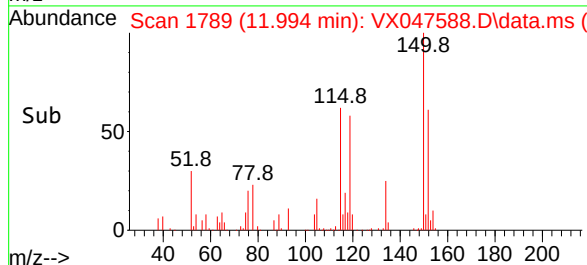
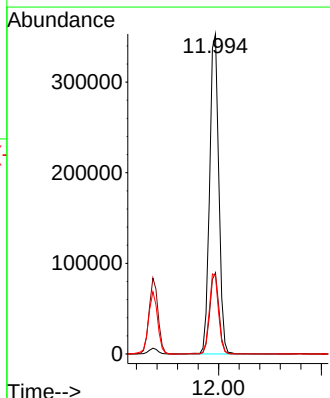
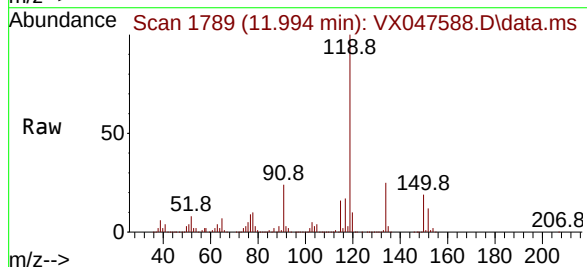
Manual Integrations
APPROVED

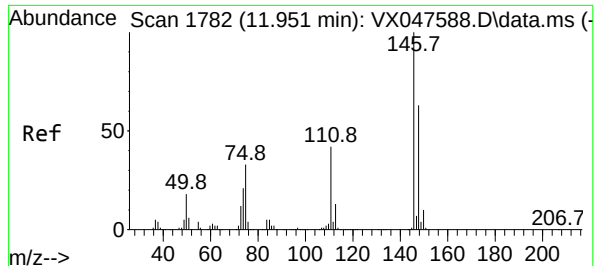
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#86
p-Isopropyltoluene
Concen: 53.172 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:119 Resp: 436704
Ion Ratio Lower Upper
119 100
134 25.2 12.6 37.8
91 25.1 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 52.232 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 232038

Ion Ratio Lower Upper

146 100

111 43.0 21.5 64.5

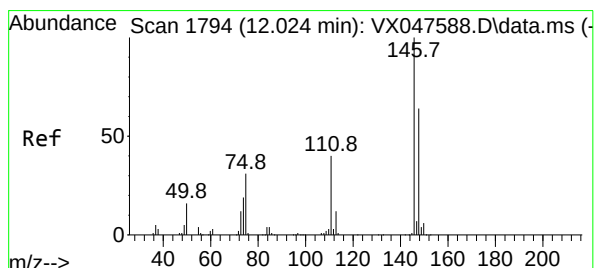
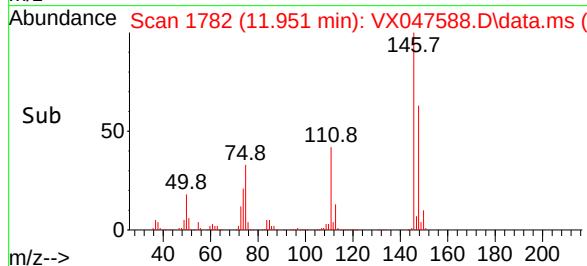
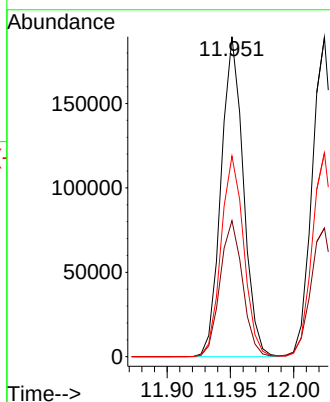
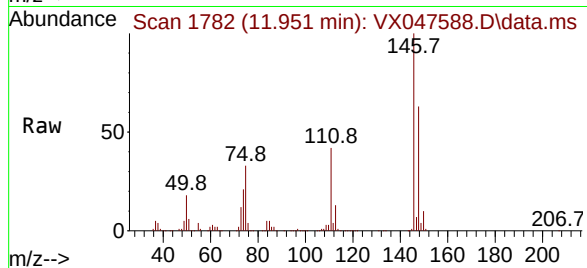
148 64.0 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 51.316 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

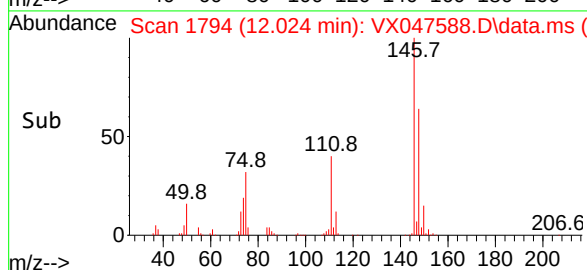
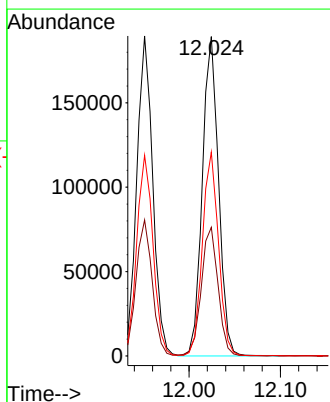
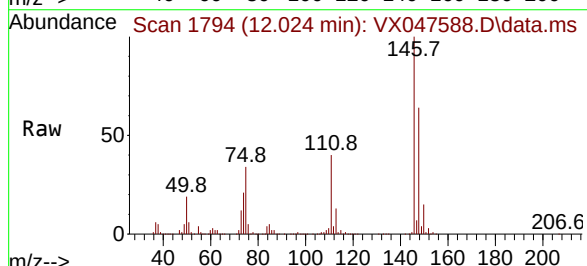
Tgt Ion:146 Resp: 233975

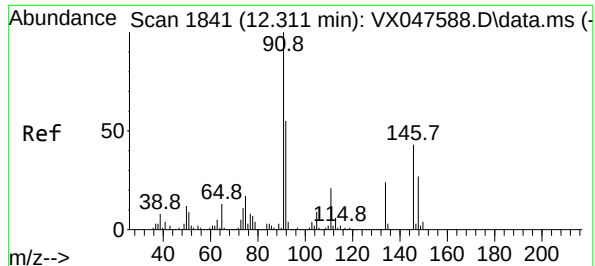
Ion Ratio Lower Upper

146 100

111 41.6 20.8 62.4

148 63.4 31.7 95.1





#89

n-Butylbenzene

Concen: 52.766 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

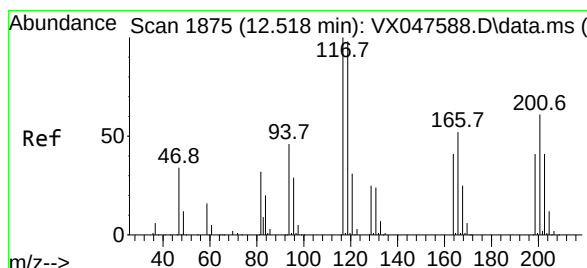
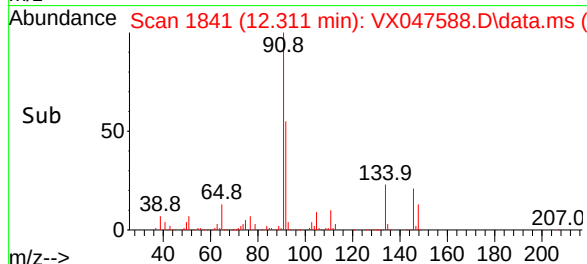
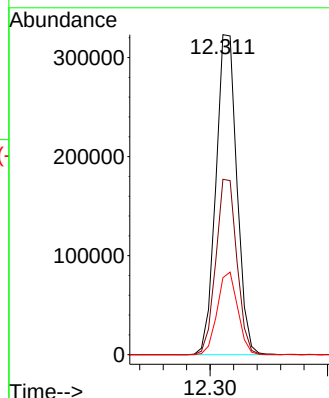
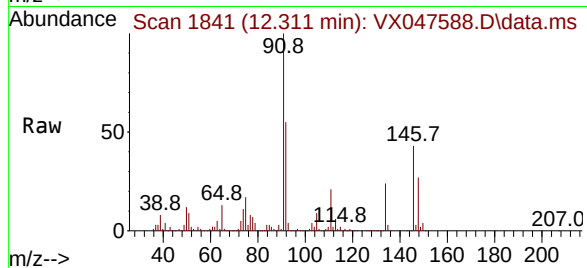
Tgt Ion:	91	Resp:	40099
Ion	Ratio	Lower	Upper
91	100		
92	55.1	27.6	82.7
134	25.2	12.6	37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 52.567 ug/l

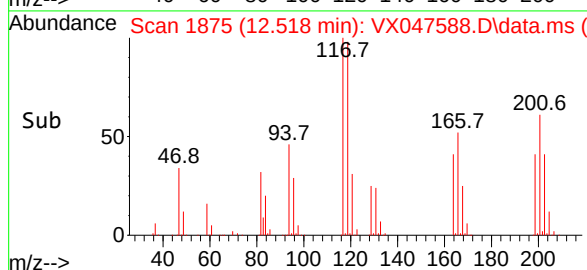
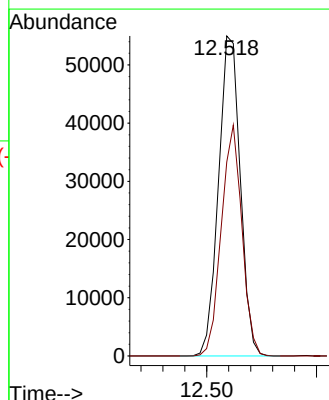
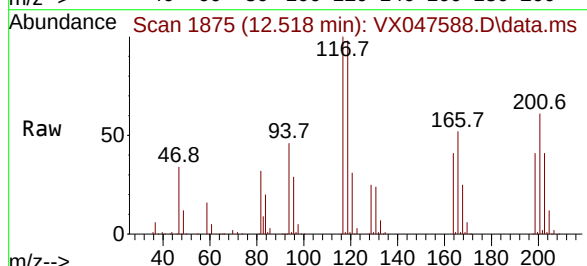
RT: 12.518 min Scan# 1875

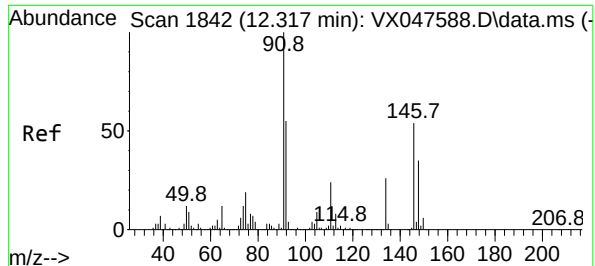
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

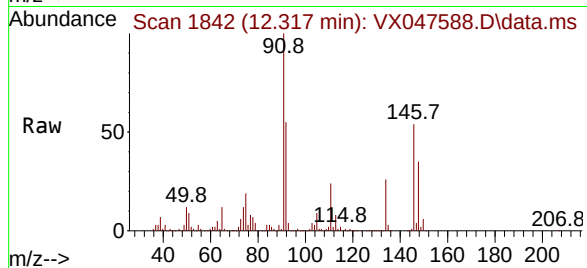
Tgt Ion:	117	Resp:	75800
Ion	Ratio	Lower	Upper
117	100		
201	68.3	34.2	102.5





#91
1,2-Dichlorobenzene
Concen: 52.688 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

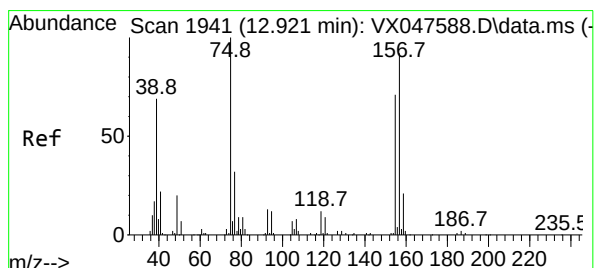
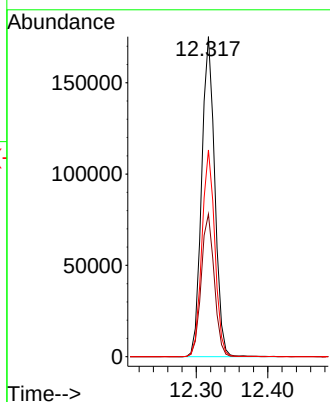
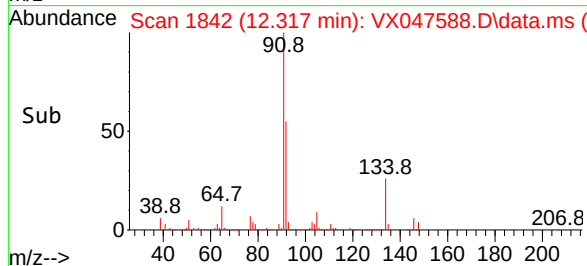
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 222993
Ion Ratio Lower Upper
146 100
111 44.4 22.2 66.6
148 63.6 31.8 95.4

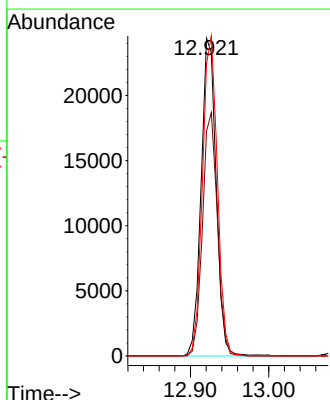
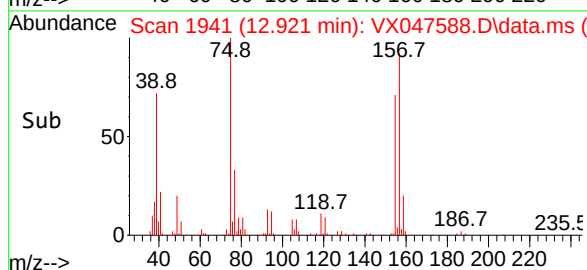
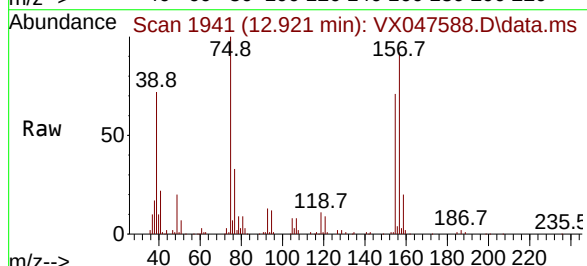
Manual Integrations
APPROVED

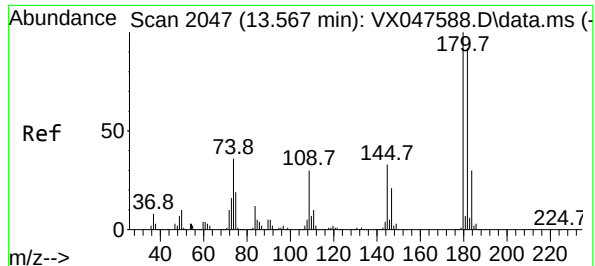
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 54.554 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 32451
Ion Ratio Lower Upper
75 100
155 75.4 37.7 113.1
157 99.6 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 53.685 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

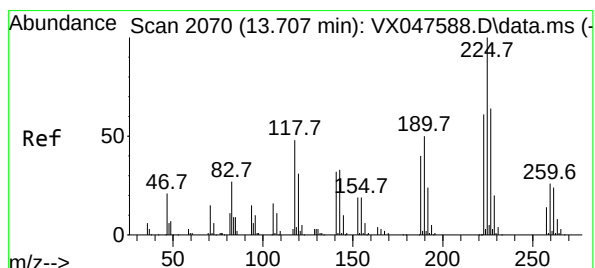
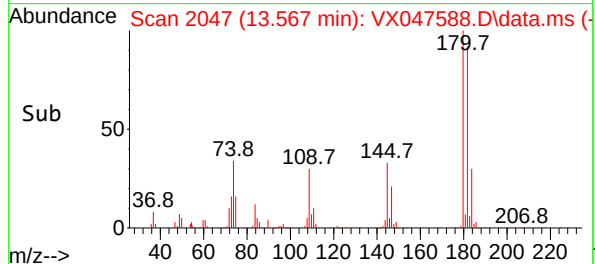
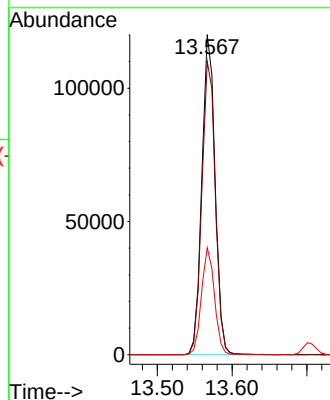
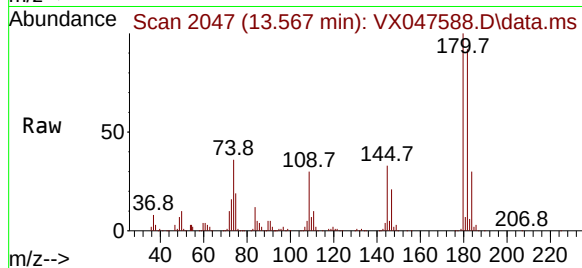
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	32.7	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 52.510 ug/l

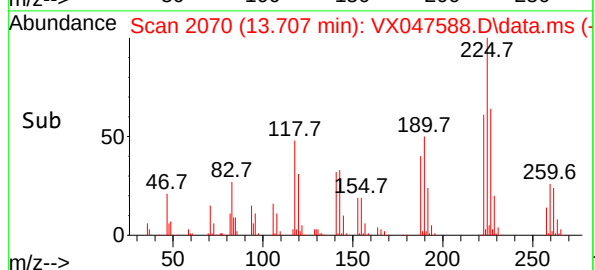
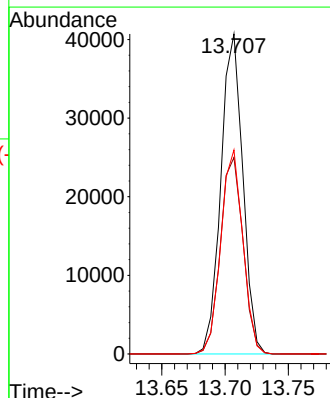
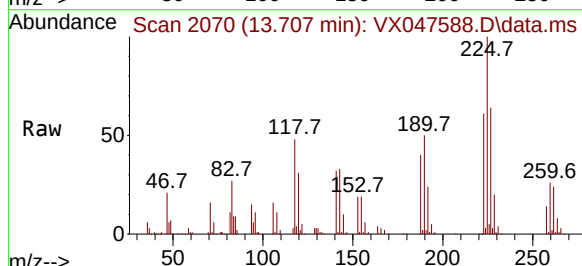
RT: 13.707 min Scan# 2070

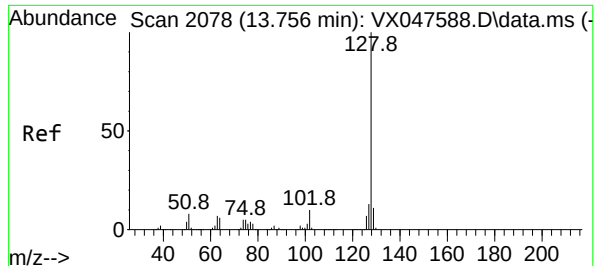
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.7	95.1
227	64.0	32.0	96.0





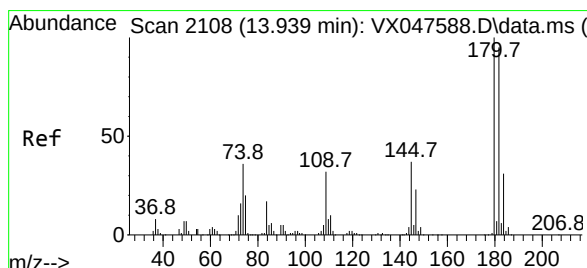
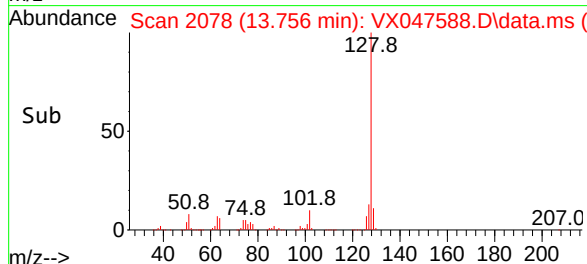
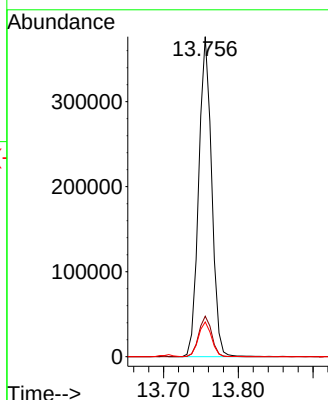
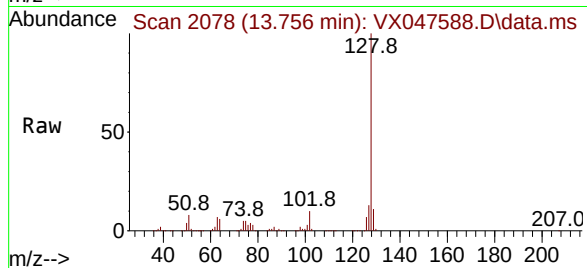
#95
Naphthalene
Concen: 53.966 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 452011
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 11.0 8.8 13.2

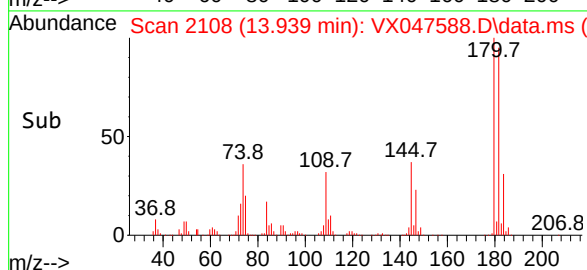
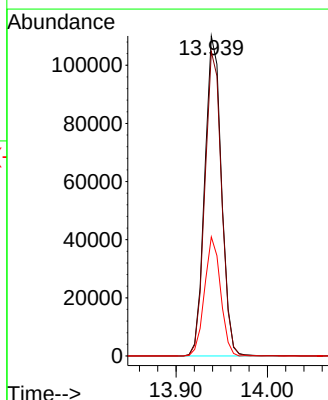
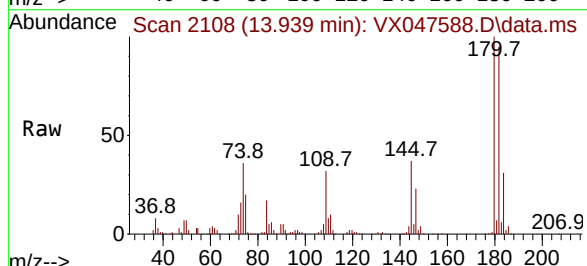
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 54.316 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:180 Resp: 138978
Ion Ratio Lower Upper
180 100
182 95.2 47.6 142.8
145 35.8 17.9 53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047589.D
 Acq On : 16 Sep 2025 11:40
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.532	168	169280	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	298913	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	258399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122218	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	275758	102.341	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 204.680%#			
35) Dibromofluoromethane	5.361	113	212419	105.962	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 211.920%#			
50) Toluene-d8	8.629	98	724078	104.386	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 208.780%#			
62) 4-Bromofluorobenzene	11.061	95	270289	102.672	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 205.340%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	172727	98.537	ug/l	100
3) Chloromethane	1.301	50	229165	99.472	ug/l	100
4) Vinyl Chloride	1.380	62	229175	101.621	ug/l	100
5) Bromomethane	1.611	94	143113	100.076	ug/l	99
6) Chloroethane	1.691	64	152487	101.167	ug/l	99
7) Trichlorofluoromethane	1.892	101	344488	102.878	ug/l	100
8) Diethyl Ether	2.130	74	142038	103.695	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	199843	102.067	ug/l	99
10) Methyl Iodide	2.453	142	313092	102.531	ug/l	99
11) Tert butyl alcohol	2.947	59	152108	506.863	ug/l	98
12) 1,1-Dichloroethene	2.319	96	206097	102.473	ug/l	93
13) Acrolein	2.233	56	150793	545.276	ug/l	97
14) Allyl chloride	2.660	41	415140	100.028	ug/l	99
15) Acrylonitrile	3.056	53	581240	522.897	ug/l	100
16) Acetone	2.374	43	510542	435.772	ug/l	100
17) Carbon Disulfide	2.514	76	537888	97.693	ug/l	98
18) Methyl Acetate	2.697	43	292867	112.324	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	748952	102.011	ug/l	100
20) Methylene Chloride	2.782	84	242548	97.805	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	217759	100.566	ug/l	98
22) Diisopropyl ether	3.745	45	811840	100.934	ug/l	88
23) Vinyl Acetate	3.709	43	3314707	514.916	ug/l	99
24) 1,1-Dichloroethane	3.599	63	435815	101.944	ug/l	98
25) 2-Butanone	4.532	43	700827	479.558	ug/l	97
26) 2,2-Dichloropropane	4.465	77	357292	100.542	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	266550	100.516	ug/l	100
28) Bromochloromethane	4.873	49	198788	106.512	ug/l	99
29) Tetrahydrofuran	4.977	42	443530	504.502	ug/l	99
30) Chloroform	5.074	83	433937	100.447	ug/l	100
31) Cyclohexane	5.452	56	332995	93.523	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	372323	101.607	ug/l	99
36) 1,1-Dichloropropene	5.672	75	281650	96.149	ug/l	98
37) Ethyl Acetate	4.690	43	318793	101.641	ug/l	99
38) Carbon Tetrachloride	5.660	117	314745	98.891	ug/l	98
39) Methylcyclohexane	7.360	83	327858	98.600	ug/l	98
40) Benzene	6.019	78	880885	99.009	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047589.D
 Acq On : 16 Sep 2025 11:40
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	168753	104.220	ug/l	99
42) 1,2-Dichloroethane	6.062	62	331465	97.916	ug/l	100
43) Isopropyl Acetate	6.318	43	516875	100.482	ug/l	99
44) Trichloroethene	7.104	130	217753	101.234	ug/l	96
45) 1,2-Dichloropropane	7.409	63	228150	100.145	ug/l	100
46) Dibromomethane	7.562	93	164987	99.519	ug/l	99
47) Bromodichloromethane	7.806	83	345991	101.136	ug/l	98
48) Methyl methacrylate	7.671	41	260358	101.612	ug/l	100
49) 1,4-Dioxane	7.641	88	56717	2190.315	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	1431253	501.834	ug/l	100
52) Toluene	8.702	92	536148	97.811	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	355881	101.986	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	380577	102.038	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	205939	97.434	ug/l	97
56) Ethyl methacrylate	9.098	69	346659	104.435	ug/l	99
57) 1,3-Dichloropropane	9.293	76	362848	99.935	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	836362	499.814	ug/l	100
59) 2-Hexanone	9.415	43	996274	486.380	ug/l	100
60) Dibromochloromethane	9.506	129	251394	103.226	ug/l	99
61) 1,2-Dibromoethane	9.592	107	217751	101.147	ug/l	100
64) Tetrachloroethene	9.256	164	165559	98.284	ug/l	98
65) Chlorobenzene	10.061	112	588517	100.253	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	208621	102.988	ug/l	100
67) Ethyl Benzene	10.177	91	1031346	101.823	ug/l	100
68) m/p-Xylenes	10.287	106	763898	202.624	ug/l	99
69) o-Xylene	10.622	106	372621	102.186	ug/l	99
70) Styrene	10.634	104	649863	101.710	ug/l	100
71) Bromoform	10.781	173	161188	106.566	ug/l	98
73) Isopropylbenzene	10.945	105	954900	102.768	ug/l	100
74) N-amyl acetate	10.823	43	448344	105.812	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	281608	100.172	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	229521m	90.444	ug/l	
77) Bromobenzene	11.183	156	234666	102.541	ug/l	98
78) n-propylbenzene	11.287	91	1119728	101.941	ug/l	99
79) 2-Chlorotoluene	11.348	91	683867	101.652	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	787327	103.134	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	102555	105.689	ug/l	98
82) 4-Chlorotoluene	11.433	91	802929	101.054	ug/l	100
83) tert-Butylbenzene	11.695	119	791896	101.333	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	790557	102.144	ug/l	99
85) sec-Butylbenzene	11.872	105	945321	101.840	ug/l	100
86) p-Isopropyltoluene	11.994	119	797643	101.501	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	432248	101.689	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	431839	98.985	ug/l	100
89) n-Butylbenzene	12.311	91	757239	104.138	ug/l	99
90) Hexachloroethane	12.518	117	148048	107.304	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	414491	102.352	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	61029	107.225	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	278777	105.922	ug/l	100
94) Hexachlorobutadiene	13.707	225	92124	103.049	ug/l	99
95) Naphthalene	13.756	128	854492	106.620	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	263512	107.633	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

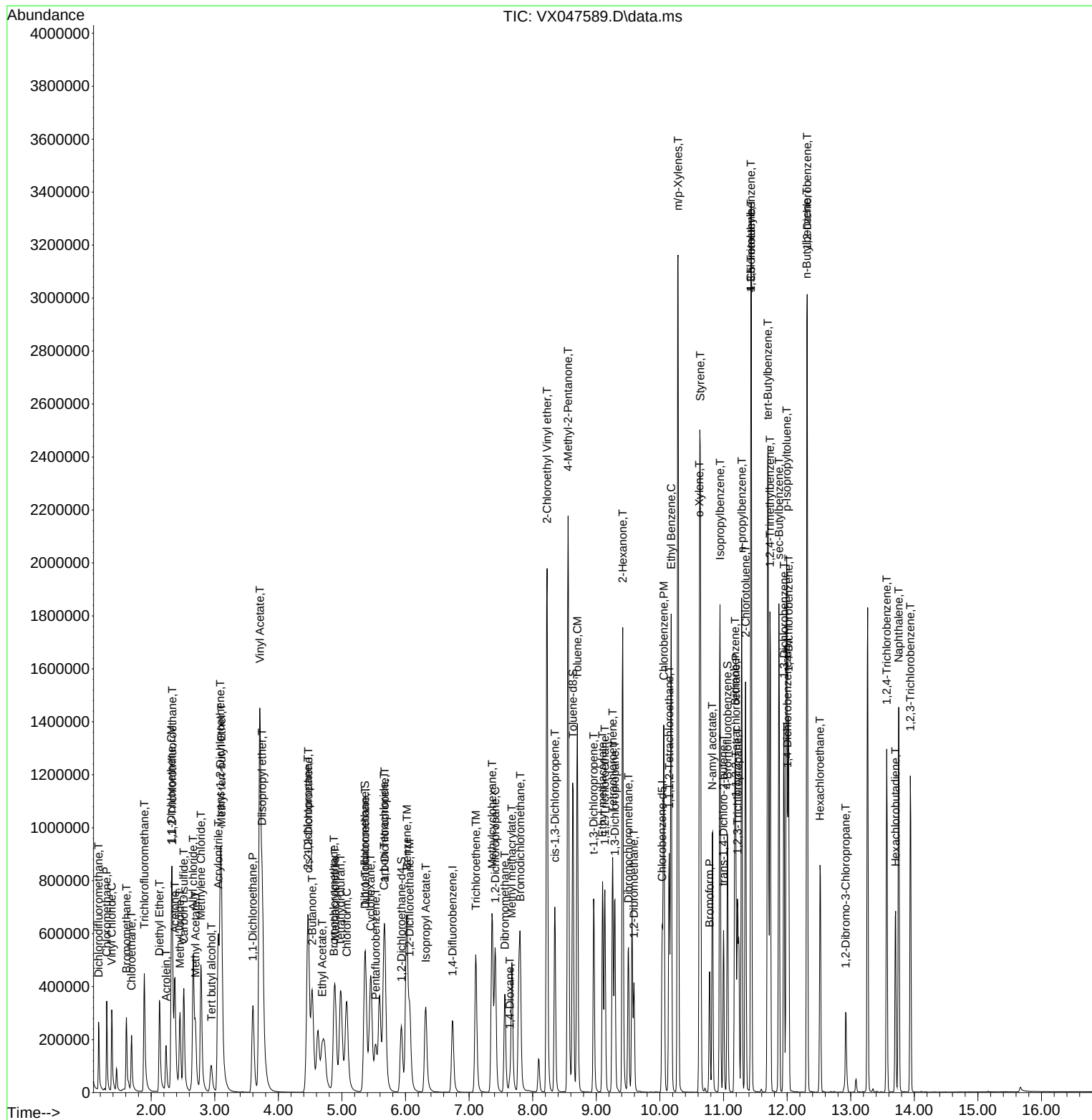
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

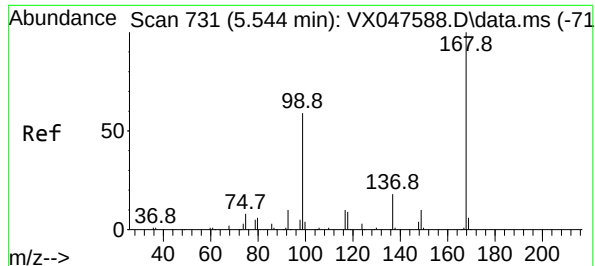
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 71

Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:168 Resp: 169280

Ion Ratio Lower Upper

168 100

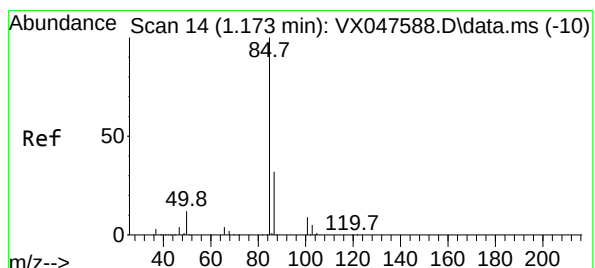
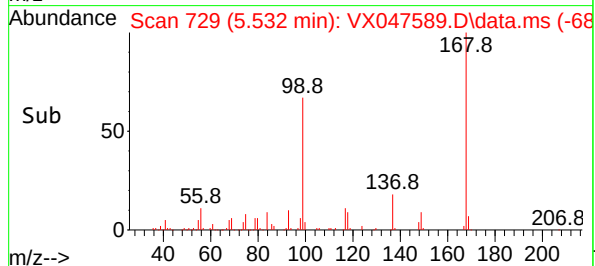
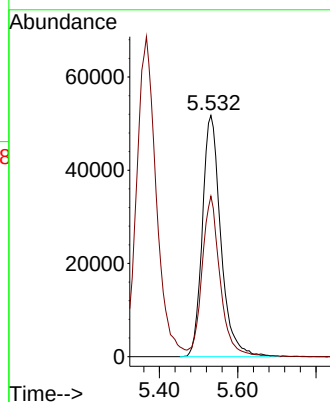
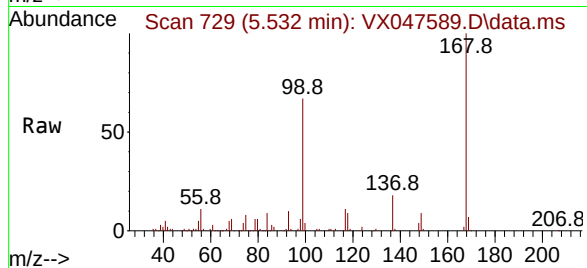
99 66.4 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#2

Dichlorodifluoromethane

Concen: 98.537 ug/l

RT: 1.173 min Scan# 14

Delta R.T. -0.000 min

Lab File: VX047589.D

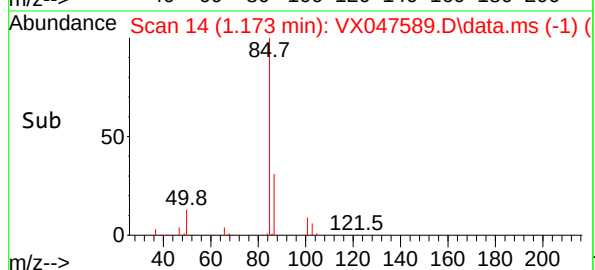
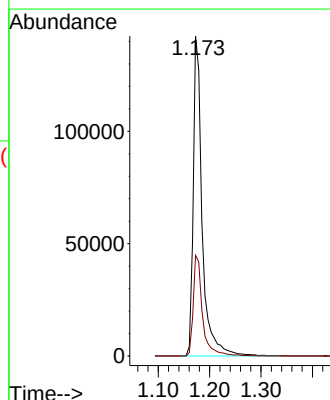
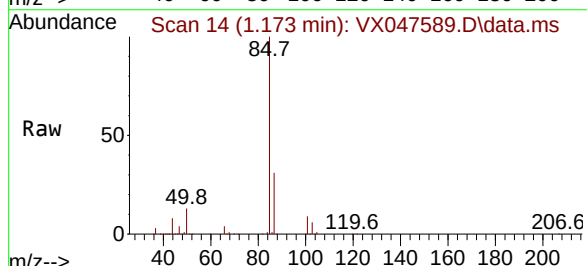
Acq: 16 Sep 2025 11:40

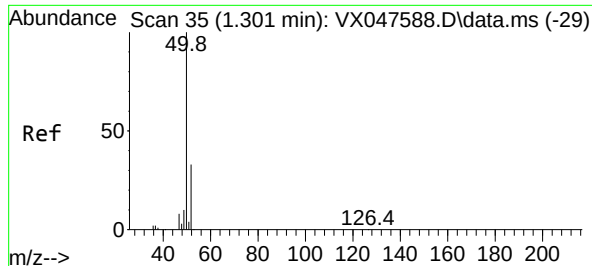
Tgt Ion: 85 Resp: 172727

Ion Ratio Lower Upper

85 100

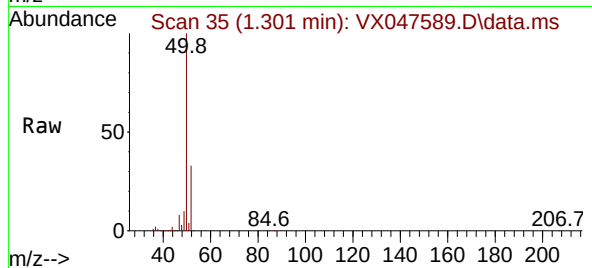
87 31.4 15.8 47.3





#3
Chloromethane
Concen: 99.472 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

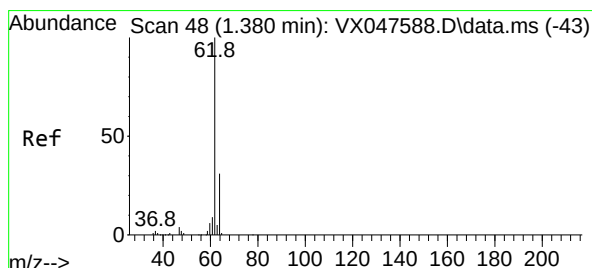
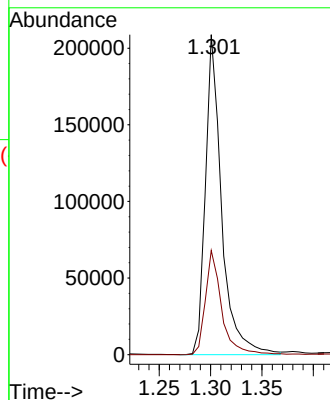
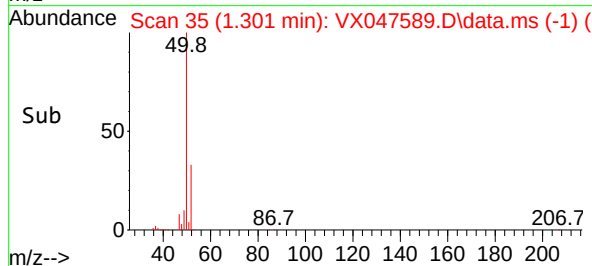
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 50 Resp: 22916
Ion Ratio Lower Upper
50 100
52 32.5 26.1 39.1

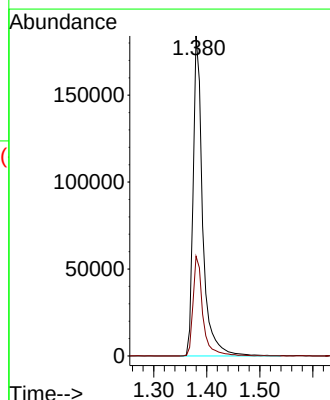
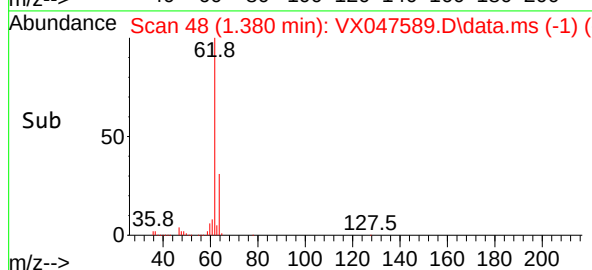
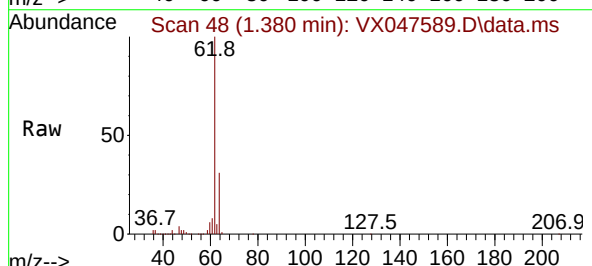
Manual Integrations
APPROVED

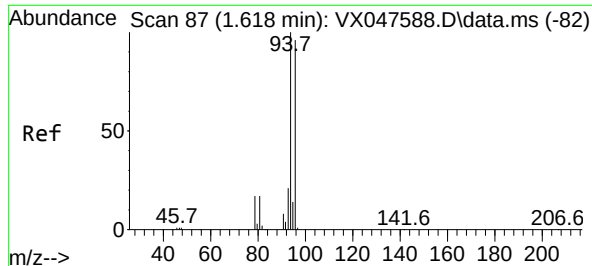
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 101.621 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 229175
Ion Ratio Lower Upper
62 100
64 31.1 24.9 37.3





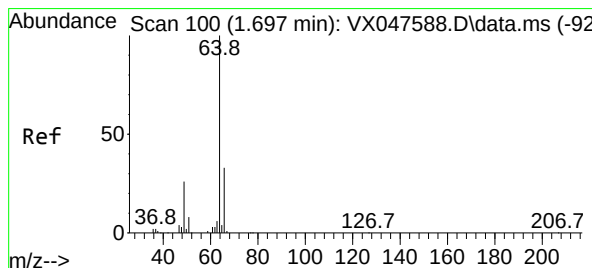
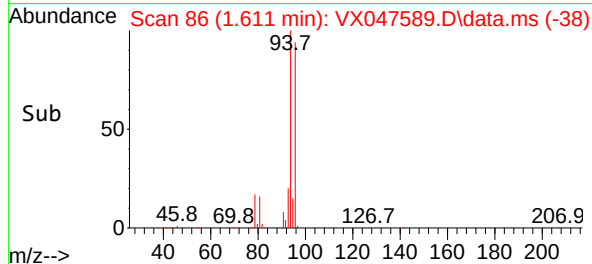
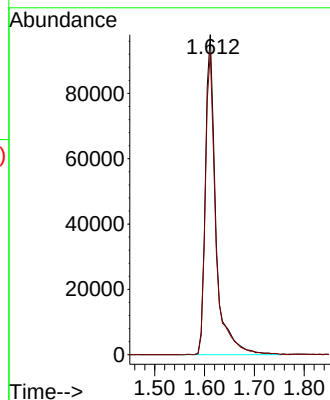
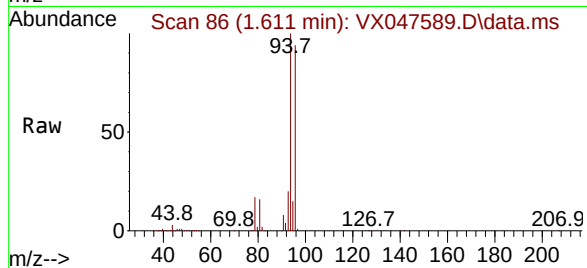
#5
Bromomethane
Concen: 100.076 ug/l
RT: 1.611 min Scan# 80
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 14311
Ion Ratio Lower Upper
94 100
96 94.4 76.6 115.0

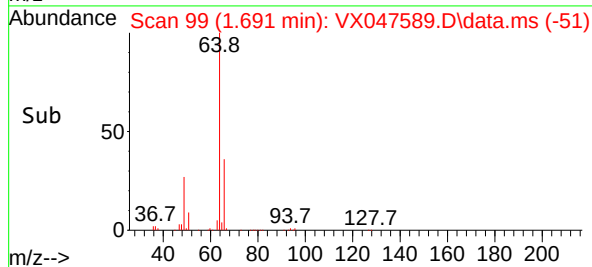
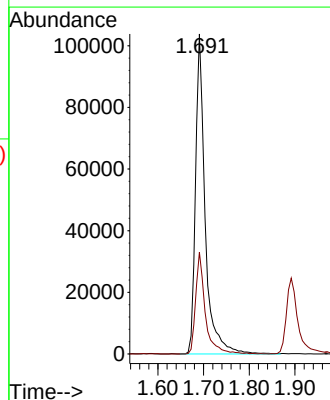
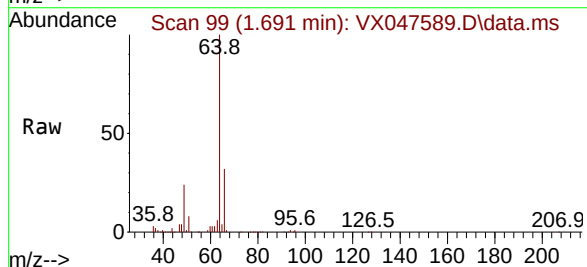
Manual Integrations
APPROVED

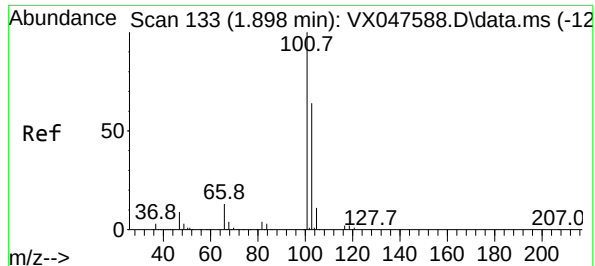
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 101.167 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 64 Resp: 152487
Ion Ratio Lower Upper
64 100
66 31.8 26.1 39.1





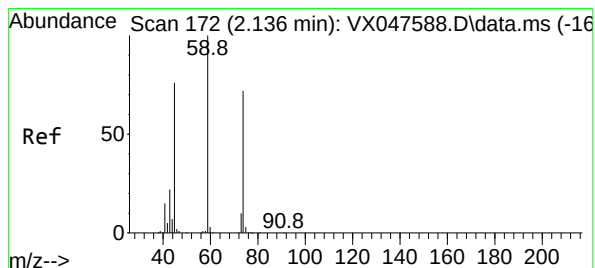
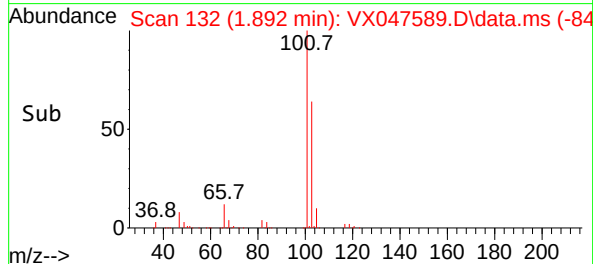
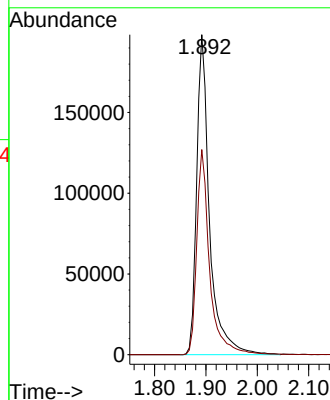
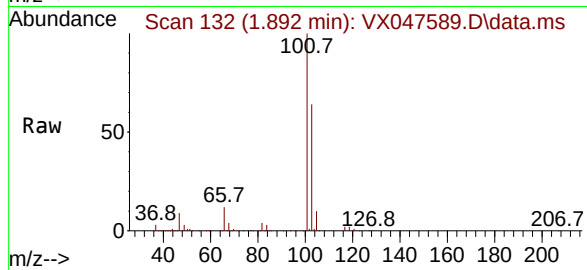
#7
Trichlorofluoromethane
Concen: 102.878 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 34448
Ion Ratio Lower Upper
101 100
103 64.1 51.4 77.2

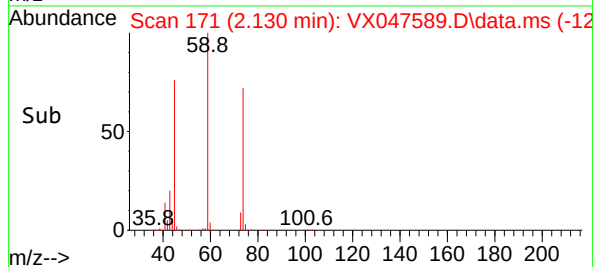
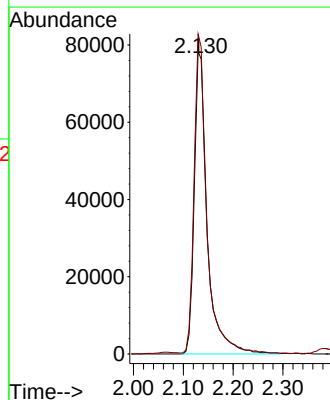
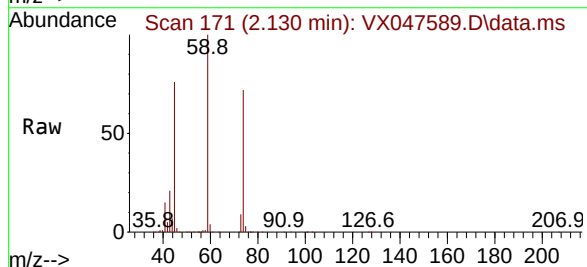
Manual Integrations
APPROVED

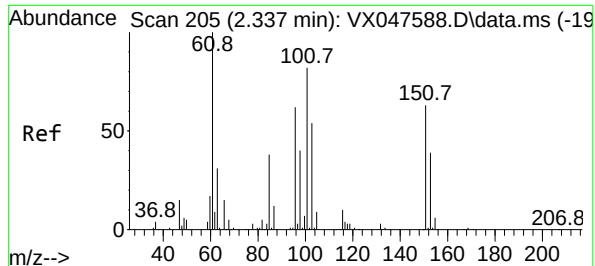
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 103.695 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

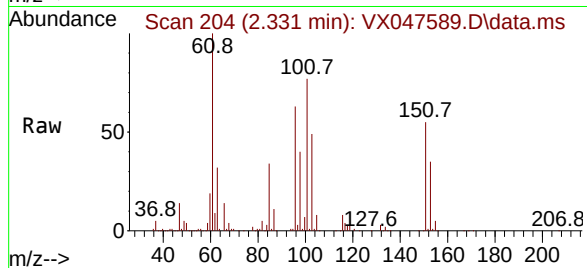
Tgt Ion: 74 Resp: 142038
Ion Ratio Lower Upper
74 100
45 104.6 52.3 156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 102.067 ug/l
RT: 2.331 min Scan# 205
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

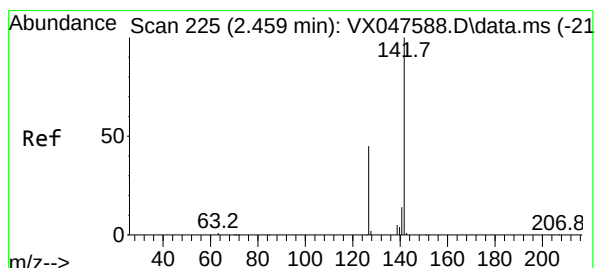
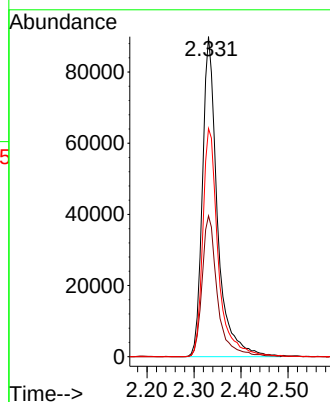
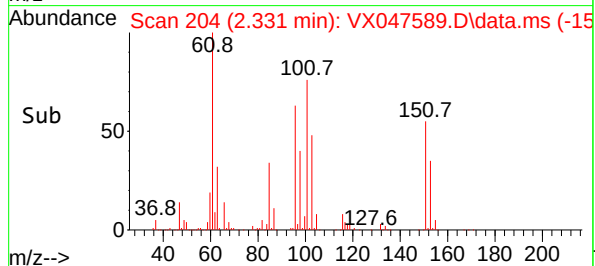
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



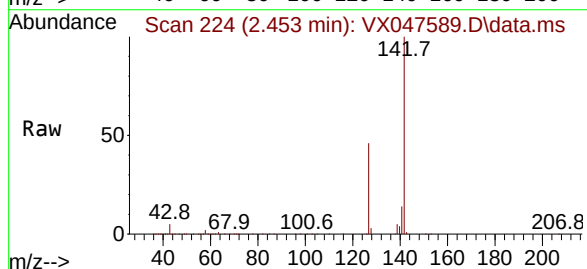
Tgt Ion:101 Resp: 19984
Ion Ratio Lower Upper
101 100
85 45.1 35.5 53.3
151 73.6 59.4 89.0

Manual Integrations
APPROVED

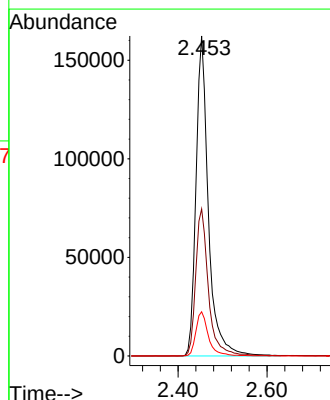
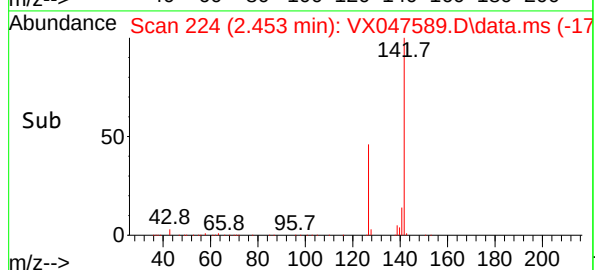
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

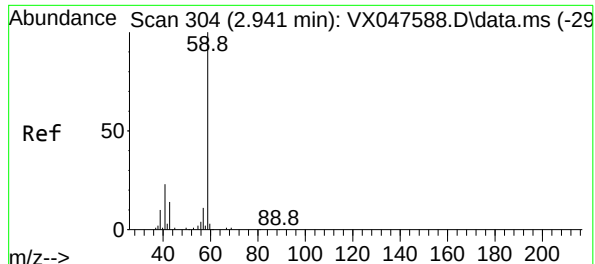


#10
Methyl Iodide
Concen: 102.531 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40



Tgt Ion:142 Resp: 313092
Ion Ratio Lower Upper
142 100
127 47.3 37.2 55.8
141 14.1 11.4 17.0





#11

Tert butyl alcohol

Concen: 506.863 ug/l

RT: 2.947 min Scan# 304

Delta R.T. 0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 152108

Ion Ratio Lower Upper

59 100

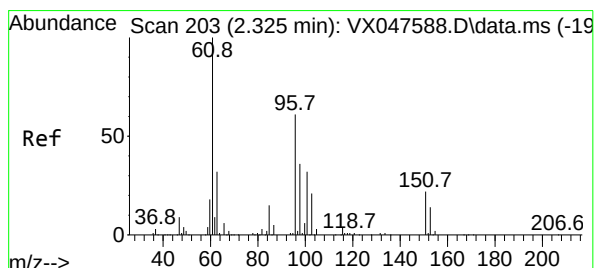
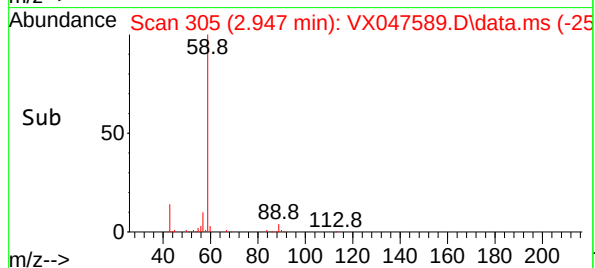
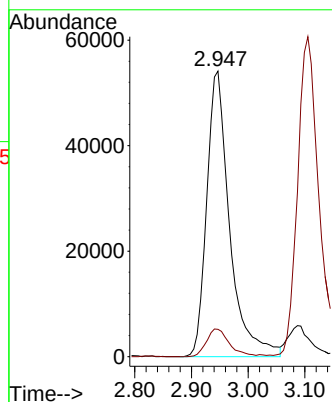
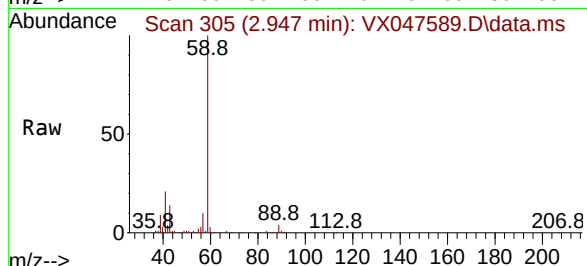
57 9.7 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 102.473 ug/l

RT: 2.319 min Scan# 202

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

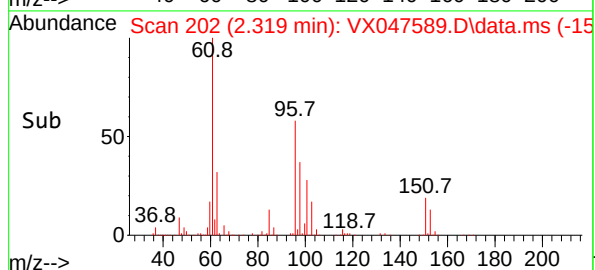
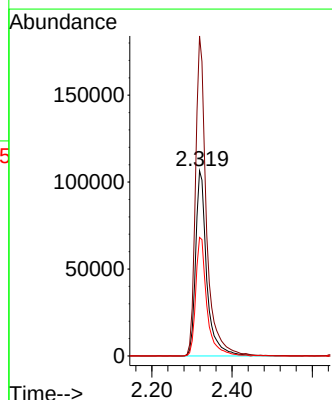
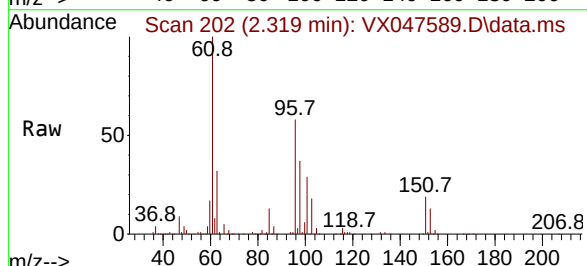
Tgt Ion: 96 Resp: 206097

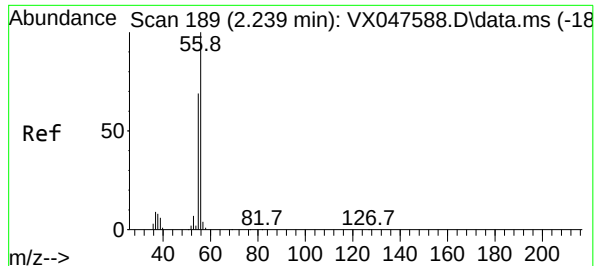
Ion Ratio Lower Upper

96 100

61 172.9 131.0 196.6

98 64.0 47.7 71.5





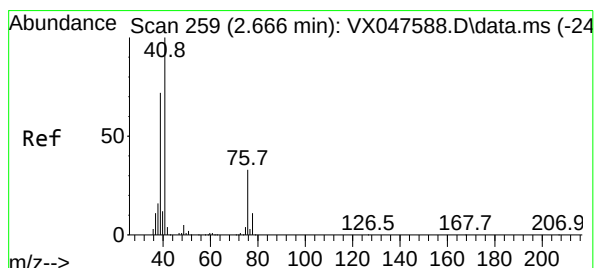
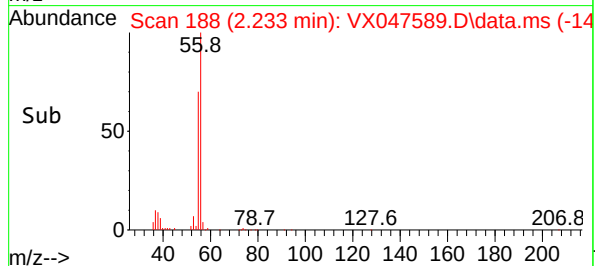
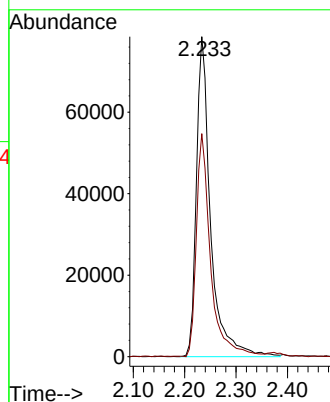
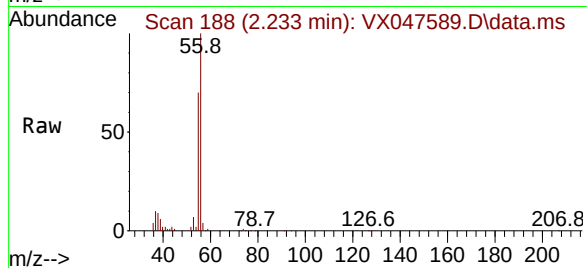
#13
Acrolein
Concen: 545.276 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 150793
Ion Ratio Lower Upper
56 100
55 69.4 57.2 85.8

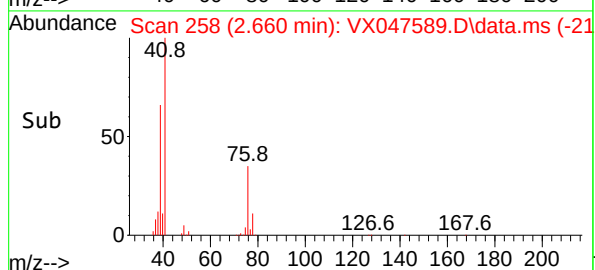
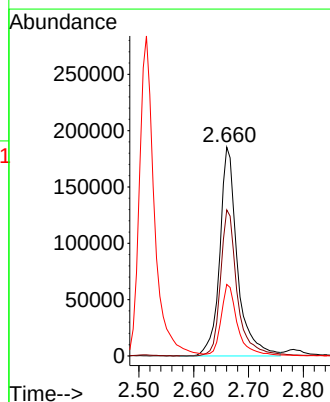
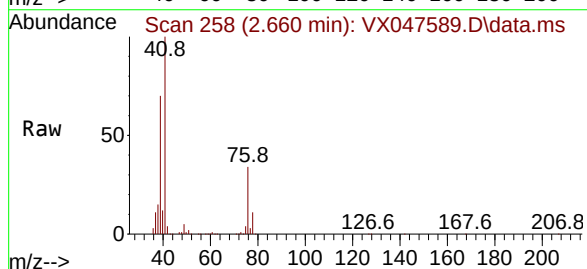
Manual Integrations
APPROVED

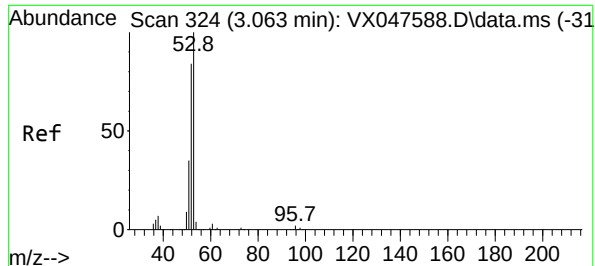
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#14
Allyl chloride
Concen: 100.028 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 415140
Ion Ratio Lower Upper
41 100
39 67.0 54.7 82.1
76 32.2 25.7 38.5





#15

Acrylonitrile

Concen: 522.897 ug/l

RT: 3.056 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 581240

Ion Ratio Lower Upper

53 100

52 82.9 66.4 99.6

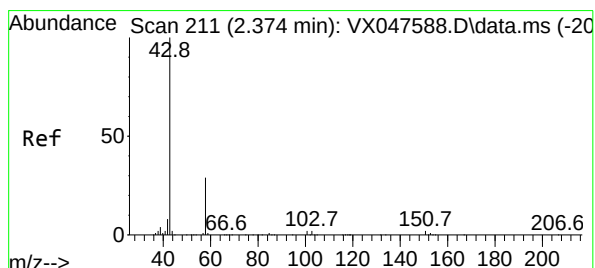
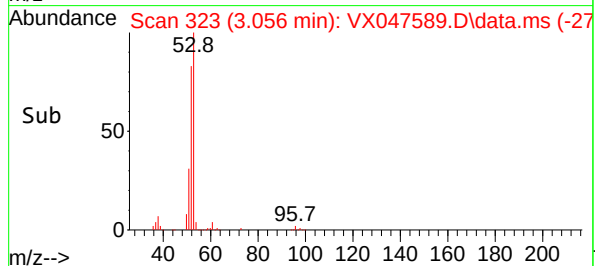
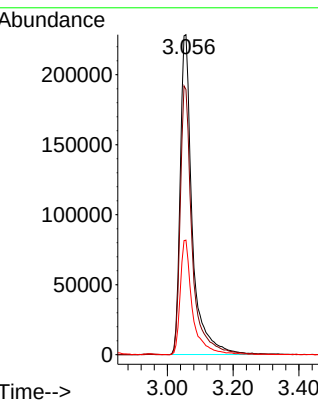
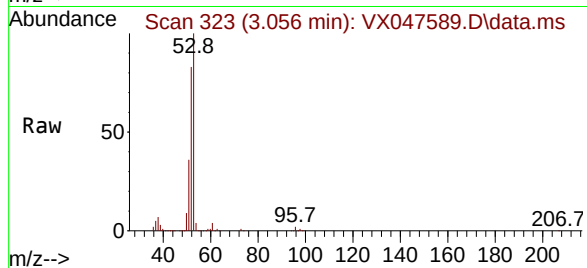
51 36.4 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 435.772 ug/l

RT: 2.374 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX047589.D

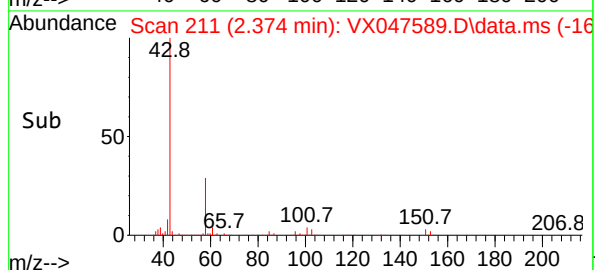
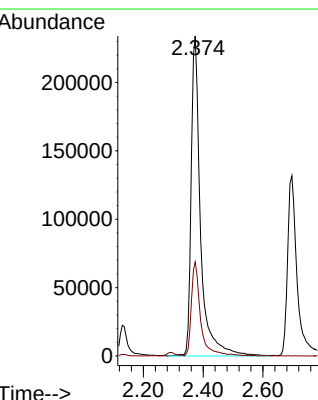
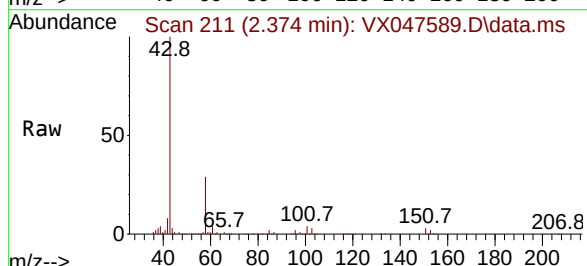
Acq: 16 Sep 2025 11:40

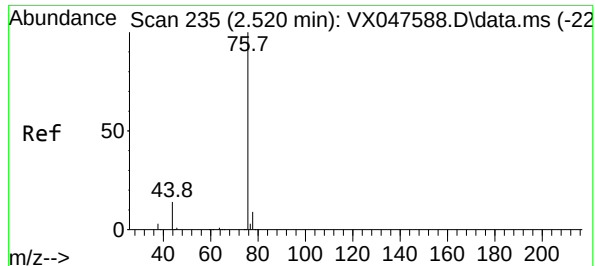
Tgt Ion: 43 Resp: 510542

Ion Ratio Lower Upper

43 100

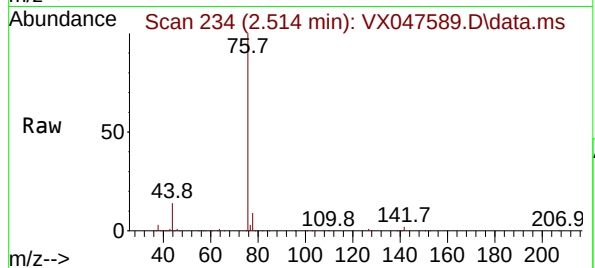
58 29.4 23.4 35.0





#17
Carbon Disulfide
Concen: 97.693 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

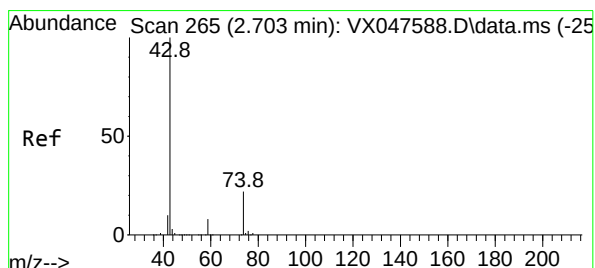
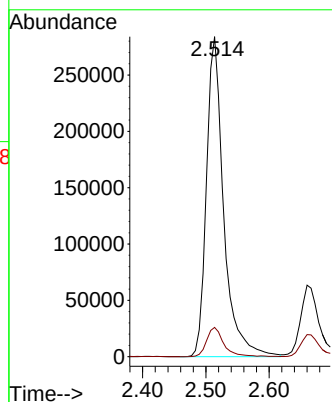
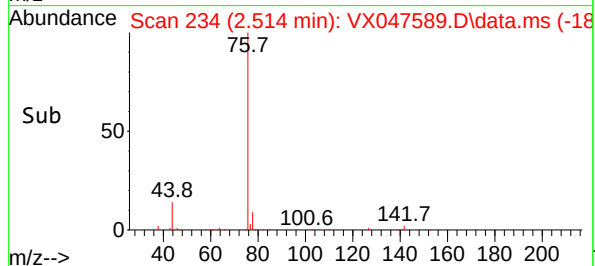
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 76 Resp: 53788
Ion Ratio Lower Upper
76 100
78 9.2 6.8 10.2

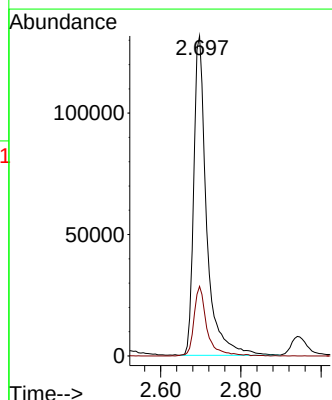
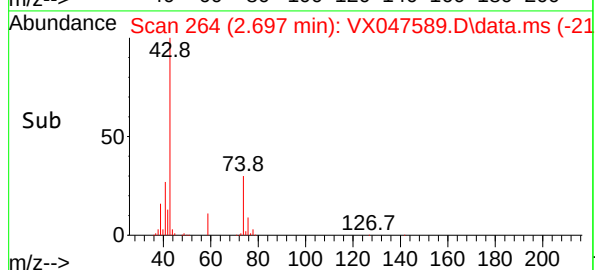
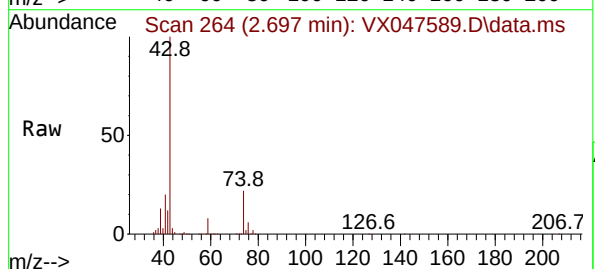
Manual Integrations
APPROVED

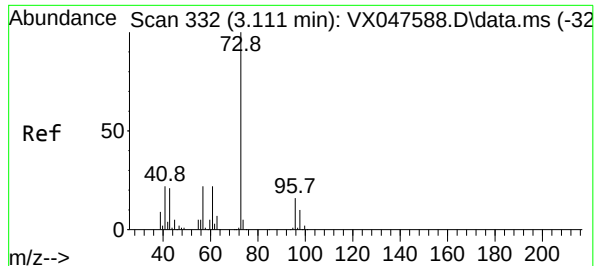
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#18
Methyl Acetate
Concen: 112.324 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 292867
Ion Ratio Lower Upper
43 100
74 21.8 17.4 26.2





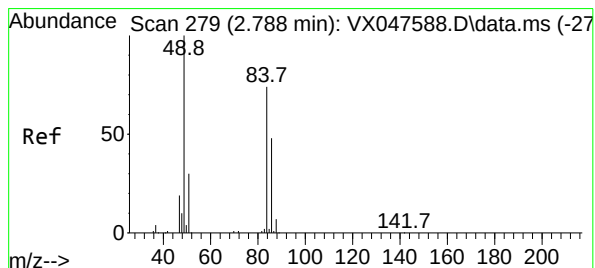
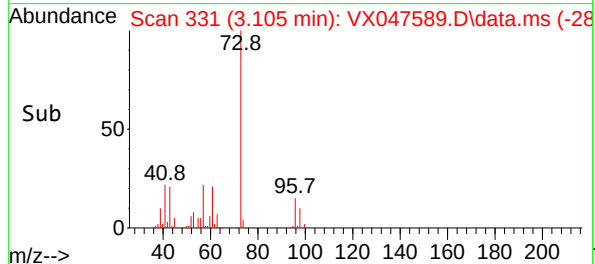
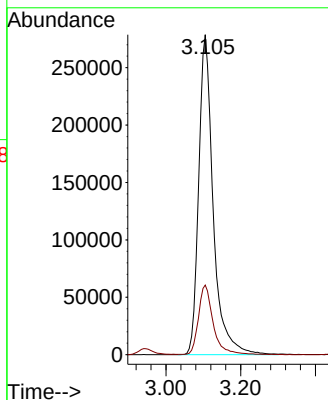
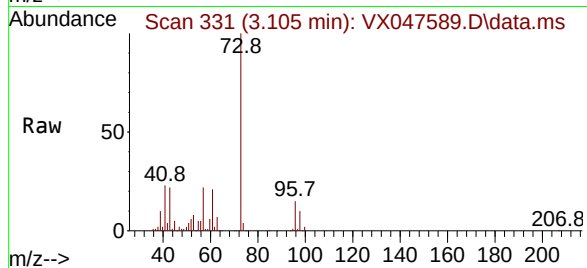
#19
Methyl tert-butyl Ether
Concen: 102.011 ug/l
RT: 3.105 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 748952
Ion Ratio Lower Upper
73 100
57 21.7 17.4 26.2

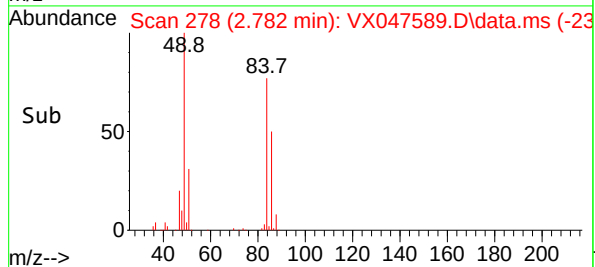
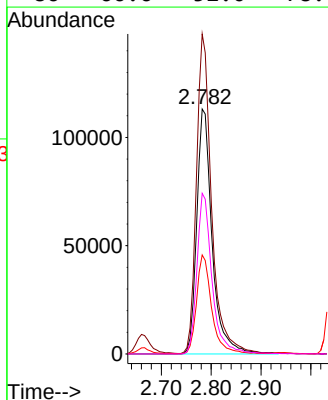
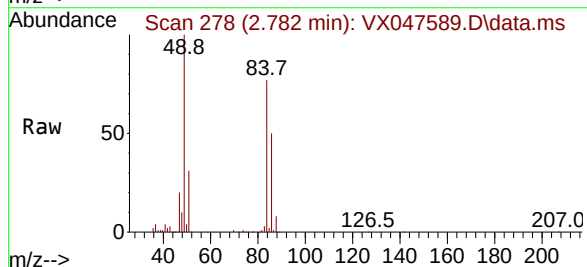
Manual Integrations
APPROVED

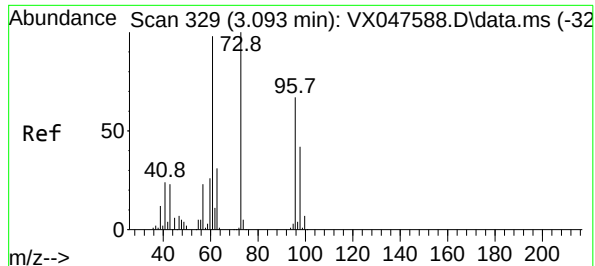
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#20
Methylene Chloride
Concen: 97.805 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

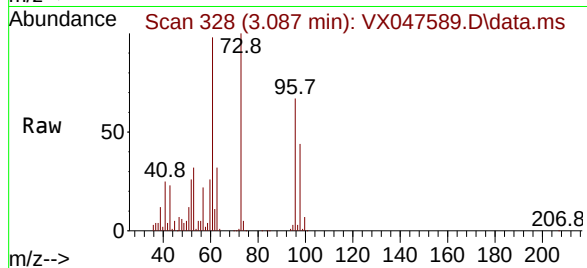
Tgt Ion: 84 Resp: 242548
Ion Ratio Lower Upper
84 100
49 130.4 108.6 162.8
51 40.3 32.6 48.8
86 66.6 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 100.566 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

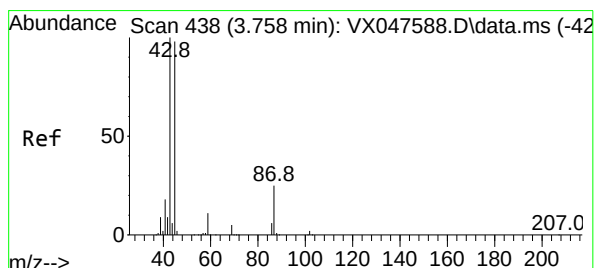
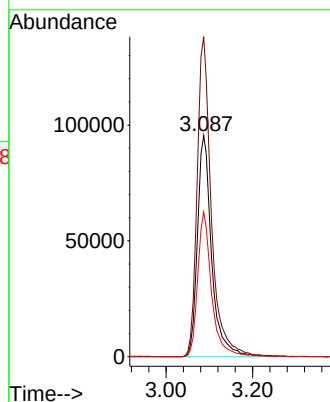
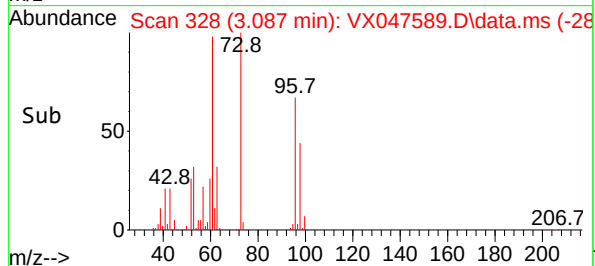
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 21775
Ion Ratio Lower Upper
96 100
61 144.7 116.2 174.2
98 65.4 49.3 73.9

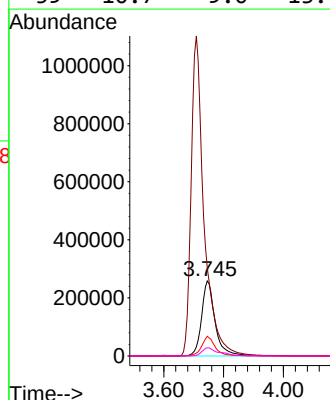
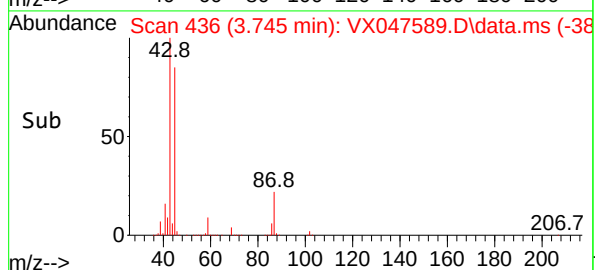
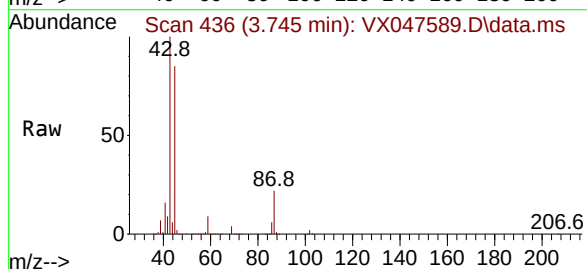
Manual Integrations
APPROVED

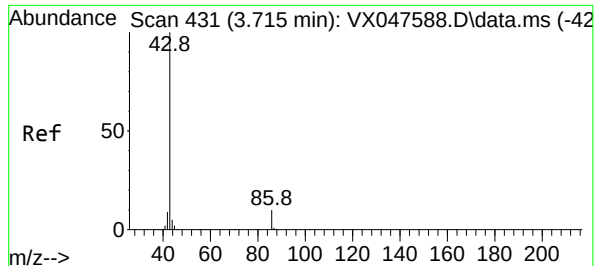
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 100.934 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

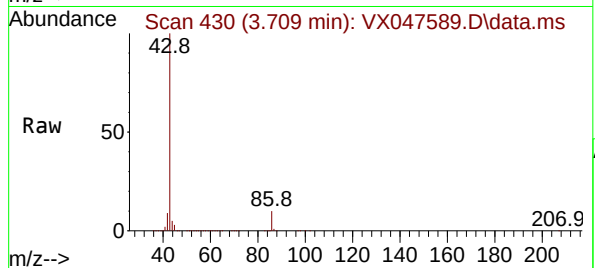
Tgt Ion: 45 Resp: 811840
Ion Ratio Lower Upper
45 100
43 117.3 81.0 121.4
87 26.1 20.3 30.5
59 10.7 9.0 13.4





#23
Vinyl Acetate
Concen: 514.916 ug/l
RT: 3.709 min Scan# 411
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

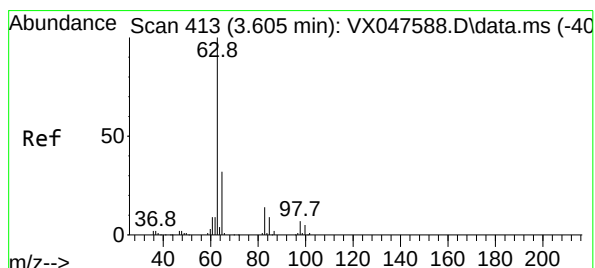
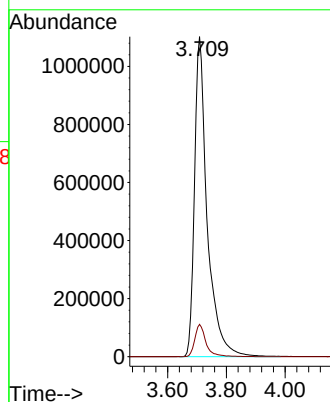
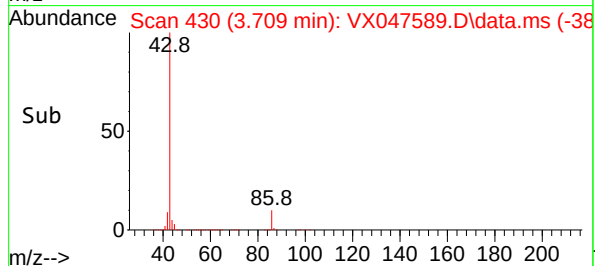
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 331470
Ion Ratio Lower Upper
43 100
86 10.1 7.8 11.8

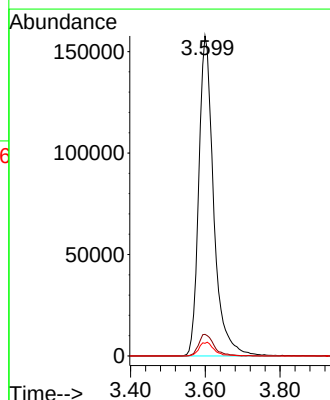
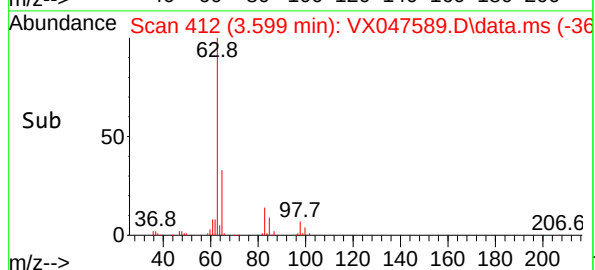
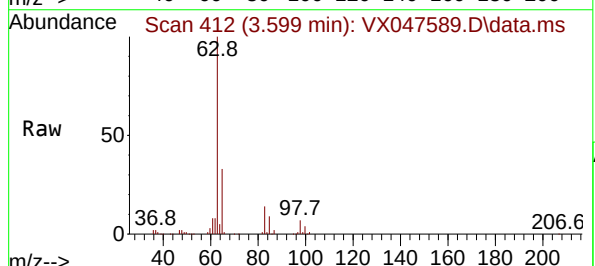
Manual Integrations
APPROVED

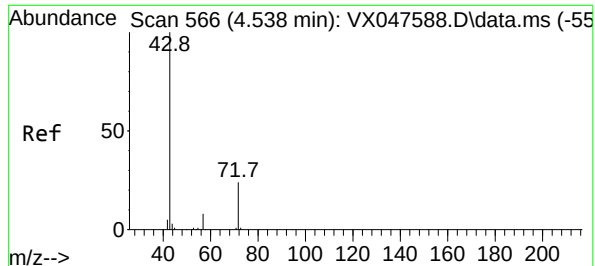
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#24
1,1-Dichloroethane
Concen: 101.944 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 435815
Ion Ratio Lower Upper
63 100
98 6.7 3.8 11.2
100 4.0 2.3 6.9





#25

2-Butanone

Concen: 479.558 ug/l

RT: 4.532 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 70082

Ion Ratio Lower Upper

43 100

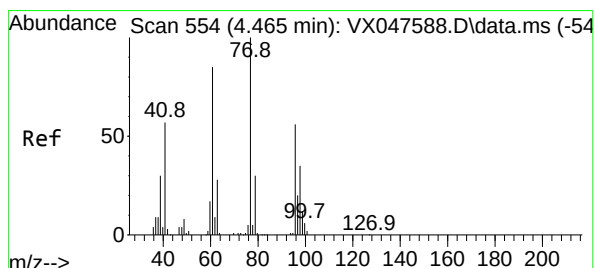
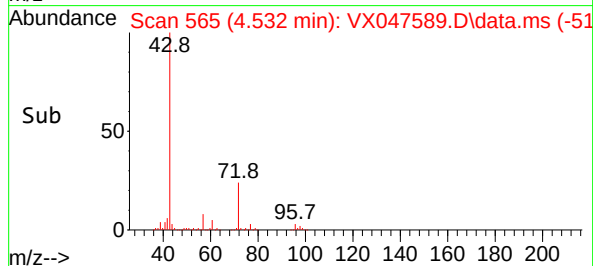
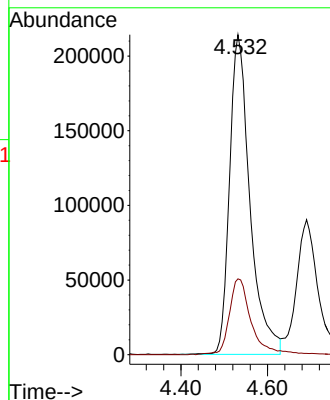
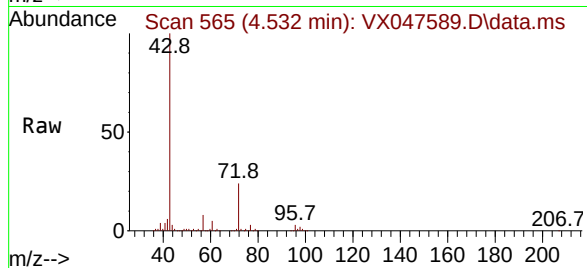
72 23.8 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 100.542 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX047589.D

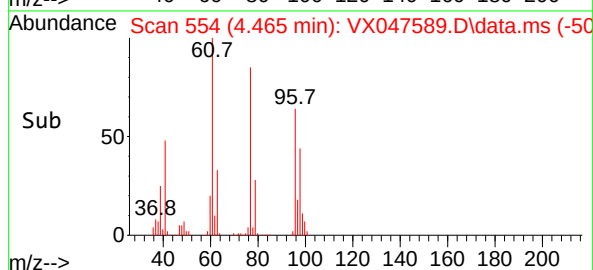
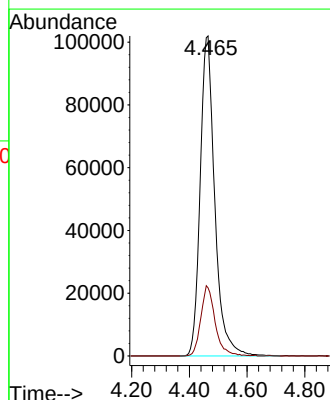
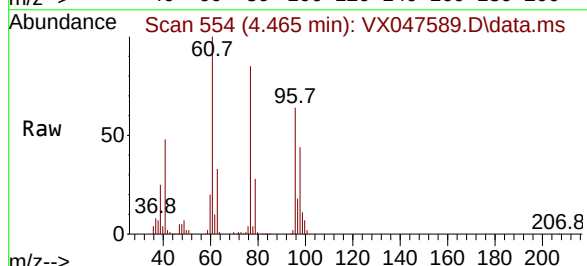
Acq: 16 Sep 2025 11:40

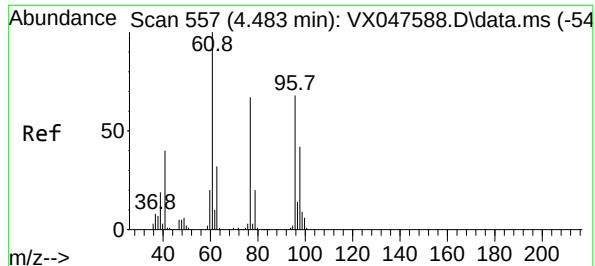
Tgt Ion: 77 Resp: 357292

Ion Ratio Lower Upper

77 100

97 21.6 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 100.516 ug/l

RT: 4.471 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 266550

Ion Ratio Lower Upper

96 100

61 151.5 0.0 303.2

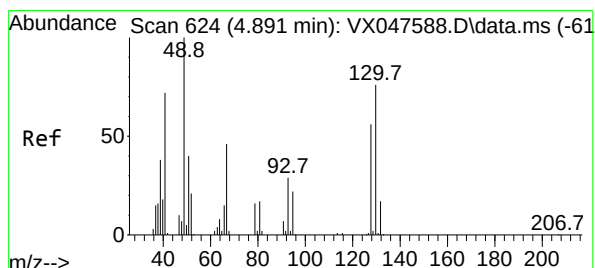
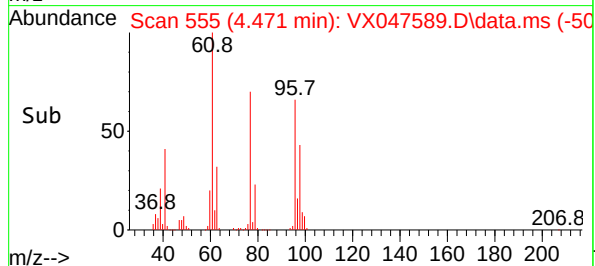
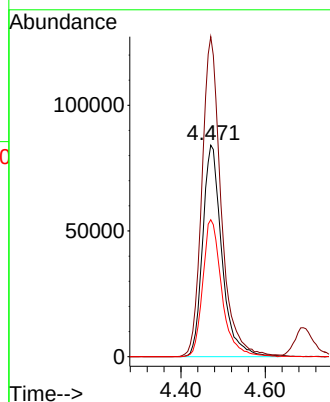
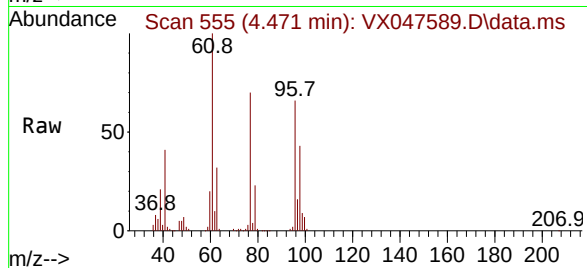
98 64.4 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 106.512 ug/l

RT: 4.873 min Scan# 621

Delta R.T. -0.018 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

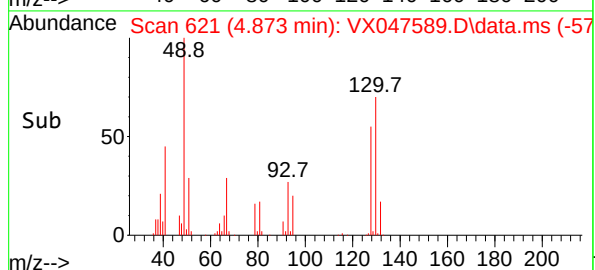
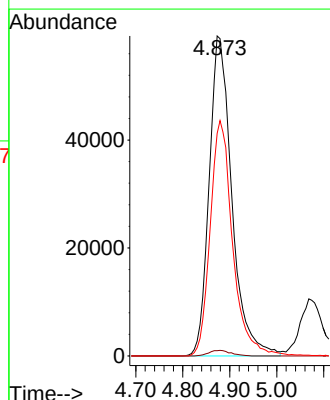
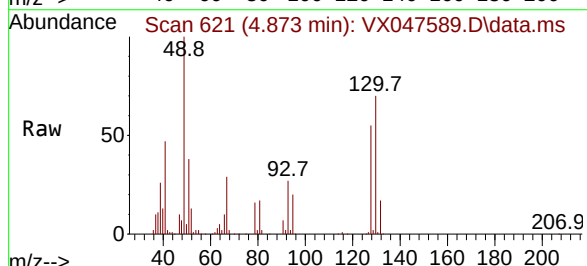
Tgt Ion: 49 Resp: 198788

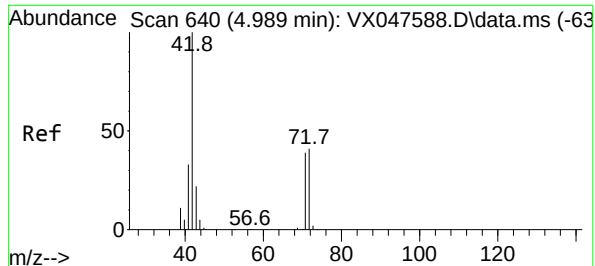
Ion Ratio Lower Upper

49 100

129 1.7 0.0 3.2

130 72.8 57.8 86.8





#29

Tetrahydrofuran

Concen: 504.502 ug/l

RT: 4.977 min Scan# 61

Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 443530

Ion Ratio Lower Upper

42 100

72 42.4 34.2 51.2

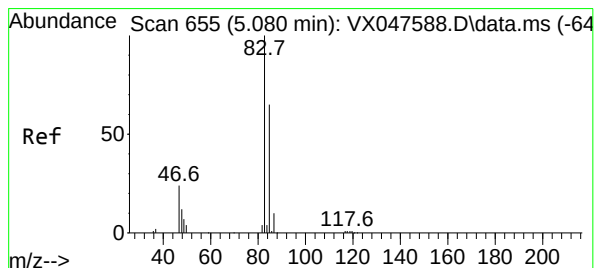
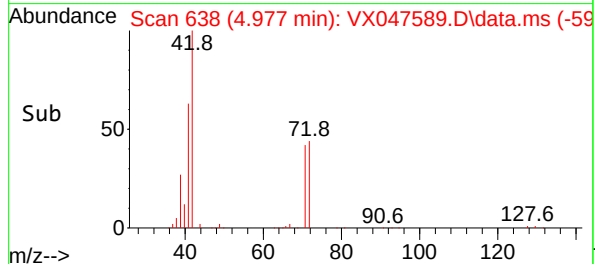
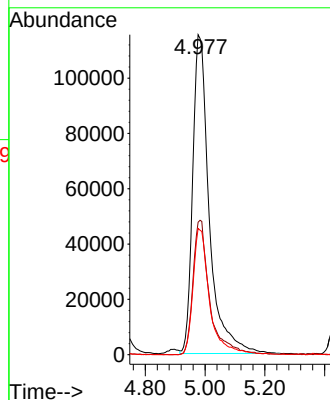
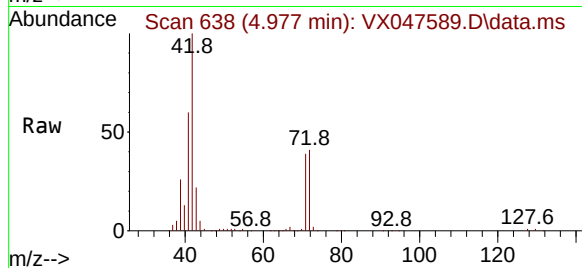
71 39.5 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 100.447 ug/l

RT: 5.074 min Scan# 654

Delta R.T. -0.006 min

Lab File: VX047589.D

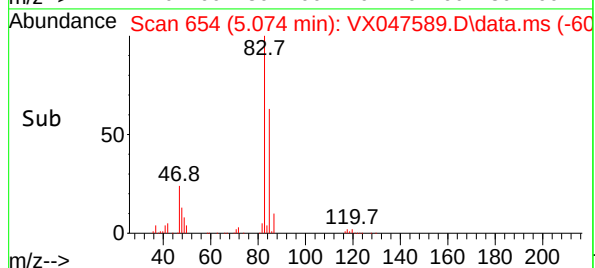
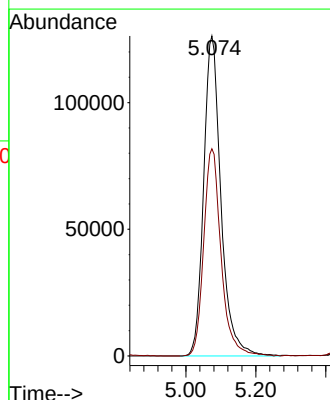
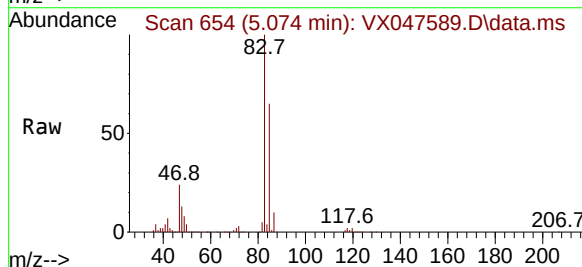
Acq: 16 Sep 2025 11:40

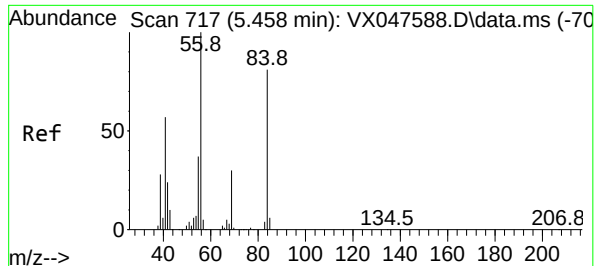
Tgt Ion: 83 Resp: 433937

Ion Ratio Lower Upper

83 100

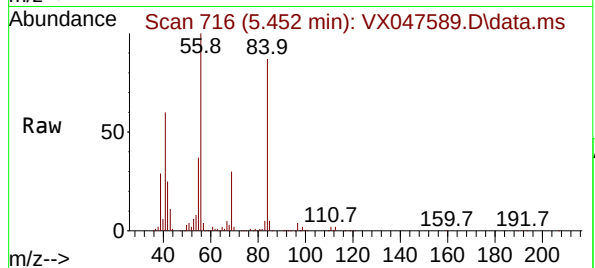
85 64.8 51.8 77.6





#31
Cyclohexane
Concen: 93.523 ug/l
RT: 5.452 min Scan# 716
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

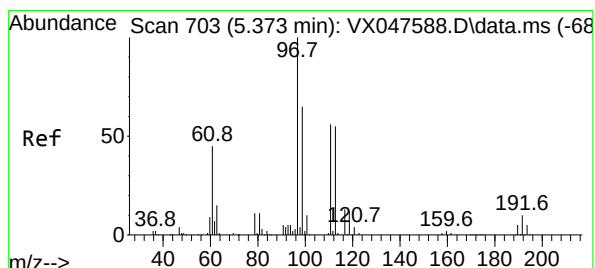
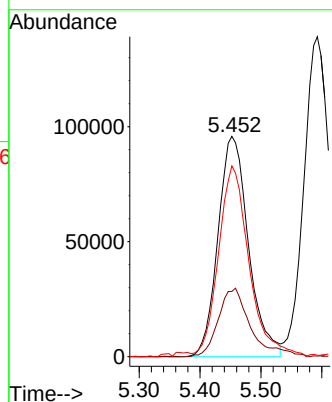
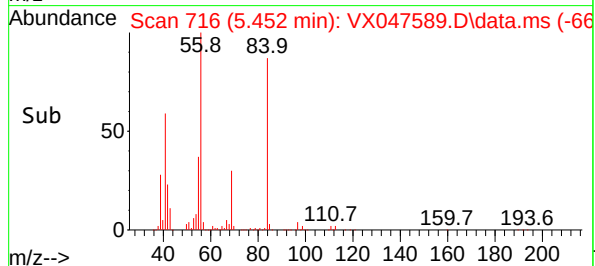
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 56 Resp: 332995
Ion Ratio Lower Upper
56 100
69 29.0 23.8 35.8
84 84.7 64.6 97.0

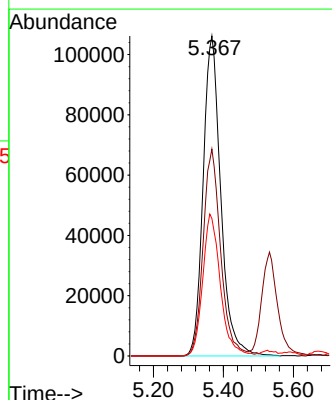
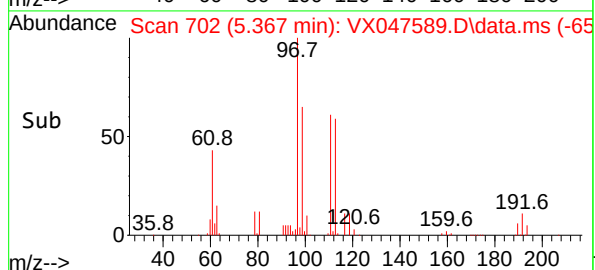
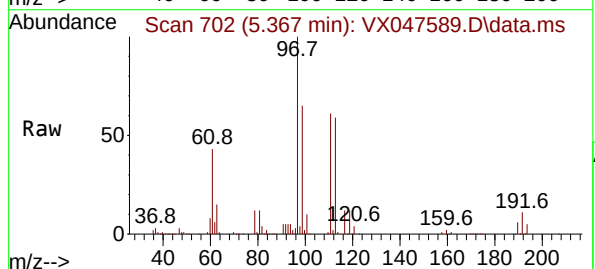
Manual Integrations
APPROVED

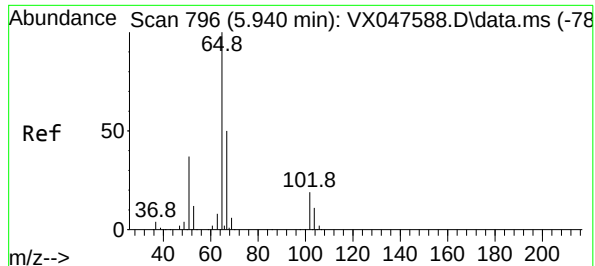
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#32
1,1,1-Trichloroethane
Concen: 101.607 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 97 Resp: 372323
Ion Ratio Lower Upper
97 100
99 63.8 50.6 76.0
61 44.4 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 102.341 ug/l

RT: 5.934 min Scan# 795

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 275758

Ion Ratio Lower Upper

65 100

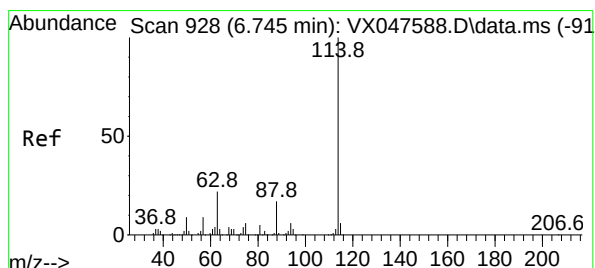
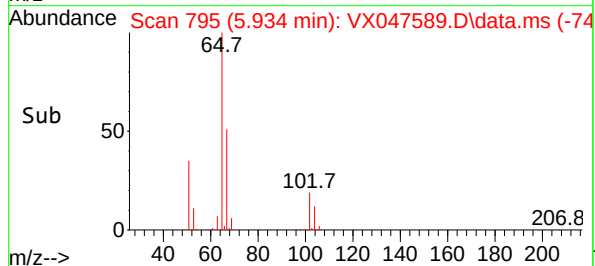
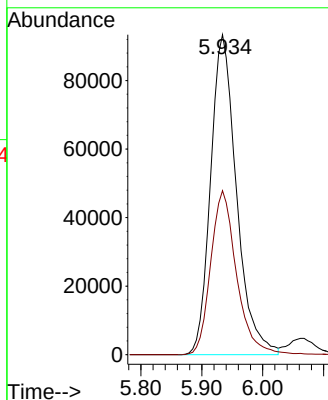
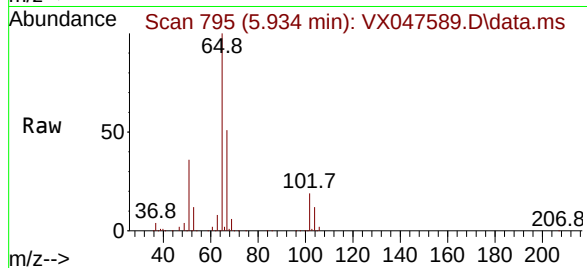
67 51.3 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 927

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

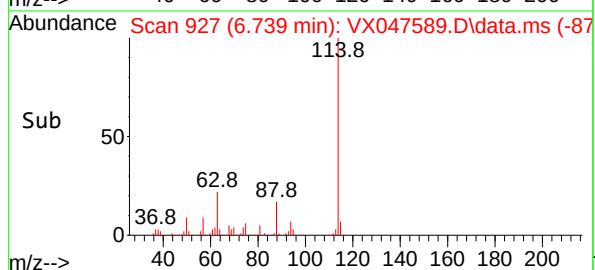
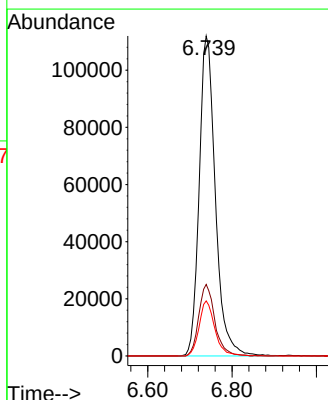
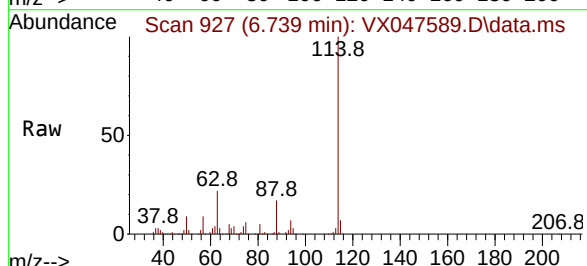
Tgt Ion:114 Resp: 298913

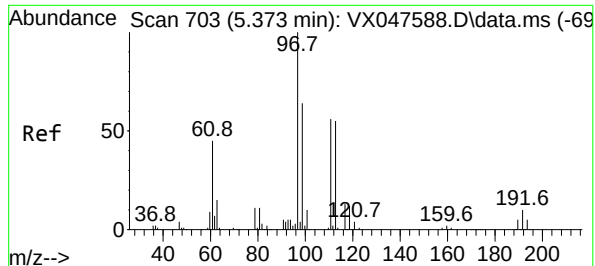
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

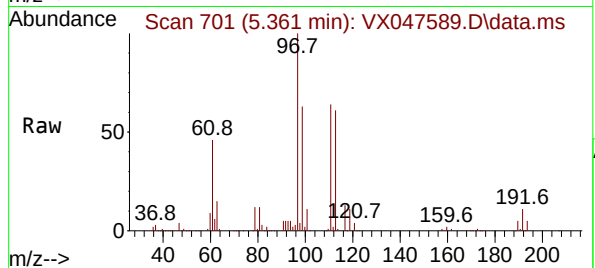
88 17.2 0.0 34.2





#35
Dibromofluoromethane
Concen: 105.962 ug/l
RT: 5.361 min Scan# 703
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

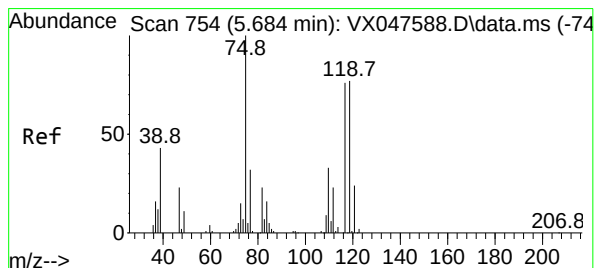
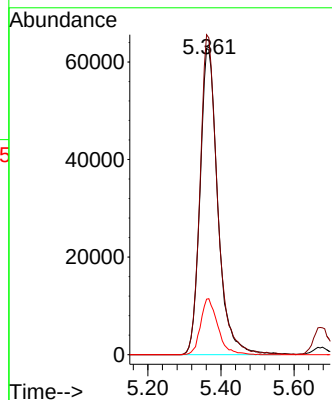
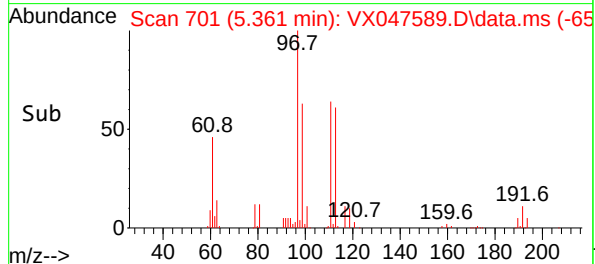
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



Tgt Ion:113 Resp: 212419
Ion Ratio Lower Upper
113 100
111 101.8 80.9 121.3
192 17.7 14.2 21.4

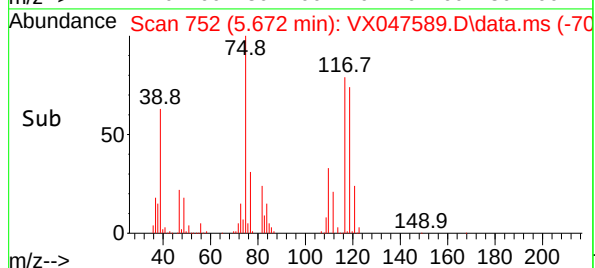
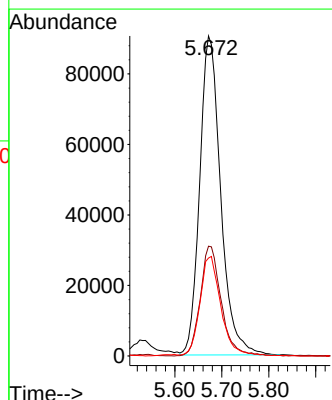
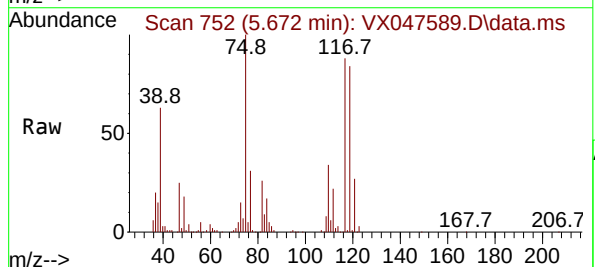
Manual Integrations
APPROVED

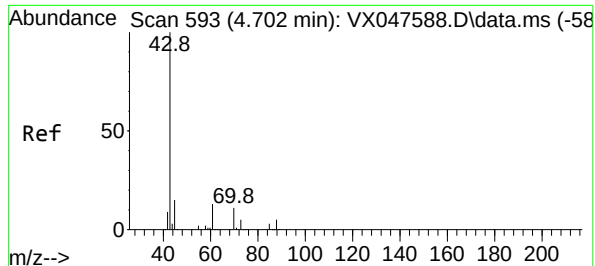
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#36
1,1-Dichloropropene
Concen: 96.149 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 281650
Ion Ratio Lower Upper
75 100
110 34.3 16.7 50.1
77 31.3 24.3 36.5





#37

Ethyl Acetate

Concen: 101.641 ug/l

RT: 4.690 min Scan# 591

Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 31879

Ion Ratio Lower Upper

43 100

61 12.0 9.8 14.8

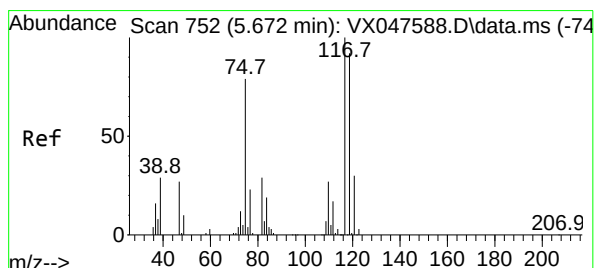
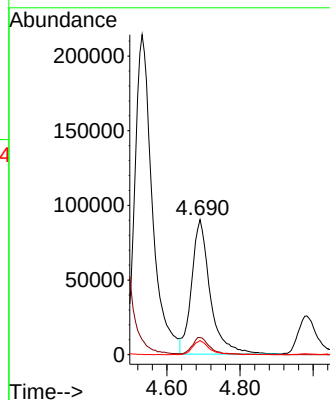
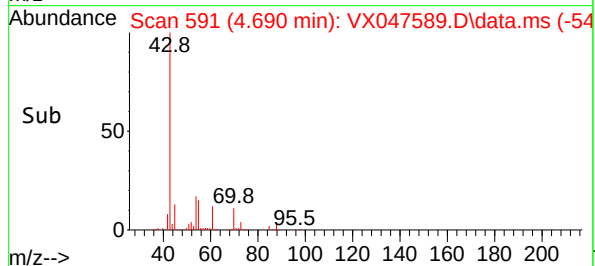
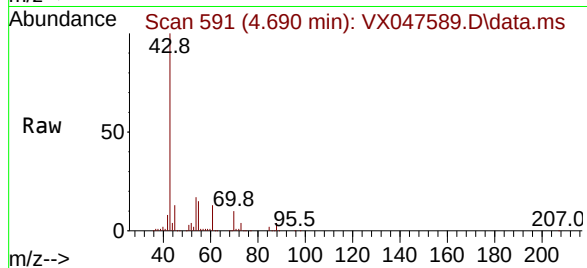
70 9.4 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 98.891 ug/l

RT: 5.660 min Scan# 750

Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

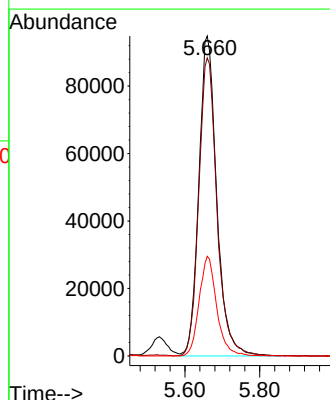
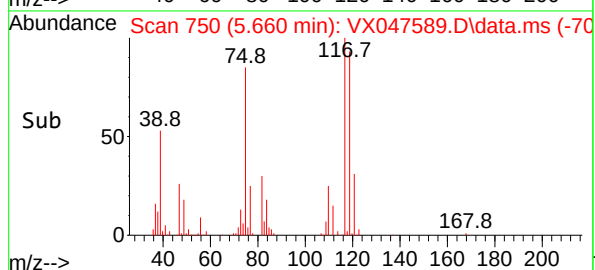
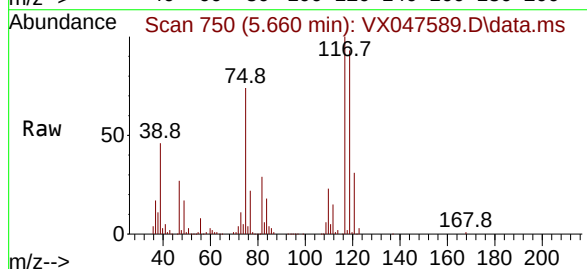
Tgt Ion:117 Resp: 314745

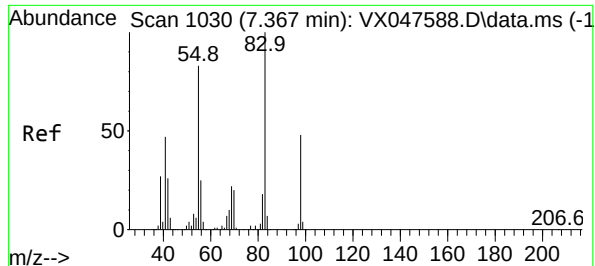
Ion Ratio Lower Upper

117 100

119 93.0 73.4 110.2

121 31.2 23.8 35.6





#39

Methylcyclohexane

Concen: 98.600 ug/l

RT: 7.360 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 32785

Ion Ratio Lower Upper

83 100

55 81.8 66.4 99.6

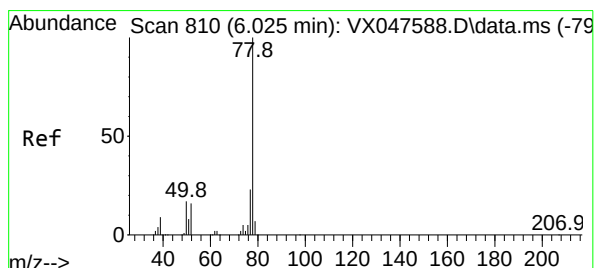
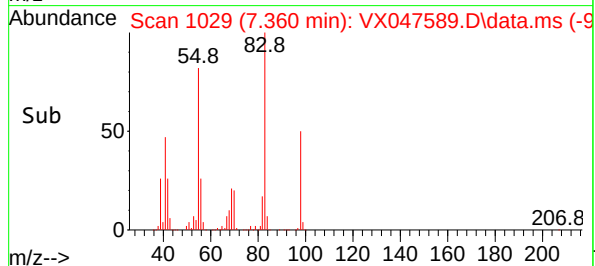
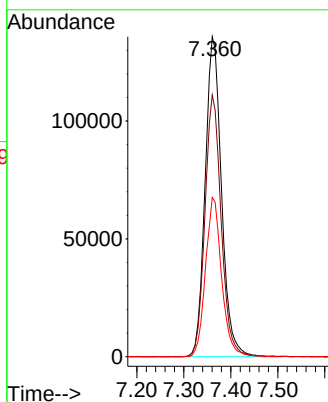
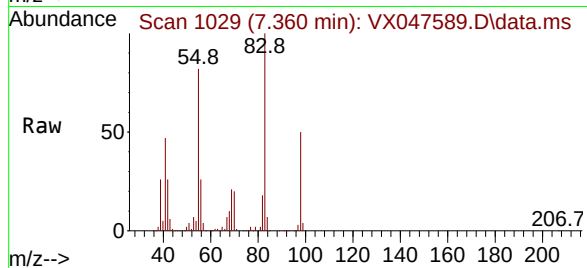
98 49.8 38.1 57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 99.009 ug/l

RT: 6.019 min Scan# 809

Delta R.T. -0.006 min

Lab File: VX047589.D

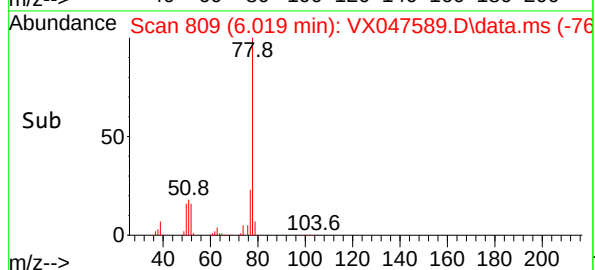
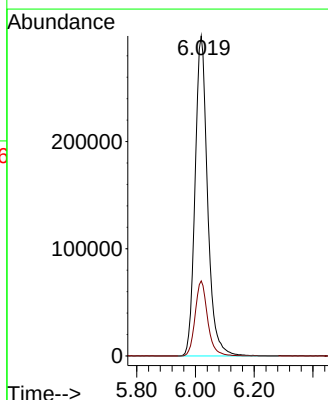
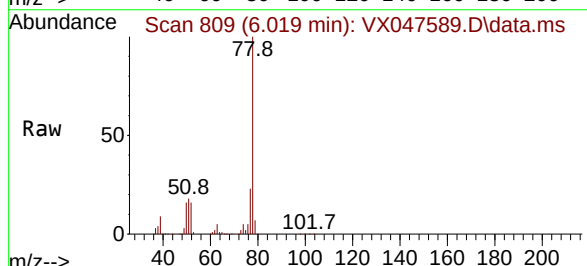
Acq: 16 Sep 2025 11:40

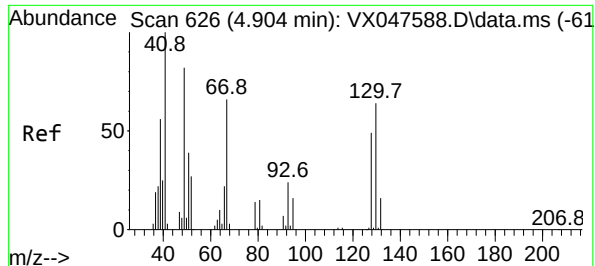
Tgt Ion: 78 Resp: 880885

Ion Ratio Lower Upper

78 100

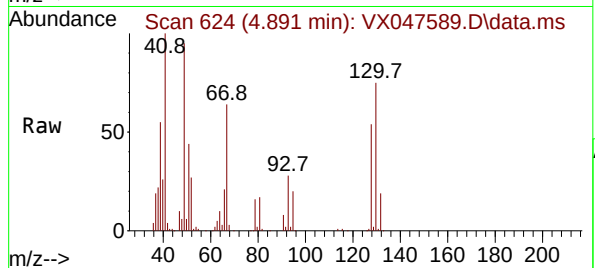
77 23.5 18.8 28.2





#41
Methacrylonitrile
Concen: 104.220 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

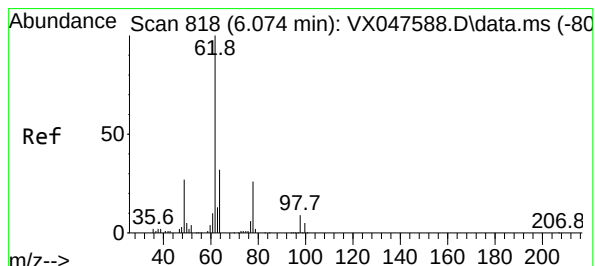
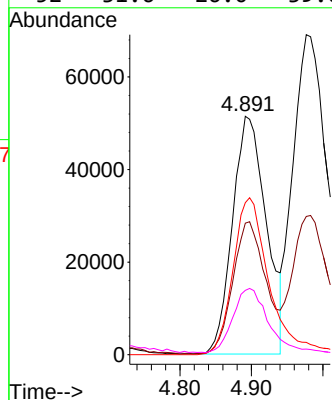
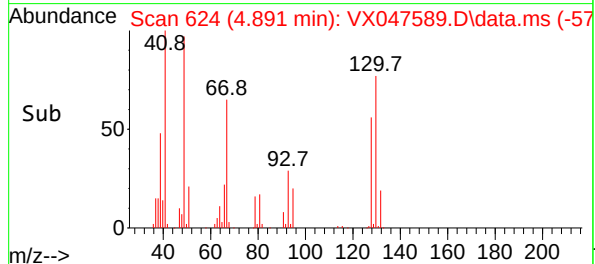
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 41 Resp: 16875
Ion Ratio Lower Upper
41 100
39 54.6 43.3 64.9
67 72.1 58.6 87.8
52 31.6 26.0 39.0

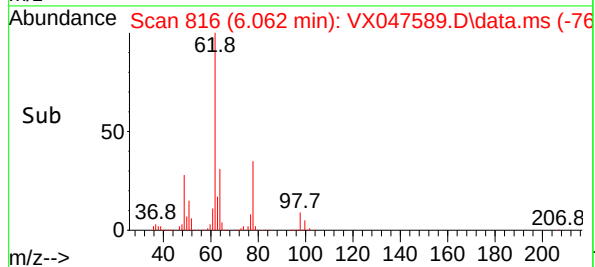
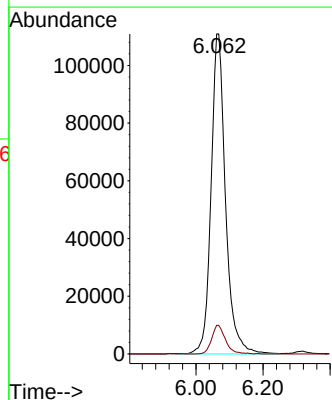
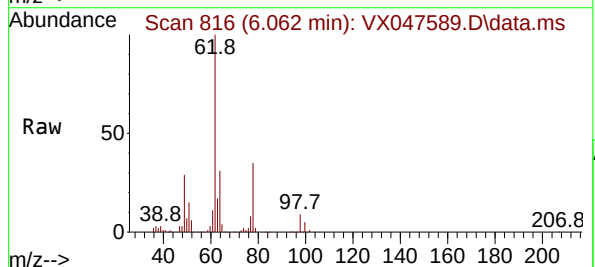
Manual Integrations
APPROVED

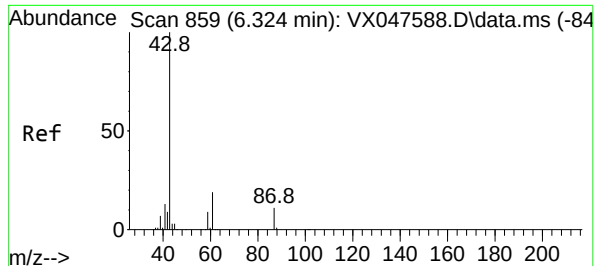
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#42
1,2-Dichloroethane
Concen: 97.916 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 331465
Ion Ratio Lower Upper
62 100
98 8.6 0.0 17.0





#43

Isopropyl Acetate

Concen: 100.482 ug/l

RT: 6.318 min Scan# 81

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 51687

Ion Ratio Lower Upper

43 100

61 19.3 15.2 22.8

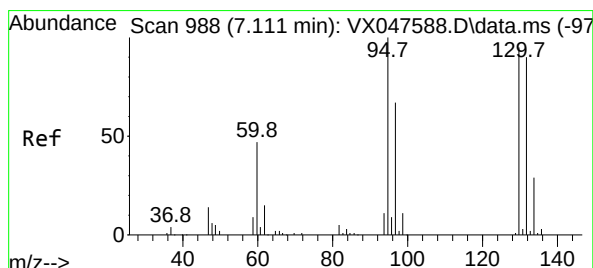
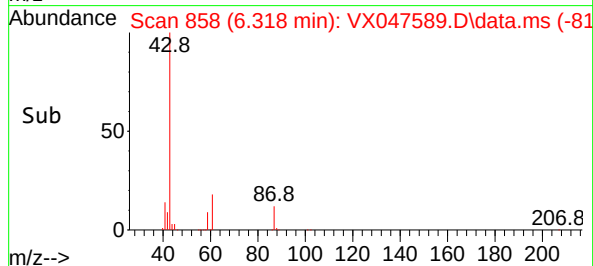
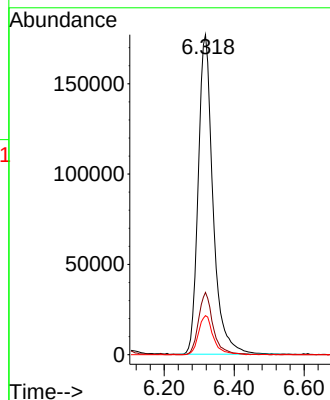
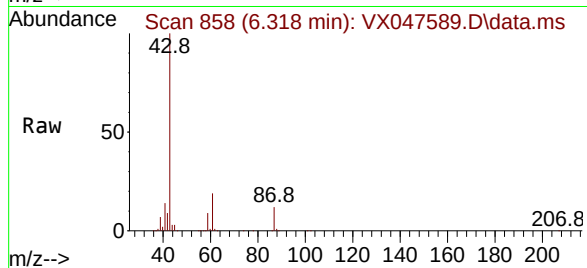
87 12.3 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 101.234 ug/l

RT: 7.104 min Scan# 987

Delta R.T. -0.006 min

Lab File: VX047589.D

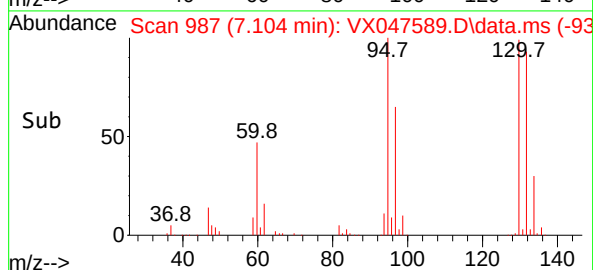
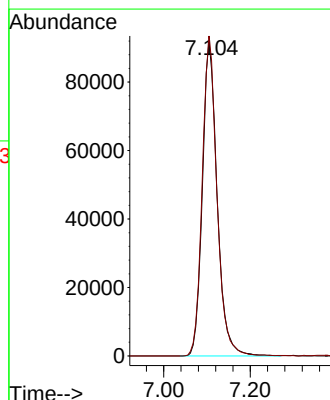
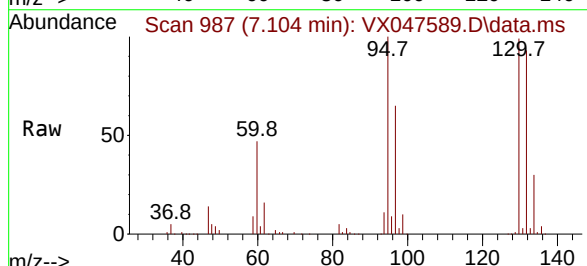
Acq: 16 Sep 2025 11:40

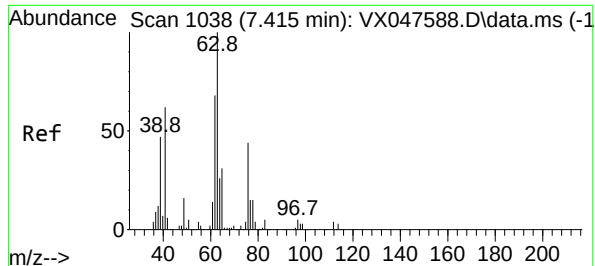
Tgt Ion:130 Resp: 217753

Ion Ratio Lower Upper

130 100

95 101.4 0.0 210.8





#45

1,2-Dichloropropane

Concen: 100.145 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 228150

Ion Ratio Lower Upper

63 100

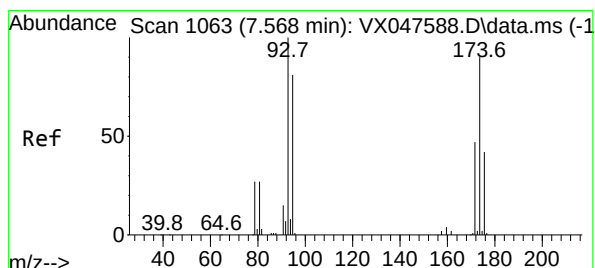
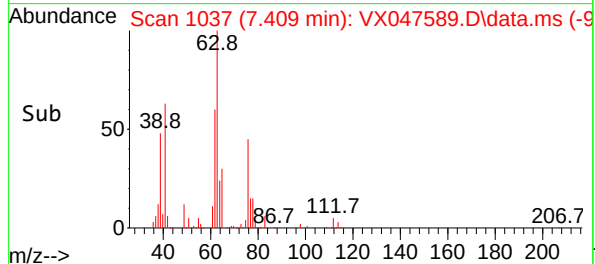
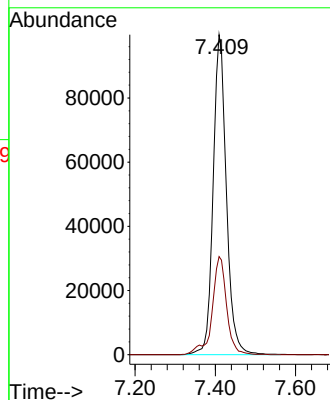
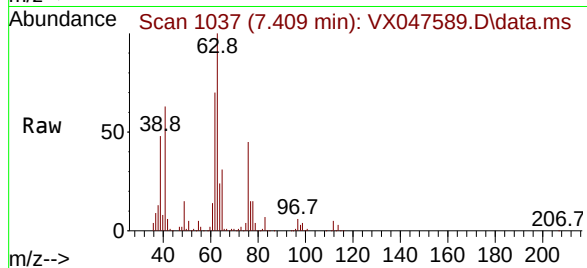
65 30.7 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 99.519 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

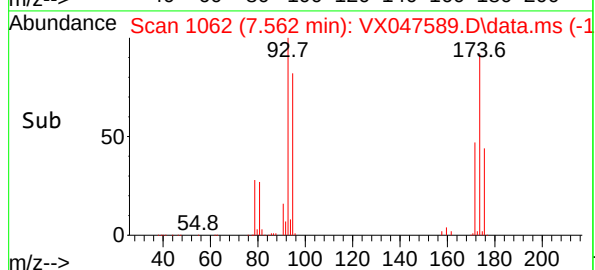
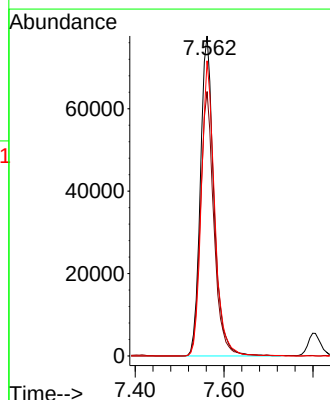
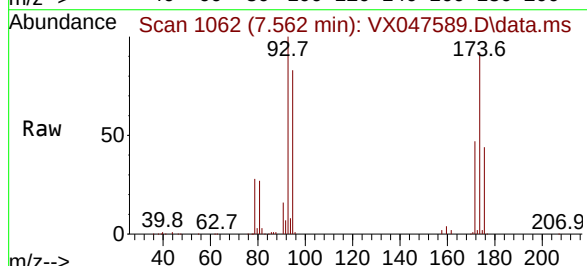
Tgt Ion: 93 Resp: 164987

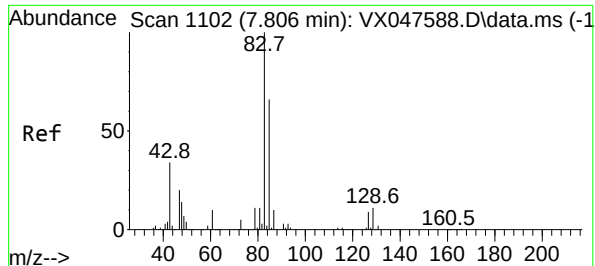
Ion Ratio Lower Upper

93 100

95 82.1 65.0 97.6

174 90.5 71.6 107.4





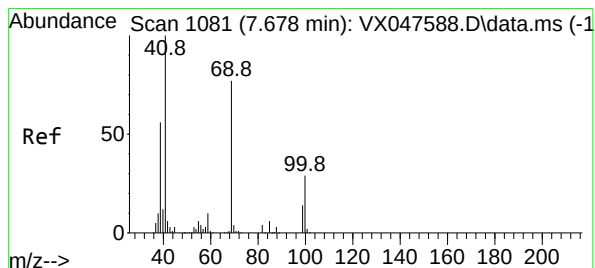
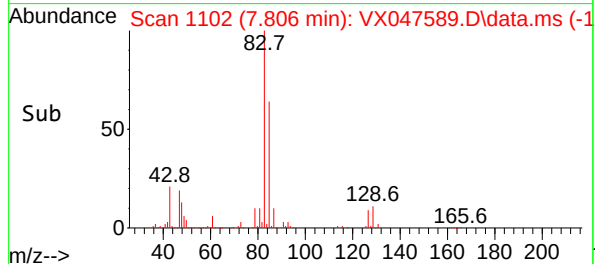
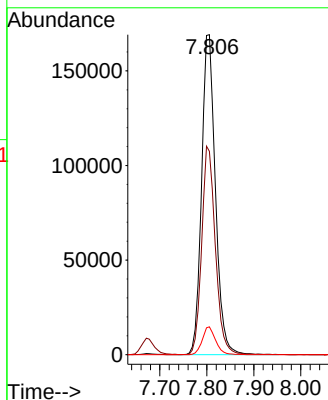
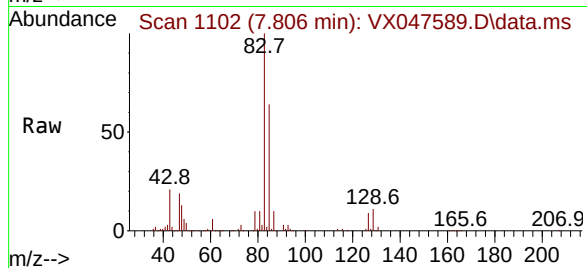
#47
Bromodichloromethane
Concen: 101.136 ug/l
RT: 7.806 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 34599
Ion Ratio Lower Upper
83 100
85 63.5 52.5 78.7
127 8.7 6.9 10.3

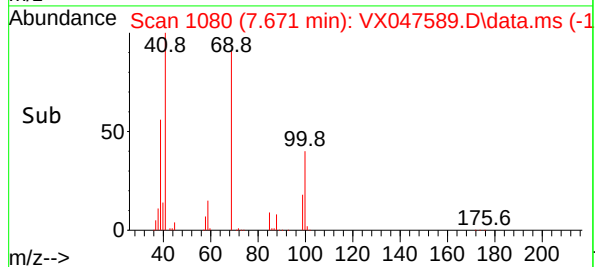
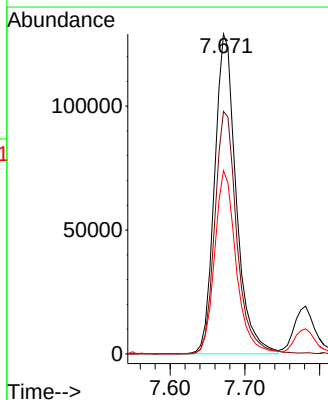
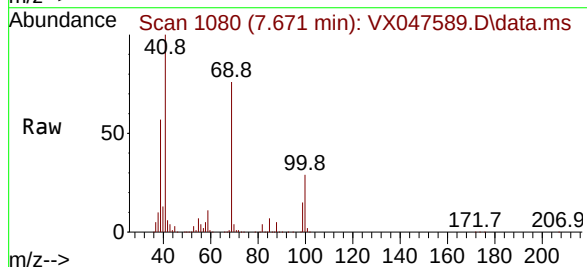
Manual Integrations
APPROVED

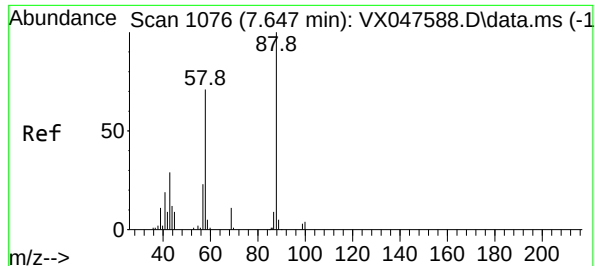
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#48
Methyl methacrylate
Concen: 101.612 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 260358
Ion Ratio Lower Upper
41 100
69 77.1 61.4 92.2
39 57.0 45.8 68.6





#49

1,4-Dioxane

Concen: 2190.315 ug/l

RT: 7.641 min Scan# 1076

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

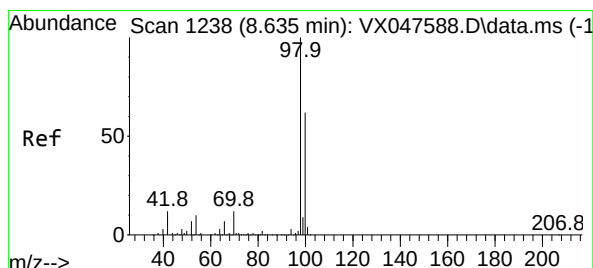
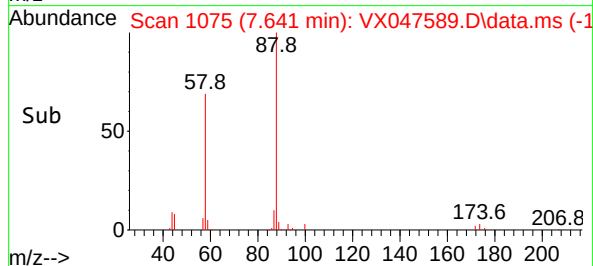
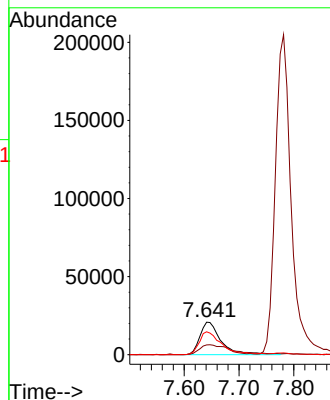
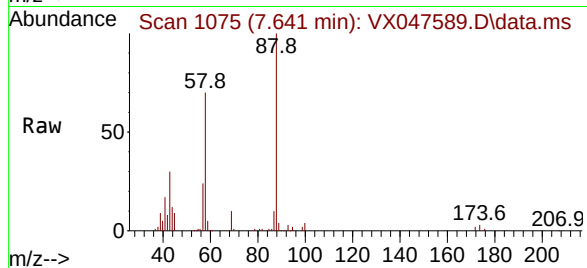
Tgt Ion:	88	Resp:	5671
Ion	Ratio	Lower	Upper
88	100		
43	39.4	30.2	45.2
58	74.0	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 104.386 ug/l

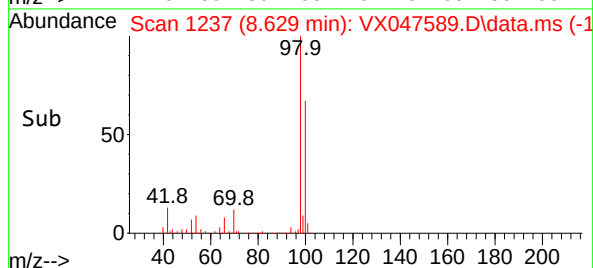
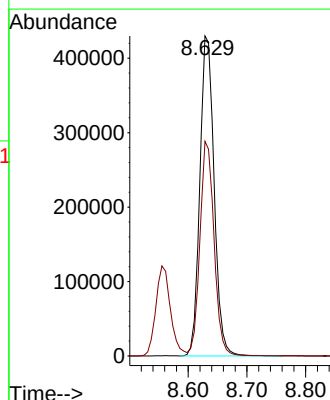
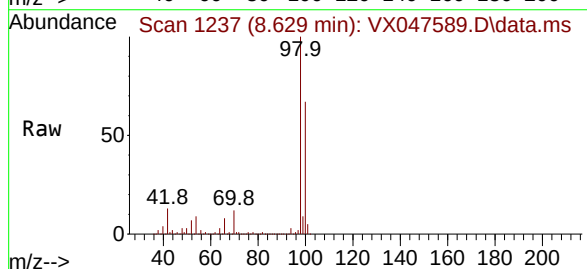
RT: 8.629 min Scan# 1237

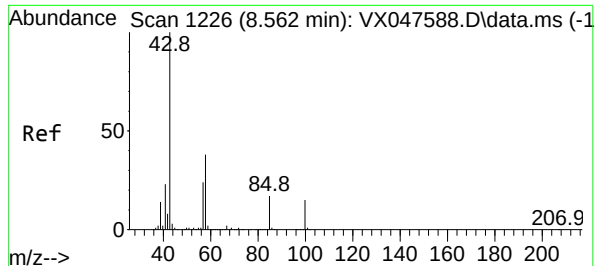
Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

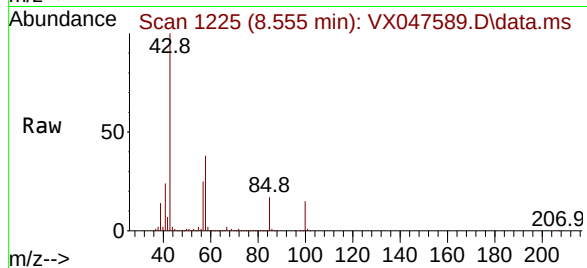
Tgt Ion:	98	Resp:	724078
Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 501.834 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

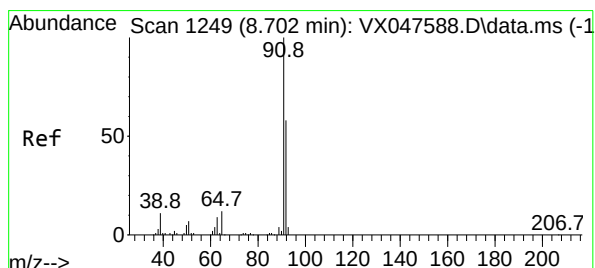
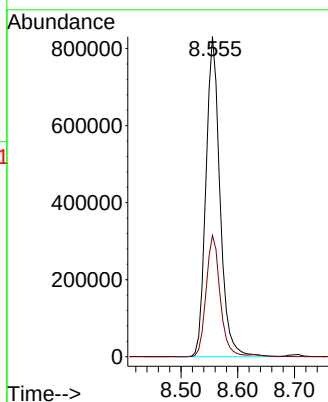
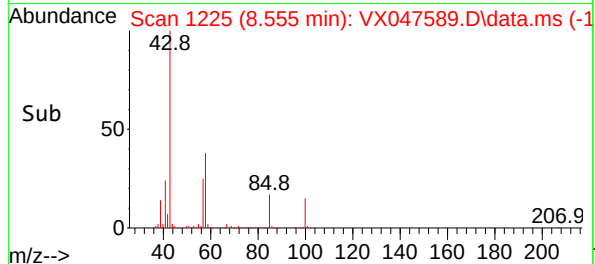
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 143125
Ion Ratio Lower Upper
43 100
58 37.7 30.3 45.5

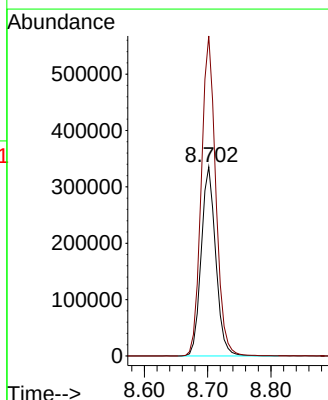
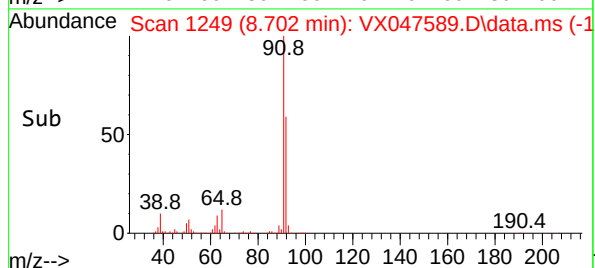
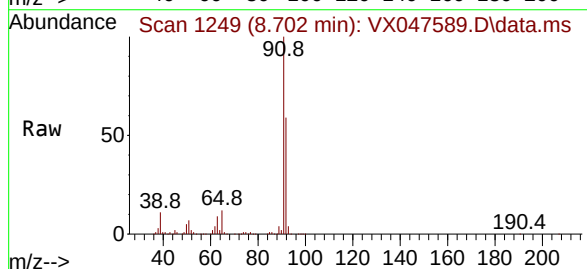
Manual Integrations
APPROVED

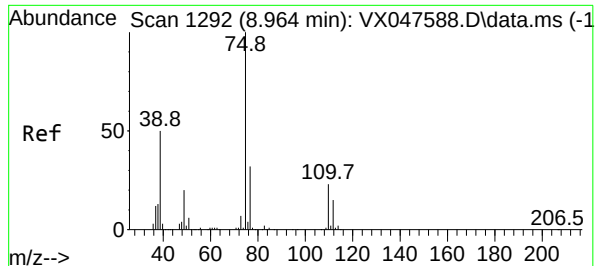
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 97.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 92 Resp: 536148
Ion Ratio Lower Upper
92 100
91 169.3 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 101.986 ug/l

RT: 8.958 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 35588

Ion Ratio Lower Upper

75 100

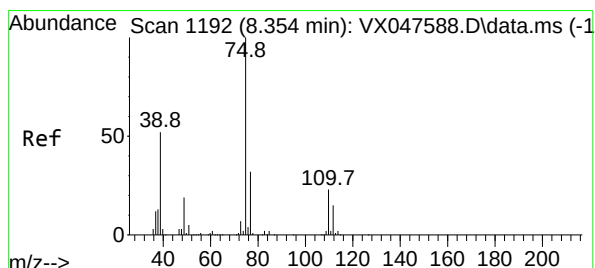
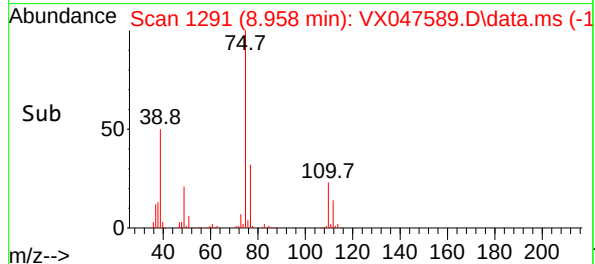
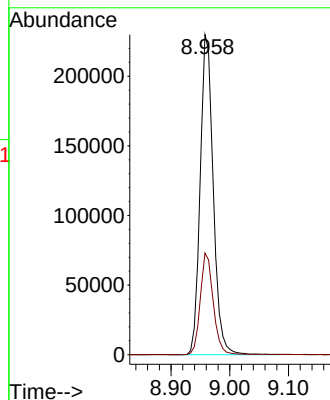
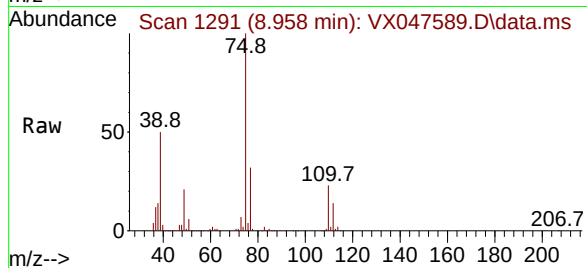
77 31.7 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 102.038 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

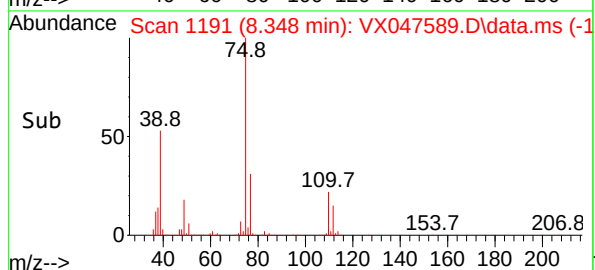
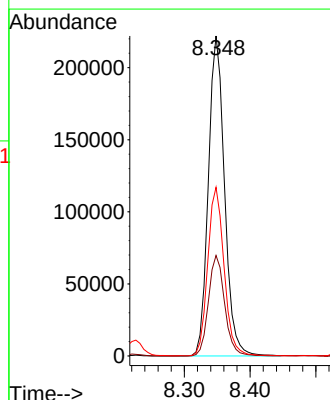
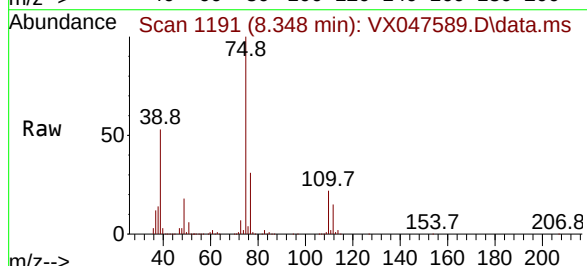
Tgt Ion: 75 Resp: 380577

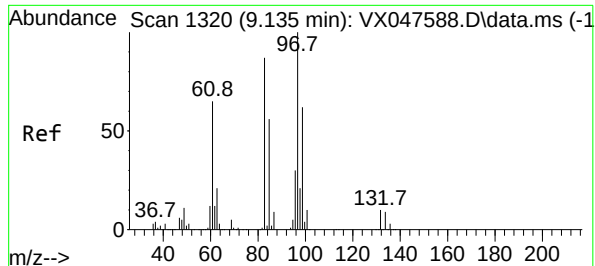
Ion Ratio Lower Upper

75 100

77 31.4 25.8 38.6

39 52.3 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 97.434 ug/l

RT: 9.135 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 205939

Ion Ratio Lower Upper

97 100

83 83.2 69.6 104.4

85 54.3 45.0 67.6

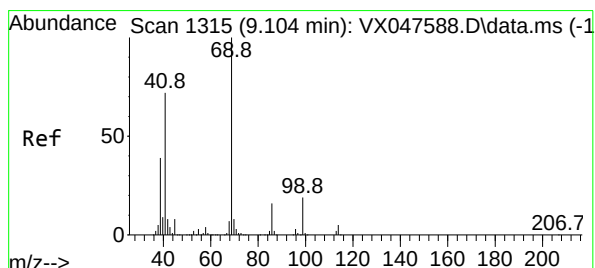
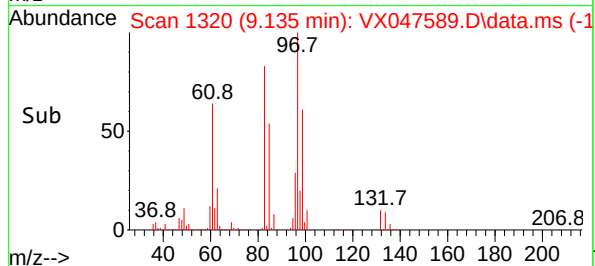
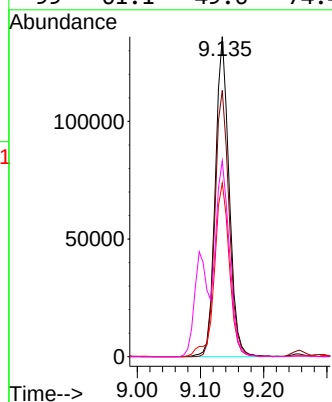
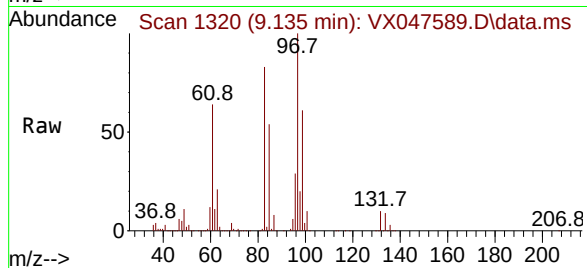
99 61.1 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 104.435 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

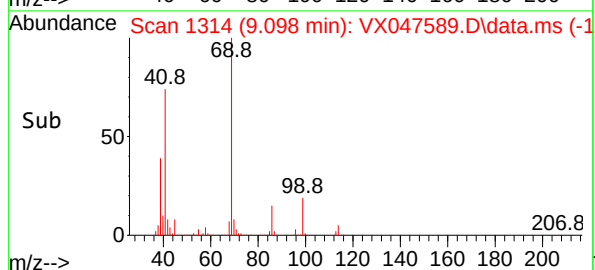
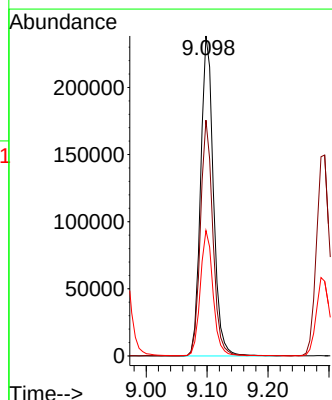
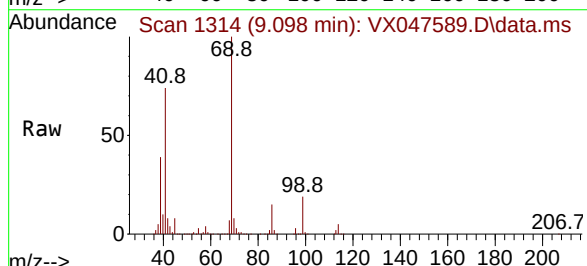
Tgt Ion: 69 Resp: 346659

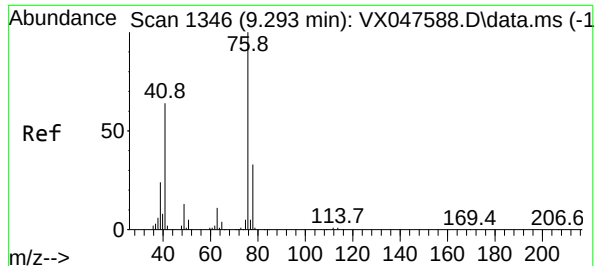
Ion Ratio Lower Upper

69 100

41 71.7 58.6 87.8

39 39.0 31.5 47.3





#57

1,3-Dichloropropane

Concen: 99.935 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 362848

Ion Ratio Lower Upper

76 100

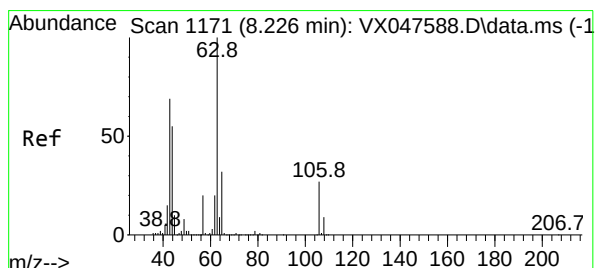
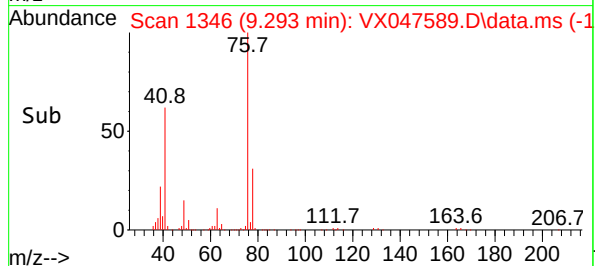
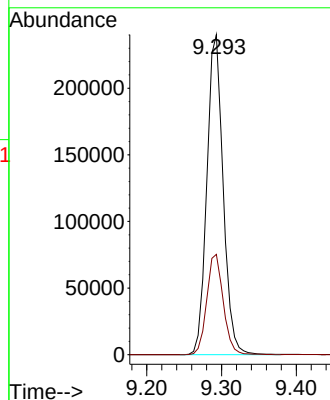
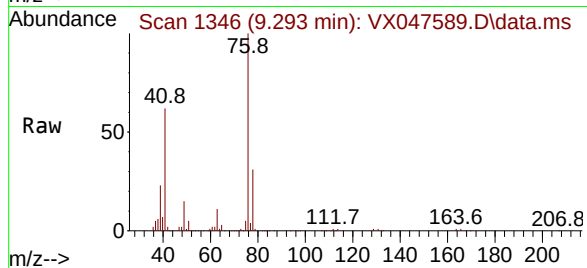
78 31.8 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 499.814 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047589.D

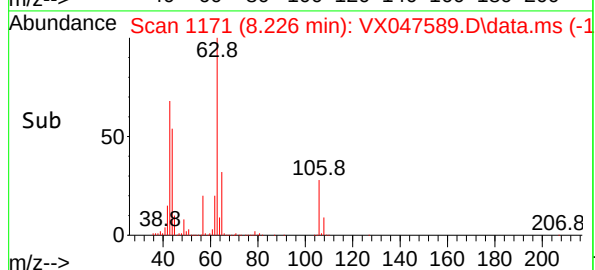
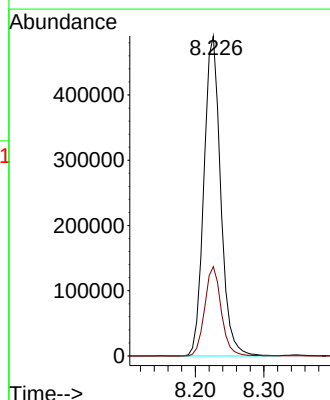
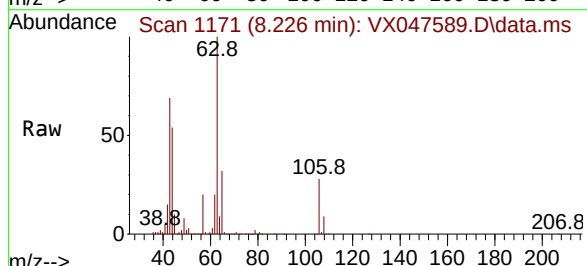
Acq: 16 Sep 2025 11:40

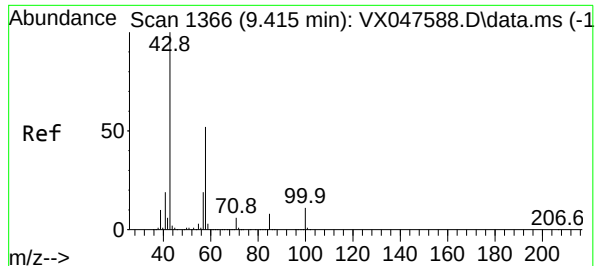
Tgt Ion: 63 Resp: 836362

Ion Ratio Lower Upper

63 100

106 27.5 21.9 32.9





#59

2-Hexanone

Concen: 486.380 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 996274

Ion Ratio Lower Upper

43 100

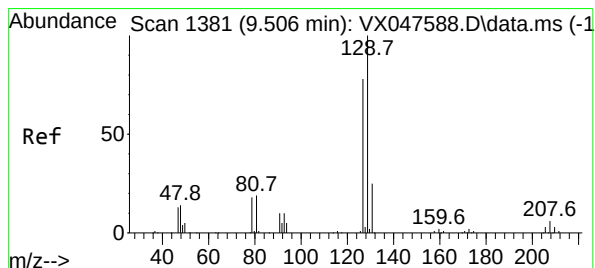
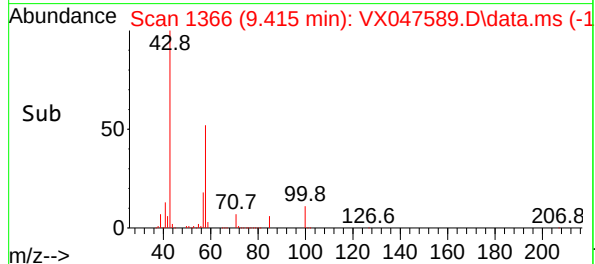
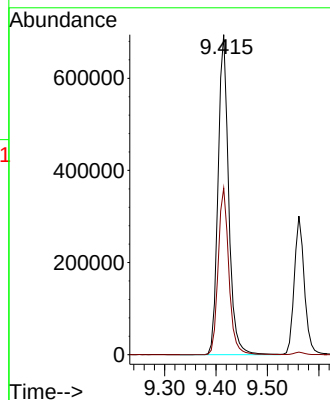
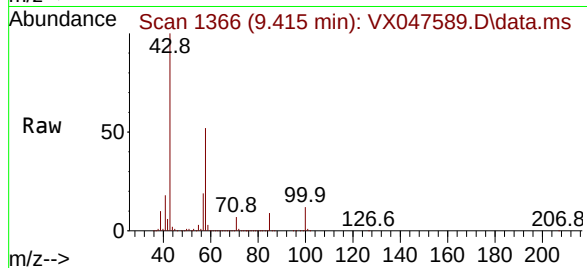
58 52.4 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 103.226 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047589.D

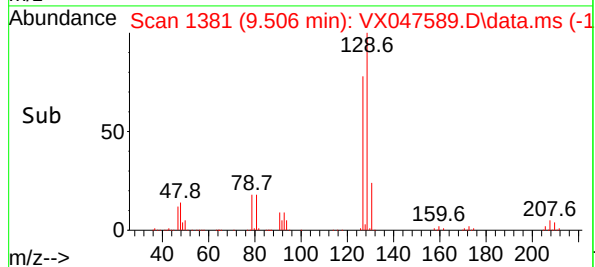
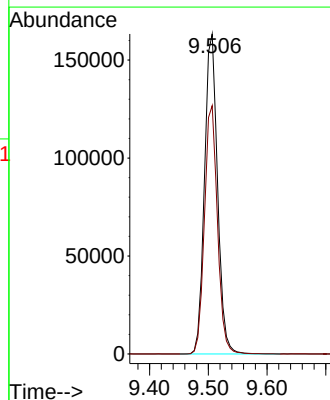
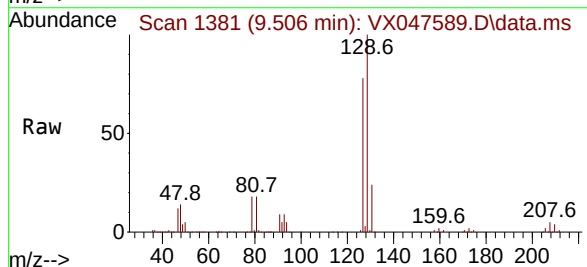
Acq: 16 Sep 2025 11:40

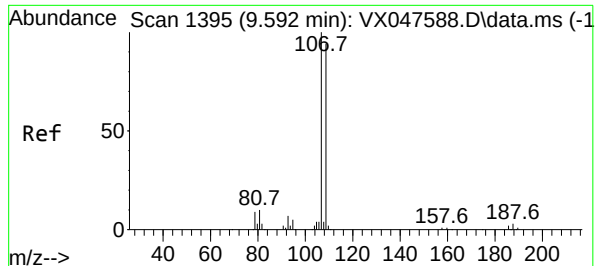
Tgt Ion:129 Resp: 251394

Ion Ratio Lower Upper

129 100

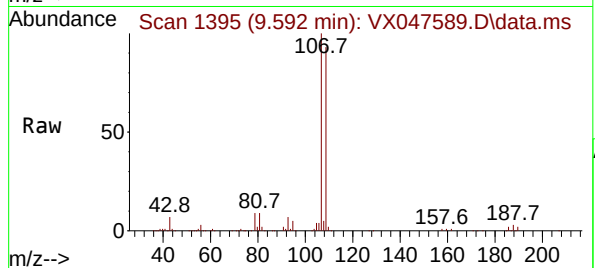
127 77.5 38.4 115.2





#61
1,2-Dibromoethane
Concen: 101.147 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

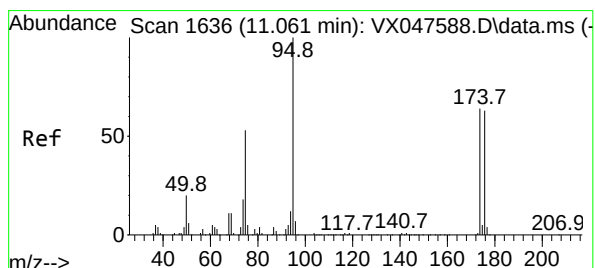
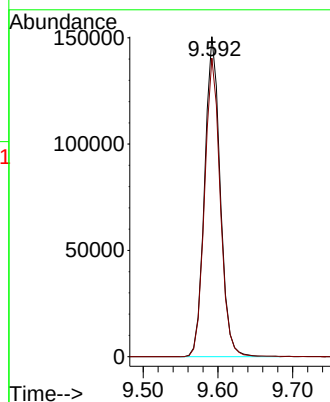
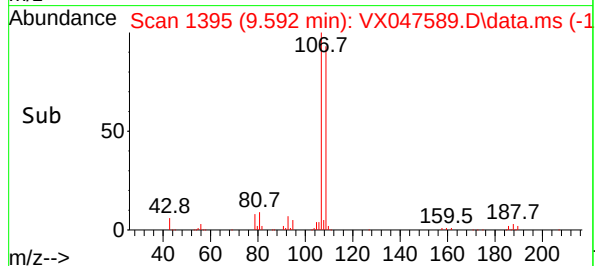
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:107 Resp: 21775
Ion Ratio Lower Upper
107 100
109 93.8 75.3 112.9

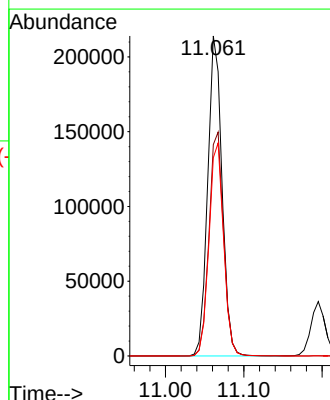
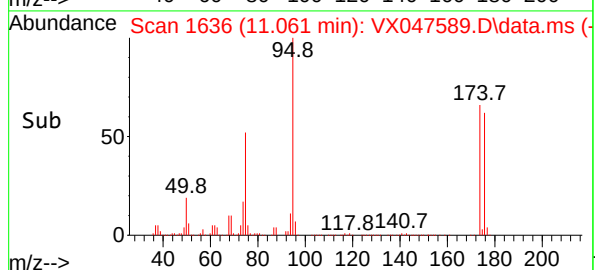
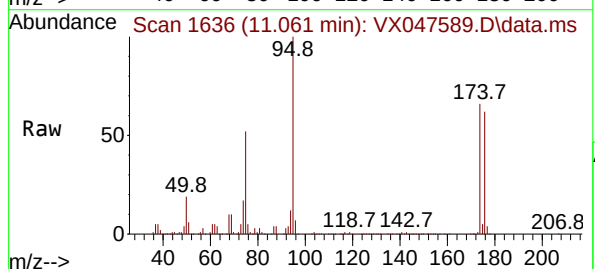
Manual Integrations
APPROVED

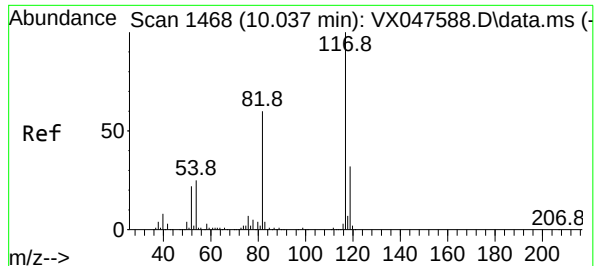
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#62
4-Bromofluorobenzene
Concen: 102.672 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

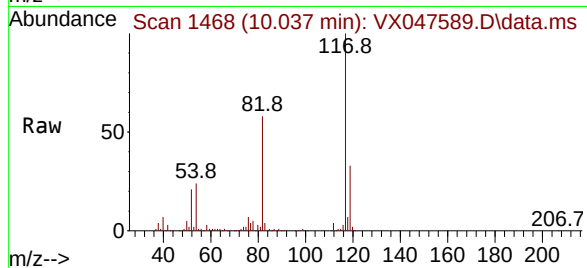
Tgt Ion: 95 Resp: 270289
Ion Ratio Lower Upper
95 100
174 71.7 0.0 141.6
176 68.0 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

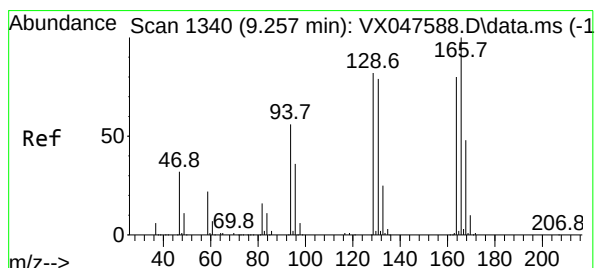
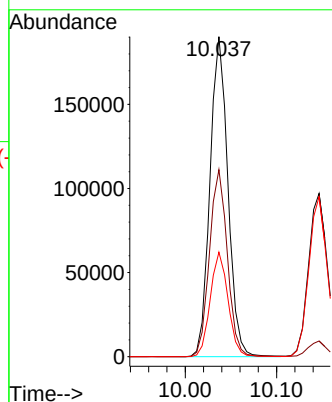
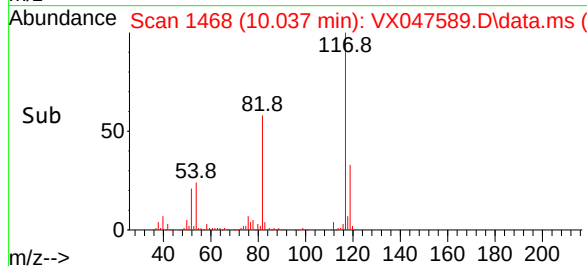
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:117 Resp: 258399
Ion Ratio Lower Upper
117 100
82 58.4 47.8 71.6
119 32.7 25.2 37.8

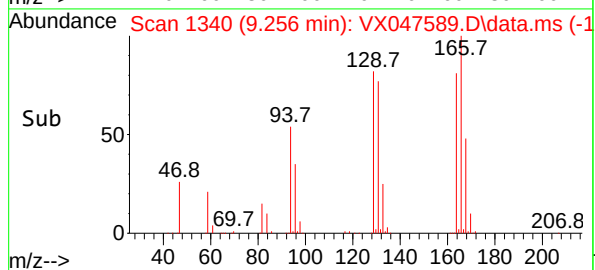
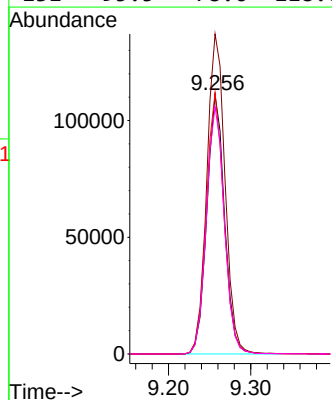
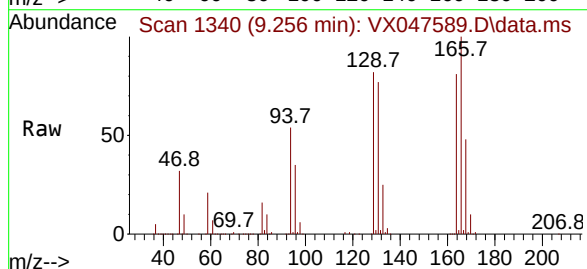
Manual Integrations
APPROVED

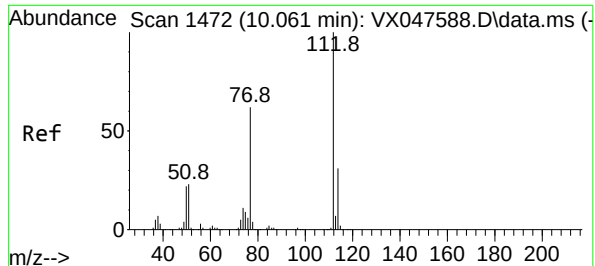
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#64
Tetrachloroethene
Concen: 98.284 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:164 Resp: 165559
Ion Ratio Lower Upper
164 100
166 123.6 100.2 150.2
129 100.9 81.8 122.6
131 95.5 78.6 118.0





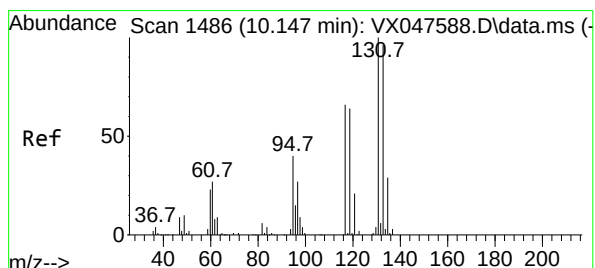
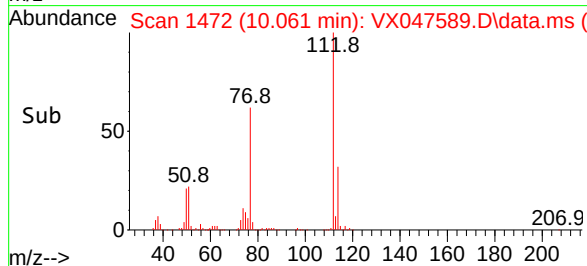
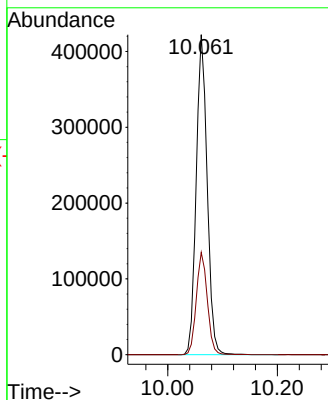
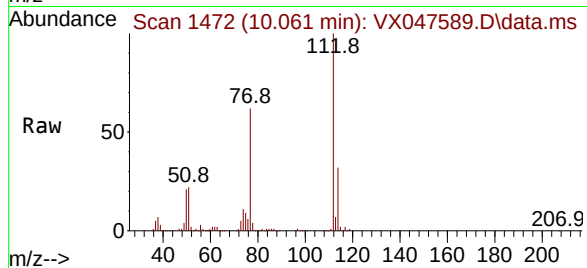
#65
Chlorobenzene
Concen: 100.253 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion:112 Resp: 58851
Ion Ratio Lower Upper
112 100
114 32.0 25.1 37.7

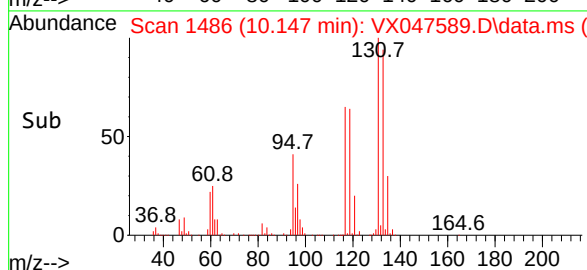
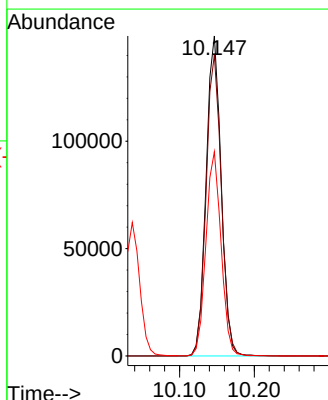
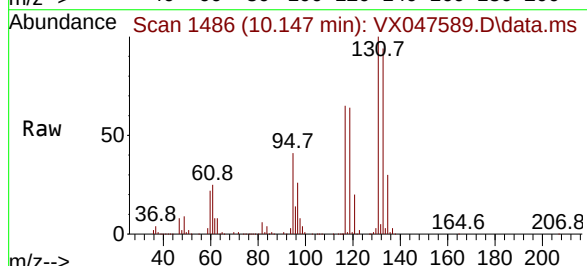
Manual Integrations
APPROVED

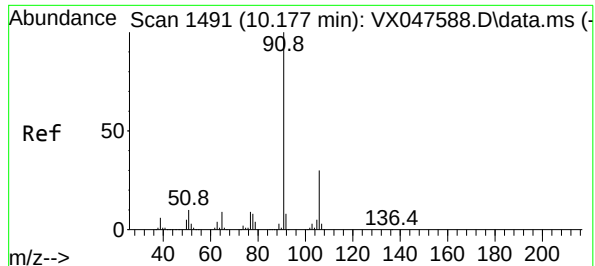
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 102.988 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:131 Resp: 208621
Ion Ratio Lower Upper
131 100
133 95.2 47.3 142.0
119 64.2 32.0 96.0





#67

Ethyl Benzene

Concen: 101.823 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 1031340

Ion Ratio Lower Upper

91 100

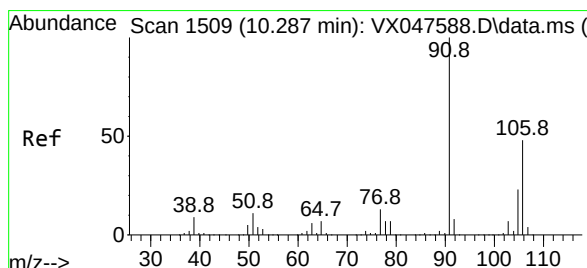
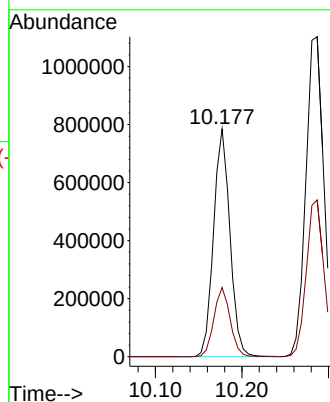
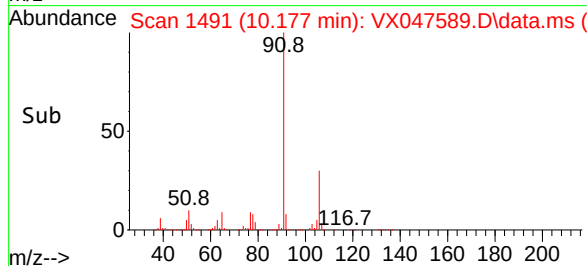
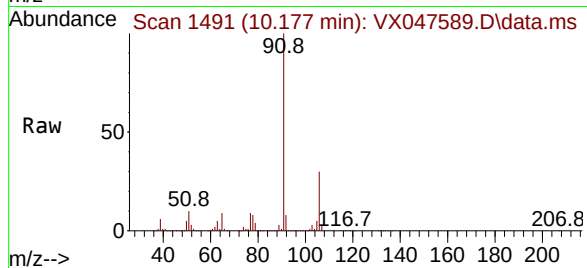
106 30.3 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 202.624 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX047589.D

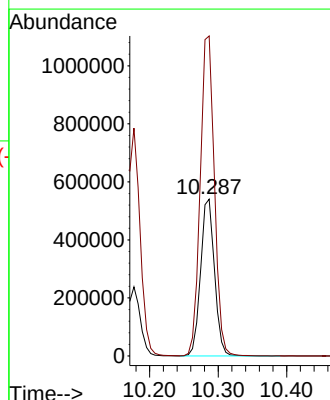
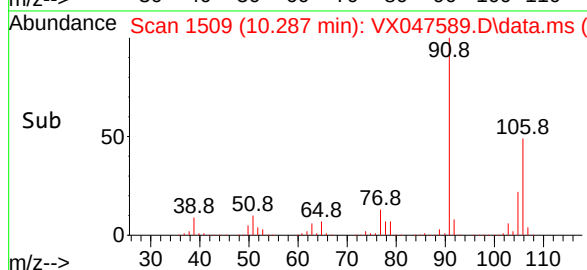
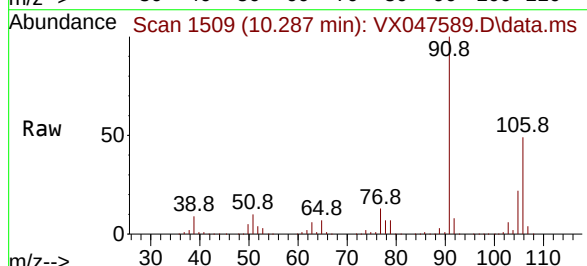
Acq: 16 Sep 2025 11:40

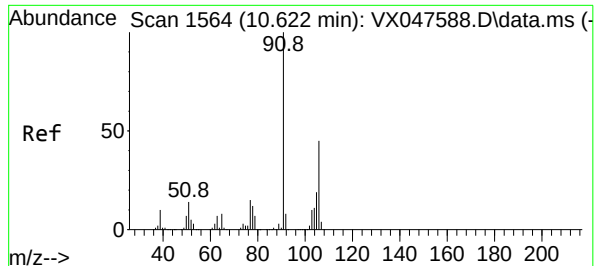
Tgt Ion:106 Resp: 763898

Ion Ratio Lower Upper

106 100

91 208.5 167.8 251.8





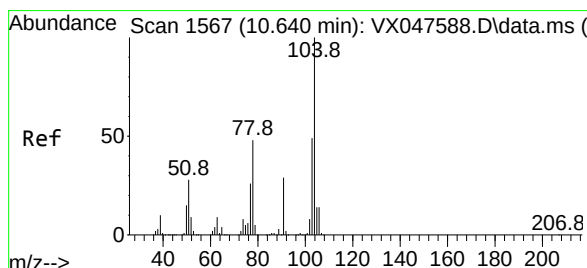
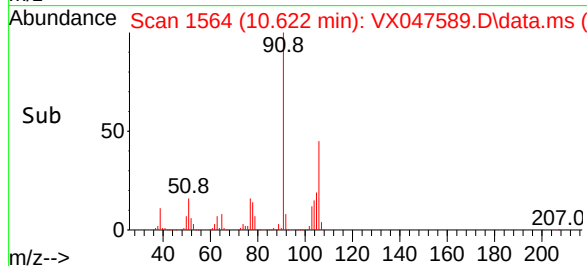
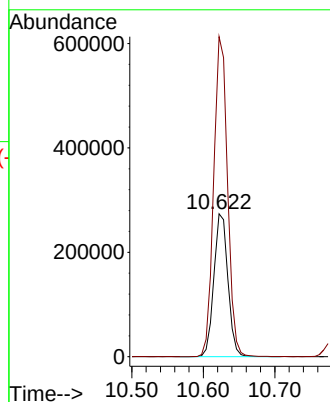
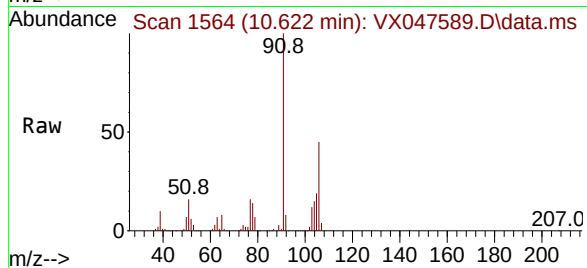
#69
o-Xylene
Concen: 102.186 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 37262
Ion Ratio Lower Upper
106 100
91 221.3 111.1 333.4

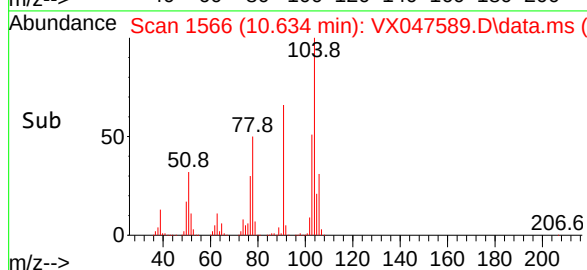
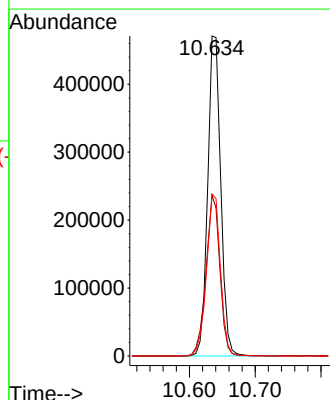
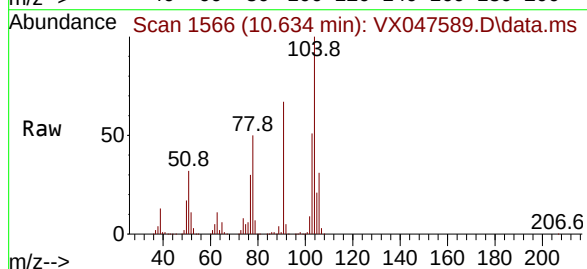
Manual Integrations
APPROVED

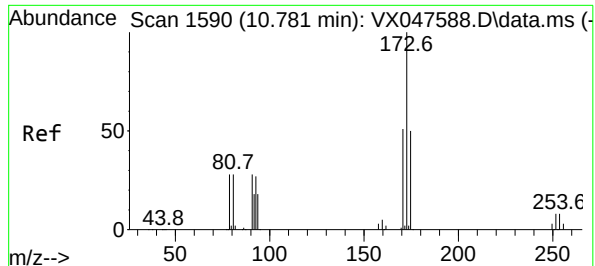
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 101.710 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

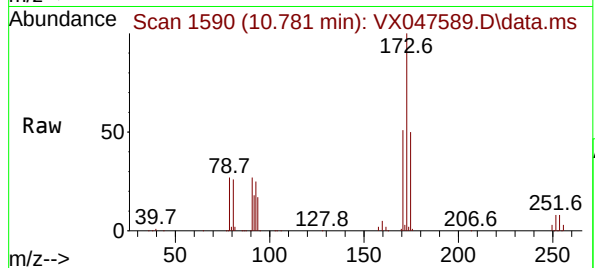
Tgt Ion:104 Resp: 649863
Ion Ratio Lower Upper
104 100
78 53.5 43.1 64.7
103 54.1 43.1 64.7





#71
Bromoform
Concen: 106.566 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

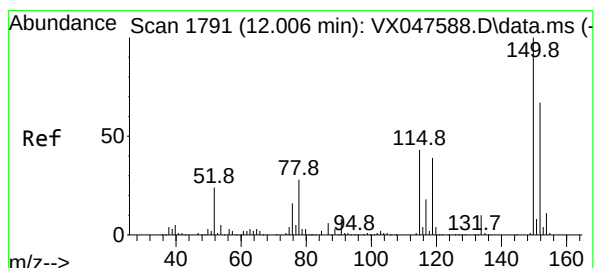
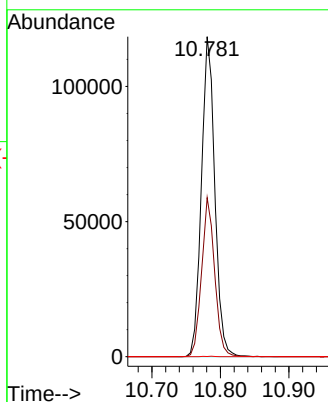
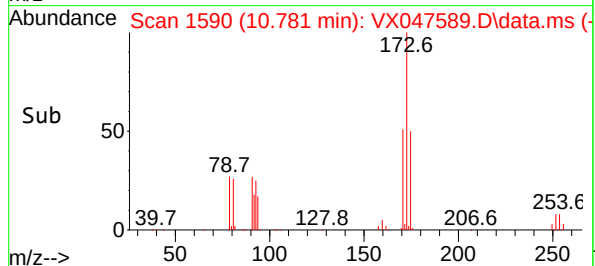
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:173 Resp: 16118
Ion Ratio Lower Upper
173 100
175 48.5 24.9 74.6
254 0.1 0.1 0.1

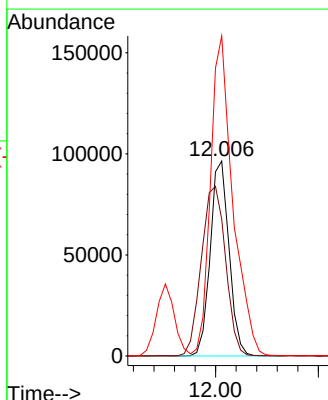
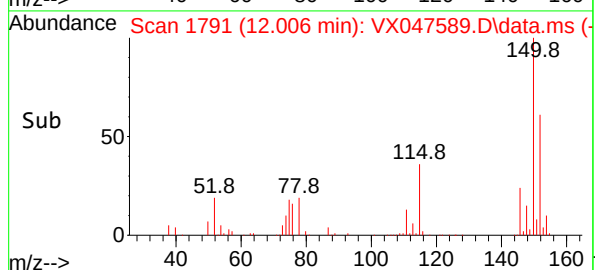
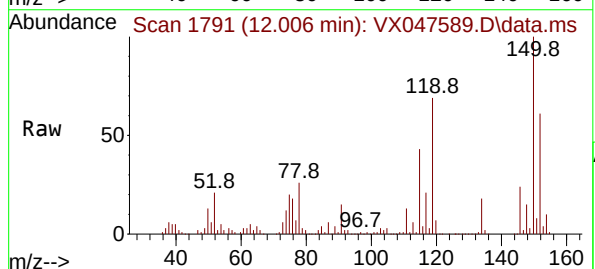
Manual Integrations
APPROVED

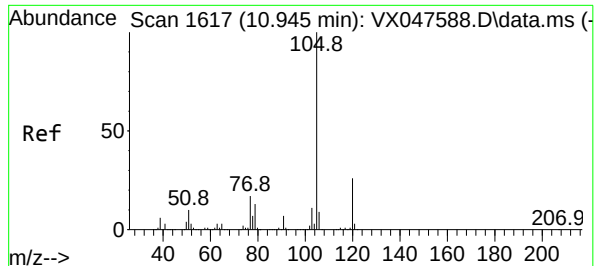
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

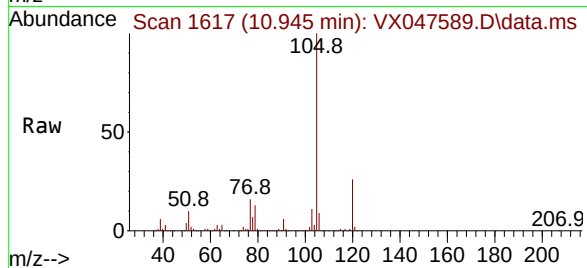
Tgt Ion:152 Resp: 122218
Ion Ratio Lower Upper
152 100
115 112.6 44.9 134.5
150 195.0 0.0 352.0





#73
Isopropylbenzene
Concen: 102.768 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

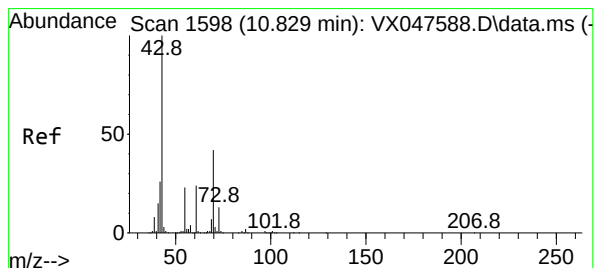
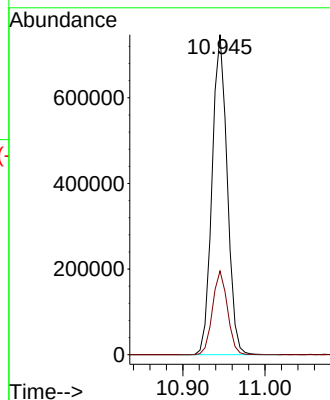
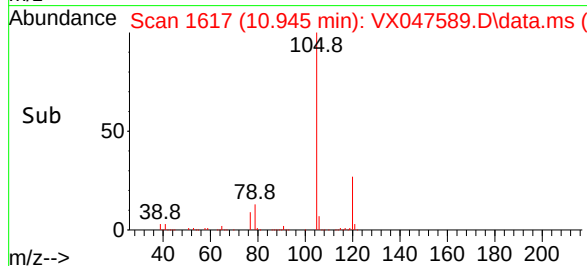
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



Tgt Ion:105 Resp: 954900
Ion Ratio Lower Upper
105 100
120 25.7 12.8 38.4

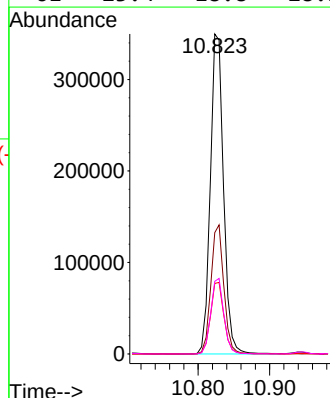
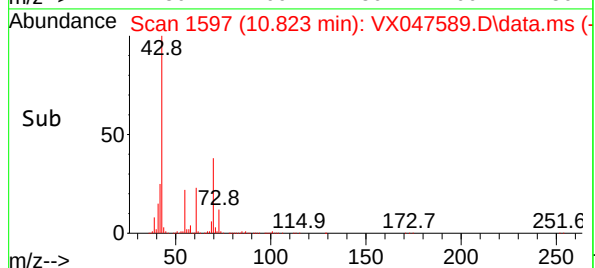
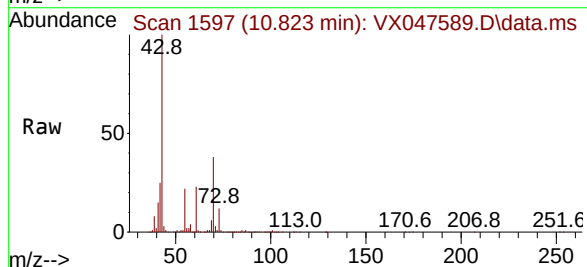
Manual Integrations
APPROVED

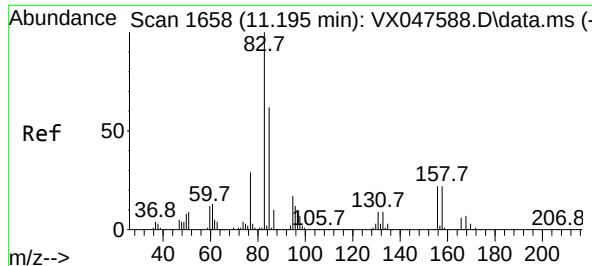
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 105.812 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 448344
Ion Ratio Lower Upper
43 100
70 39.6 32.0 48.0
55 22.8 18.9 28.3
61 23.4 18.8 28.2





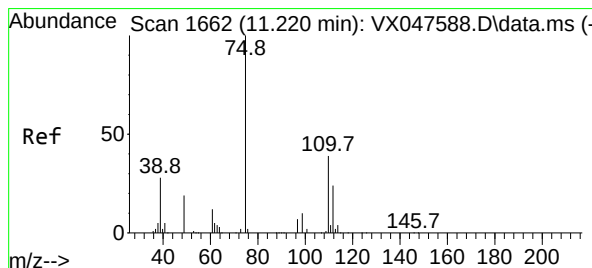
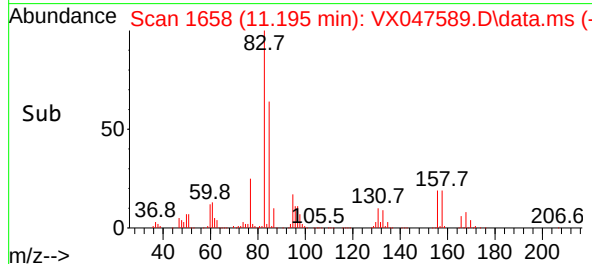
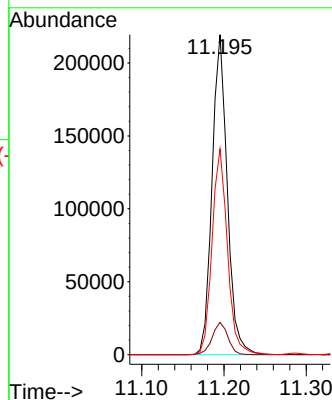
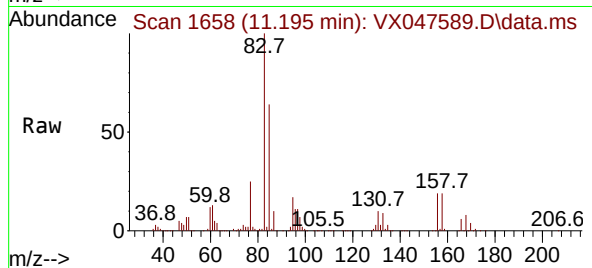
#75
1,1,2-Tetrachloroethane
Concen: 100.172 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 281608
Ion Ratio Lower Upper
83 100
131 10.4 5.0 14.9
85 65.1 31.6 95.0

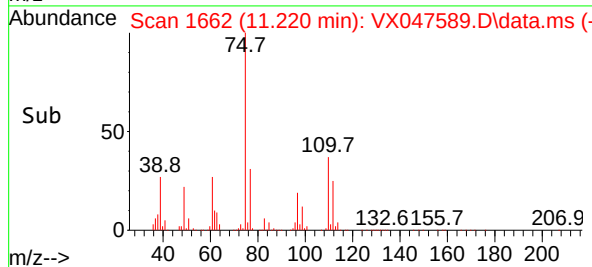
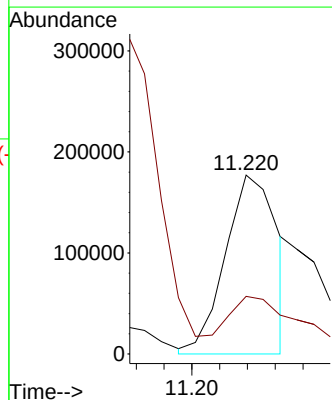
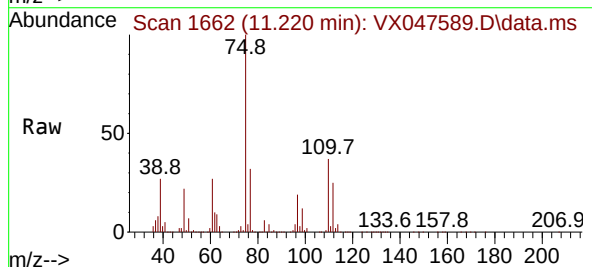
Manual Integrations
APPROVED

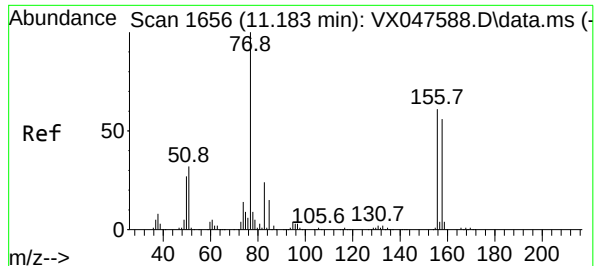
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 90.444 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

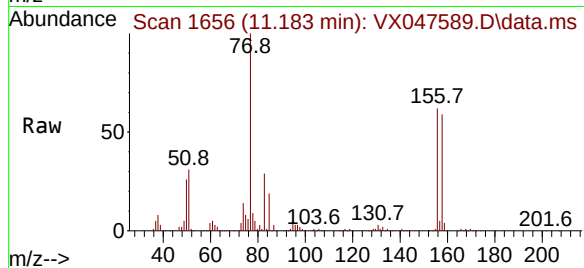
Tgt Ion: 75 Resp: 229521
Ion Ratio Lower Upper
75 100
77 43.9 18.8 56.4





#77
Bromobenzene
Concen: 102.541 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

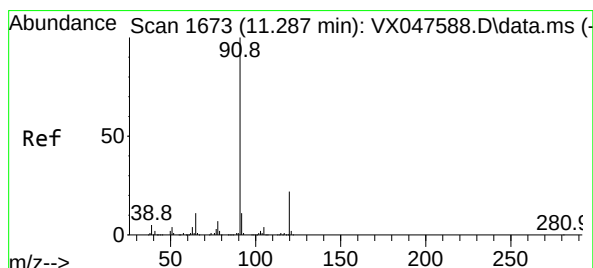
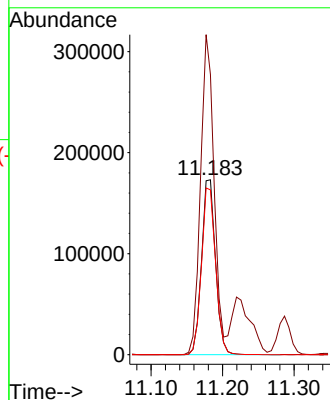
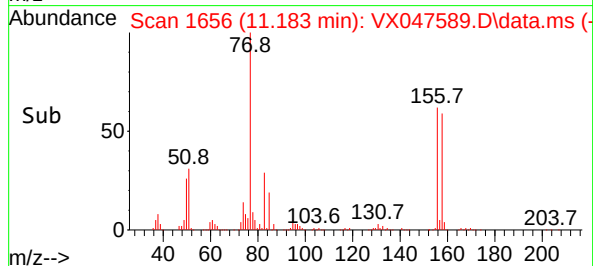
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



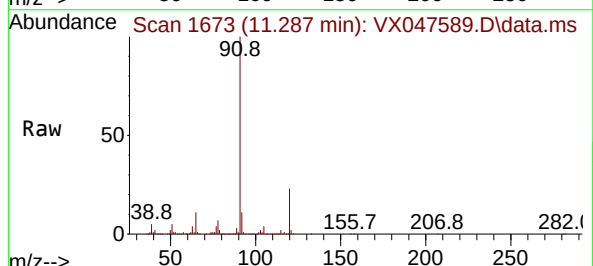
Tgt Ion: 156 Resp: 234660
Ion Ratio Lower Upper
156 100
77 176.0 89.7 269.1
158 96.5 47.9 143.6

Manual Integrations
APPROVED

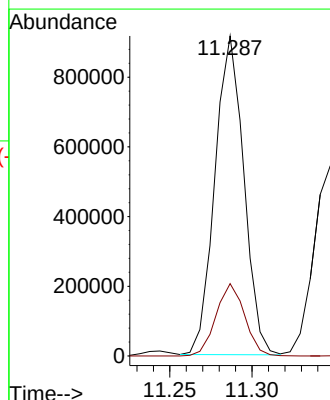
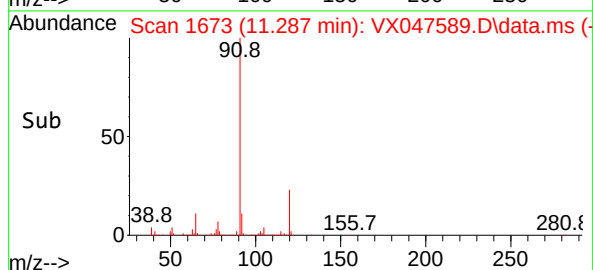
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

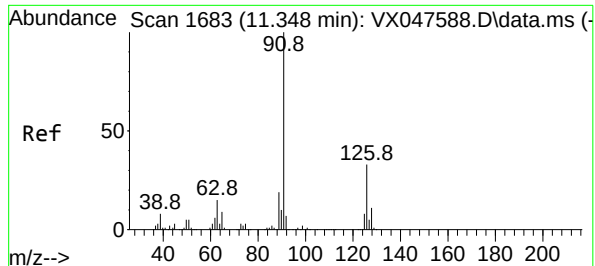


#78
n-propylbenzene
Concen: 101.941 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40



Tgt Ion: 91 Resp: 1119728
Ion Ratio Lower Upper
91 100
120 22.4 11.1 33.1





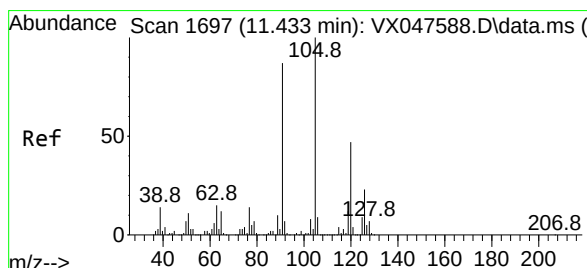
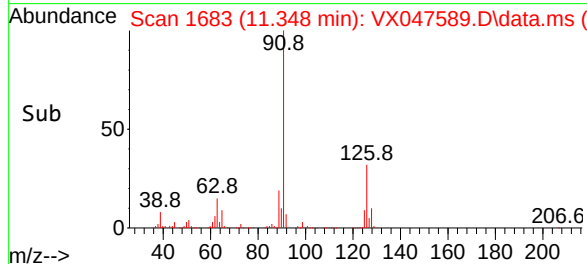
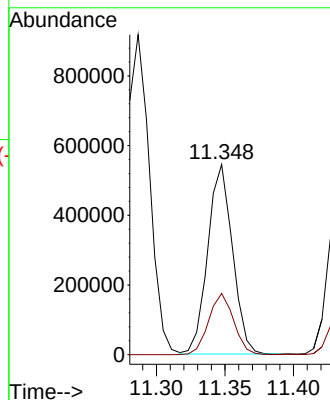
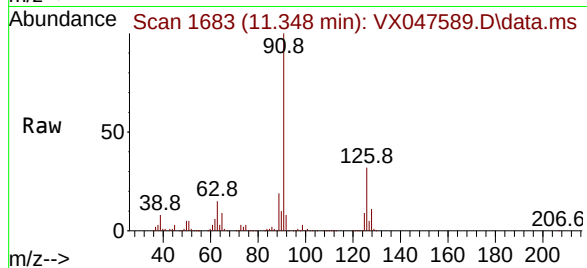
#79
2-Chlorotoluene
Concen: 101.652 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 68386
Ion Ratio Lower Upper
91 100
126 32.7 16.1 48.3

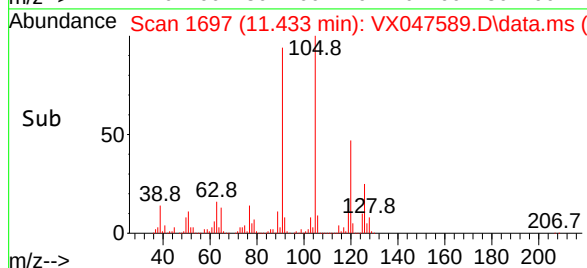
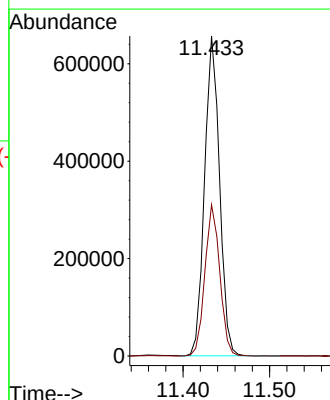
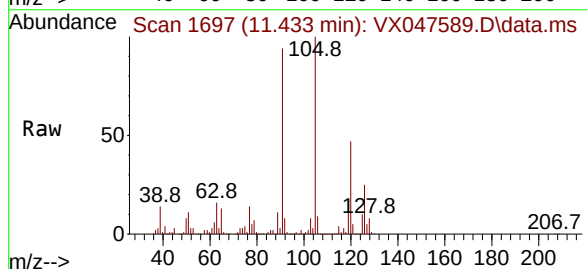
Manual Integrations
APPROVED

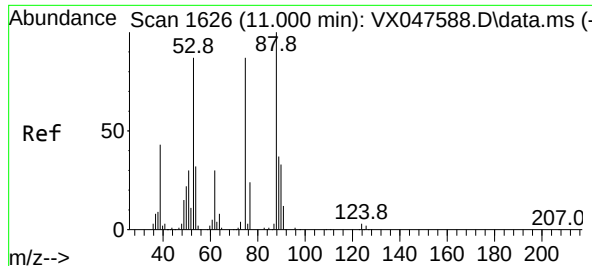
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#80
1,3,5-Trimethylbenzene
Concen: 103.134 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

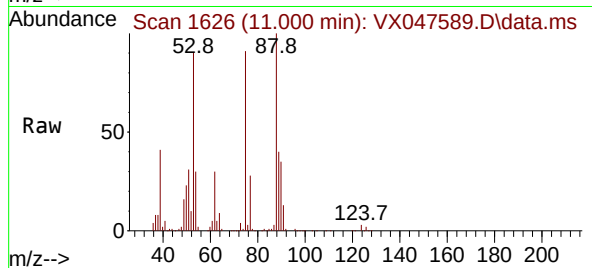
Tgt Ion:105 Resp: 787327
Ion Ratio Lower Upper
105 100
120 47.2 23.6 70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 105.689 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

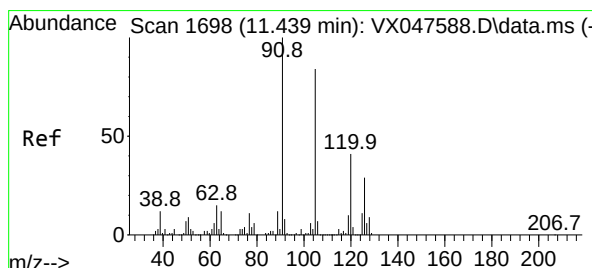
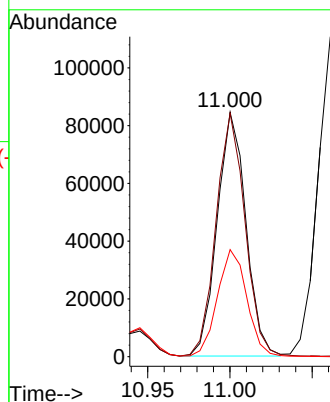
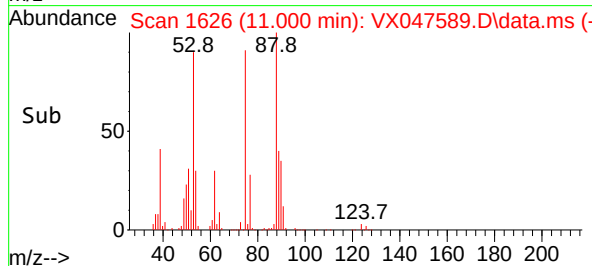
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 10255
Ion Ratio Lower Upper
75 100
53 101.1 83.4 125.2
89 45.3 36.3 54.5

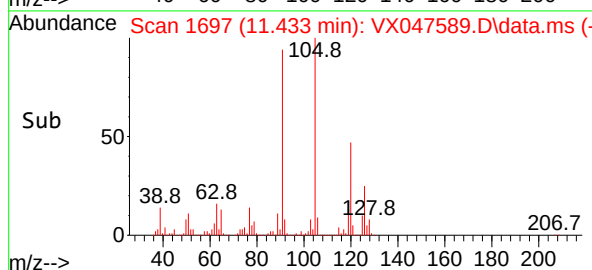
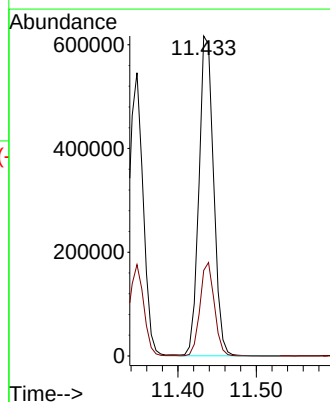
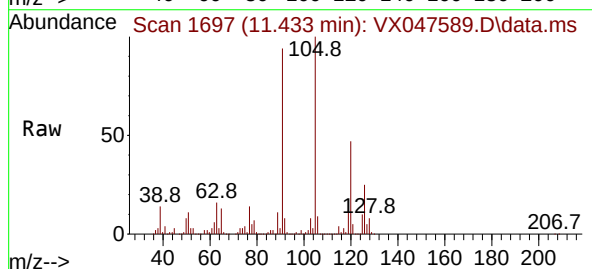
Manual Integrations
APPROVED

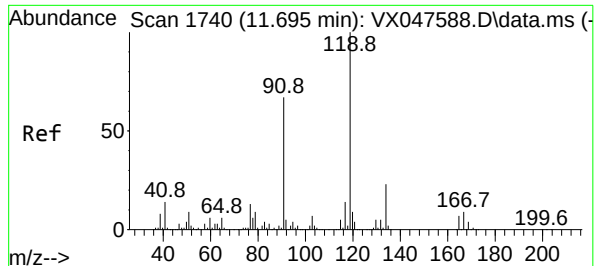
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 101.054 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 802929
Ion Ratio Lower Upper
91 100
126 28.6 14.2 42.6





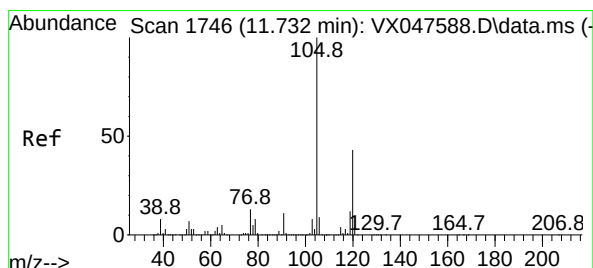
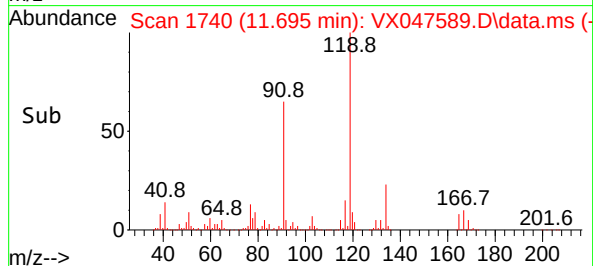
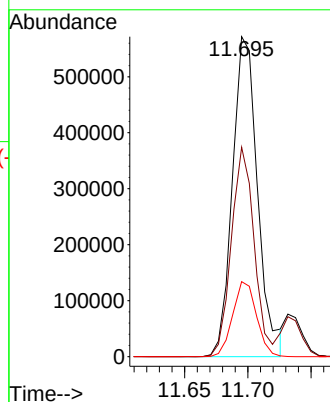
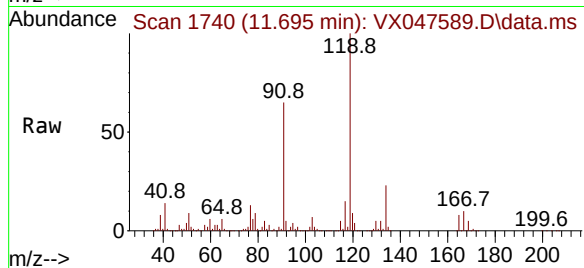
#83
tert-Butylbenzene
Concen: 101.333 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 791890
Ion Ratio Lower Upper
119 100
91 59.3 29.6 88.8
134 22.3 11.0 33.0

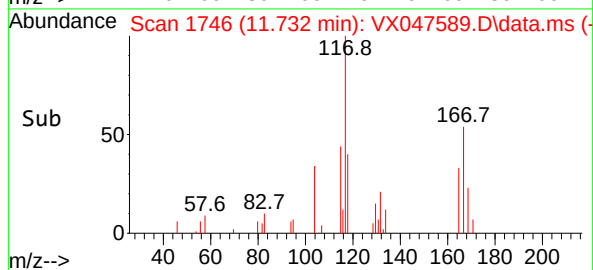
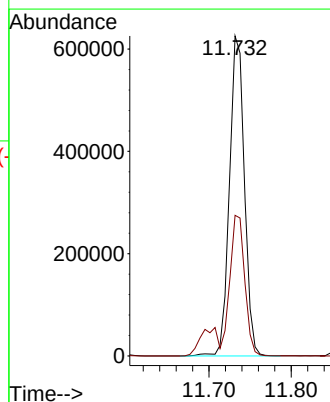
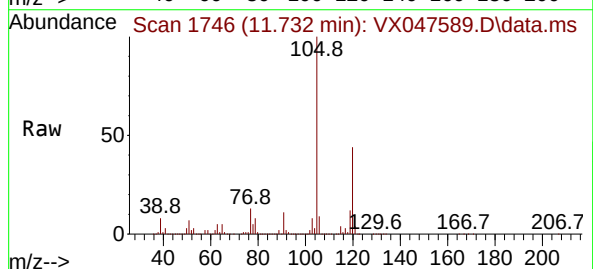
Manual Integrations
APPROVED

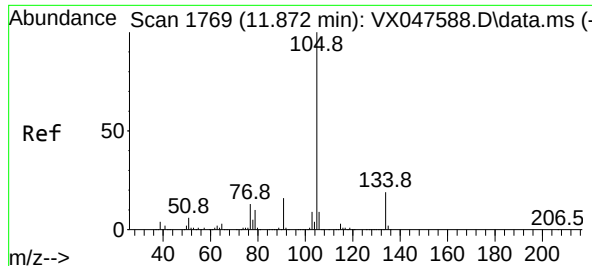
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#84
1,2,4-Trimethylbenzene
Concen: 102.144 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 790557
Ion Ratio Lower Upper
105 100
120 43.6 22.1 66.1





#85

sec-Butylbenzene

Concen: 101.840 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:105 Resp: 94532

Ion Ratio Lower Upper

105 100

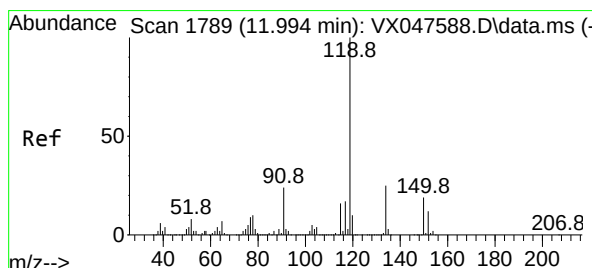
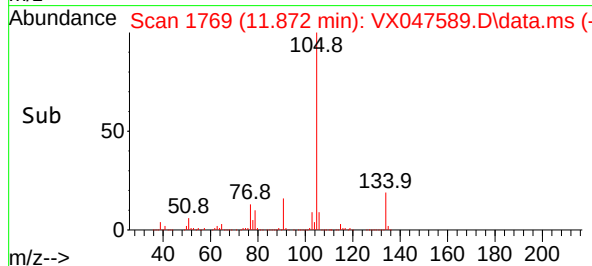
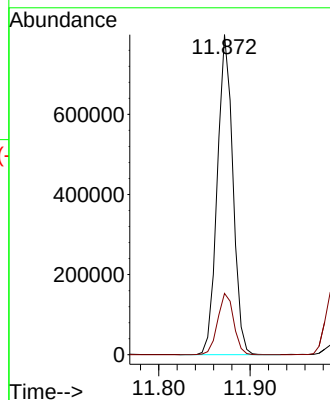
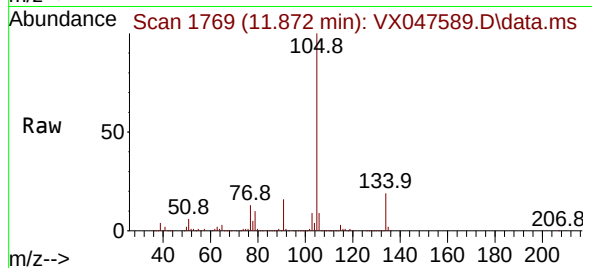
134 19.7 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#86

p-Isopropyltoluene

Concen: 101.501 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

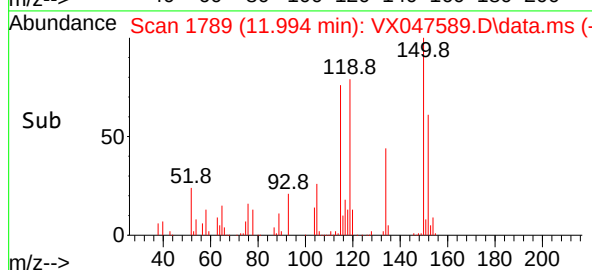
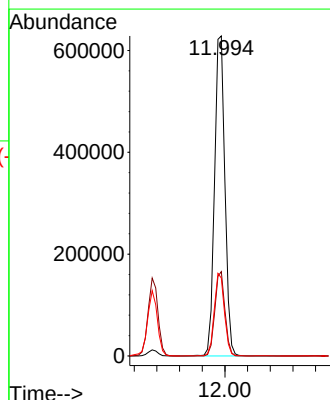
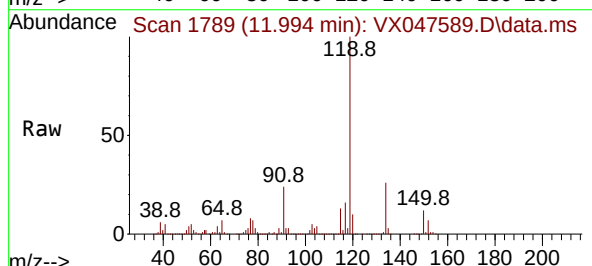
Tgt Ion:119 Resp: 797643

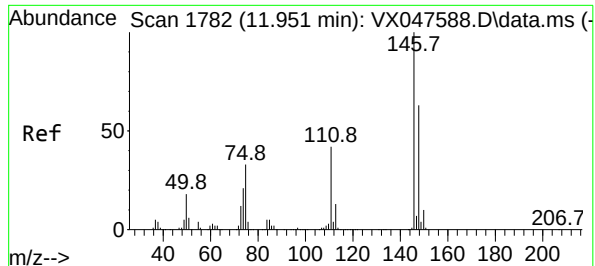
Ion Ratio Lower Upper

119 100

134 25.6 12.6 37.8

91 25.2 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 101.689 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 432248

Ion Ratio Lower Upper

146 100

111 42.7 21.5 64.5

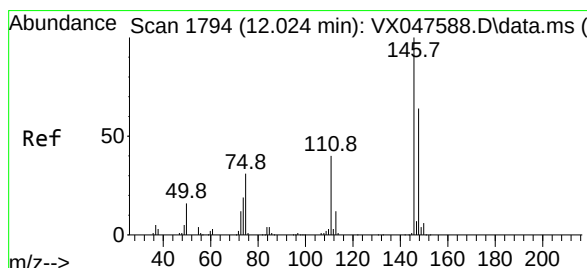
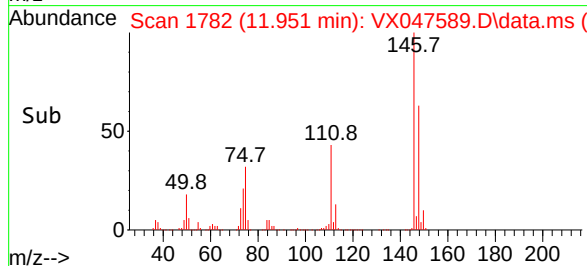
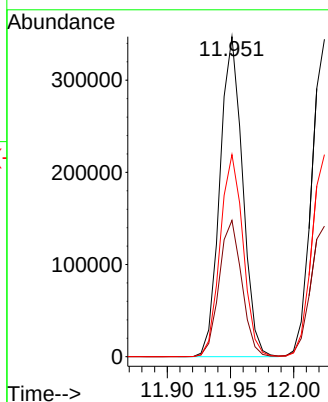
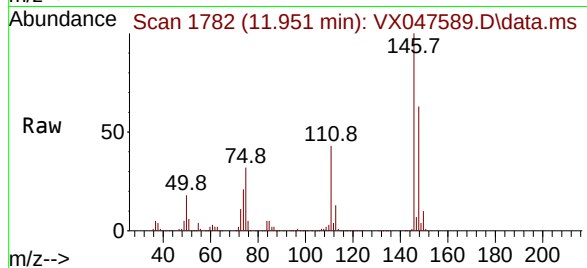
148 63.9 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 98.985 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

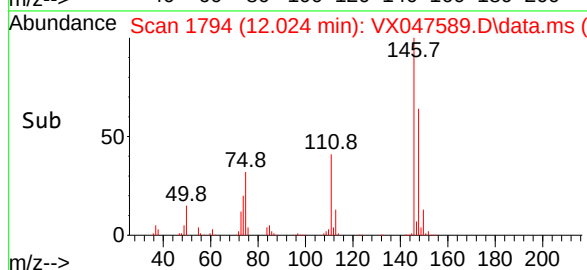
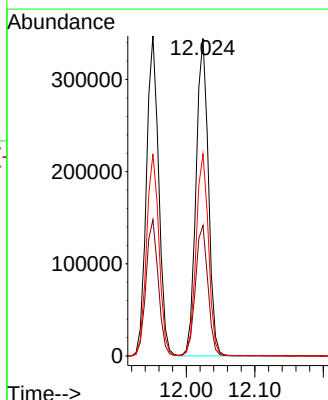
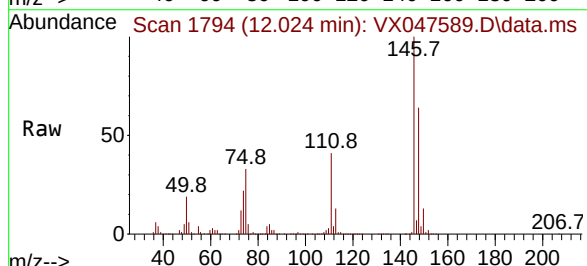
Tgt Ion:146 Resp: 431839

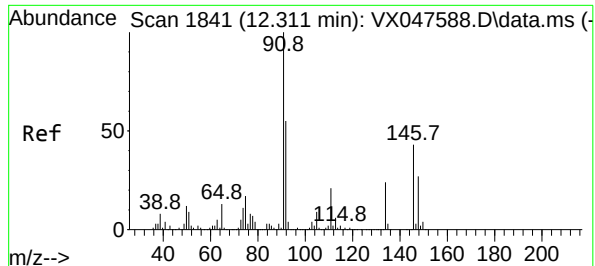
Ion Ratio Lower Upper

146 100

111 41.6 20.8 62.4

148 63.8 31.7 95.1





#89

n-Butylbenzene

Concen: 104.138 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 757239

Ion Ratio Lower Upper

91 100

92 54.4 27.6 82.7

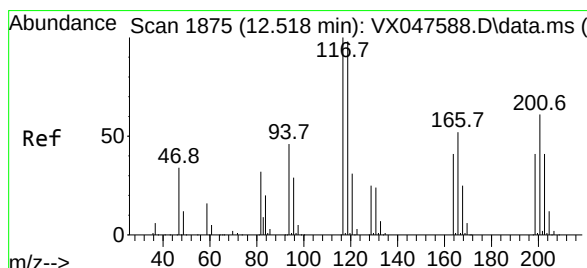
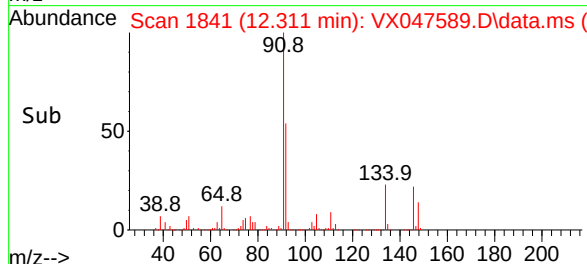
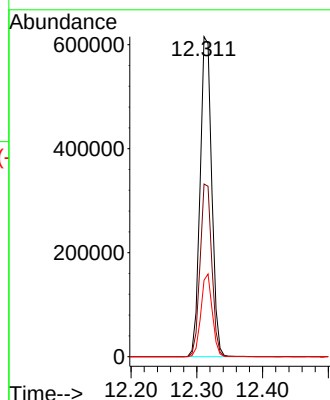
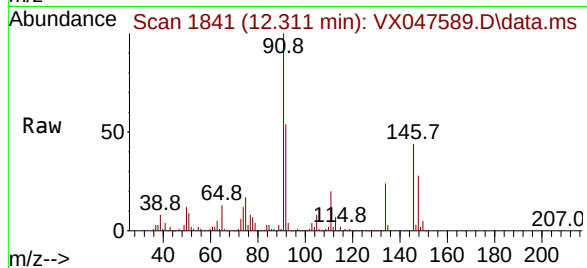
134 25.1 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 107.304 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX047589.D

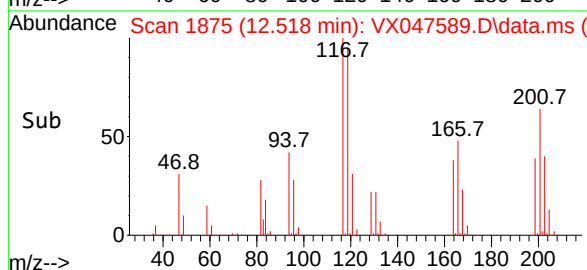
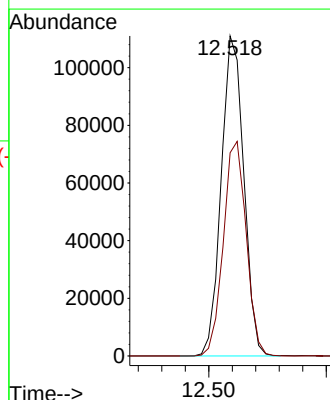
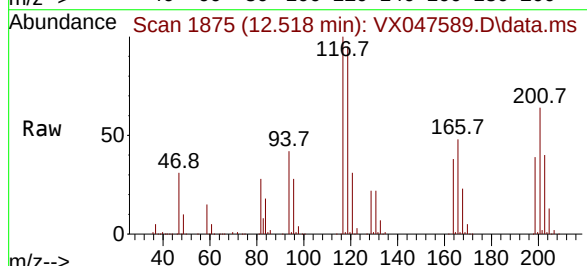
Acq: 16 Sep 2025 11:40

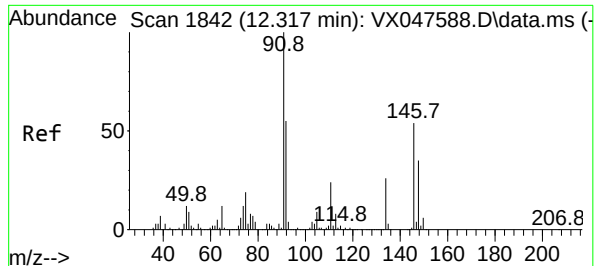
Tgt Ion:117 Resp: 148048

Ion Ratio Lower Upper

117 100

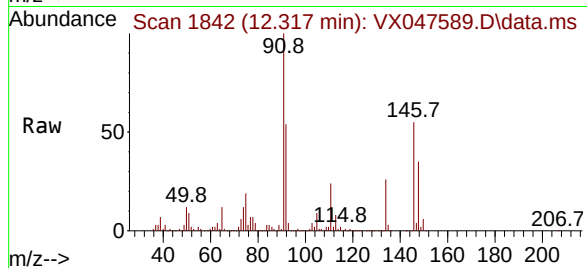
201 68.1 34.2 102.5





#91
1,2-Dichlorobenzene
Concen: 102.352 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

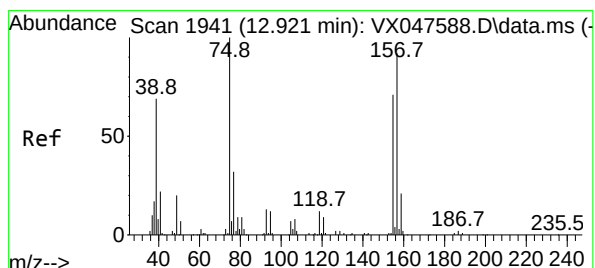
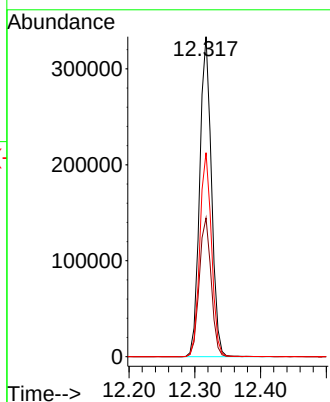
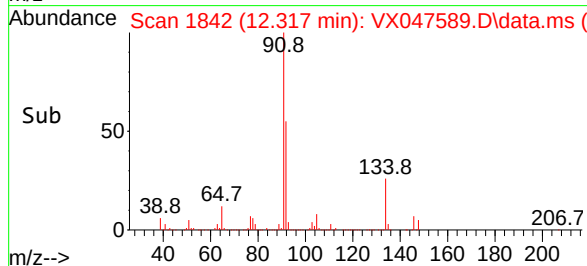
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 41449
Ion Ratio Lower Upper
146 100
111 43.9 22.2 66.6
148 63.4 31.8 95.4

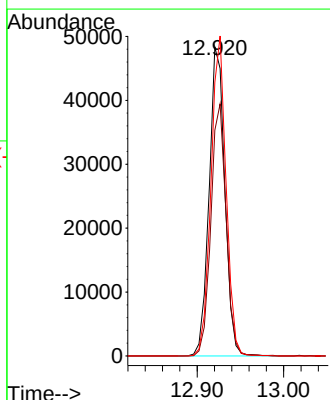
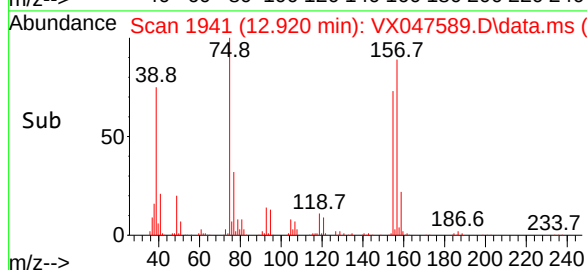
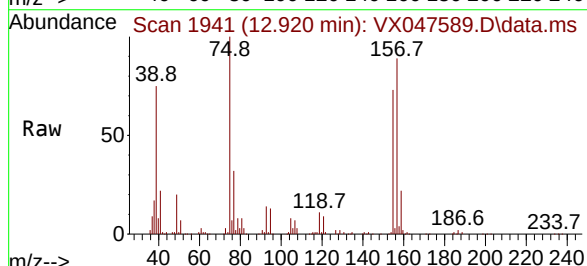
Manual Integrations
APPROVED

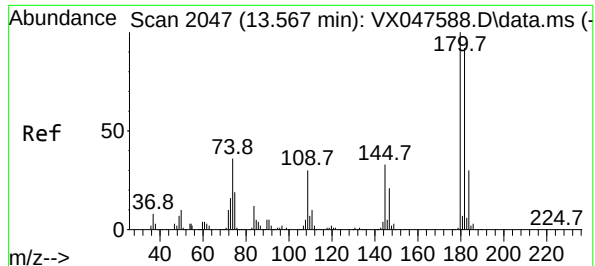
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 107.225 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 61029
Ion Ratio Lower Upper
75 100
155 79.0 37.7 113.1
157 99.2 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 105.922 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 27877

Ion Ratio Lower Upper

180 100

182 93.2 46.6 139.8

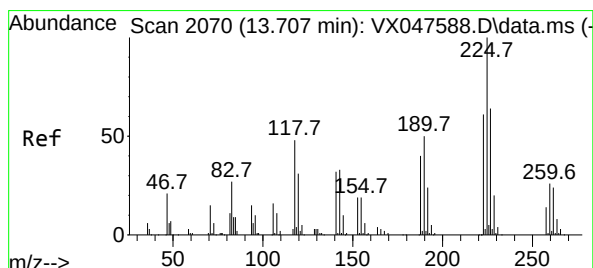
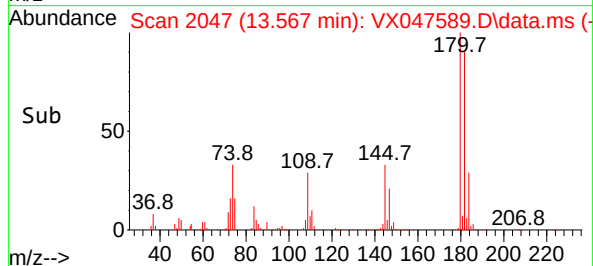
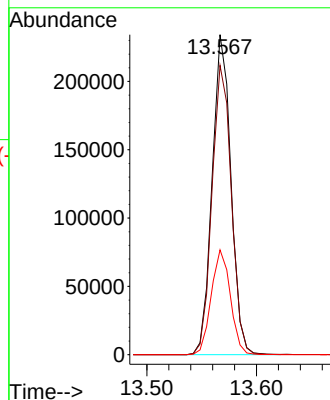
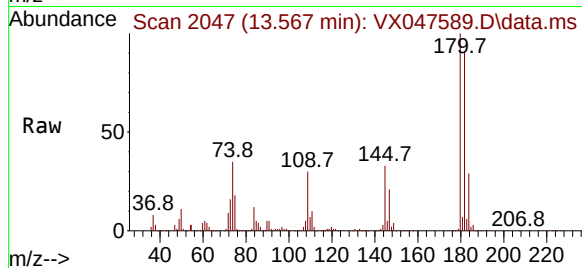
145 33.3 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 103.049 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

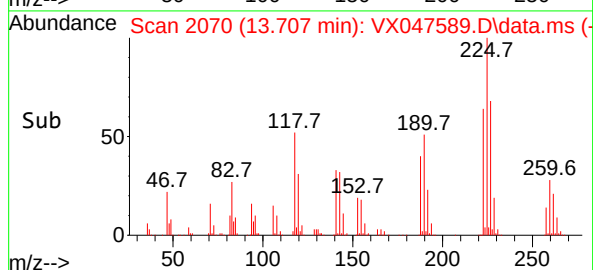
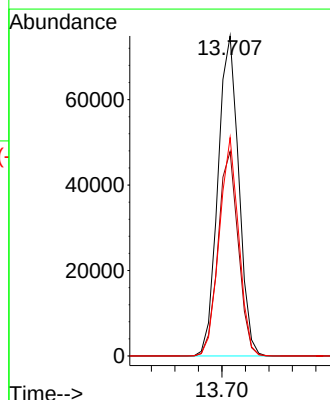
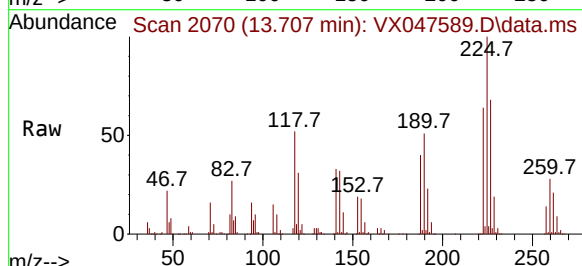
Tgt Ion:225 Resp: 92124

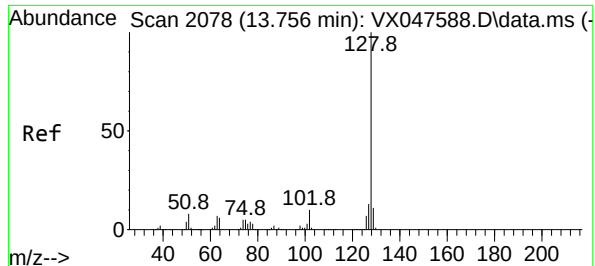
Ion Ratio Lower Upper

225 100

223 62.0 31.7 95.1

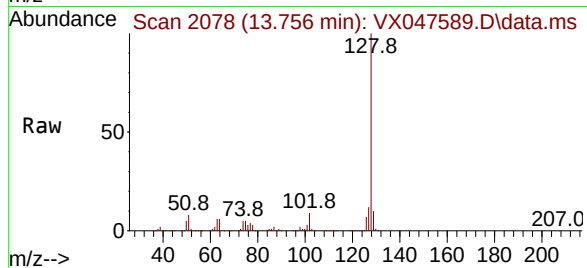
227 63.8 32.0 96.0





#95
Naphthalene
Concen: 106.620 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

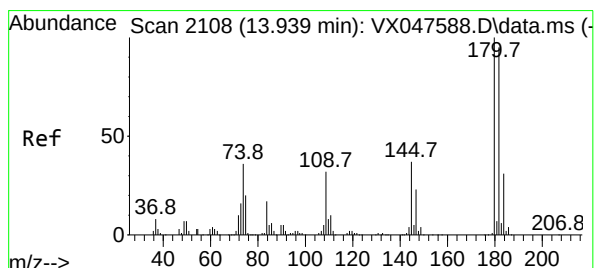
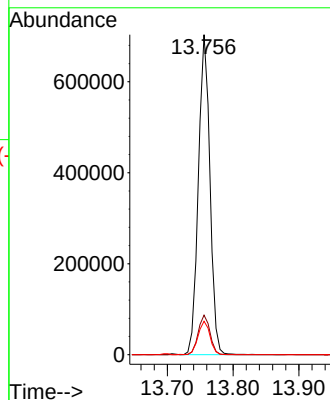
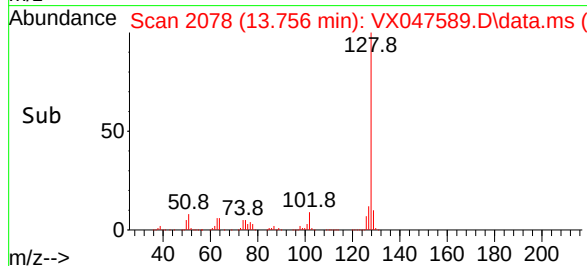
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 854492
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.8 8.8 13.2

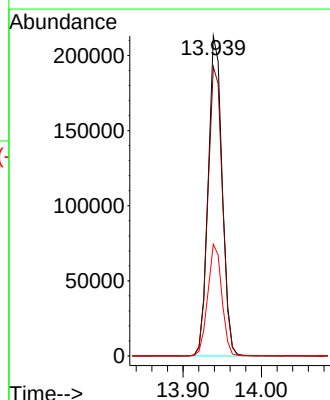
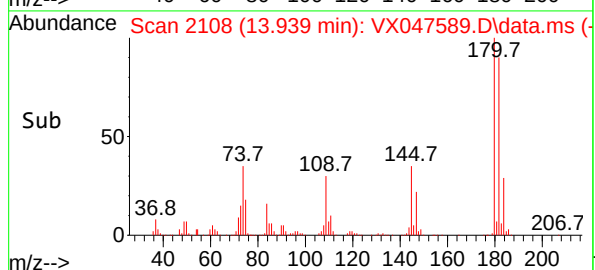
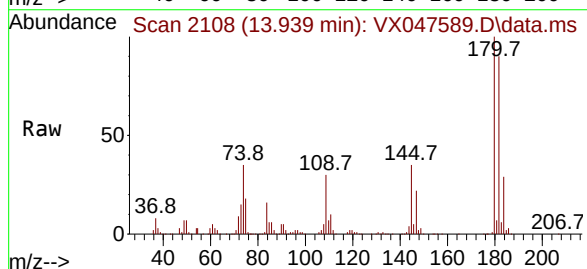
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 107.633 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:180 Resp: 263512
Ion Ratio Lower Upper
180 100
182 93.6 47.6 142.8
145 35.0 17.9 53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047590.D
 Acq On : 16 Sep 2025 12:01
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Sep 17 06:16:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	153177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	274804	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	241818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114743	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.940	65	396627	162.673	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 325.340%#	
35) Dibromofluoromethane	5.373	113	303728	164.802	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 329.600%#	
50) Toluene-d8	8.635	98	1041079	163.253	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 326.500%#	
62) 4-Bromofluorobenzene	11.067	95	399386	165.020	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 330.040%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.173	85	226166	142.586	ug/l	99
3) Chloromethane	1.301	50	297259	142.593	ug/l	99
4) Vinyl Chloride	1.380	62	302303	148.140	ug/l	98
5) Bromomethane	1.605	94	147541	114.019	ug/l	98
6) Chloroethane	1.691	64	195927	143.652	ug/l	99
7) Trichlorofluoromethane	1.892	101	453116	149.545	ug/l	99
8) Diethyl Ether	2.136	74	188006	151.684	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	267995	151.264	ug/l	99
10) Methyl Iodide	2.453	142	407242	147.384	ug/l	99
11) Tert butyl alcohol	2.959	59	215927	795.166	ug/l	100
12) 1,1-Dichloroethene	2.325	96	273692	150.388	ug/l	97
13) Acrolein	2.239	56	223763	894.203	ug/l	98
14) Allyl chloride	2.666	41	554779	147.727	ug/l	99
15) Acrylonitrile	3.063	53	790790	786.201	ug/l	99
16) Acetone	2.380	43	686119	647.201	ug/l	98
17) Carbon Disulfide	2.514	76	714503	143.412	ug/l	99
18) Methyl Acetate	2.703	43	404736	171.548	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	1015295	152.826	ug/l	100
20) Methylene Chloride	2.788	84	324032	144.398	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	291616	148.833	ug/l	98
22) Diisopropyl ether	3.757	45	1095726	150.551	ug/l	97
23) Vinyl Acetate	3.715	43	4504849	773.364	ug/l	100
24) 1,1-Dichloroethane	3.605	63	587129	151.776	ug/l	98
25) 2-Butanone	4.544	43	973938	736.502	ug/l	99
26) 2,2-Dichloropropane	4.471	77	486890	151.414	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	366262	152.638	ug/l	99
28) Bromochloromethane	4.885	49	289548	171.451	ug/l	99
29) Tetrahydrofuran	4.989	42	616374	774.811	ug/l	100
30) Chloroform	5.080	83	591709	151.367	ug/l	99
31) Cyclohexane	5.458	56	456119	141.570	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	506654	152.802	ug/l	99
36) 1,1-Dichloropropene	5.684	75	386601	143.556	ug/l	99
37) Ethyl Acetate	4.702	43	444461	154.141	ug/l	99
38) Carbon Tetrachloride	5.666	117	427263	146.021	ug/l	98
39) Methylcyclohexane	7.367	83	456694	149.395	ug/l	98
40) Benzene	6.025	78	1202846	147.057	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047590.D
 Acq On : 16 Sep 2025 12:01
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	223218	149.951	ug/l	99
42) 1,2-Dichloroethane	6.074	62	455978	146.515	ug/l	99
43) Isopropyl Acetate	6.324	43	724888	153.283	ug/l	99
44) Trichloroethene	7.111	130	299673	151.542	ug/l	96
45) 1,2-Dichloropropane	7.415	63	316720	151.219	ug/l	99
46) Dibromomethane	7.568	93	228550	149.954	ug/l	97
47) Bromodichloromethane	7.806	83	483438	153.710	ug/l	98
48) Methyl methacrylate	7.678	41	367931	156.194	ug/l	99
49) 1,4-Dioxane	7.647	88	82739	3475.565	ug/l	98
51) 4-Methyl-2-Pentanone	8.562	43	2008063	765.849	ug/l	100
52) Toluene	8.702	92	739332	146.712	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	503912	157.076	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	530566	154.732	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	289103	148.781	ug/l	99
56) Ethyl methacrylate	9.104	69	490623	160.773	ug/l	97
57) 1,3-Dichloropropane	9.293	76	502121	150.426	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.232	63	1202206	749.661	ug/l	99
59) 2-Hexanone	9.415	43	1412417	750.035	ug/l	99
60) Dibromochloromethane	9.506	129	347748	155.318	ug/l	98
61) 1,2-Dibromoethane	9.592	107	302715	152.949	ug/l	99
64) Tetrachloroethene	9.263	164	227931	144.590	ug/l	98
65) Chlorobenzene	10.061	112	828239	150.763	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	291433	153.733	ug/l	98
67) Ethyl Benzene	10.177	91	1431554	151.026	ug/l	99
68) m/p-Xylenes	10.287	106	1059776	300.381	ug/l	99
69) o-Xylene	10.628	106	521840	152.920	ug/l	99
70) Styrene	10.640	104	917532	153.449	ug/l	99
71) Bromoform	10.781	173	229683	162.262	ug/l	99
73) Isopropylbenzene	10.945	105	1321409	151.477	ug/l	99
74) N-amyl acetate	10.829	43	636879	160.099	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	403906	153.035	ug/l	99
76) 1,2,3-Trichloropropane	11.226	75	366171m	153.692	ug/l	
77) Bromobenzene	11.183	156	328336	152.818	ug/l	99
78) n-propylbenzene	11.287	91	1550316	150.337	ug/l	99
79) 2-Chlorotoluene	11.348	91	939707	148.781	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	1091593	152.306	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	145921	160.176	ug/l	97
82) 4-Chlorotoluene	11.439	91	1127233	151.112	ug/l	100
83) tert-Butylbenzene	11.701	119	1106532	150.819	ug/l	99
84) 1,2,4-Trimethylbenzene	11.738	105	1106914	152.336	ug/l	100
85) sec-Butylbenzene	11.872	105	1319819	151.448	ug/l	99
86) p-Isopropyltoluene	11.994	119	1103210	149.530	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	605123	151.633	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	613617	149.814	ug/l	99
89) n-Butylbenzene	12.317	91	1032357	151.222	ug/l	100
90) Hexachloroethane	12.518	117	211472	163.258	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	582565	153.227	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	89415	167.332	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	387652	156.884	ug/l	98
94) Hexachlorobutadiene	13.707	225	121791	145.110	ug/l	99
95) Naphthalene	13.756	128	1229363	163.388	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	369382	160.704	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

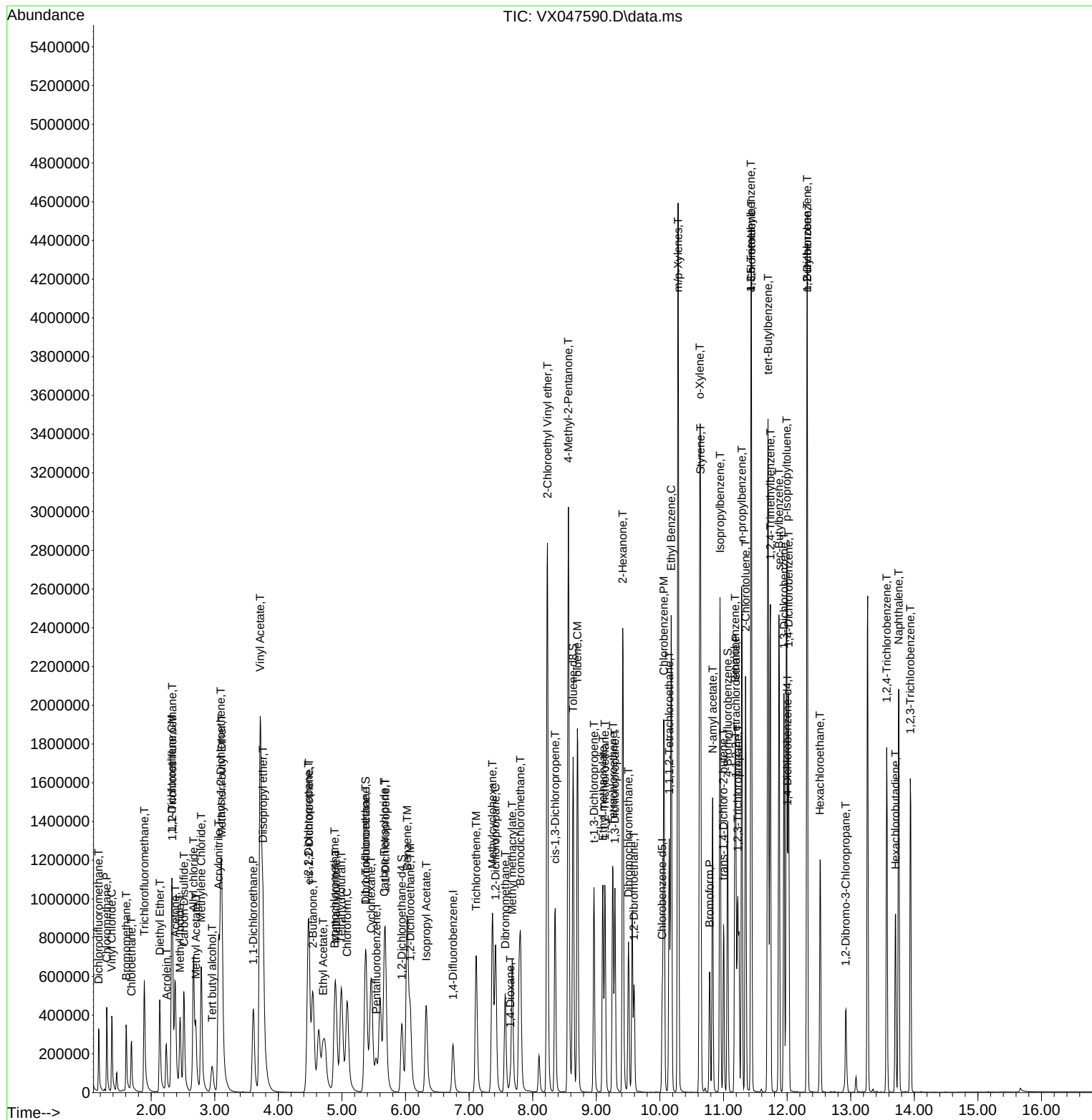
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDIC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

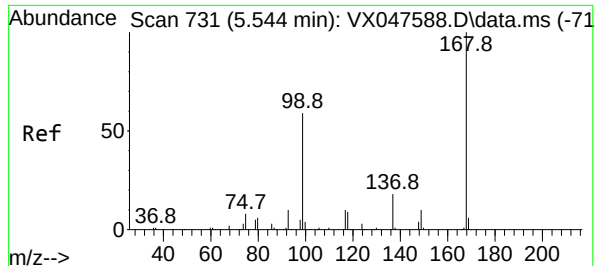
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration





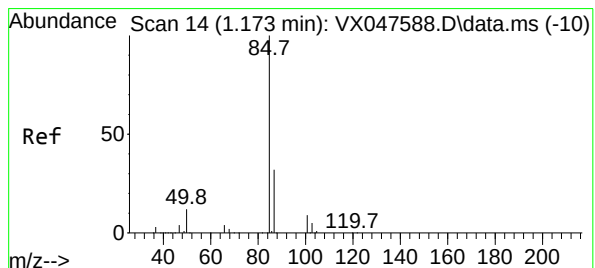
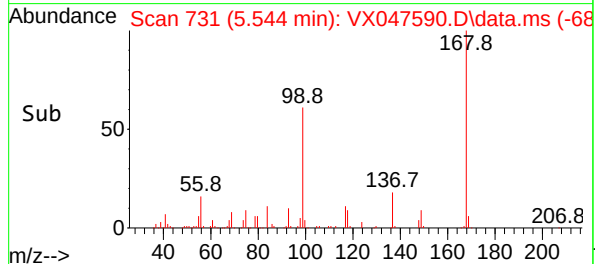
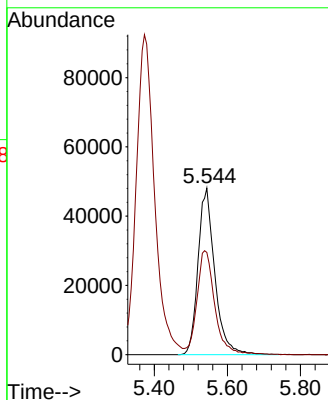
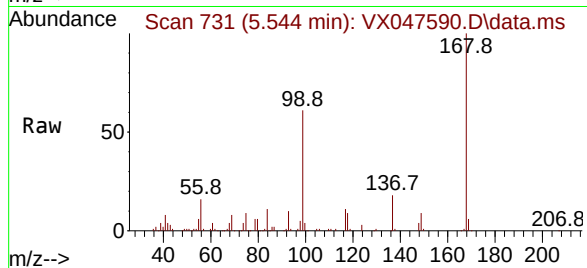
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 15317
Ion Ratio Lower Upper
168 100
99 61.1 48.8 73.2

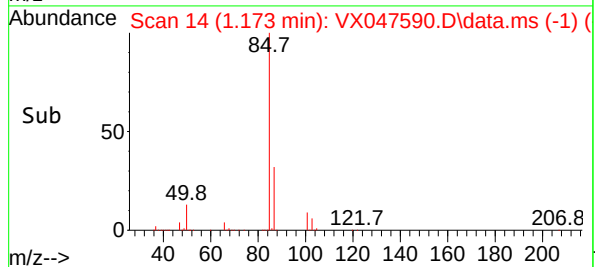
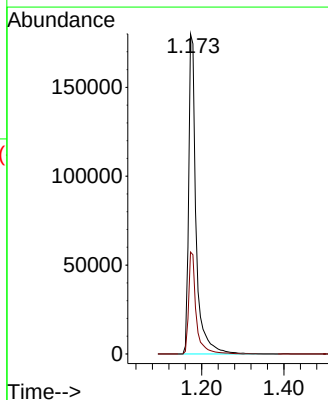
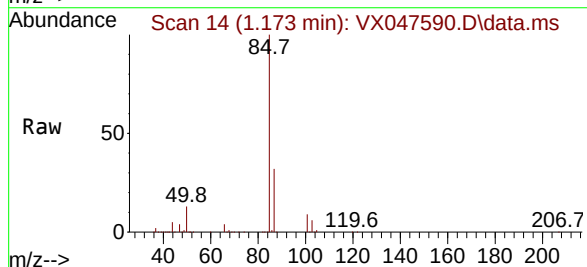
Manual Integrations
APPROVED

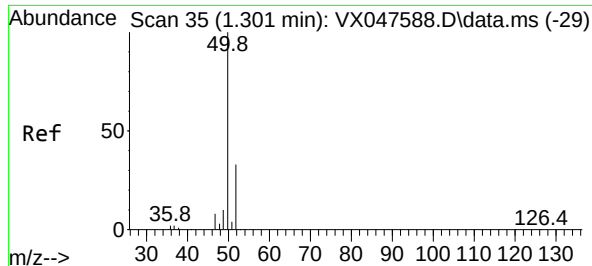
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 142.586 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 85 Resp: 226166
Ion Ratio Lower Upper
85 100
87 31.8 15.8 47.3





#3

Chloromethane

Concen: 142.593 ug/l

RT: 1.301 min Scan# 35

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 50 Resp: 297259

Ion Ratio Lower Upper

50 100

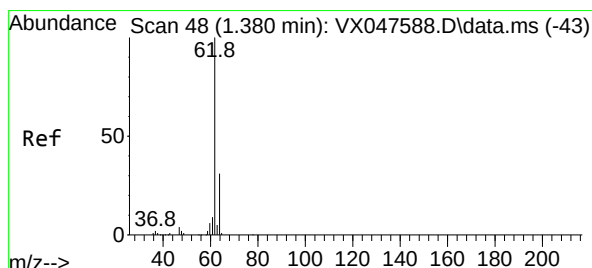
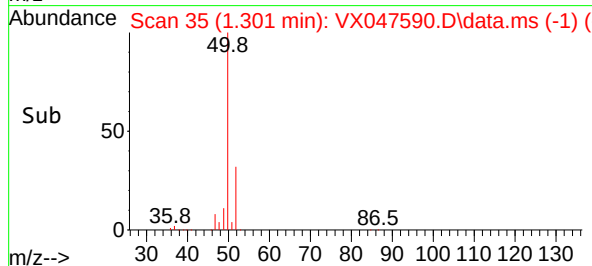
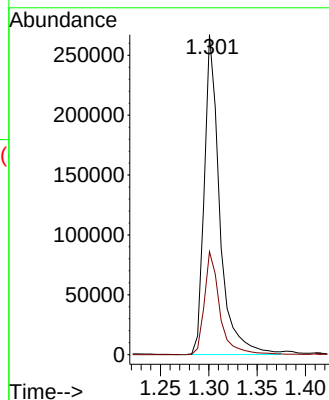
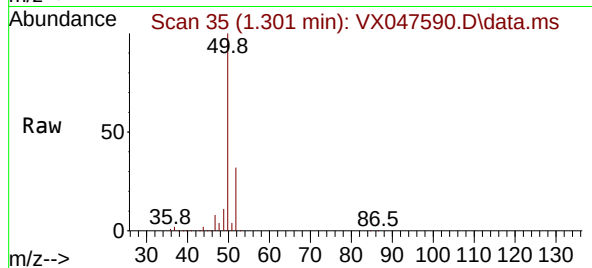
52 32.2 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#4

Vinyl Chloride

Concen: 148.140 ug/l

RT: 1.380 min Scan# 48

Delta R.T. -0.000 min

Lab File: VX047590.D

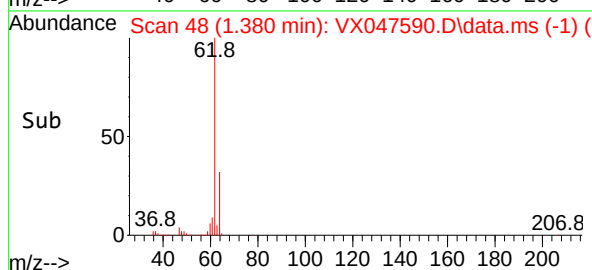
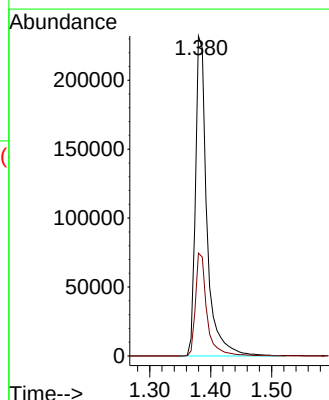
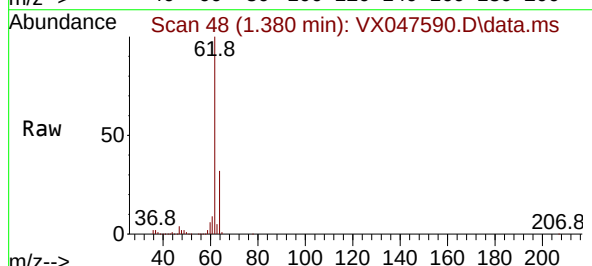
Acq: 16 Sep 2025 12:01

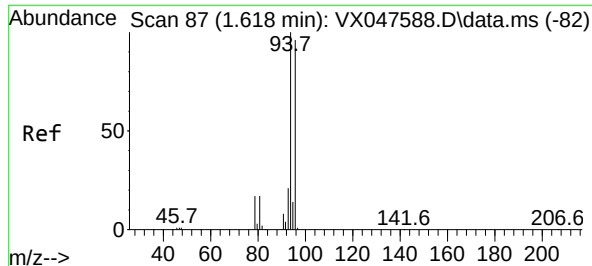
Tgt Ion: 62 Resp: 302303

Ion Ratio Lower Upper

62 100

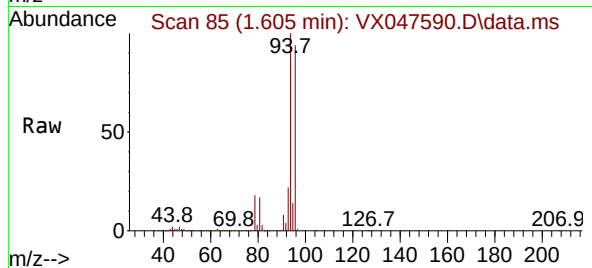
64 32.1 24.9 37.3





#5
Bromomethane
Concen: 114.019 ug/l
RT: 1.605 min Scan# 81
Delta R.T. -0.012 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

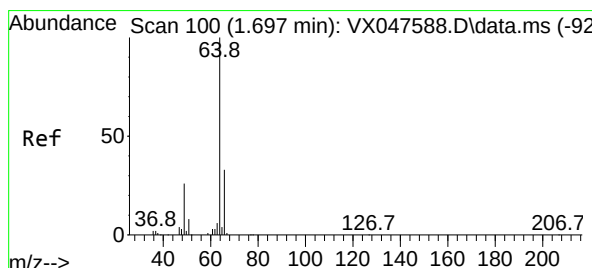
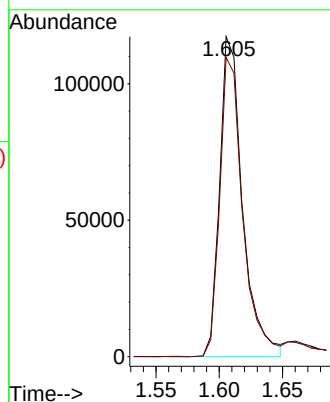
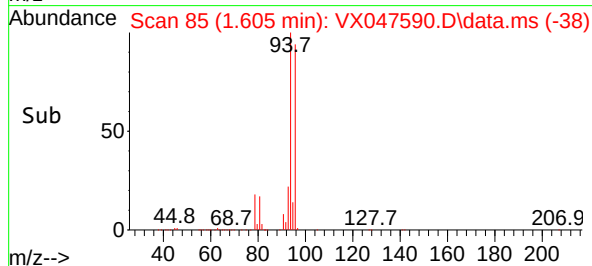
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 94 Resp: 14754
Ion Ratio Lower Upper
94 100
96 93.4 76.6 115.0

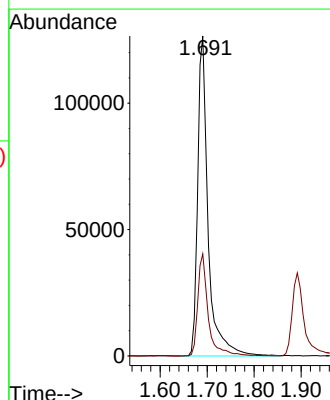
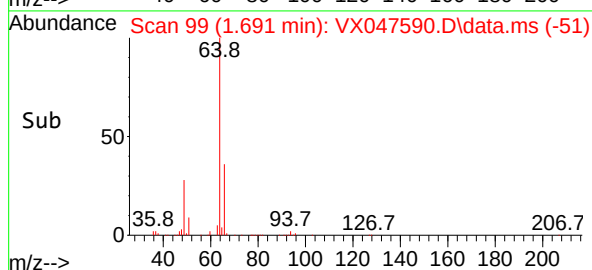
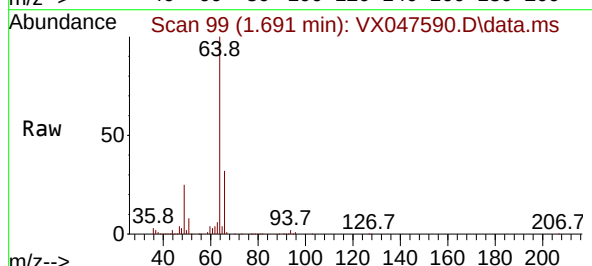
Manual Integrations
APPROVED

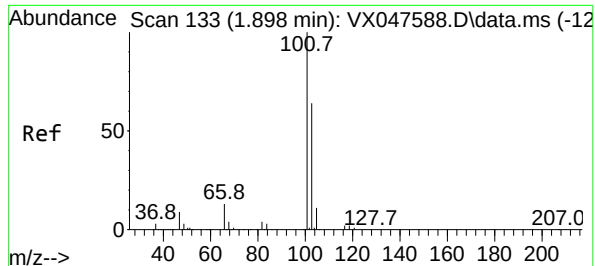
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 143.652 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

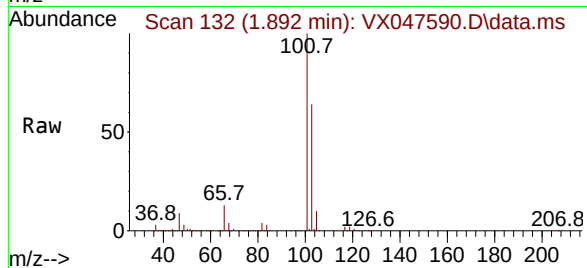
Tgt Ion: 64 Resp: 195927
Ion Ratio Lower Upper
64 100
66 31.9 26.1 39.1





#7
Trichlorofluoromethane
Concen: 149.545 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

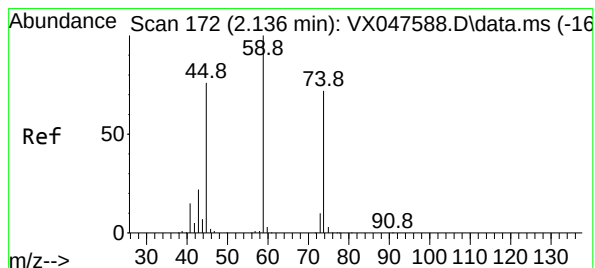
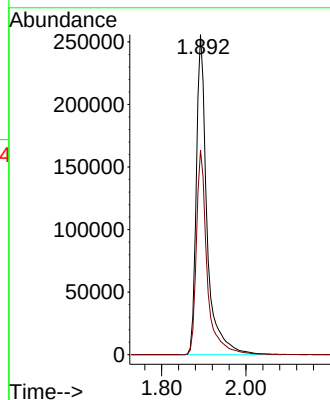
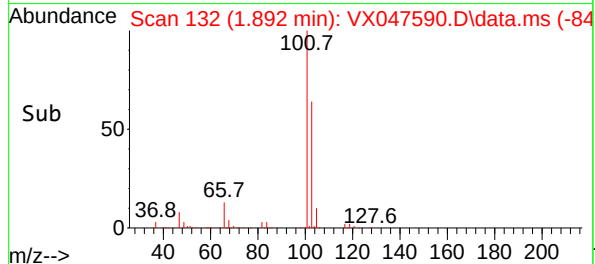
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:101 Resp: 453110
Ion Ratio Lower Upper
101 100
103 63.9 51.4 77.2

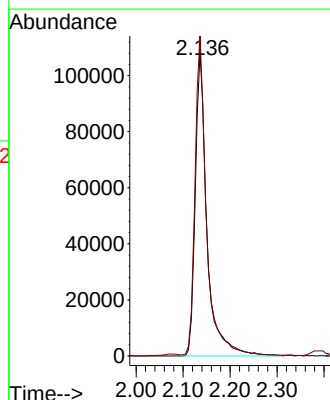
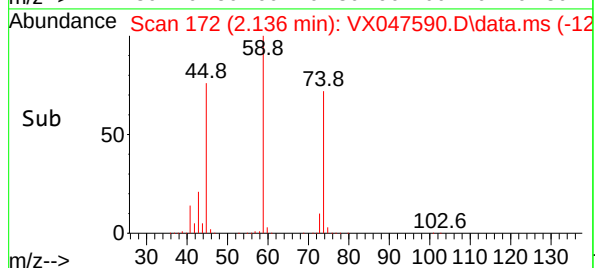
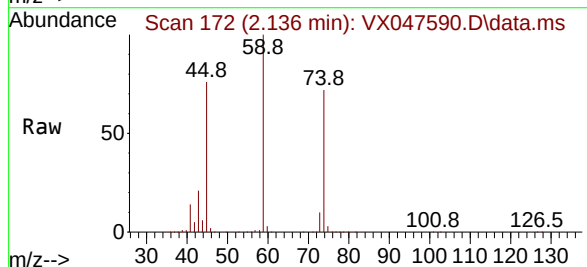
Manual Integrations
APPROVED

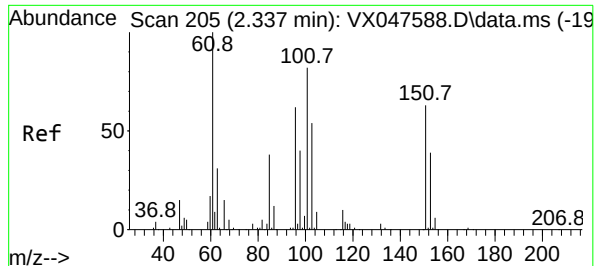
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 151.684 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 74 Resp: 188006
Ion Ratio Lower Upper
74 100
45 105.5 52.3 156.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 151.264 ug/l

RT: 2.331 min Scan# 205

Delta R.T. -0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

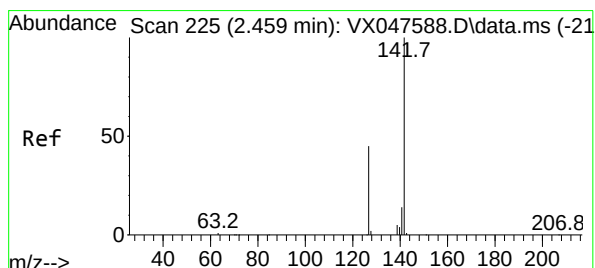
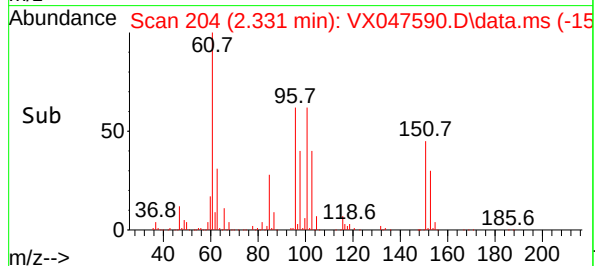
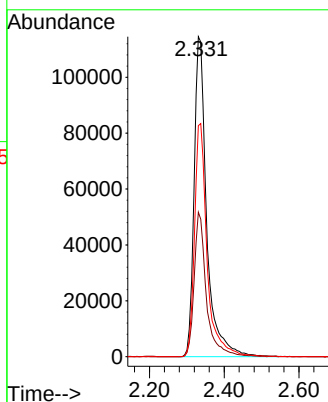
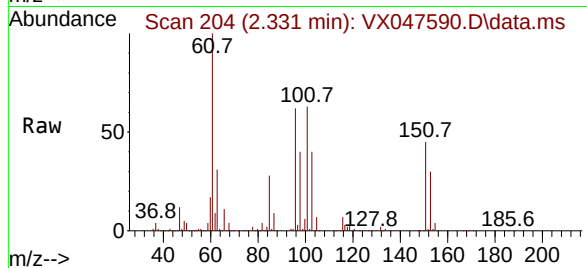
VSTDIC150

Tgt Ion	101	Resp	26799
Ion Ratio	Lower	Upper	
101	100		
85	43.9	35.5	53.3
151	73.2	59.4	89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#10

Methyl Iodide

Concen: 147.384 ug/l

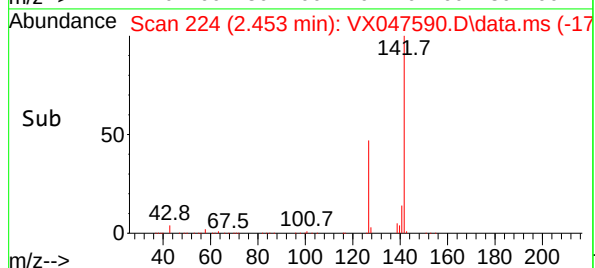
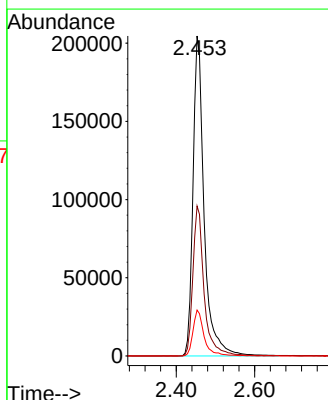
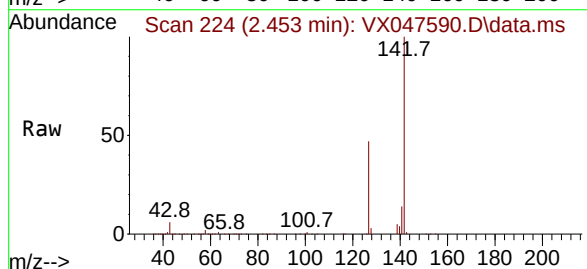
RT: 2.453 min Scan# 224

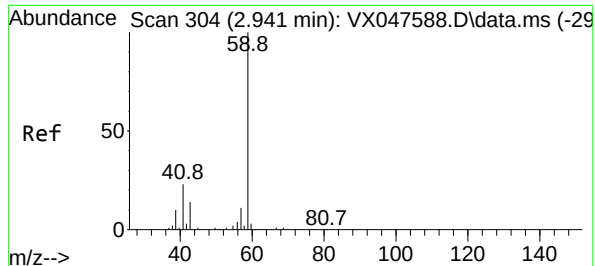
Delta R.T. -0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

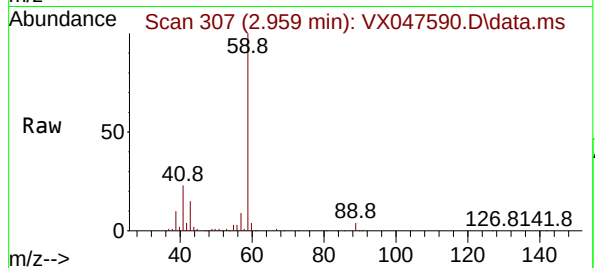
Tgt Ion	142	Resp	407242
Ion Ratio	Lower	Upper	
142	100		
127	47.3	37.2	55.8
141	14.3	11.4	17.0





#11
Tert butyl alcohol
Concen: 795.166 ug/l
RT: 2.959 min Scan# 304
Delta R.T. 0.018 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

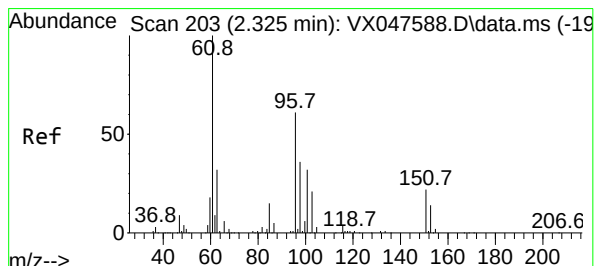
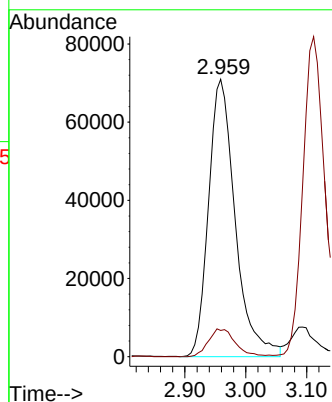
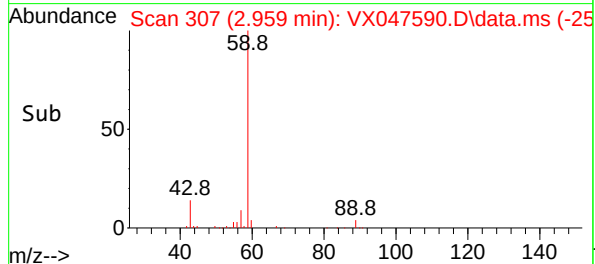
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



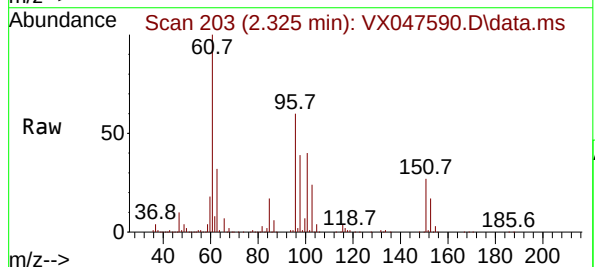
Tgt Ion: 59 Resp: 21592
Ion Ratio Lower Upper
59 100
57 10.2 8.3 12.5

Manual Integrations
APPROVED

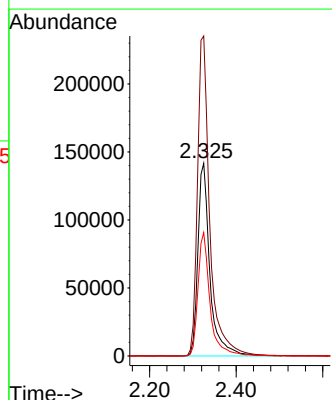
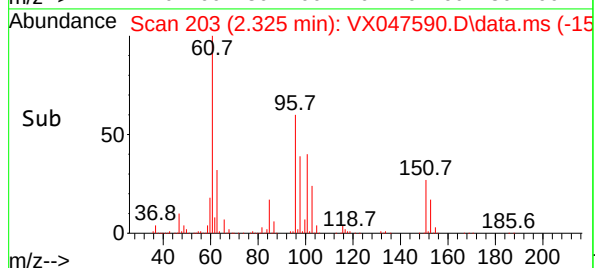
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

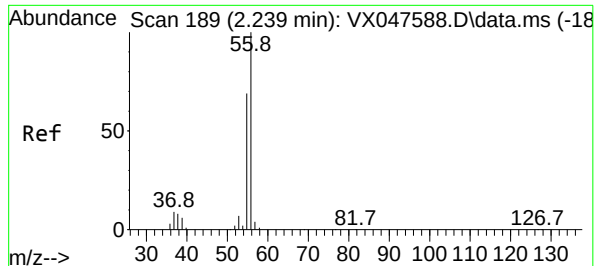


#12
1,1-Dichloroethene
Concen: 150.388 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



Tgt Ion: 96 Resp: 273692
Ion Ratio Lower Upper
96 100
61 166.1 131.0 196.6
98 64.0 47.7 71.5





#13

Acrolein

Concen: 894.203 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 22376

Ion Ratio Lower Upper

56 100

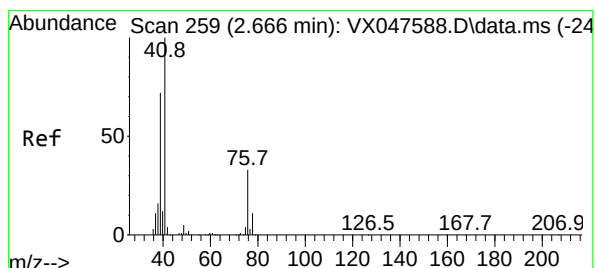
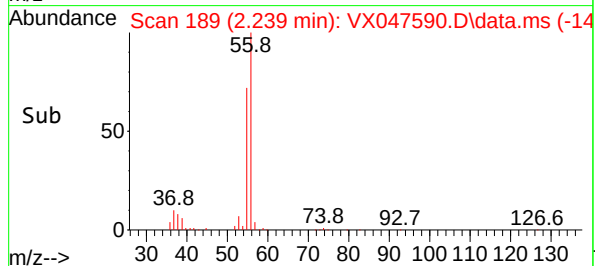
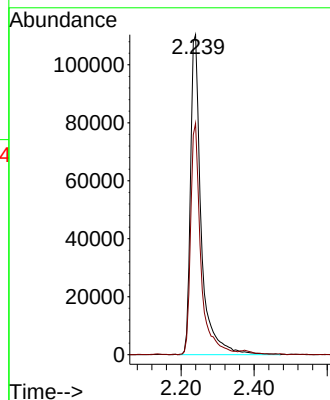
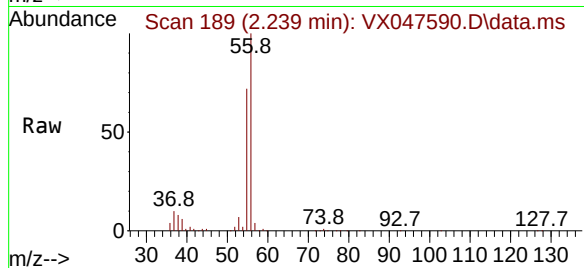
55 69.6 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 147.727 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

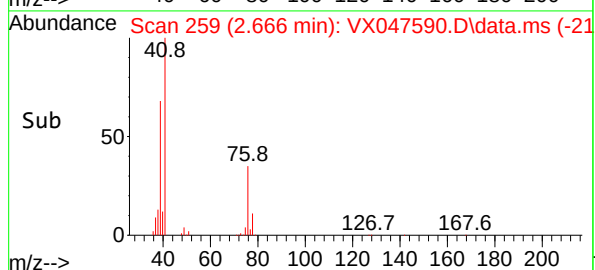
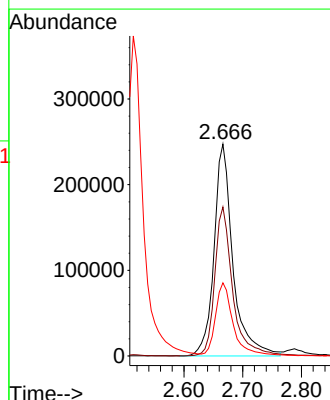
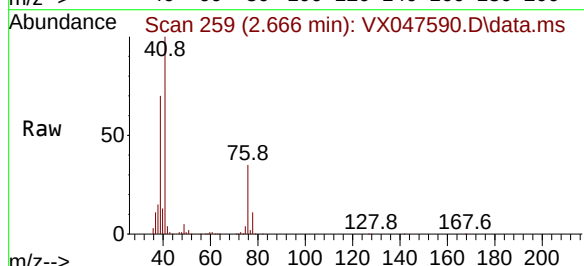
Tgt Ion: 41 Resp: 554779

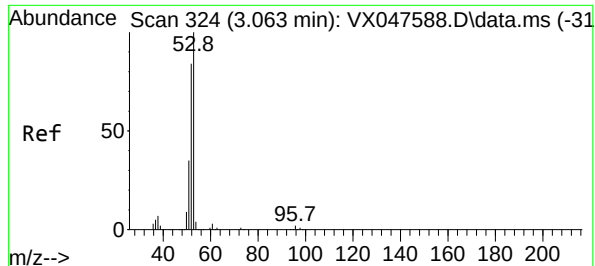
Ion Ratio Lower Upper

41 100

39 67.3 54.7 82.1

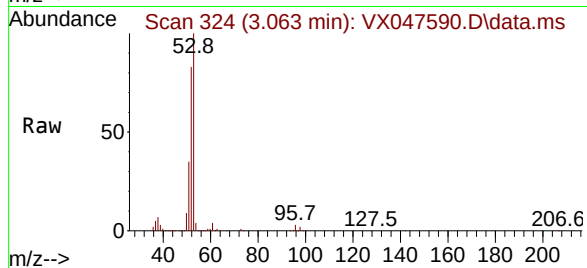
76 32.4 25.7 38.5





#15
Acrylonitrile
Concen: 786.201 ug/l
RT: 3.063 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

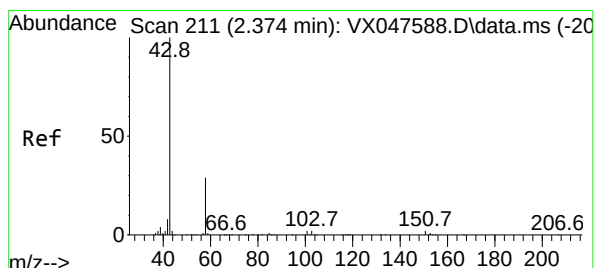
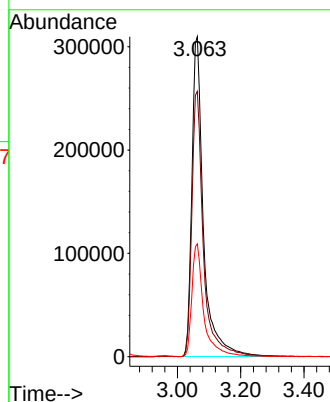
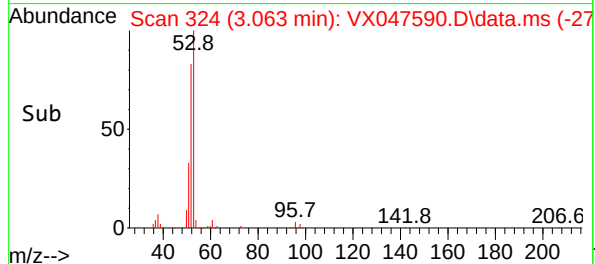
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 53 Resp: 790790
Ion Ratio Lower Upper
53 100
52 82.6 66.4 99.6
51 36.1 29.5 44.3

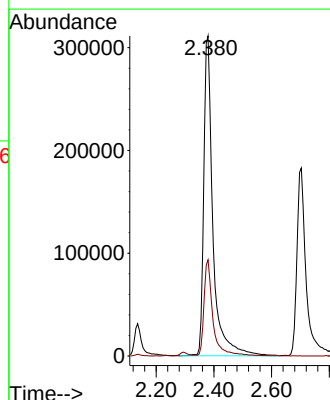
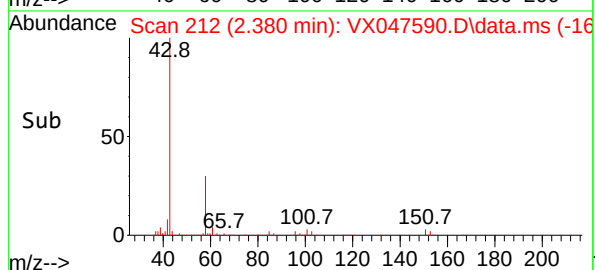
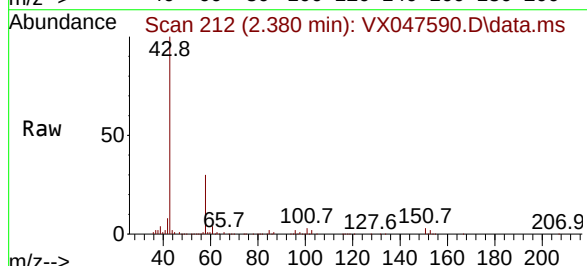
Manual Integrations
APPROVED

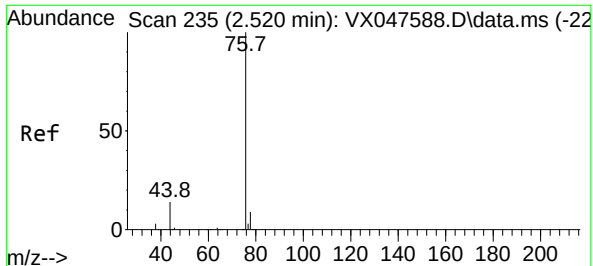
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#16
Acetone
Concen: 647.201 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 686119
Ion Ratio Lower Upper
43 100
58 30.0 23.4 35.0





#17

Carbon Disulfide

Concen: 143.412 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 71450

Ion Ratio Lower Upper

76 100

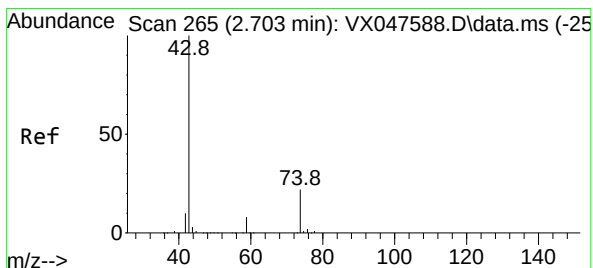
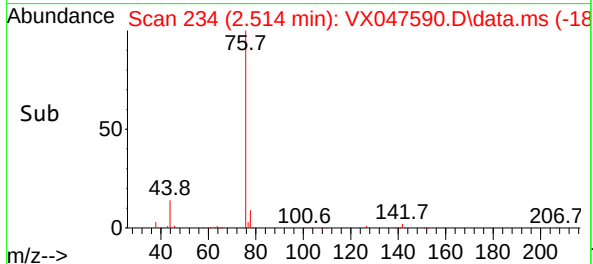
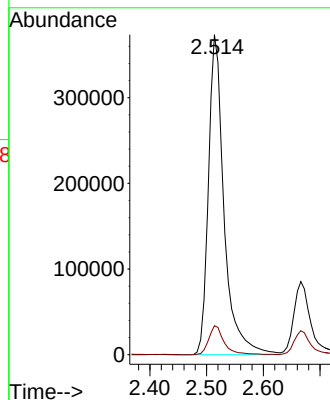
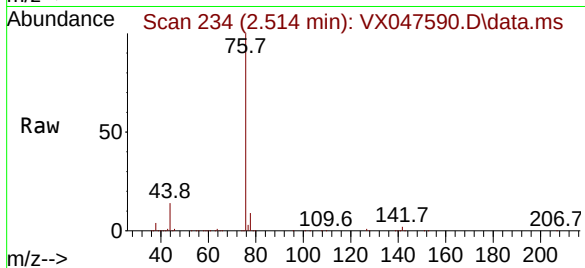
78 9.0 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 171.548 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX047590.D

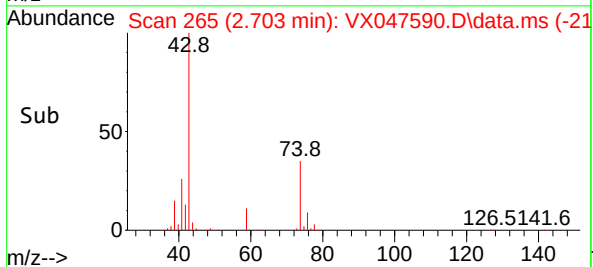
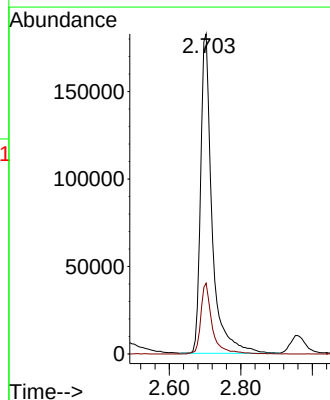
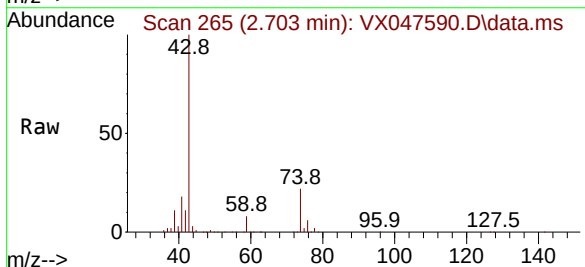
Acq: 16 Sep 2025 12:01

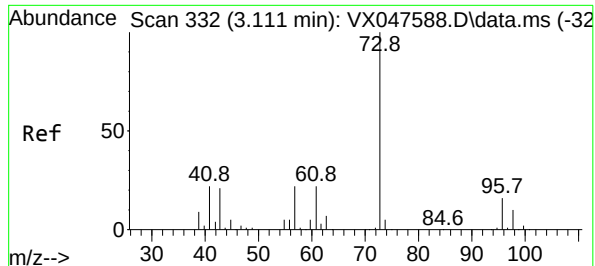
Tgt Ion: 43 Resp: 404736

Ion Ratio Lower Upper

43 100

74 22.1 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 152.826 ug/l

RT: 3.111 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 73 Resp: 101529

Ion Ratio Lower Upper

73 100

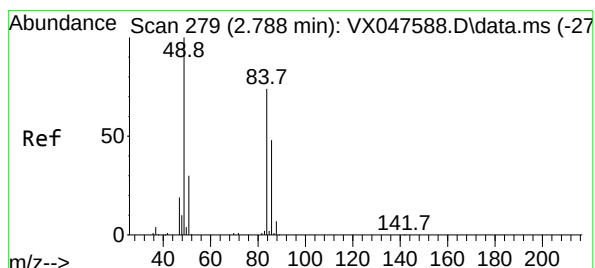
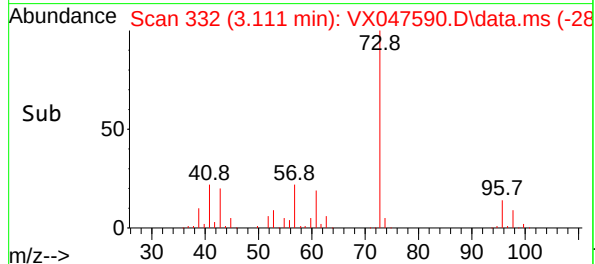
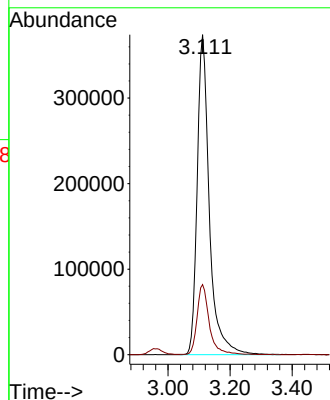
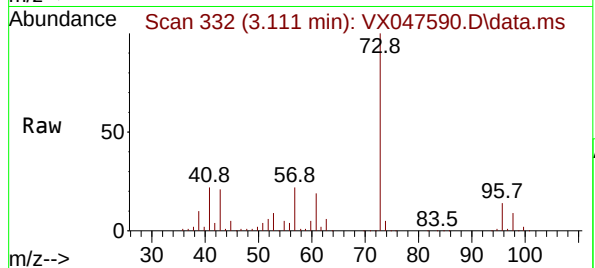
57 21.9 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 144.398 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Tgt Ion: 84 Resp: 324032

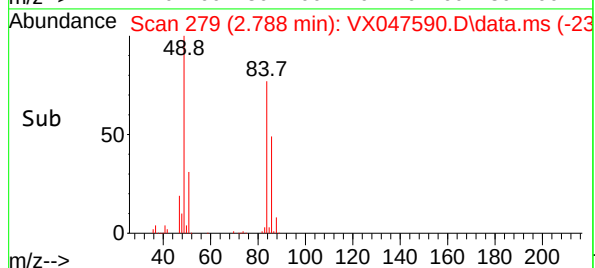
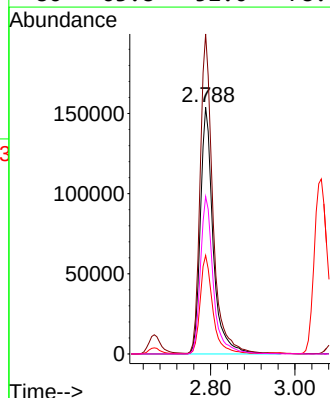
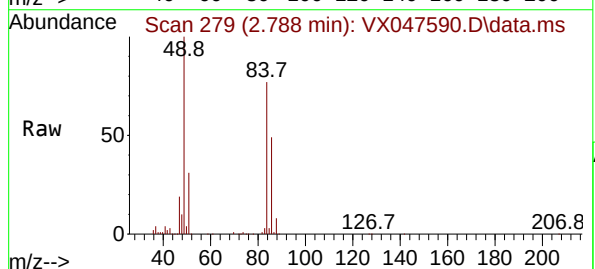
Ion Ratio Lower Upper

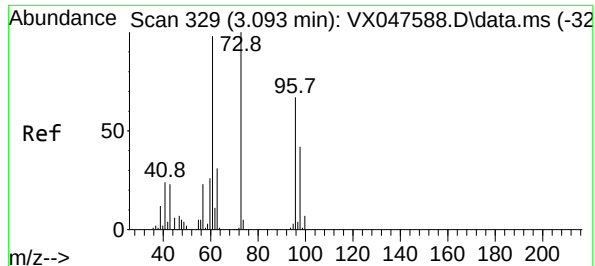
84 100

49 129.4 108.6 162.8

51 39.9 32.6 48.8

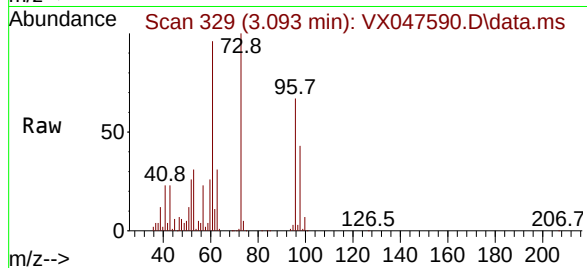
86 63.8 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 148.833 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

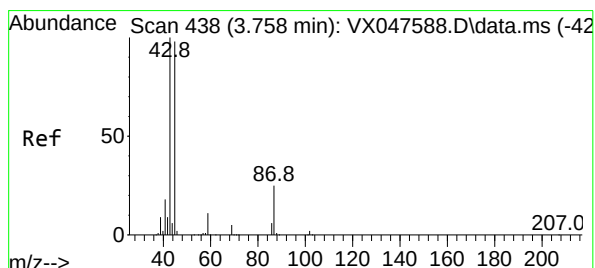
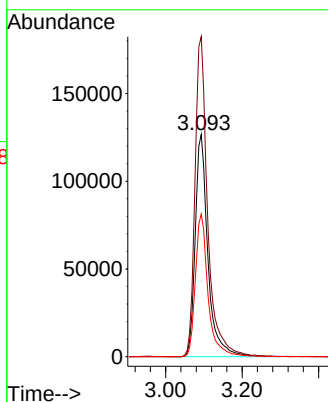
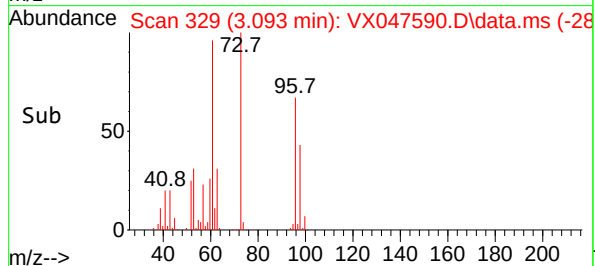
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 96 Resp: 291610
Ion Ratio Lower Upper
96 100
61 144.0 116.2 174.2
98 64.3 49.3 73.9

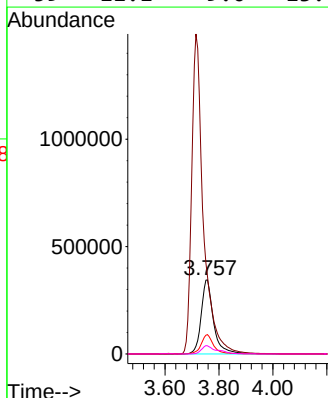
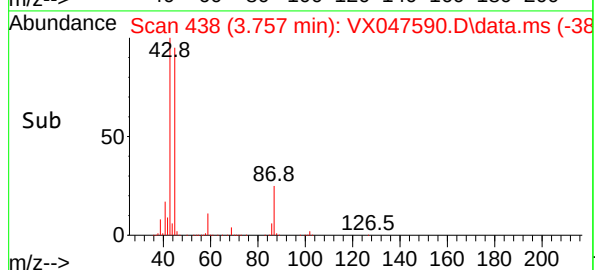
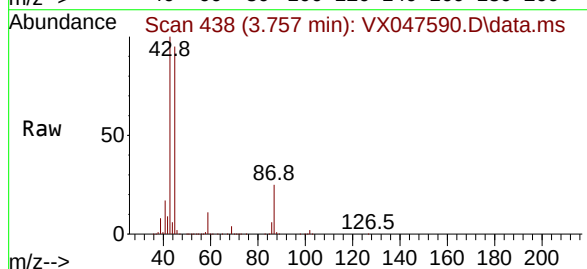
Manual Integrations
APPROVED

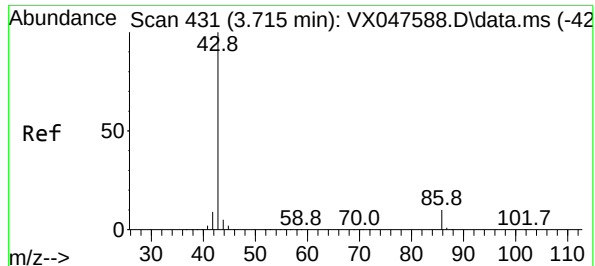
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 150.551 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

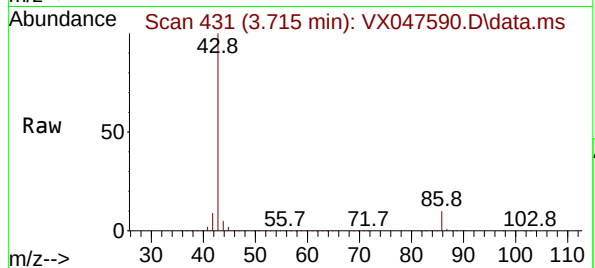
Tgt Ion: 45 Resp: 1095726
Ion Ratio Lower Upper
45 100
43 104.7 81.0 121.4
87 26.2 20.3 30.5
59 11.1 9.0 13.4





#23
Vinyl Acetate
Concen: 773.364 ug/l
RT: 3.715 min Scan# 411
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

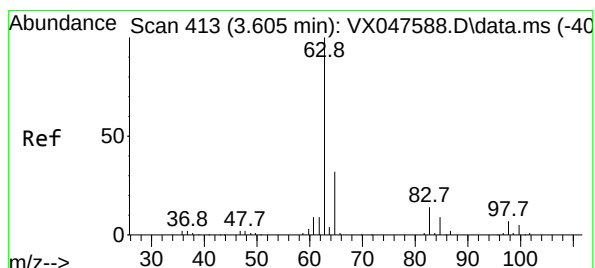
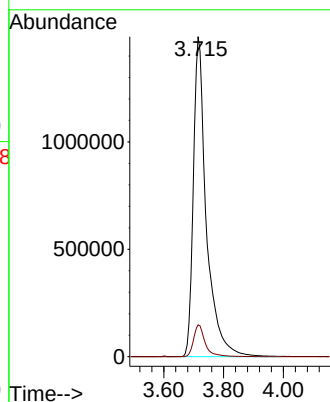
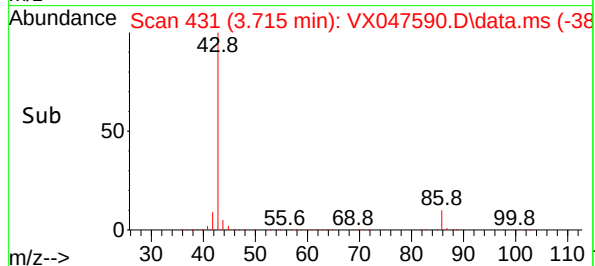
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



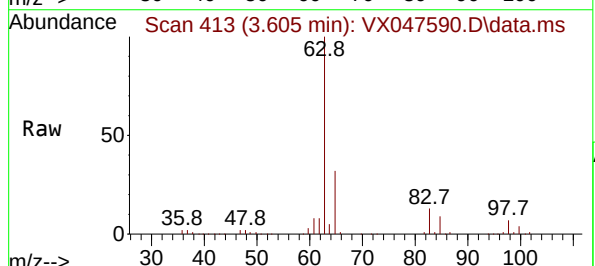
Tgt Ion: 43 Resp: 4504849
Ion Ratio Lower Upper
43 100
86 10.0 7.8 11.8

Manual Integrations
APPROVED

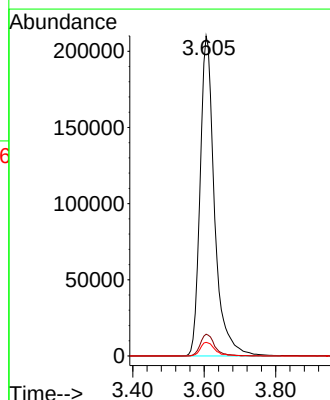
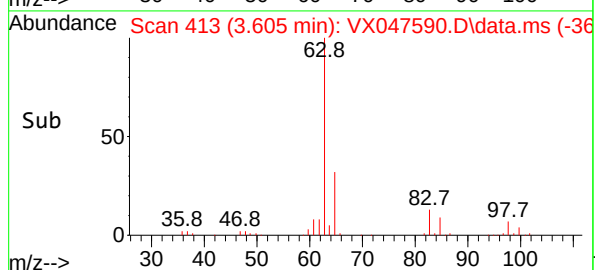
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

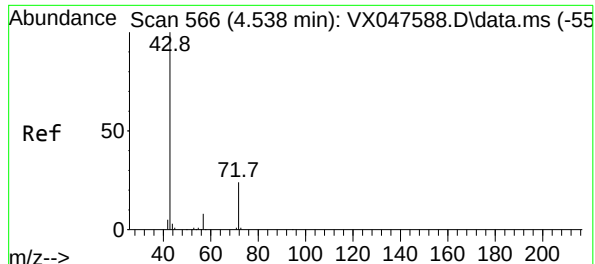


#24
1,1-Dichloroethane
Concen: 151.776 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



Tgt Ion: 63 Resp: 587129
Ion Ratio Lower Upper
63 100
98 6.8 3.8 11.2
100 4.3 2.3 6.9





#25

2-Butanone

Concen: 736.502 ug/l

RT: 4.544 min Scan# 50

Delta R.T. 0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 973938

Ion Ratio Lower Upper

43 100

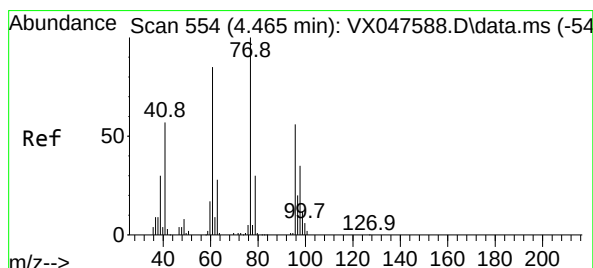
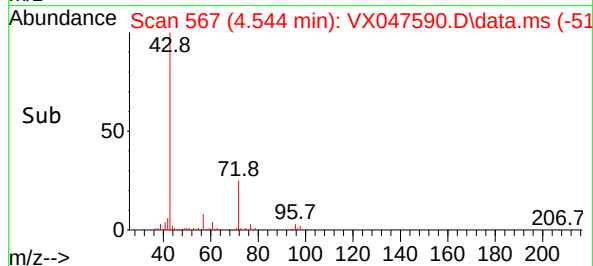
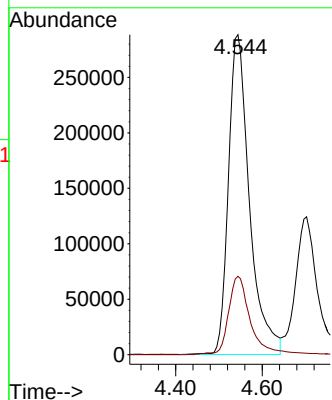
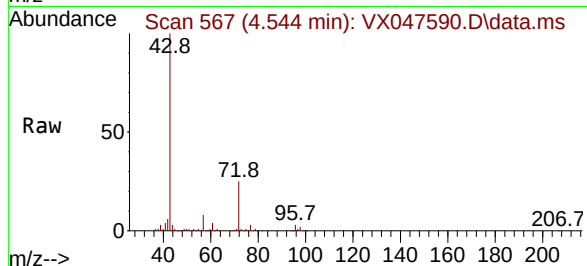
72 24.6 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 151.414 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX047590.D

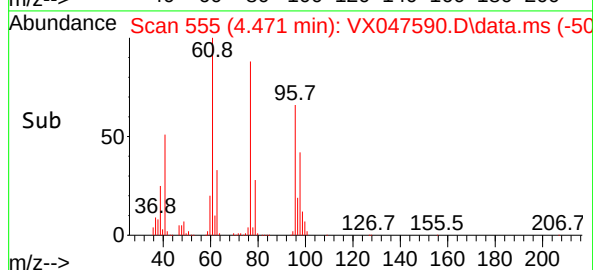
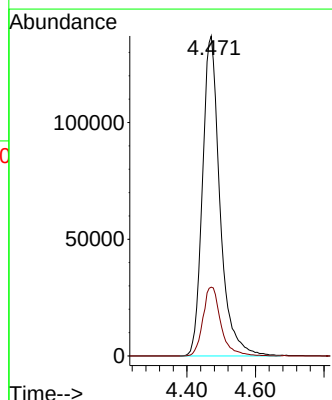
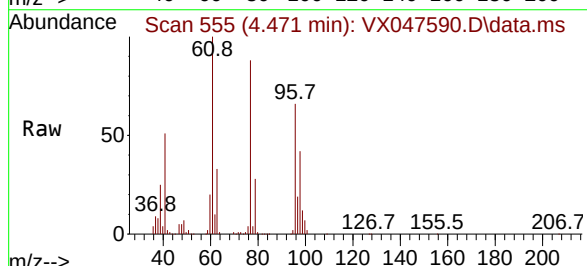
Acq: 16 Sep 2025 12:01

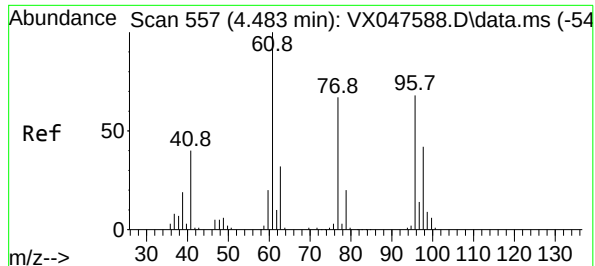
Tgt Ion: 77 Resp: 486890

Ion Ratio Lower Upper

77 100

97 22.1 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 152.638 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 366262

Ion Ratio Lower Upper

96 100

61 149.8 0.0 303.2

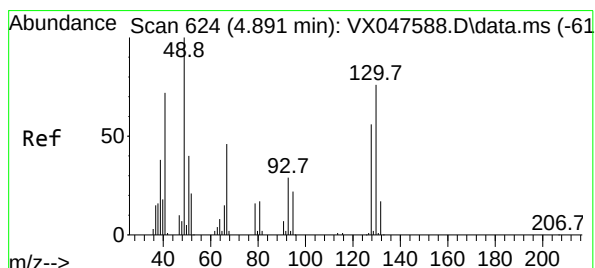
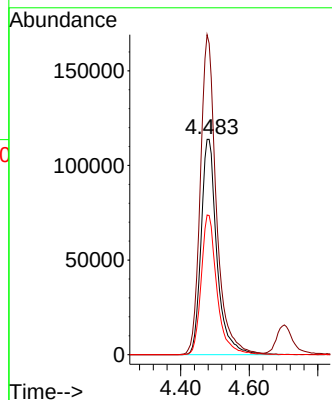
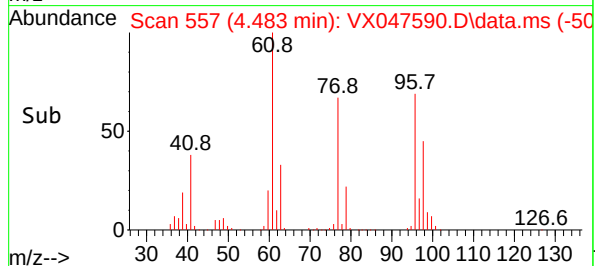
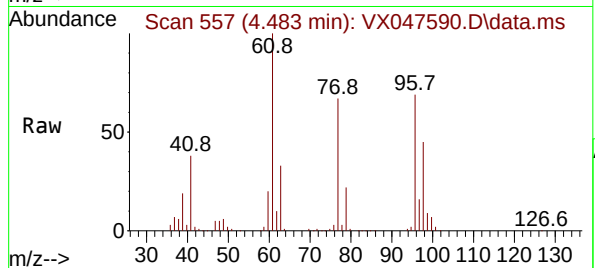
98 64.6 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 171.451 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

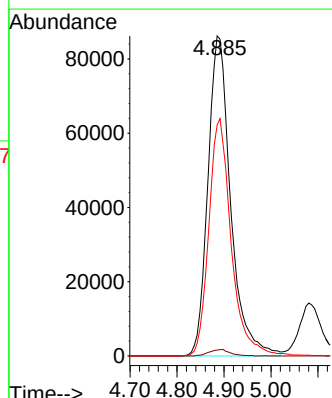
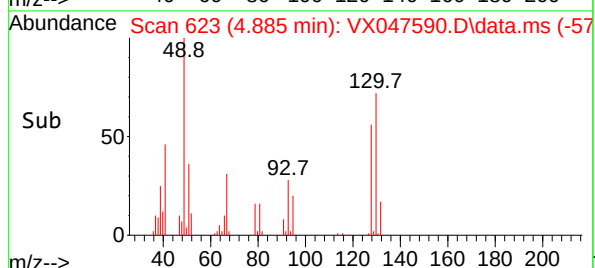
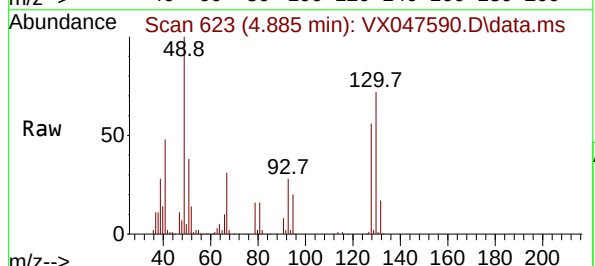
Tgt Ion: 49 Resp: 289548

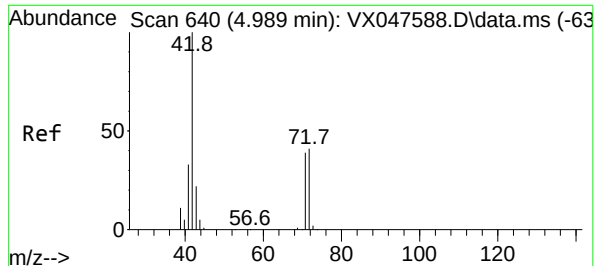
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.2

130 73.2 57.8 86.8





#29

Tetrahydrofuran

Concen: 774.811 ug/l

RT: 4.989 min Scan# 640

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 616374

Ion Ratio Lower Upper

42 100

72 42.8 34.2 51.2

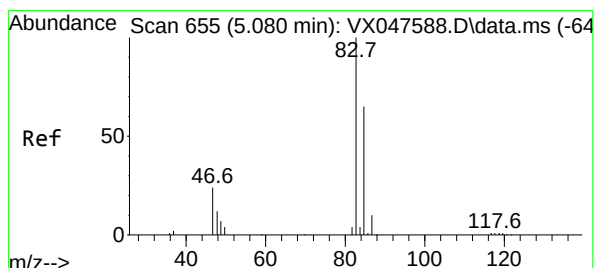
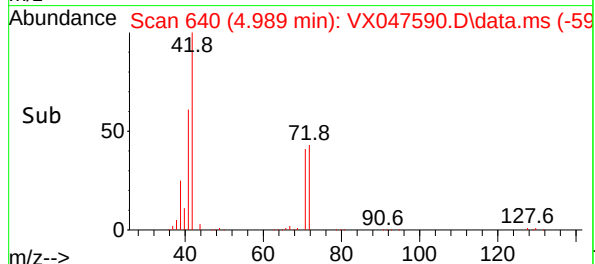
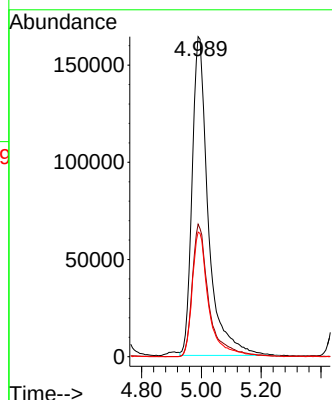
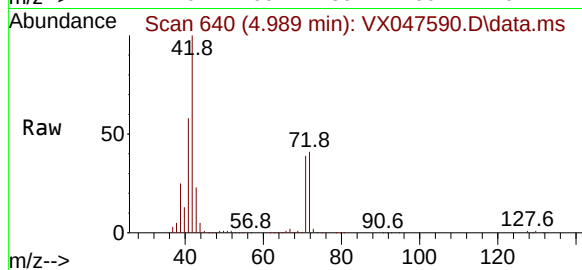
71 39.9 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 151.367 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.000 min

Lab File: VX047590.D

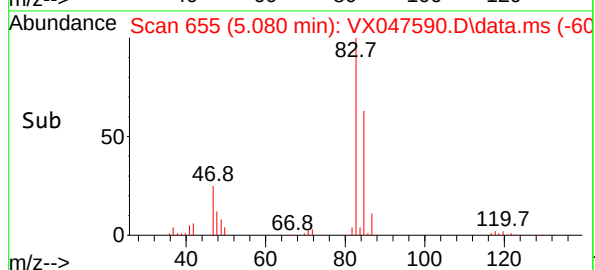
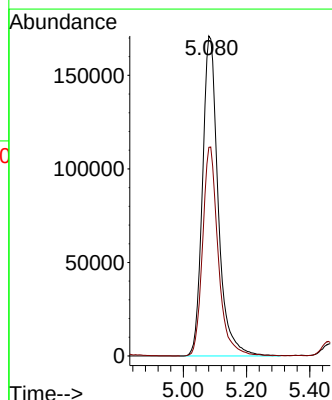
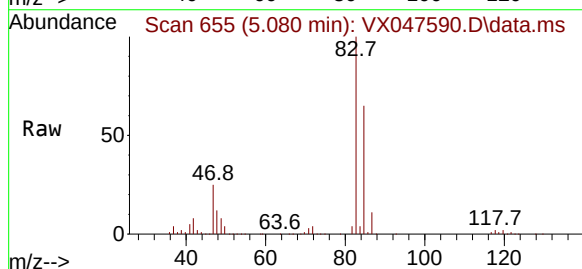
Acq: 16 Sep 2025 12:01

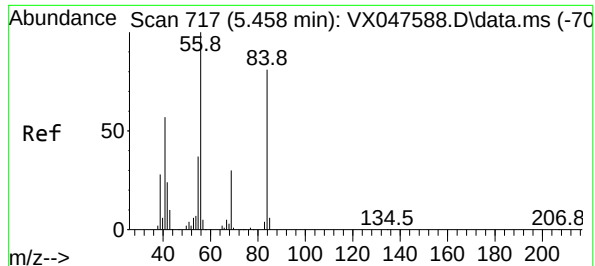
Tgt Ion: 83 Resp: 591709

Ion Ratio Lower Upper

83 100

85 65.2 51.8 77.6





#31

Cyclohexane

Concen: 141.570 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 456119

Ion Ratio Lower Upper

56 100

69 30.5 23.8 35.8

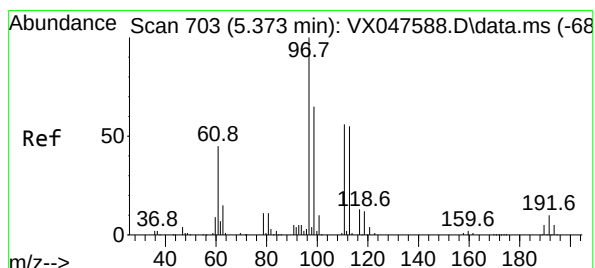
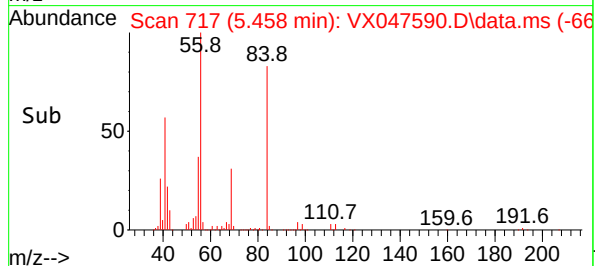
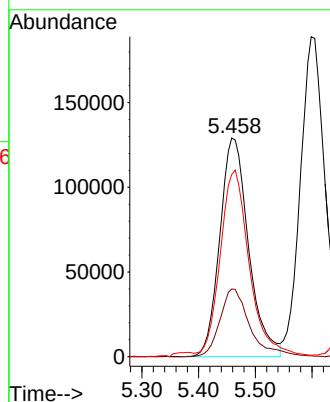
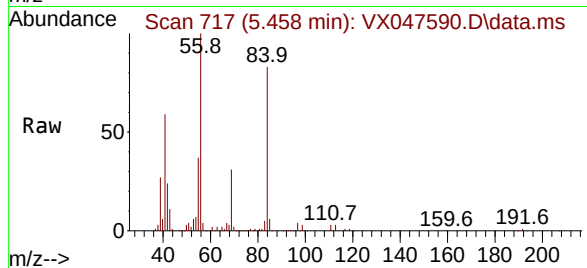
84 81.5 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#32

1,1,1-Trichloroethane

Concen: 152.802 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

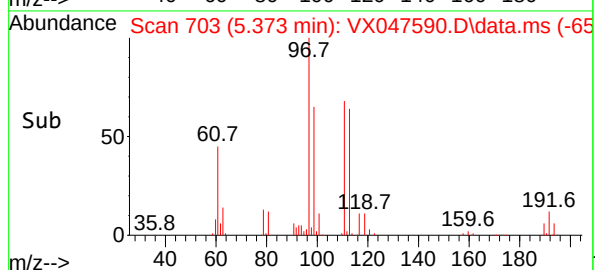
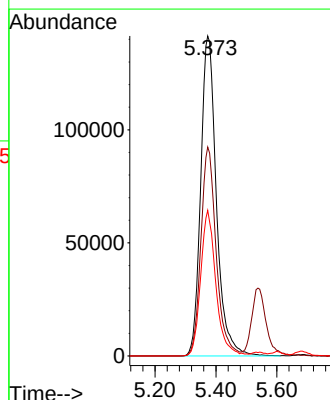
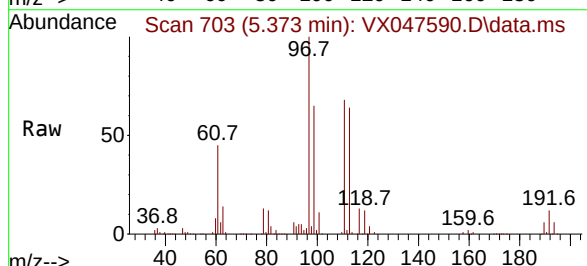
Tgt Ion: 97 Resp: 506654

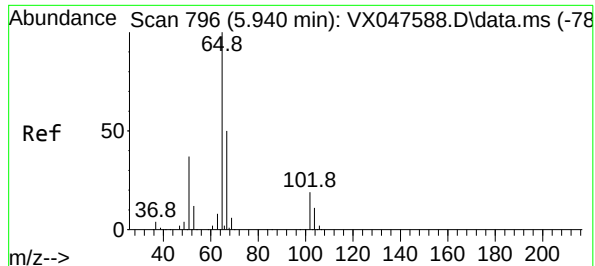
Ion Ratio Lower Upper

97 100

99 63.6 50.6 76.0

61 44.2 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 162.673 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 39662

Ion Ratio Lower Upper

65 100

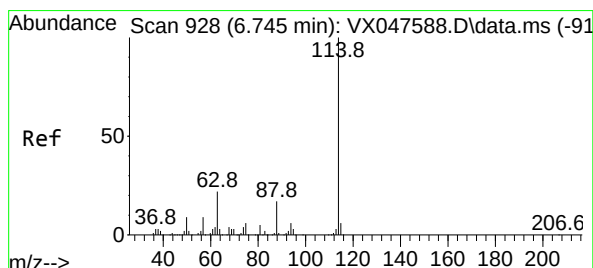
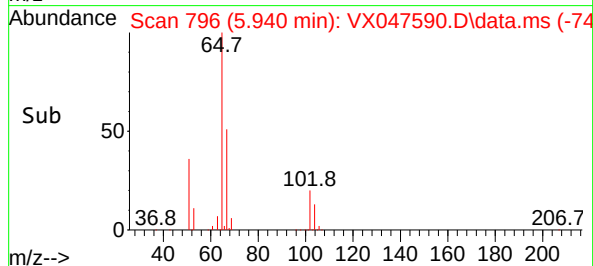
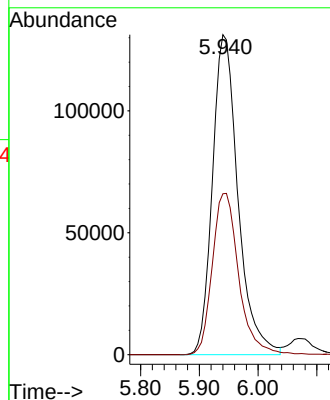
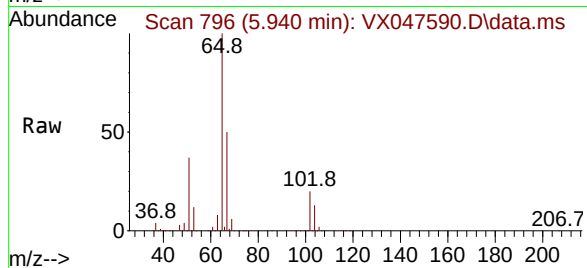
67 52.3 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

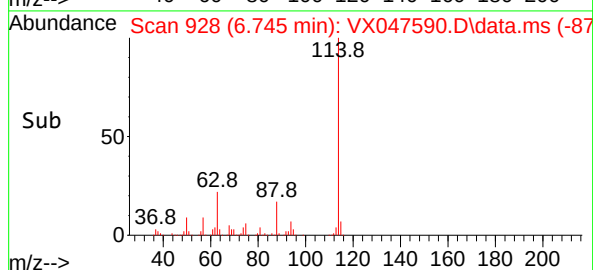
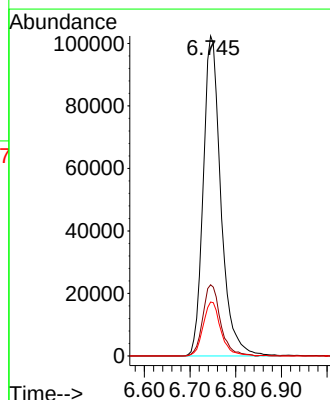
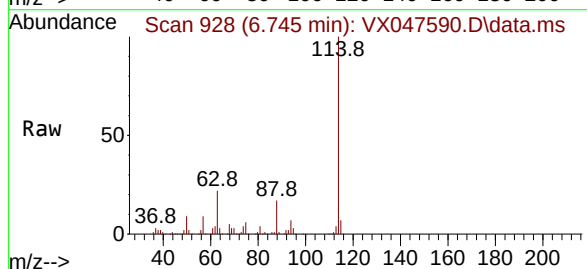
Tgt Ion:114 Resp: 274804

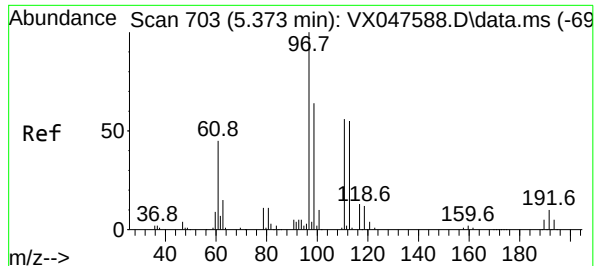
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 16.8 0.0 34.2





#35

Dibromofluoromethane

Concen: 164.802 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:113 Resp: 303728

Ion Ratio Lower Upper

113 100

111 102.4 80.9 121.3

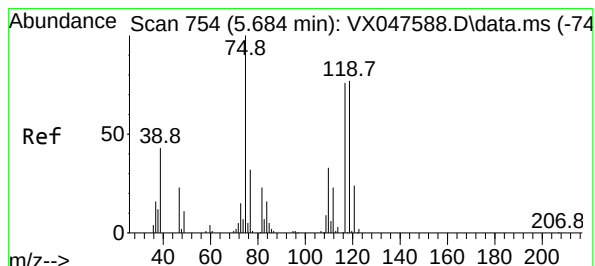
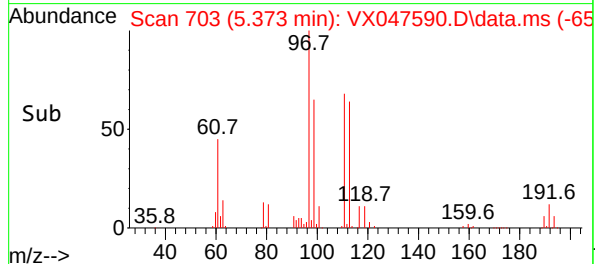
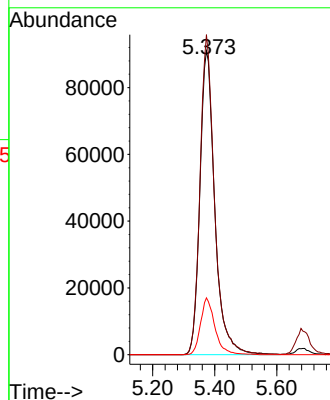
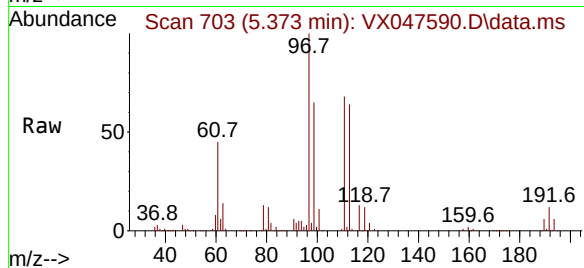
192 18.1 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 143.556 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

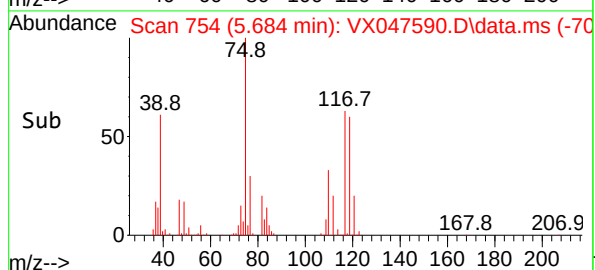
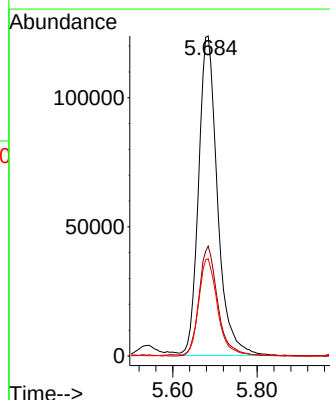
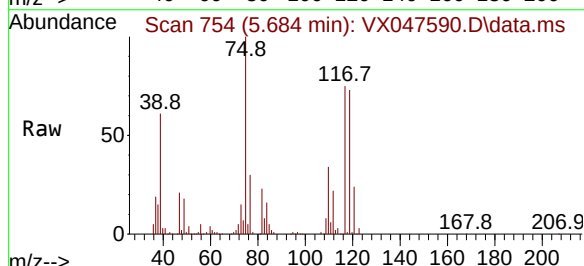
Tgt Ion: 75 Resp: 386601

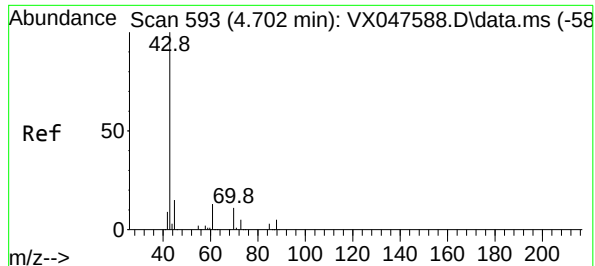
Ion Ratio Lower Upper

75 100

110 33.9 16.7 50.1

77 30.6 24.3 36.5





#37

Ethyl Acetate

Concen: 154.141 ug/l

RT: 4.702 min Scan# 593

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 44446

Ion Ratio Lower Upper

43 100

61 12.1 9.8 14.8

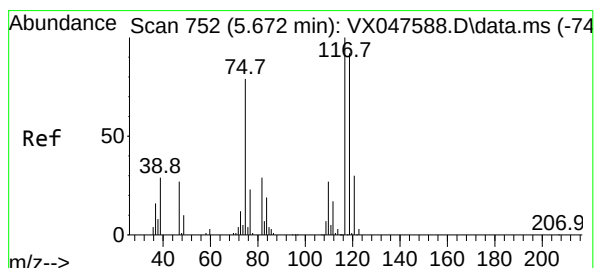
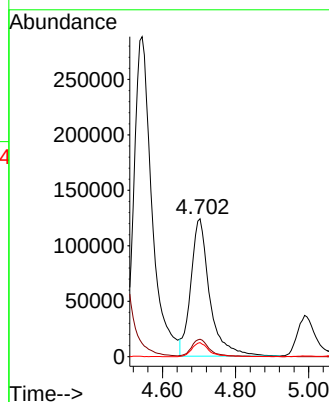
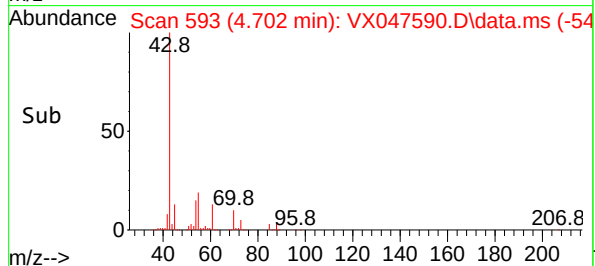
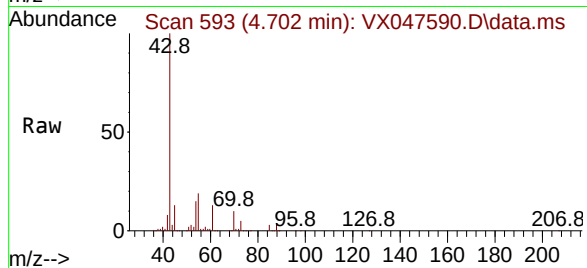
70 9.5 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 146.021 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

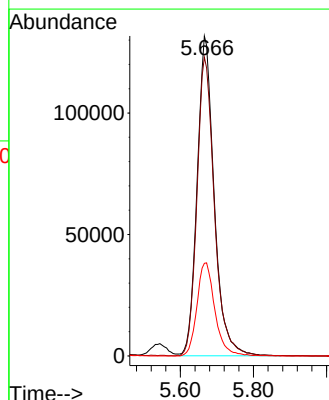
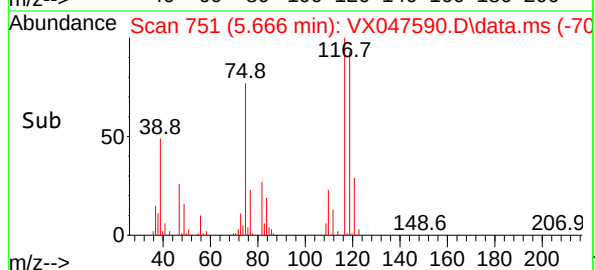
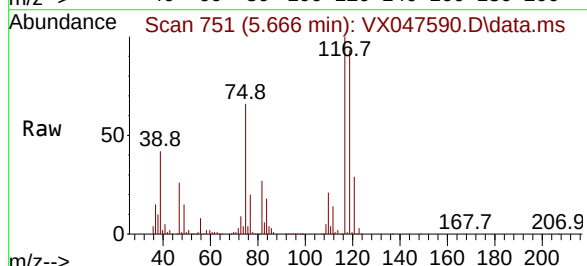
Tgt Ion:117 Resp: 427263

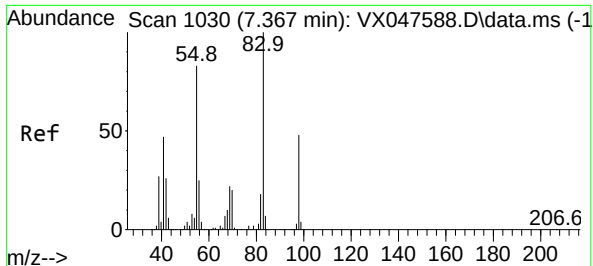
Ion Ratio Lower Upper

117 100

119 93.3 73.4 110.2

121 29.0 23.8 35.6





#39

Methylcyclohexane

Concen: 149.395 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 456694

Ion Ratio Lower Upper

83 100

55 80.7 66.4 99.6

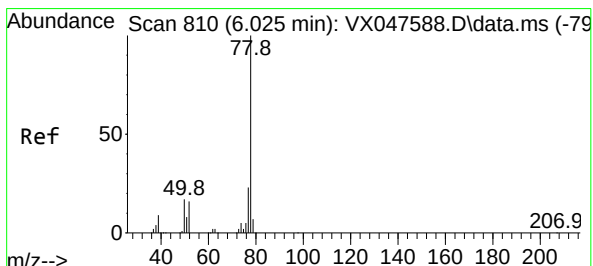
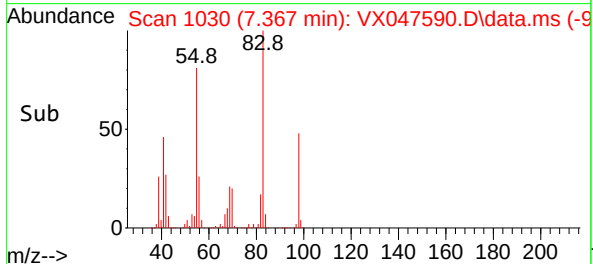
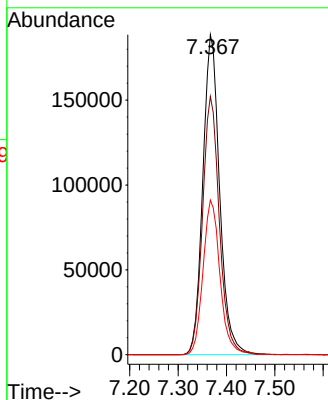
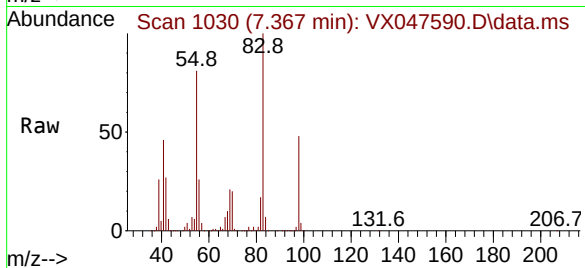
98 48.3 38.1 57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 147.057 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.000 min

Lab File: VX047590.D

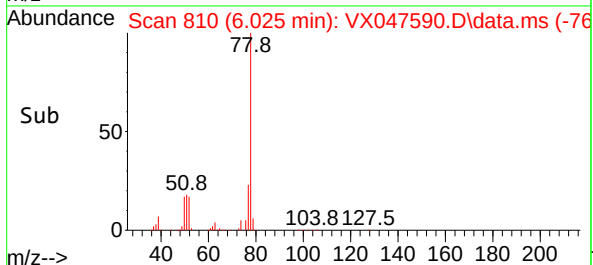
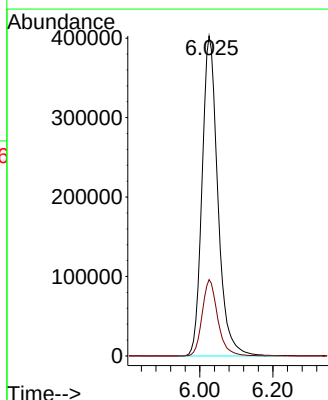
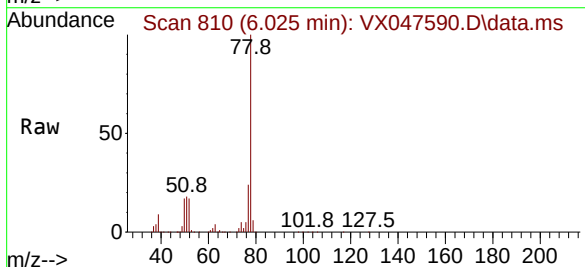
Acq: 16 Sep 2025 12:01

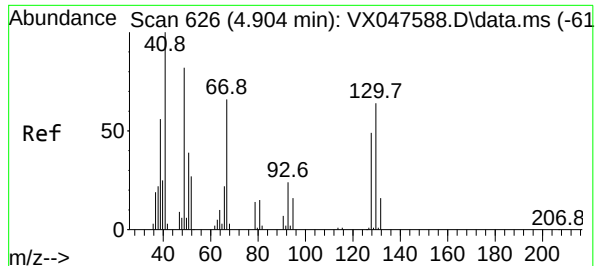
Tgt Ion: 78 Resp: 1202846

Ion Ratio Lower Upper

78 100

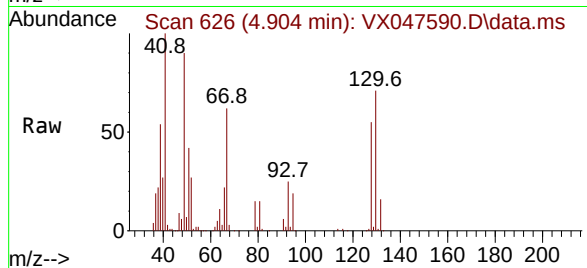
77 23.9 18.8 28.2





#41
Methacrylonitrile
Concen: 149.951 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

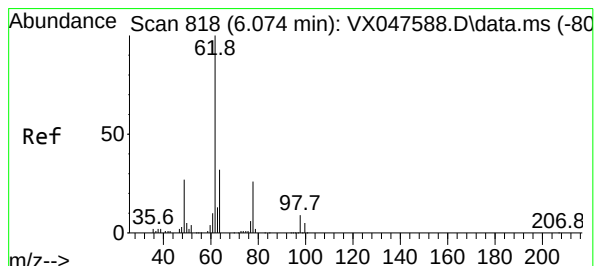
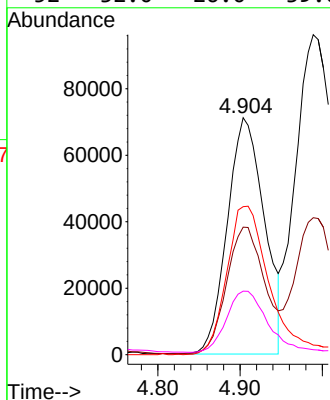
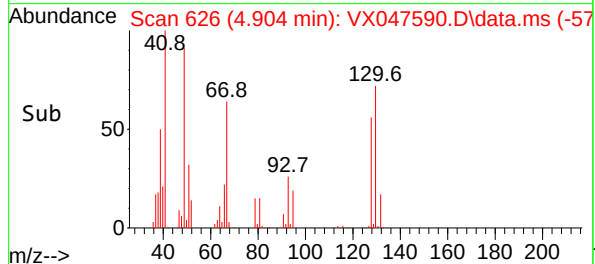
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 41 Resp: 223218
Ion Ratio Lower Upper
41 100
39 54.5 43.3 64.9
67 74.6 58.6 87.8
52 32.0 26.0 39.0

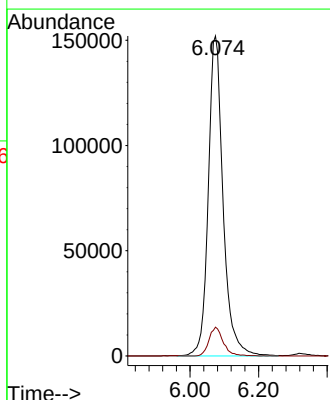
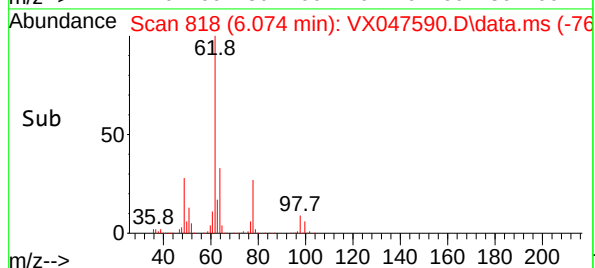
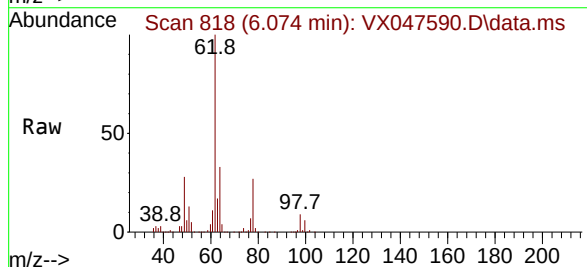
Manual Integrations
APPROVED

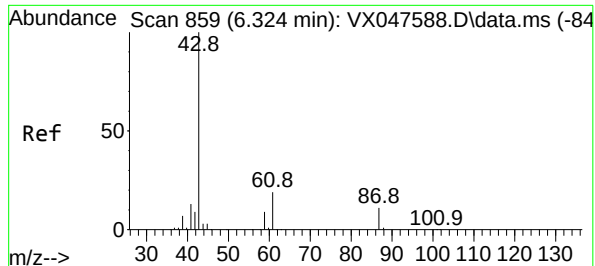
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#42
1,2-Dichloroethane
Concen: 146.515 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 455978
Ion Ratio Lower Upper
62 100
98 8.7 0.0 17.0





#43

Isopropyl Acetate

Concen: 153.283 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 72488

Ion Ratio Lower Upper

43 100

61 19.4 15.2 22.8

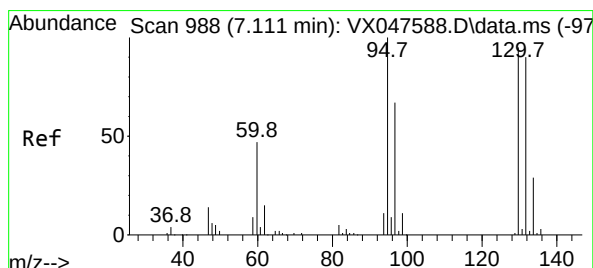
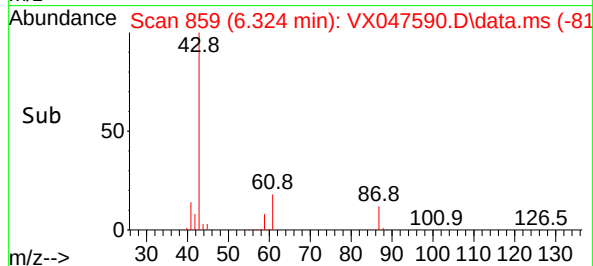
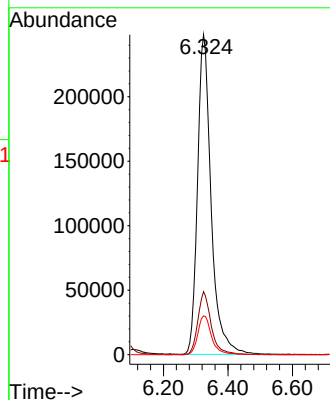
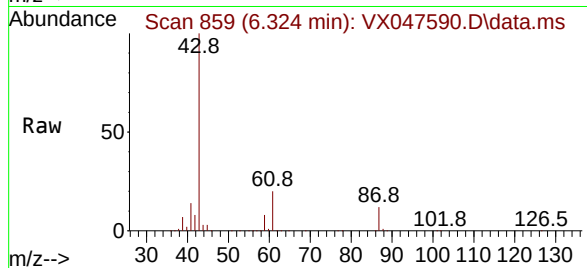
87 12.3 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 151.542 ug/l

RT: 7.111 min Scan# 988

Delta R.T. -0.000 min

Lab File: VX047590.D

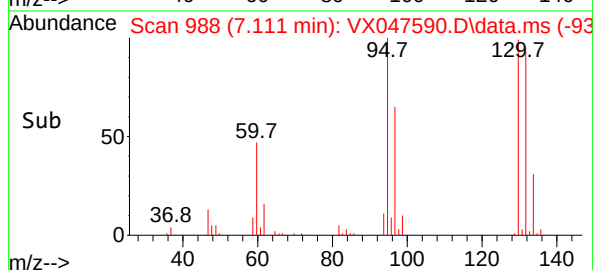
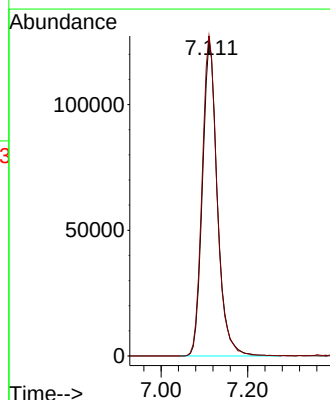
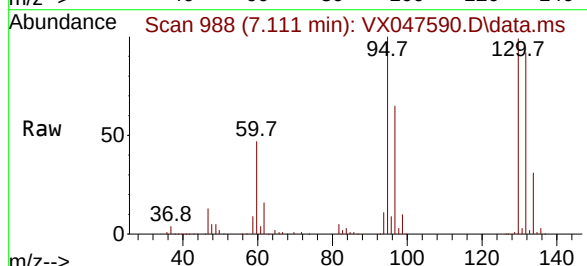
Acq: 16 Sep 2025 12:01

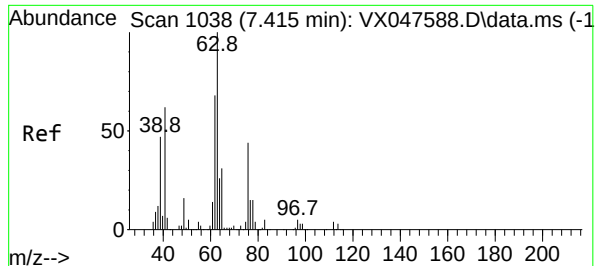
Tgt Ion:130 Resp: 299673

Ion Ratio Lower Upper

130 100

95 101.1 0.0 210.8





#45

1,2-Dichloropropane

Concen: 151.219 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 316720

Ion Ratio Lower Upper

63 100

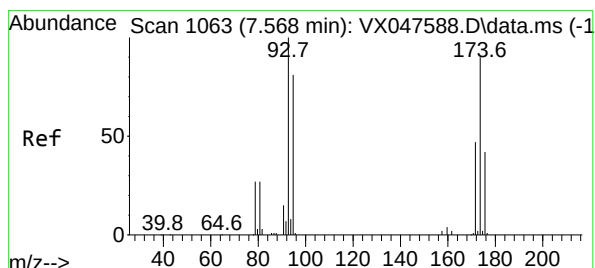
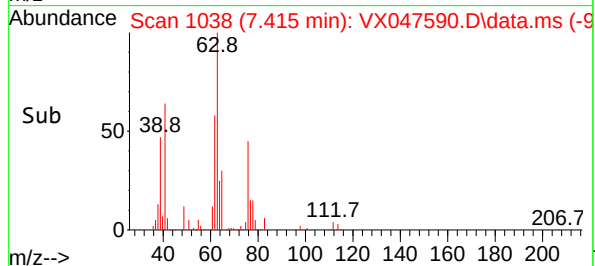
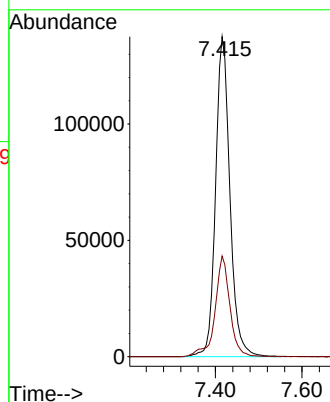
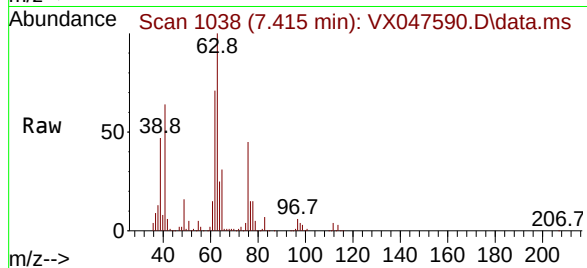
65 31.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 149.954 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

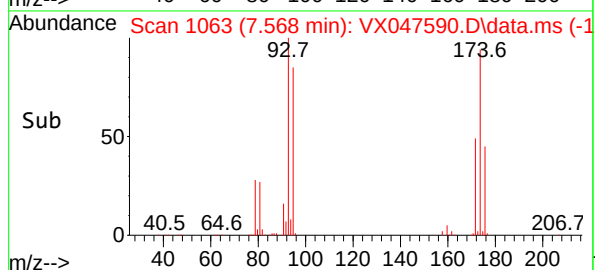
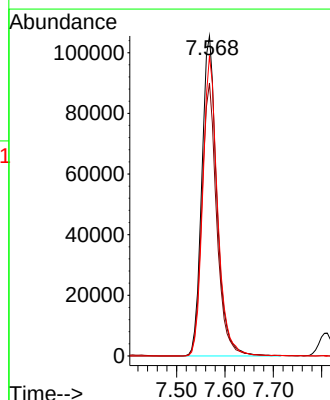
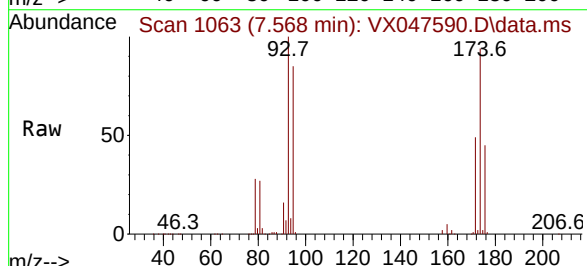
Tgt Ion: 93 Resp: 228550

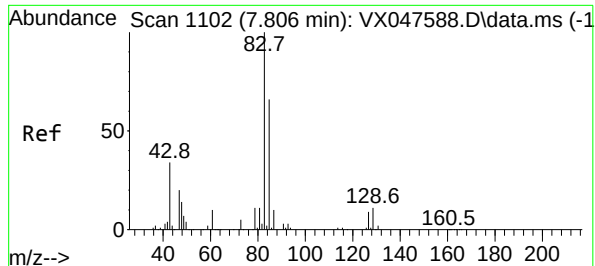
Ion Ratio Lower Upper

93 100

95 84.2 65.0 97.6

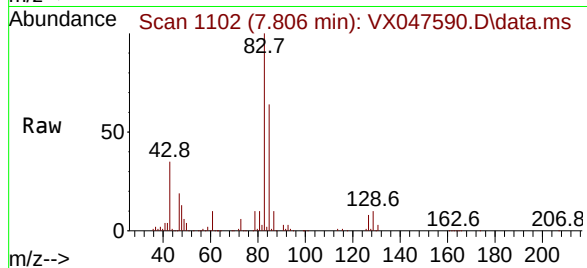
174 92.5 71.6 107.4





#47
Bromodichloromethane
Concen: 153.710 ug/l
RT: 7.806 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

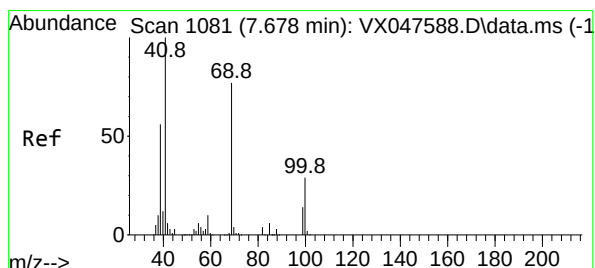
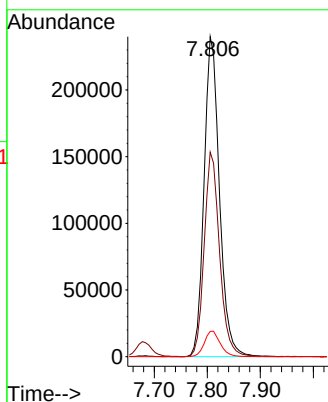
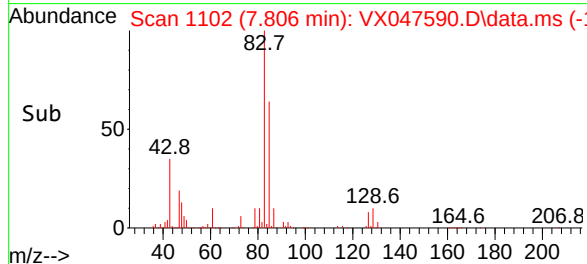
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 83 Resp: 483438
Ion Ratio Lower Upper
83 100
85 63.9 52.5 78.7
127 7.9 6.9 10.3

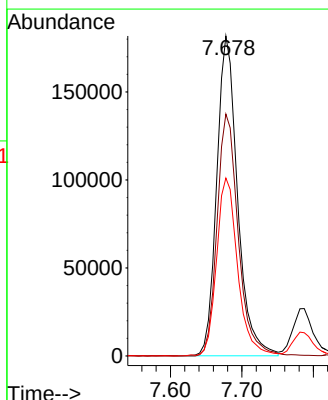
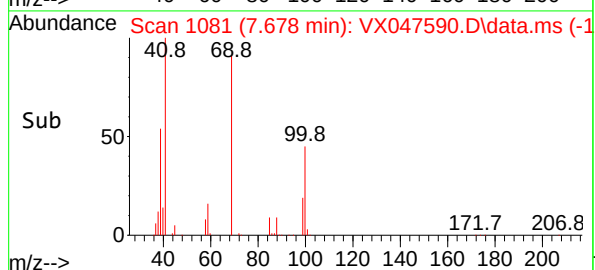
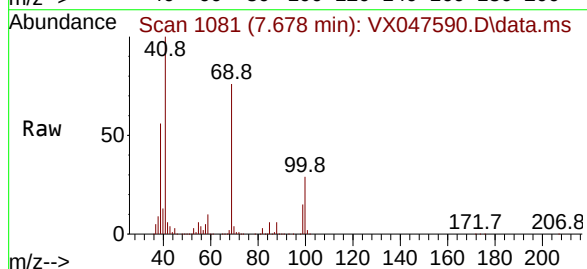
Manual Integrations
APPROVED

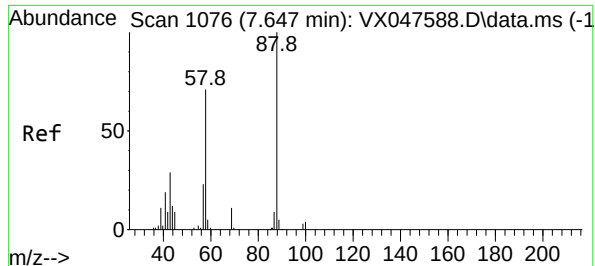
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#48
Methyl methacrylate
Concen: 156.194 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 367931
Ion Ratio Lower Upper
41 100
69 77.2 61.4 92.2
39 56.5 45.8 68.6





#49

1,4-Dioxane

Concen: 3475.565 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

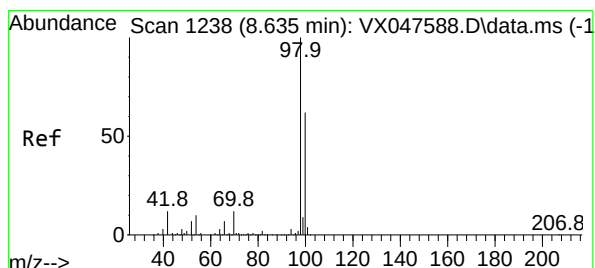
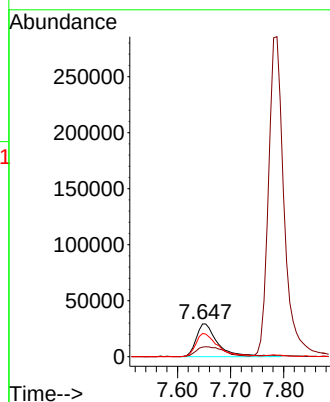
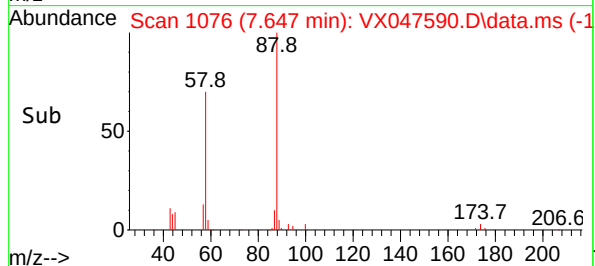
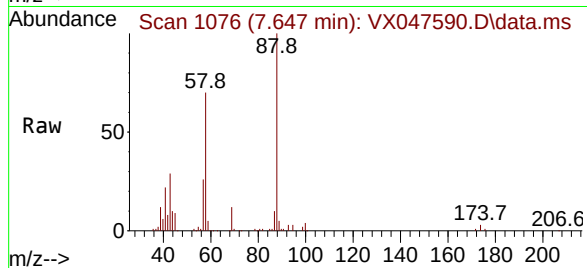
Tgt Ion:	88	Resp:	82739
Ion	Ratio	Lower	Upper
88	100		
43	38.5	30.2	45.2
58	73.0	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 163.253 ug/l

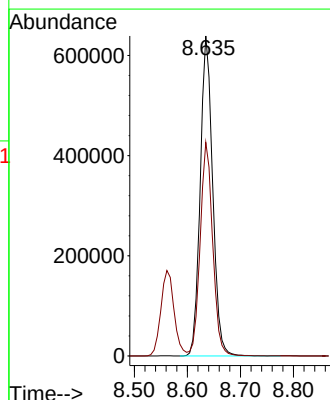
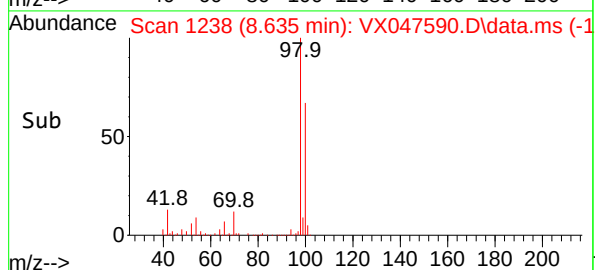
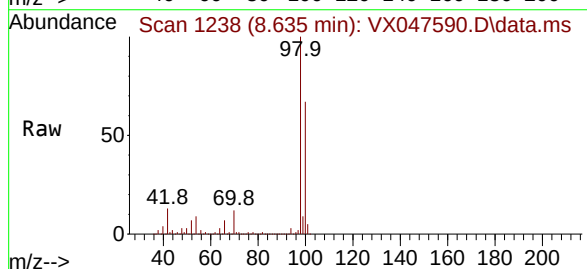
RT: 8.635 min Scan# 1238

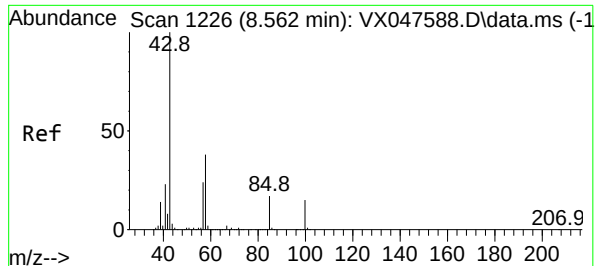
Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

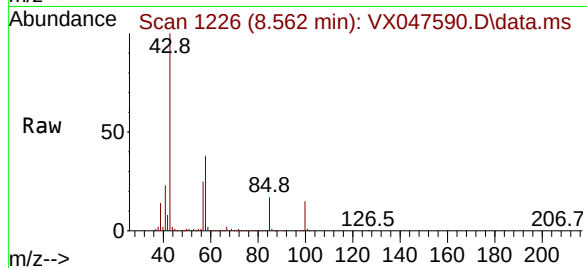
Tgt Ion:	98	Resp:	1041079
Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 765.849 ug/l
RT: 8.562 min Scan# 1226
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

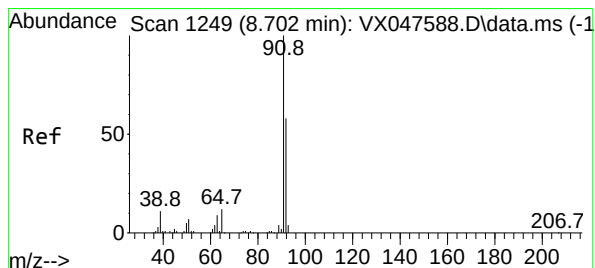
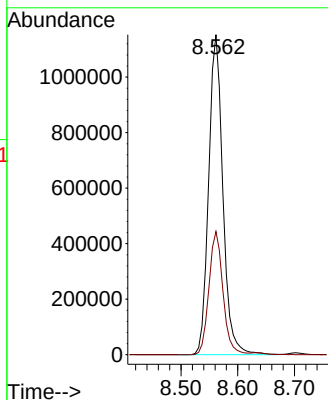
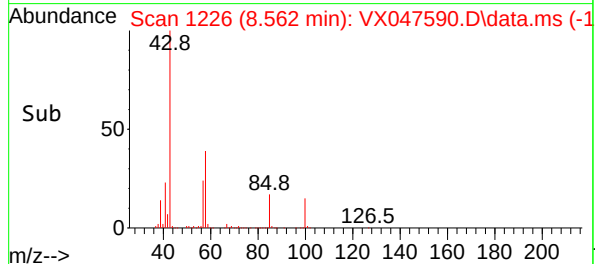
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 43 Resp: 200806
Ion Ratio Lower Upper
43 100
58 38.0 30.3 45.5

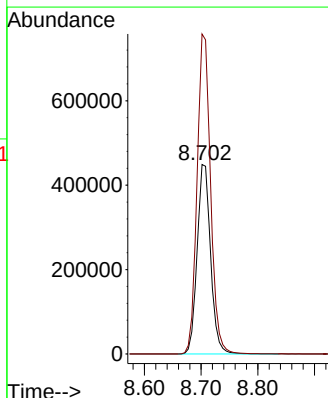
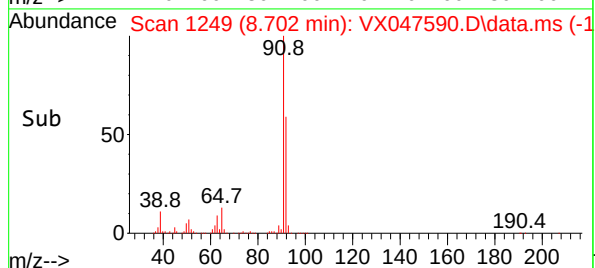
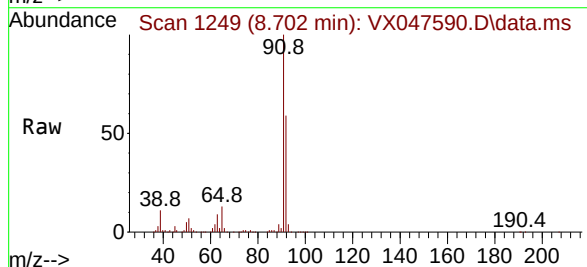
Manual Integrations
APPROVED

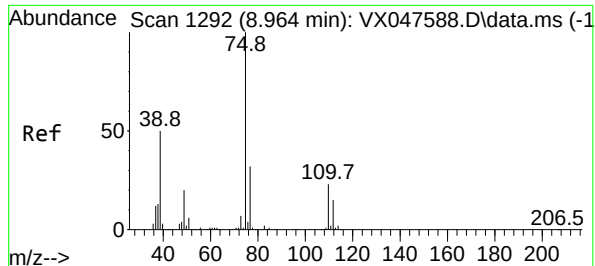
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 146.712 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 92 Resp: 739332
Ion Ratio Lower Upper
92 100
91 169.5 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 157.076 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 503912

Ion Ratio Lower Upper

75 100

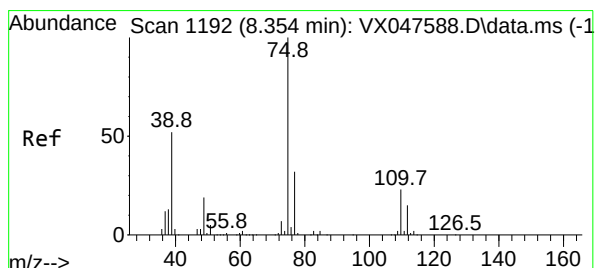
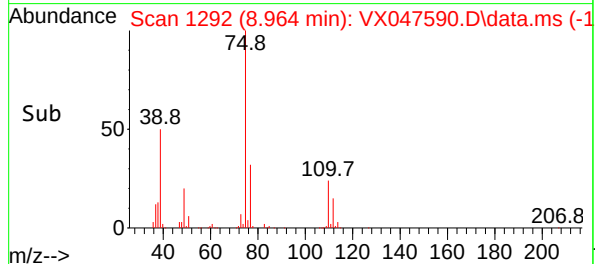
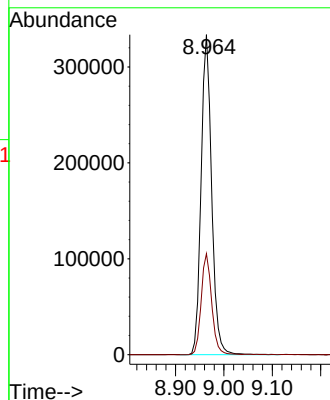
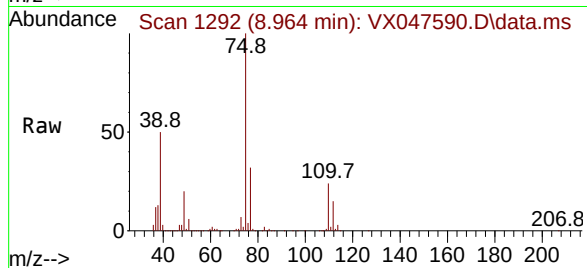
77 31.6 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 154.732 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

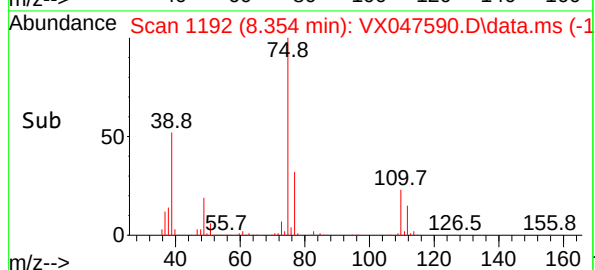
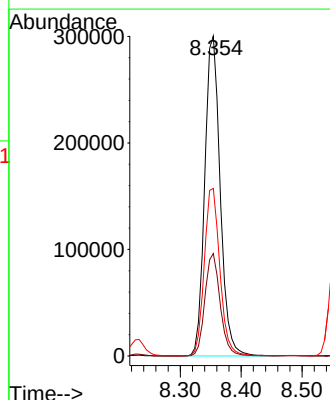
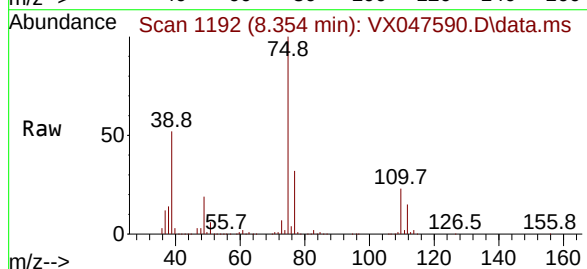
Tgt Ion: 75 Resp: 530566

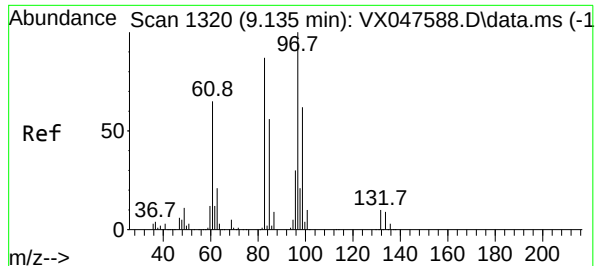
Ion Ratio Lower Upper

75 100

77 32.0 25.8 38.6

39 52.3 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 148.781 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 28910

Ion Ratio Lower Upper

97 100

83 86.1 69.6 104.4

85 56.8 45.0 67.6

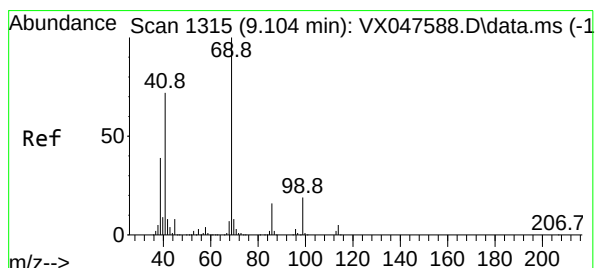
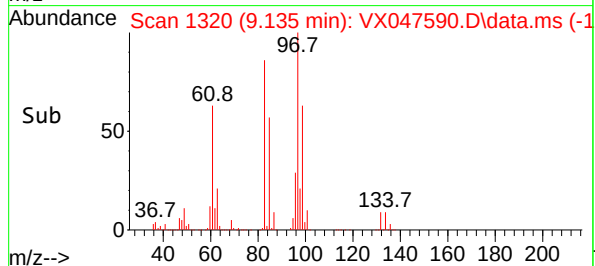
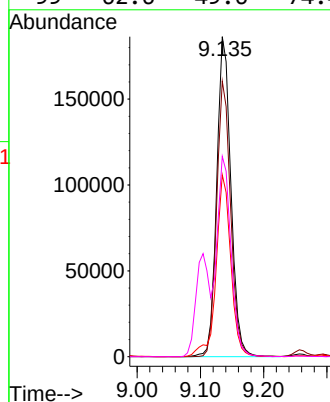
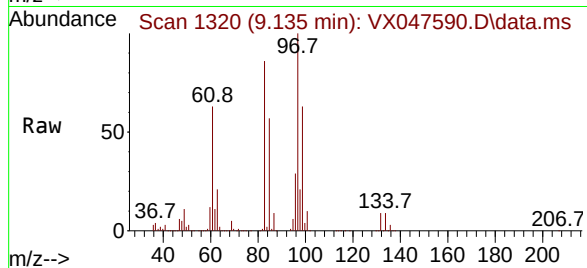
99 62.6 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 160.773 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

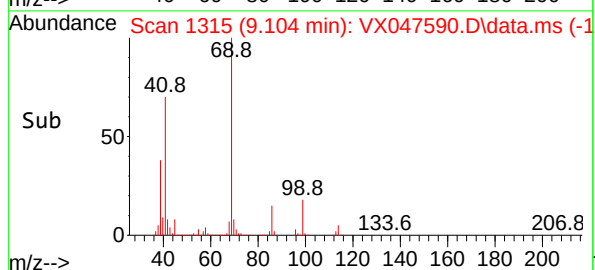
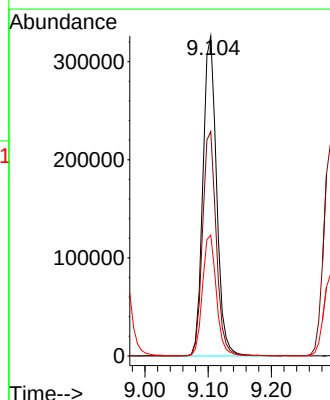
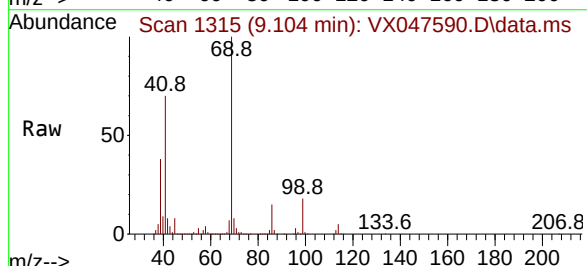
Tgt Ion: 69 Resp: 490623

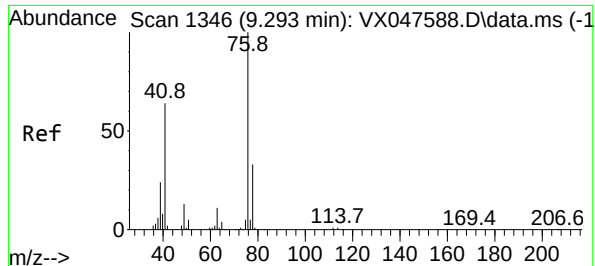
Ion Ratio Lower Upper

69 100

41 70.5 58.6 87.8

39 38.2 31.5 47.3





#57

1,3-Dichloropropane

Concen: 150.426 ug/l

RT: 9.293 min Scan# 1134

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 50212

Ion Ratio Lower Upper

76 100

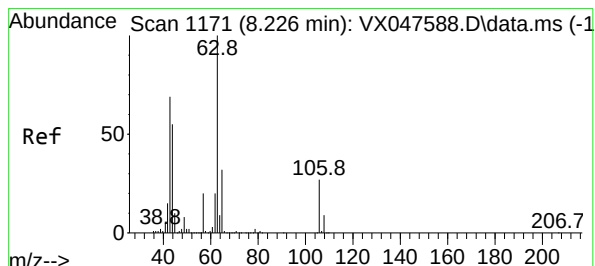
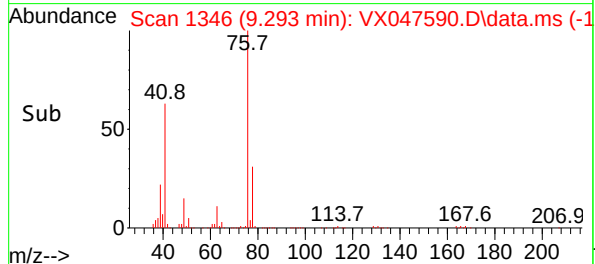
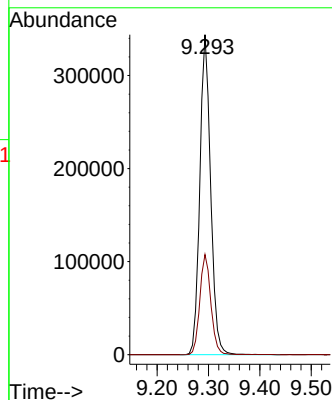
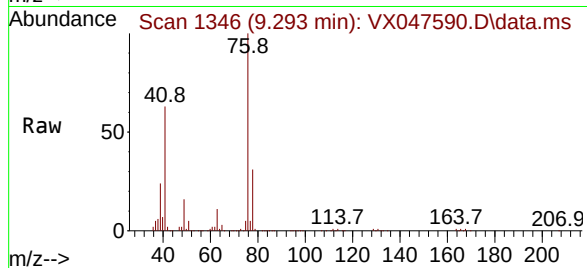
78 31.9 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 749.661 ug/l

RT: 8.232 min Scan# 1172

Delta R.T. 0.006 min

Lab File: VX047590.D

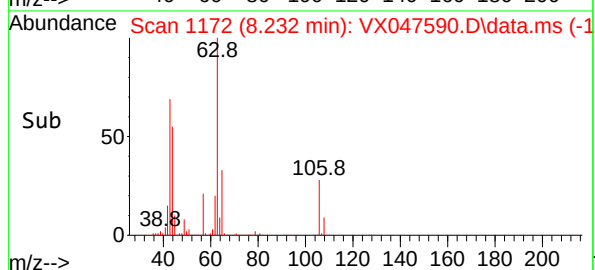
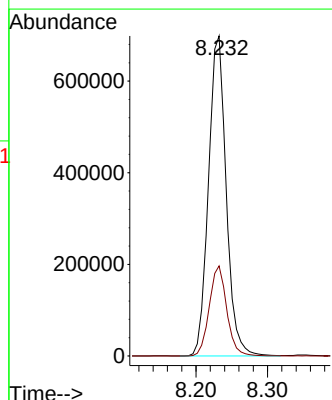
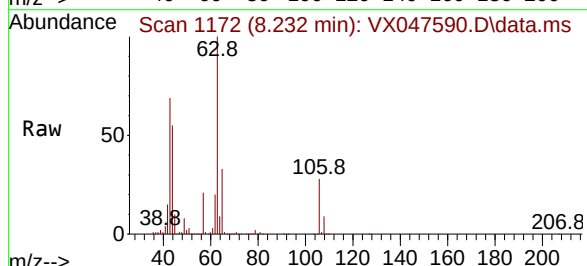
Acq: 16 Sep 2025 12:01

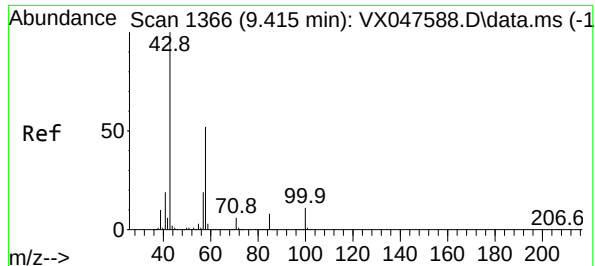
Tgt Ion: 63 Resp: 1202206

Ion Ratio Lower Upper

63 100

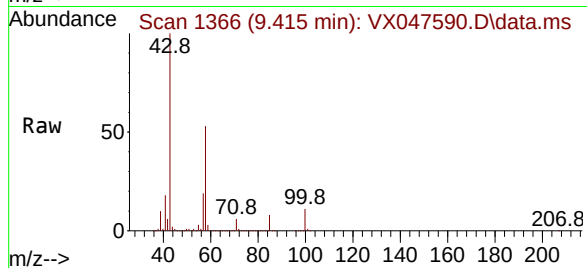
106 27.7 21.9 32.9





#59
2-Hexanone
Concen: 750.035 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

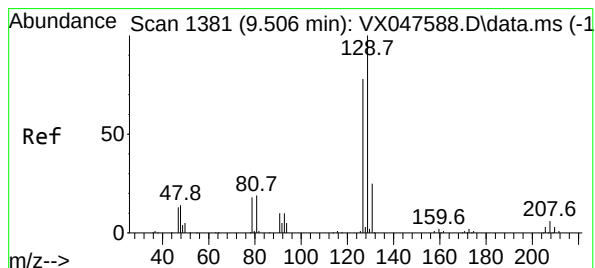
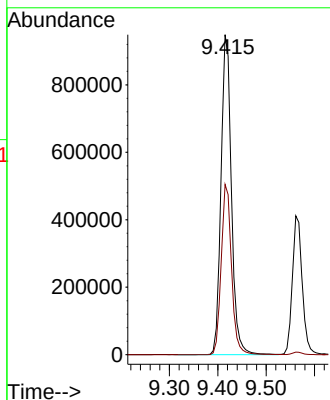
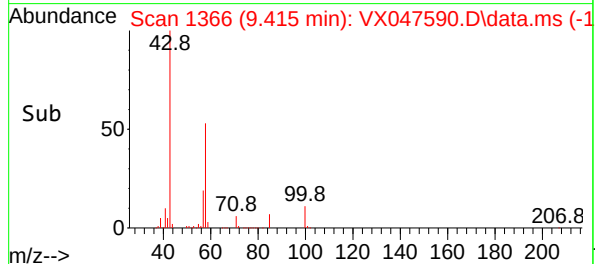
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 43 Resp: 141241
Ion Ratio Lower Upper
43 100
58 52.9 26.1 78.2

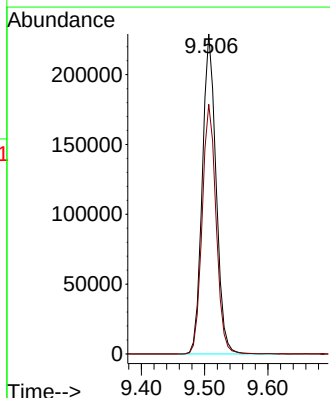
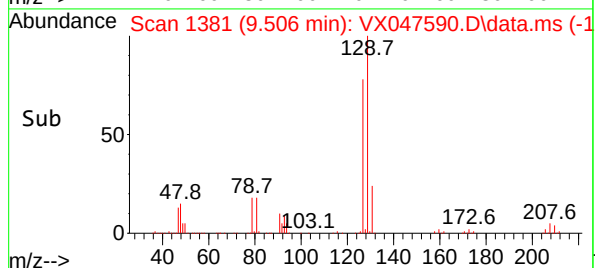
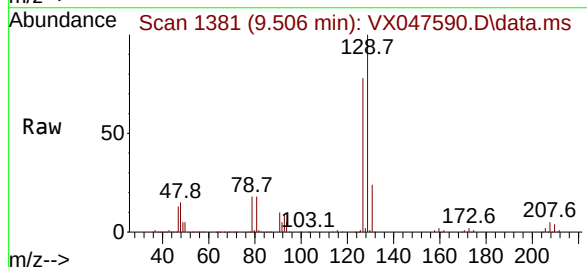
Manual Integrations
APPROVED

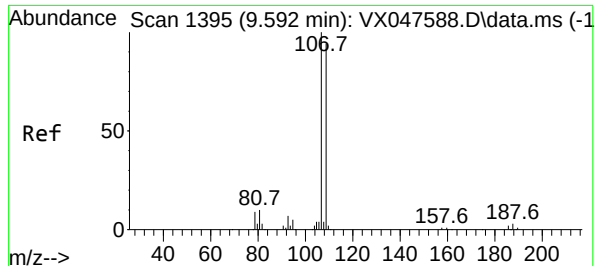
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#60
Dibromochloromethane
Concen: 155.318 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

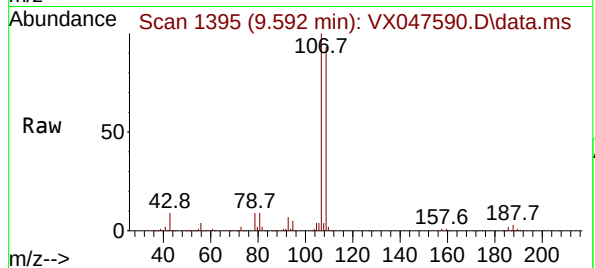
Tgt Ion:129 Resp: 347748
Ion Ratio Lower Upper
129 100
127 78.7 38.4 115.2





#61
1,2-Dibromoethane
Concen: 152.949 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

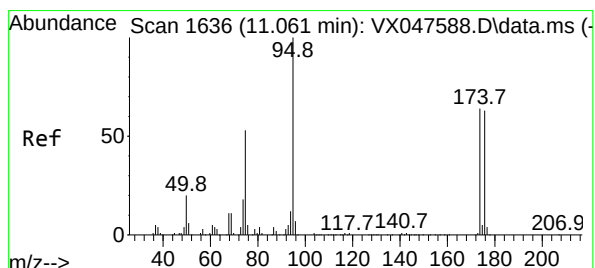
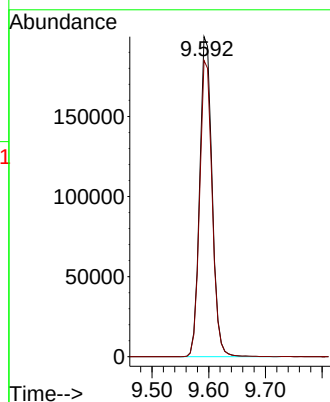
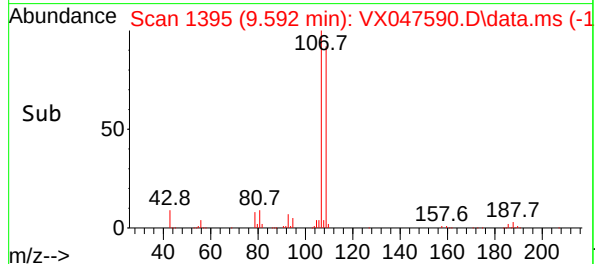
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 107 Resp: 302715
Ion Ratio Lower Upper
107 100
109 93.5 75.3 112.9

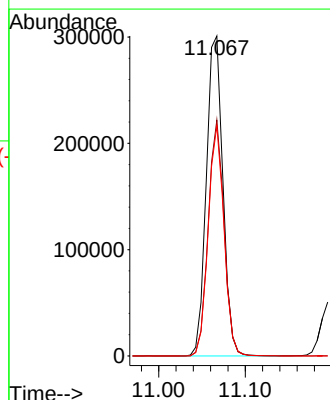
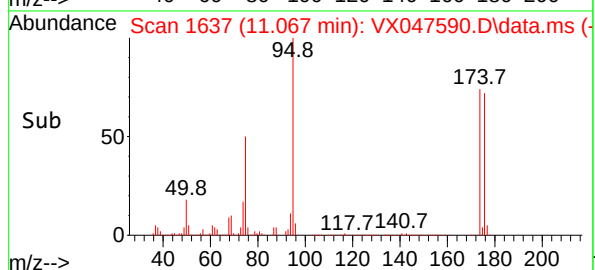
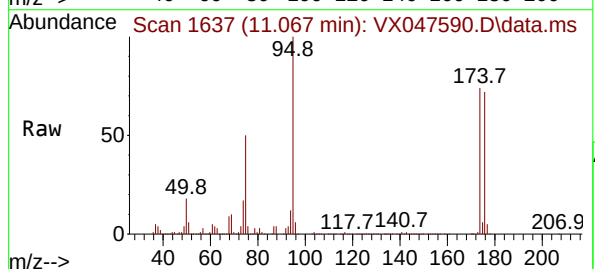
Manual Integrations
APPROVED

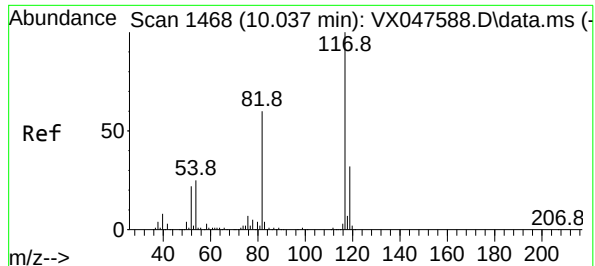
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#62
4-Bromofluorobenzene
Concen: 165.020 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

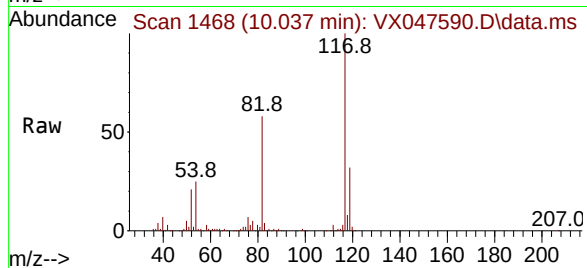
Tgt Ion: 95 Resp: 399386
Ion Ratio Lower Upper
95 100
174 70.7 0.0 141.6
176 68.5 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

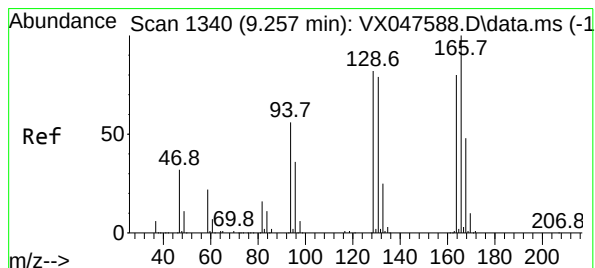
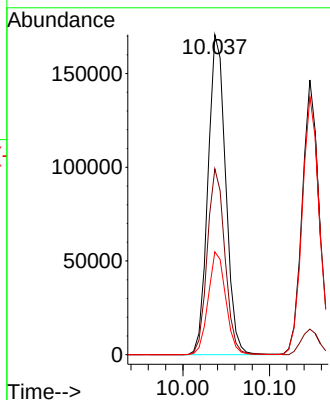
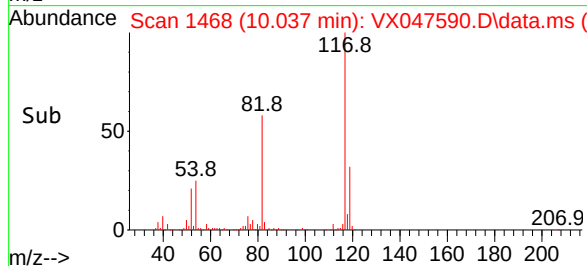
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:117 Resp: 241818
Ion Ratio Lower Upper
117 100
82 58.1 47.8 71.6
119 32.2 25.2 37.8

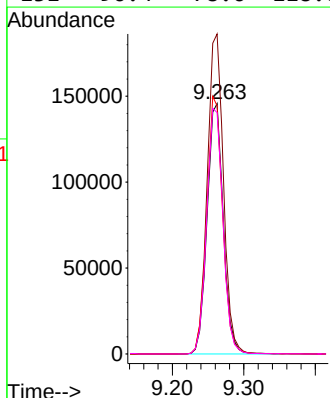
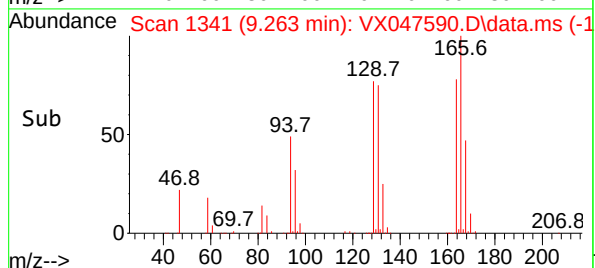
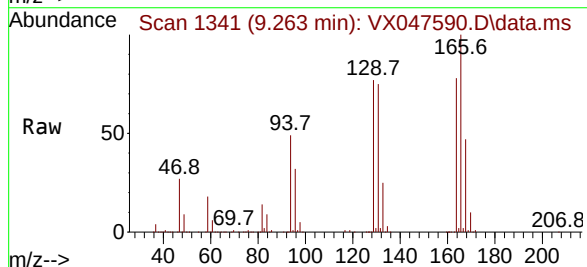
Manual Integrations
APPROVED

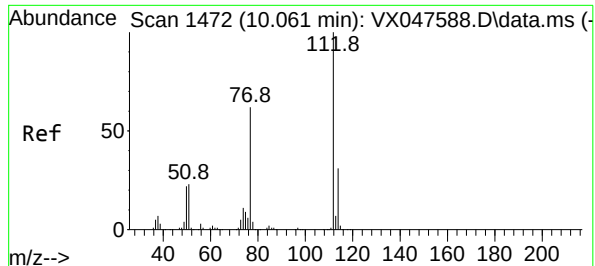
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#64
Tetrachloroethene
Concen: 144.590 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:164 Resp: 227931
Ion Ratio Lower Upper
164 100
166 127.8 100.2 150.2
129 99.0 81.8 122.6
131 96.4 78.6 118.0





#65

Chlorobenzene

Concen: 150.763 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:112 Resp: 828239

Ion Ratio Lower Upper

112 100

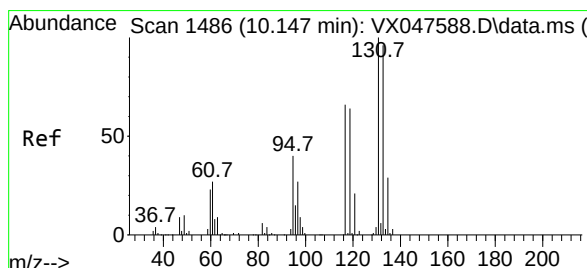
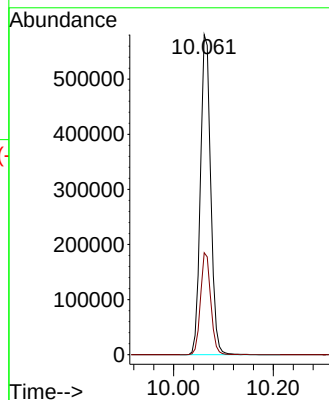
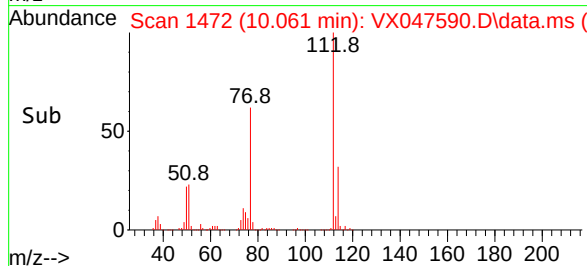
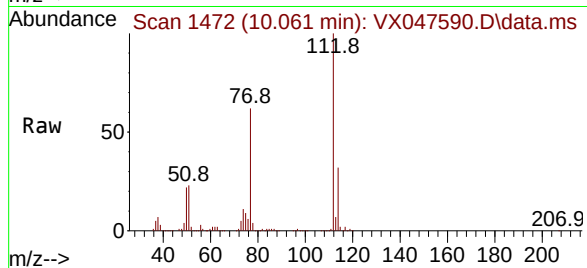
114 31.8 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 153.733 ug/l

RT: 10.147 min Scan# 1486

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

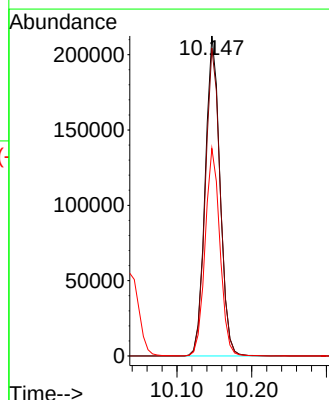
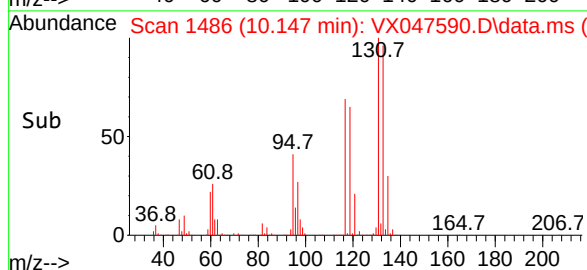
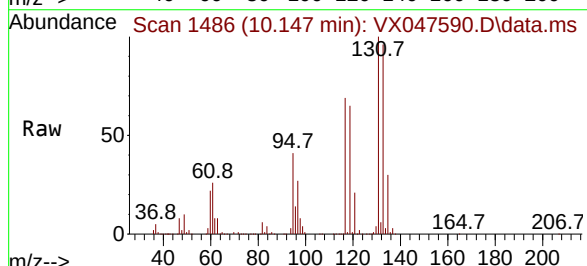
Tgt Ion:131 Resp: 291433

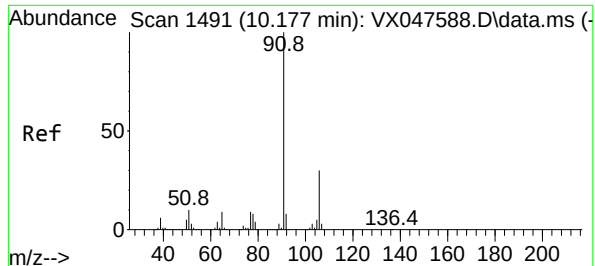
Ion Ratio Lower Upper

131 100

133 96.7 47.3 142.0

119 64.8 32.0 96.0





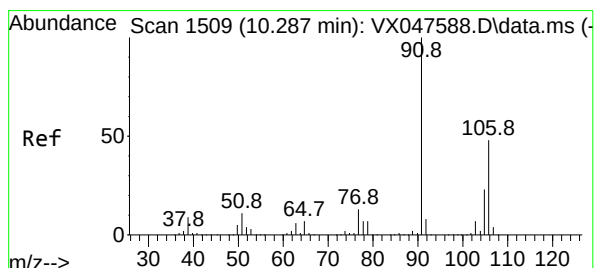
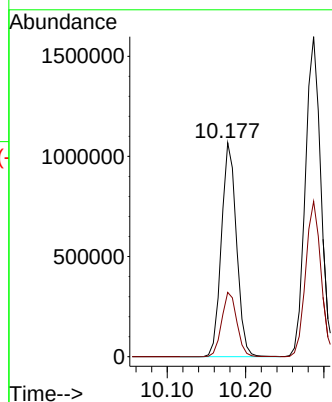
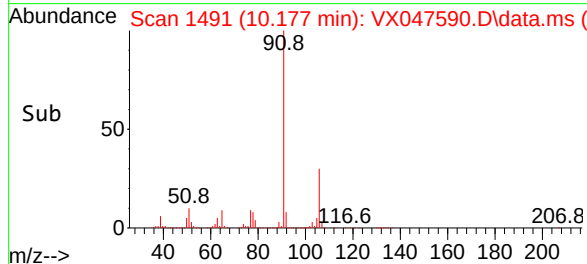
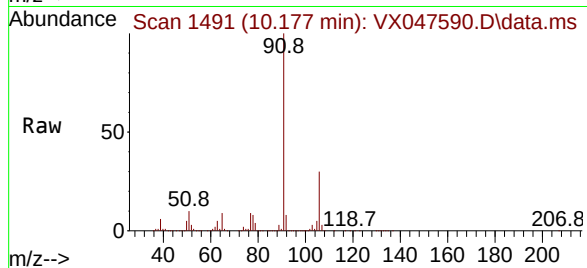
#67
Ethyl Benzene
Concen: 151.026 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 91 Resp: 1431554
Ion Ratio Lower Upper
91 100
106 30.0 24.3 36.5

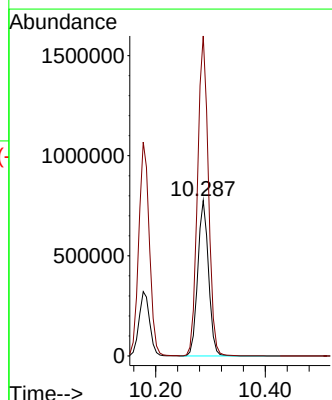
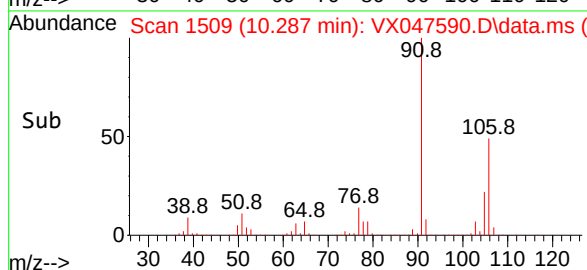
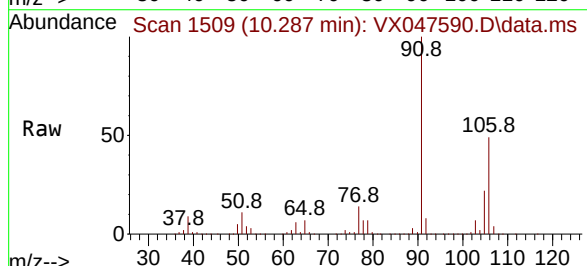
Manual Integrations
APPROVED

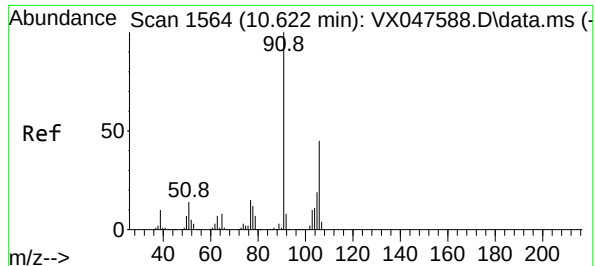
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#68
m/p-Xylenes
Concen: 300.381 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:106 Resp: 1059776
Ion Ratio Lower Upper
106 100
91 208.0 167.8 251.8





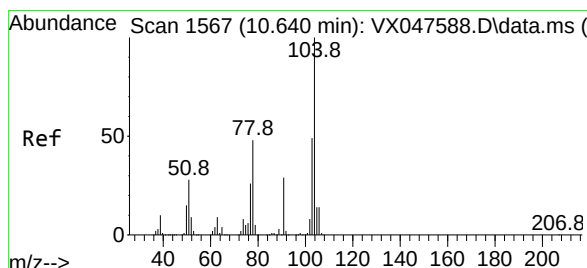
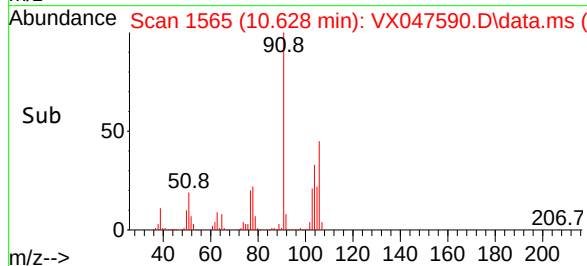
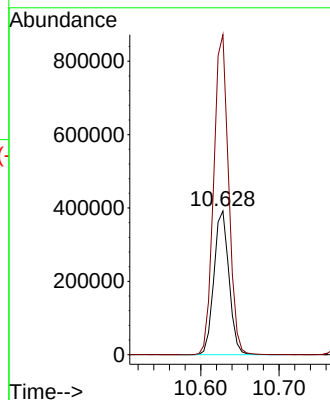
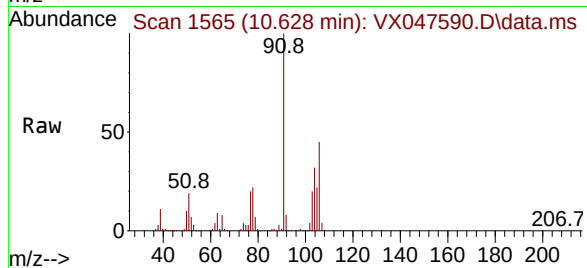
#69
o-Xylene
Concen: 152.920 ug/l
RT: 10.628 min Scan# 1564
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:106 Resp: 521840
Ion Ratio Lower Upper
106 100
91 220.7 111.1 333.4

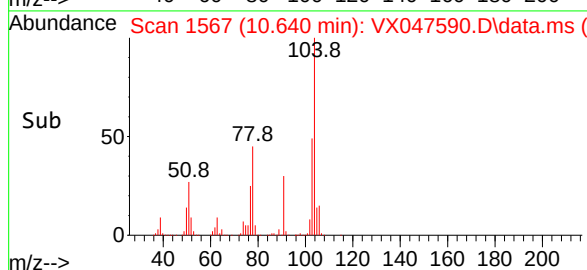
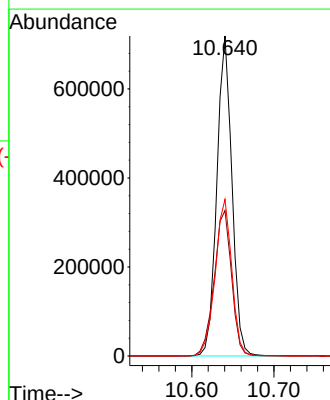
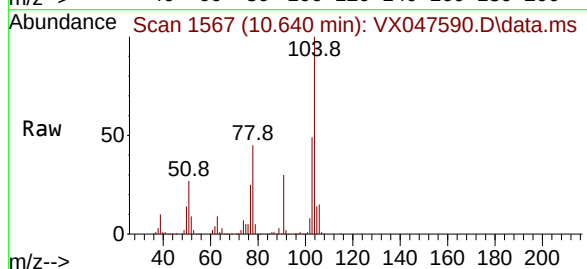
Manual Integrations
APPROVED

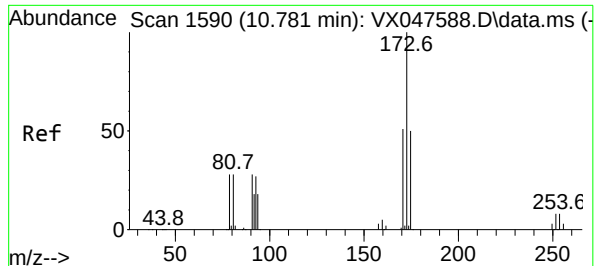
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 153.449 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

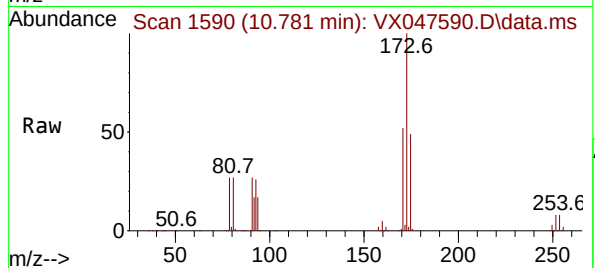
Tgt Ion:104 Resp: 917532
Ion Ratio Lower Upper
104 100
78 52.4 43.1 64.7
103 54.0 43.1 64.7





#71
Bromoform
Concen: 162.262 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

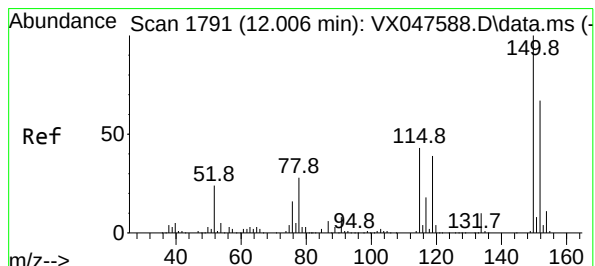
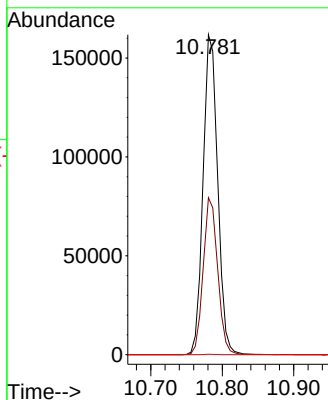
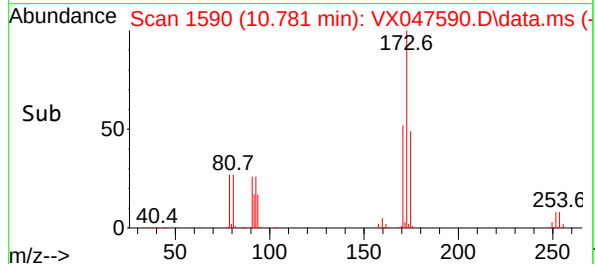
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:173 Resp: 22968
Ion Ratio Lower Upper
173 100
175 48.7 24.9 74.6
254 0.1 0.1 0.1

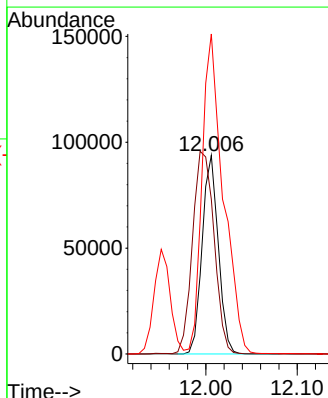
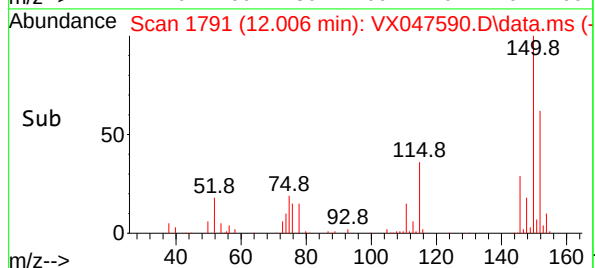
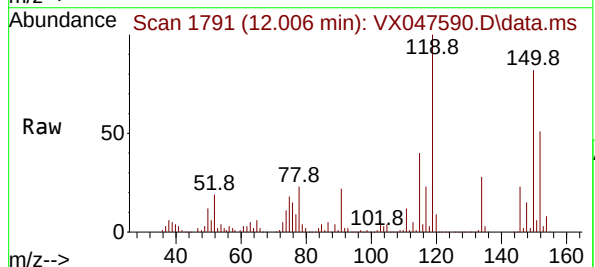
Manual Integrations
APPROVED

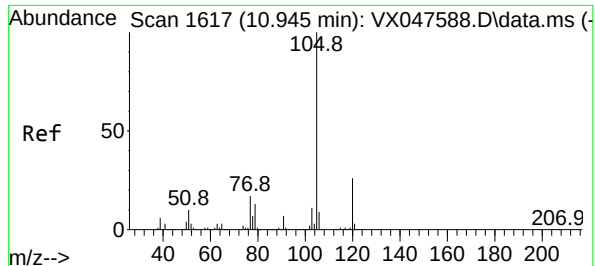
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

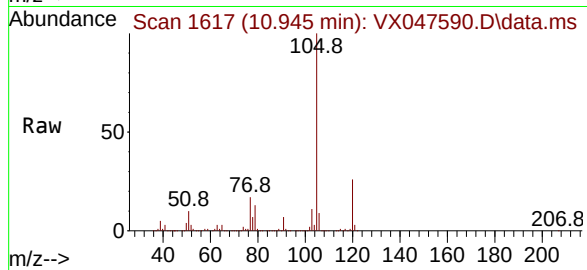
Tgt Ion:152 Resp: 114743
Ion Ratio Lower Upper
152 100
115 136.9 44.9 134.5#
150 212.9 0.0 352.0





#73
Isopropylbenzene
Concen: 151.477 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

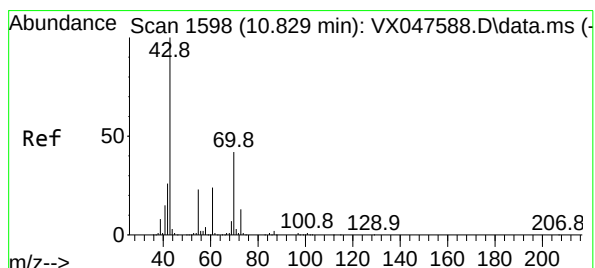
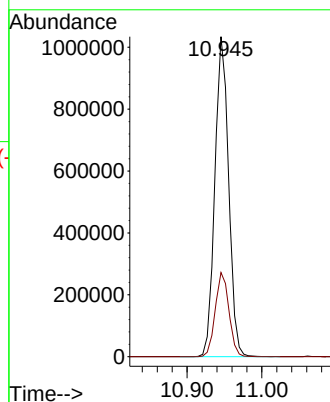
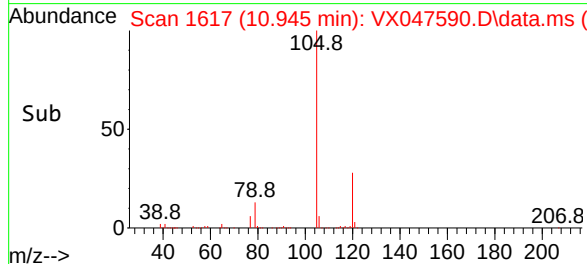
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:105 Resp: 1321409
Ion Ratio Lower Upper
105 100
120 26.2 12.8 38.4

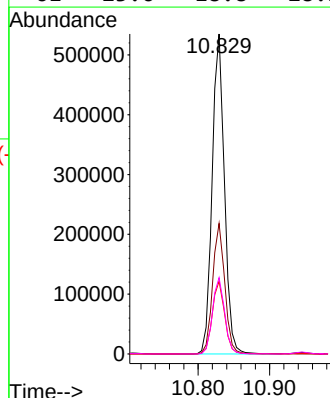
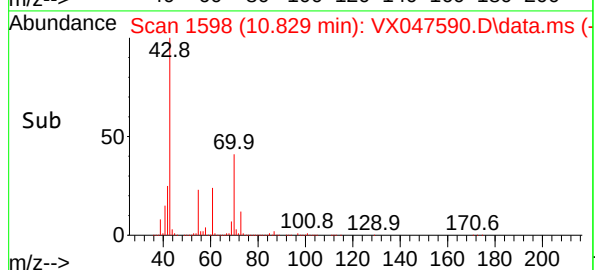
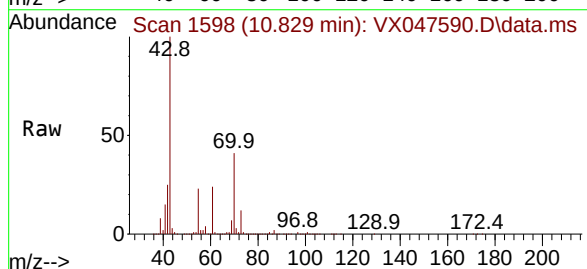
Manual Integrations
APPROVED

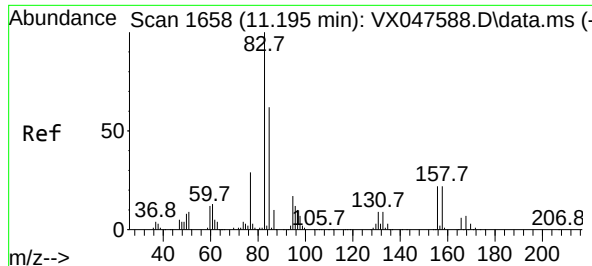
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 160.099 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 636879
Ion Ratio Lower Upper
43 100
70 40.4 32.0 48.0
55 22.9 18.9 28.3
61 23.6 18.8 28.2





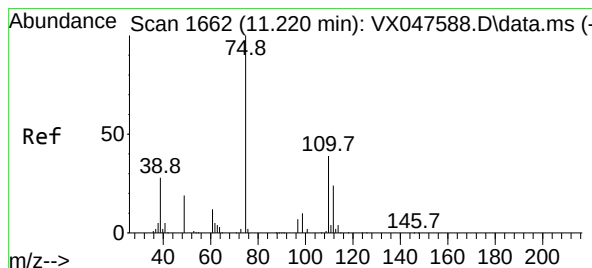
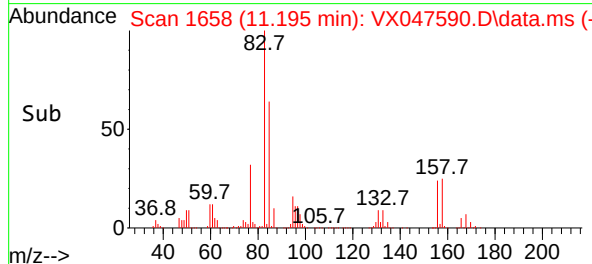
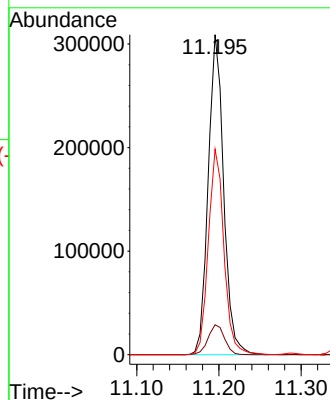
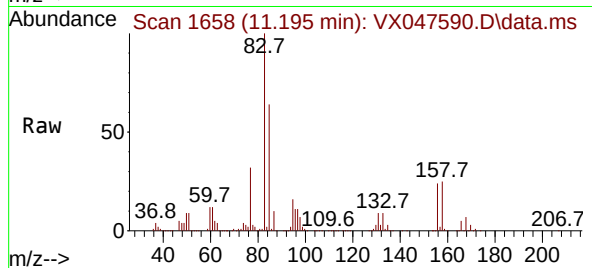
#75
1,1,2-Tetrachloroethane
Concen: 153.035 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 403900
Ion Ratio Lower Upper
83 100
131 10.0 5.0 14.9
85 64.6 31.6 95.0

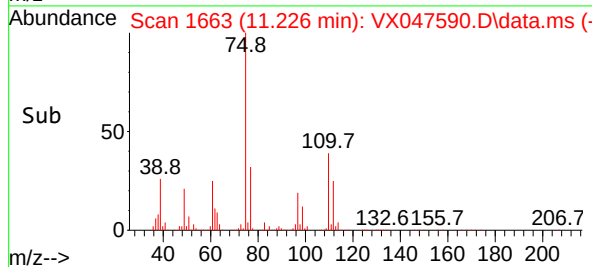
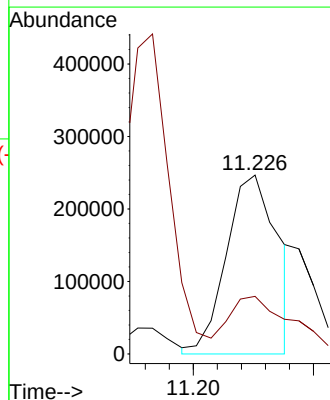
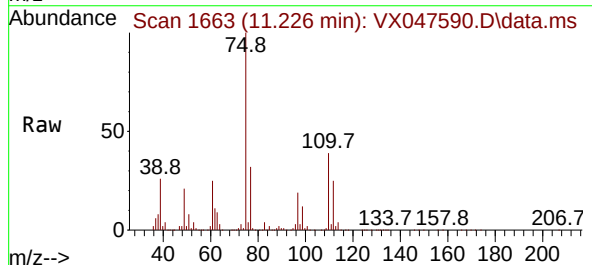
Manual Integrations
APPROVED

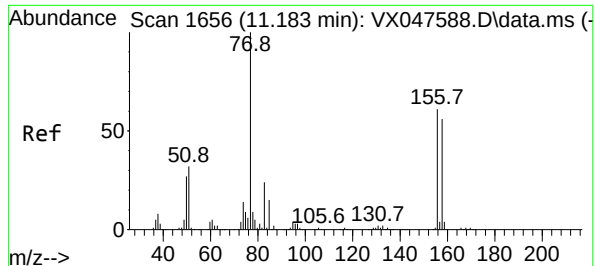
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 153.692 ug/l m
RT: 11.226 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

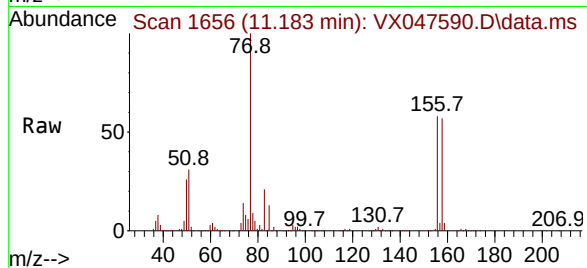
Tgt Ion: 75 Resp: 366171
Ion Ratio Lower Upper
75 100
77 39.7 18.8 56.4





#77
Bromobenzene
Concen: 152.818 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

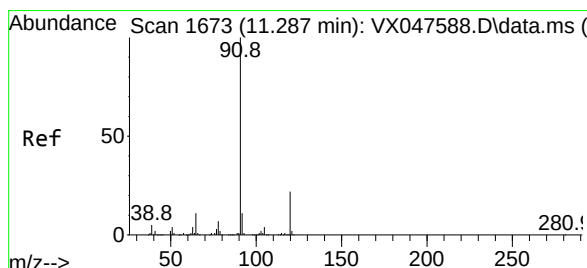
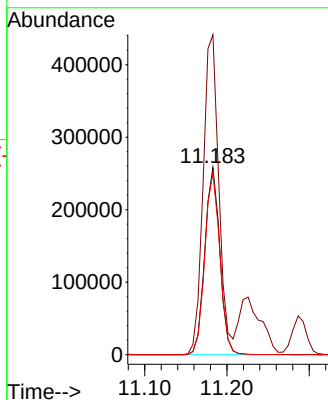
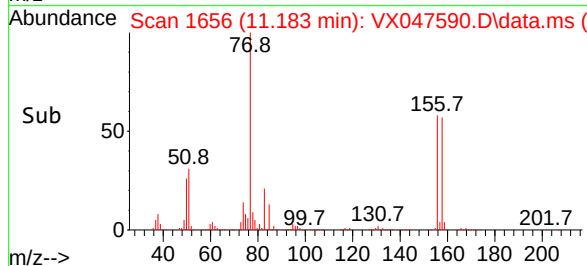
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:156 Resp: 328336
Ion Ratio Lower Upper
156 100
77 178.2 89.7 269.1
158 97.5 47.9 143.6

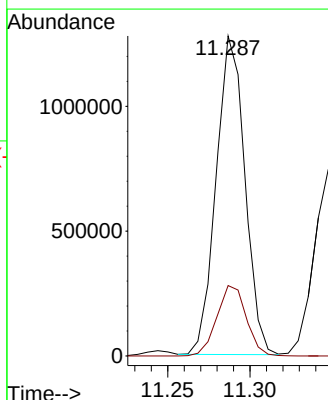
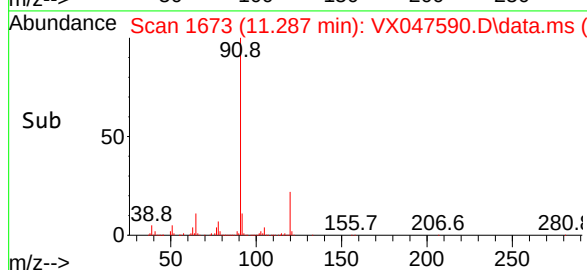
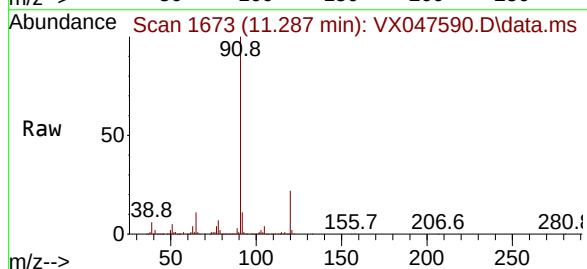
Manual Integrations
APPROVED

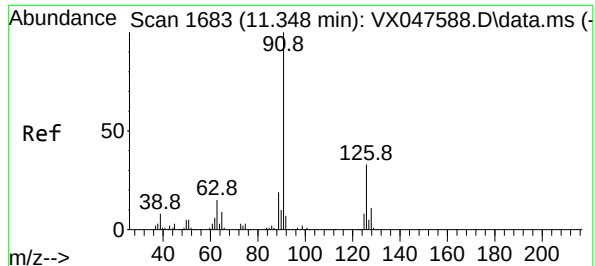
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#78
n-propylbenzene
Concen: 150.337 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1550316
Ion Ratio Lower Upper
91 100
120 22.7 11.1 33.1





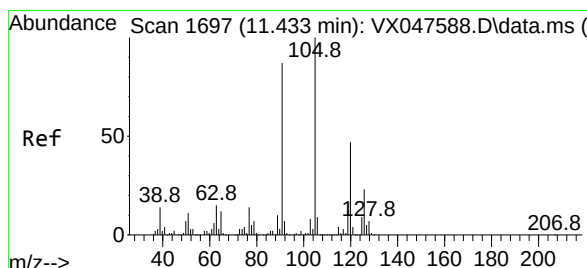
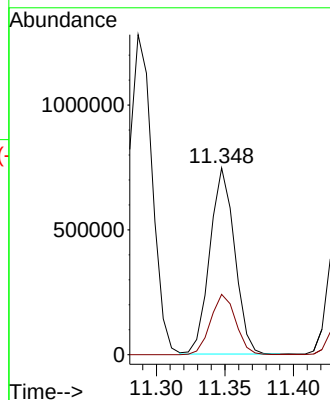
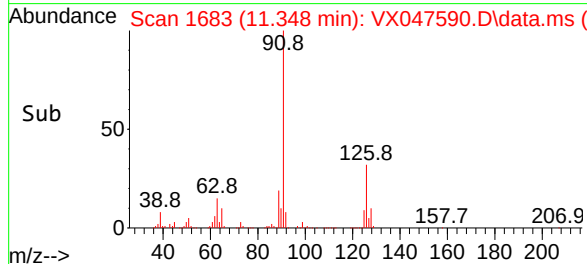
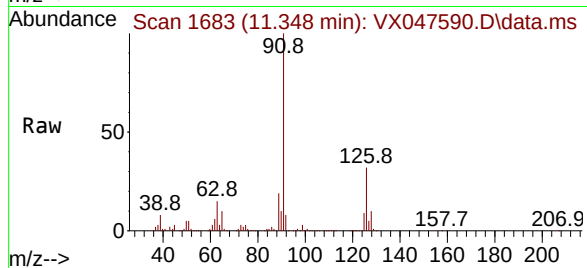
#79
2-Chlorotoluene
Concen: 148.781 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 91 Resp: 93970
Ion Ratio Lower Upper
91 100
126 32.7 16.1 48.3

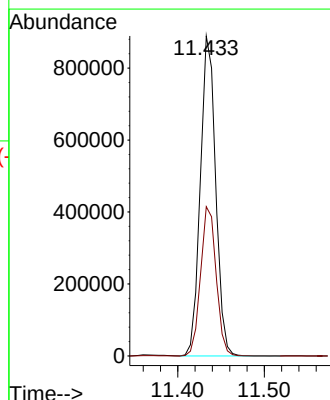
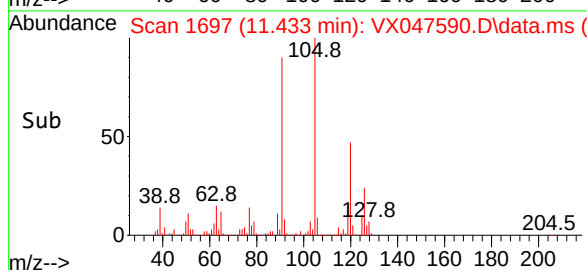
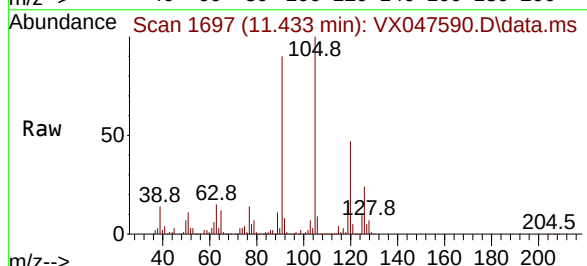
Manual Integrations
APPROVED

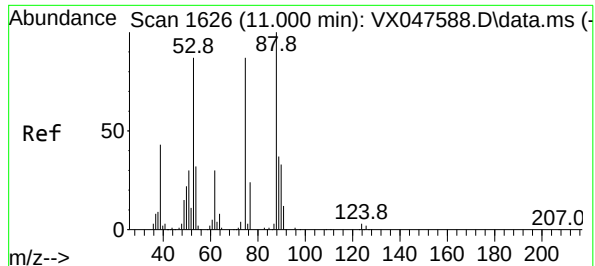
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#80
1,3,5-Trimethylbenzene
Concen: 152.306 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

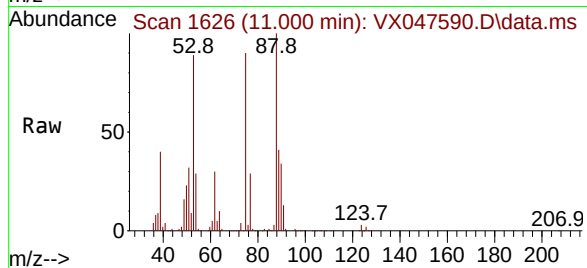
Tgt Ion:105 Resp: 1091593
Ion Ratio Lower Upper
105 100
120 47.4 23.6 70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 160.176 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

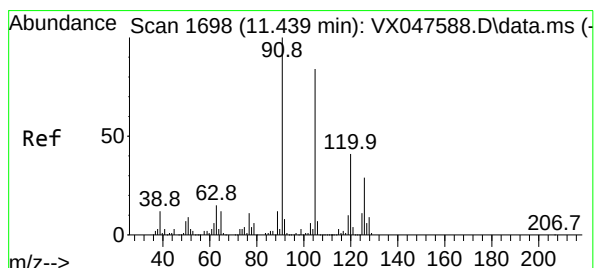
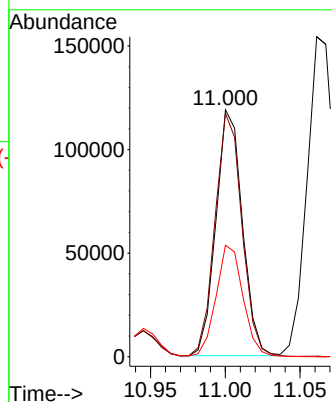
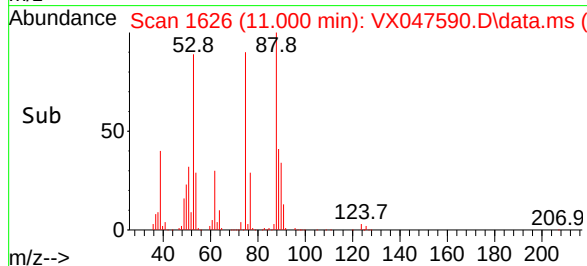
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 75 Resp: 145920
Ion Ratio Lower Upper
75 100
53 100.8 83.4 125.2
89 46.3 36.3 54.5

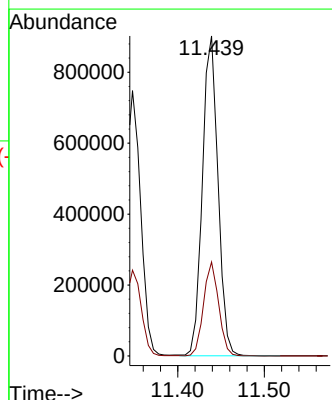
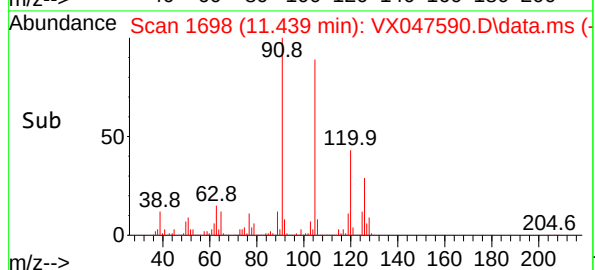
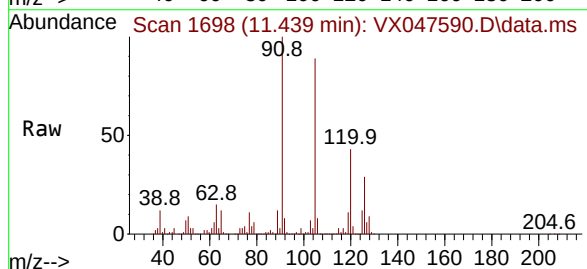
Manual Integrations
APPROVED

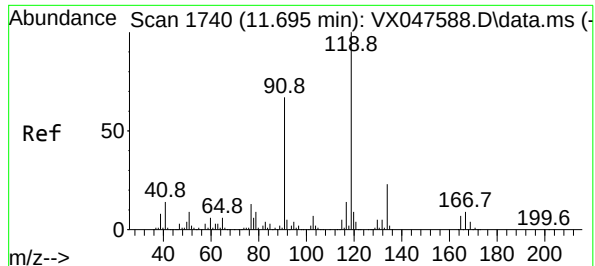
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 151.112 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

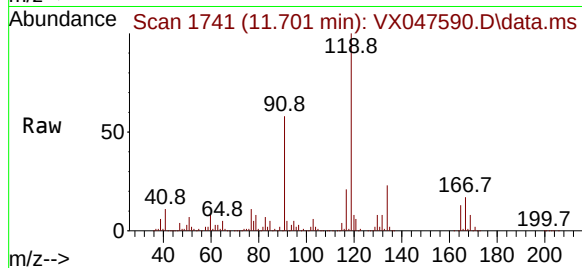
Tgt Ion: 91 Resp: 1127233
Ion Ratio Lower Upper
91 100
126 28.5 14.2 42.6





#83
tert-Butylbenzene
Concen: 150.819 ug/l
RT: 11.701 min Scan# 1741
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

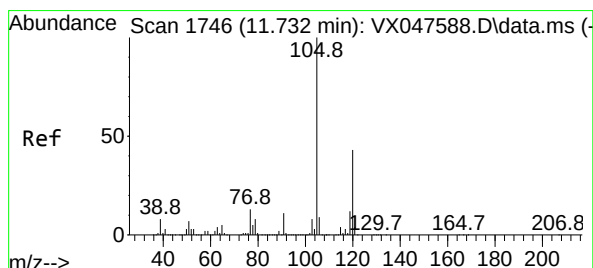
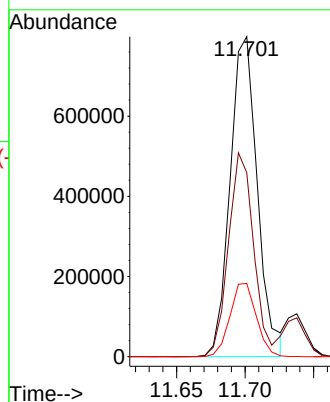
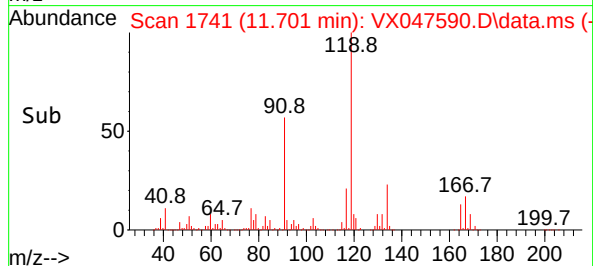
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:119 Resp: 1106532
Ion Ratio Lower Upper
119 100
91 58.7 29.6 88.8
134 22.3 11.0 33.0

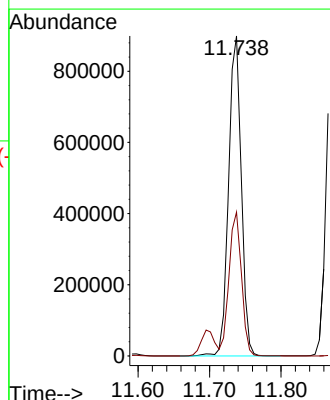
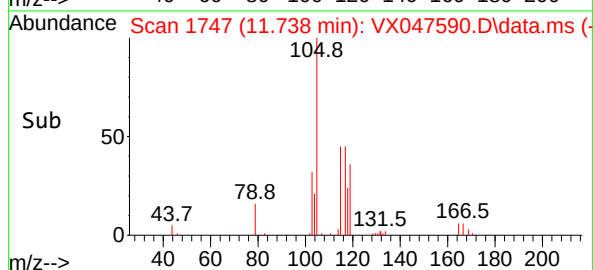
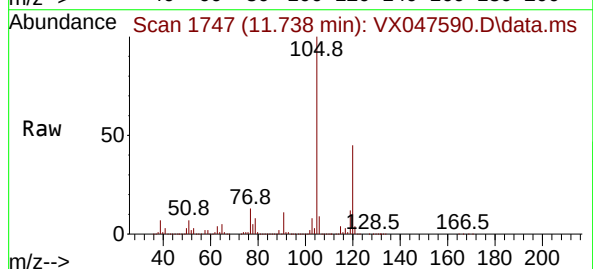
Manual Integrations
APPROVED

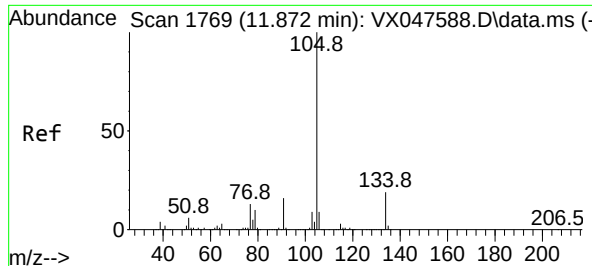
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#84
1,2,4-Trimethylbenzene
Concen: 152.336 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

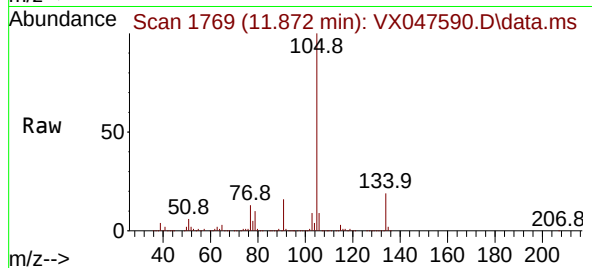
Tgt Ion:105 Resp: 1106914
Ion Ratio Lower Upper
105 100
120 44.4 22.1 66.1





#85
sec-Butylbenzene
Concen: 151.448 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

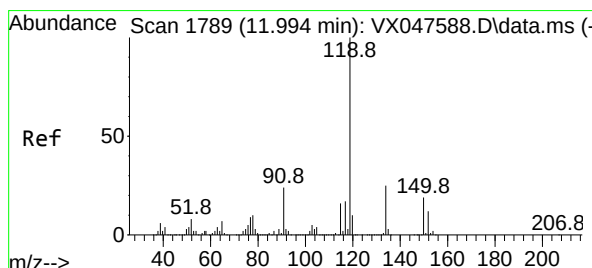
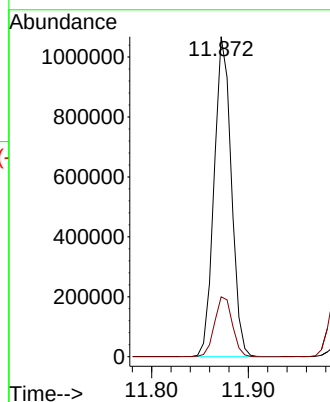
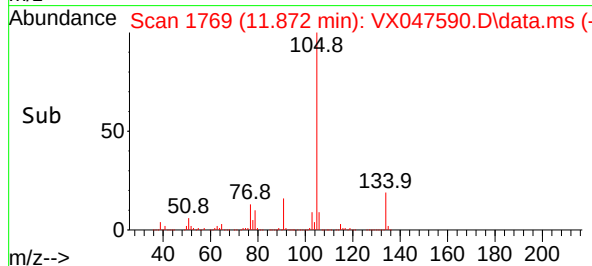
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:105 Resp: 1319819
Ion Ratio Lower Upper
105 100
134 19.4 9.8 29.5

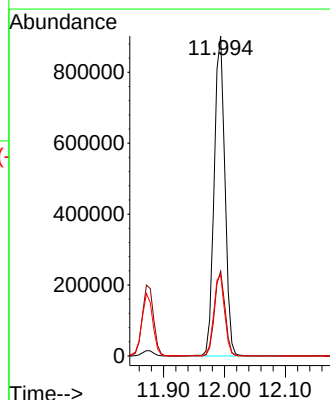
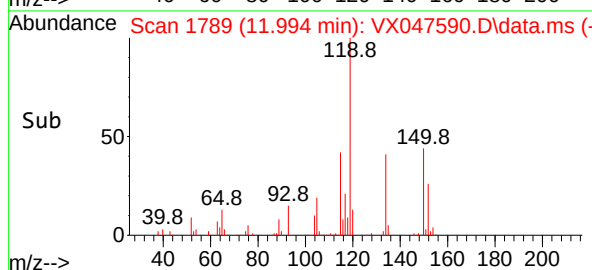
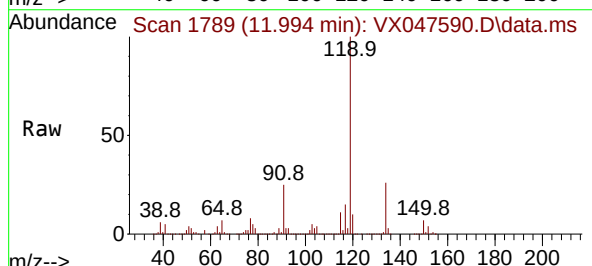
Manual Integrations
APPROVED

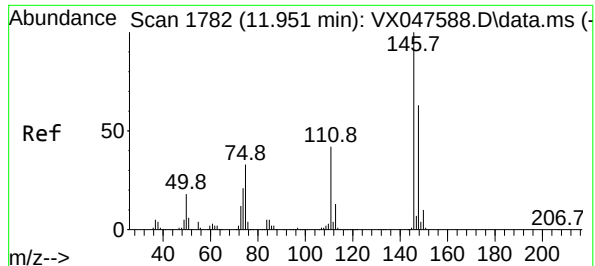
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#86
p-Isopropyltoluene
Concen: 149.530 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:119 Resp: 1103210
Ion Ratio Lower Upper
119 100
134 25.9 12.6 37.8
91 25.3 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 151.633 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 60512

Ion Ratio Lower Upper

146 100

111 42.8 21.5 64.5

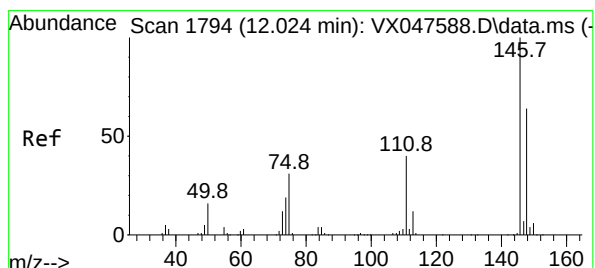
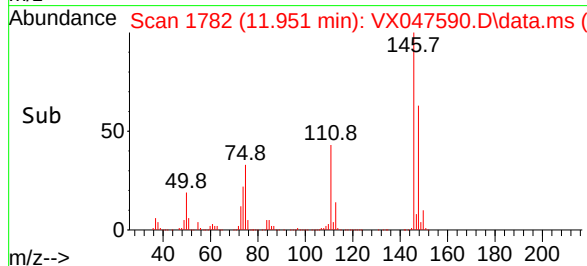
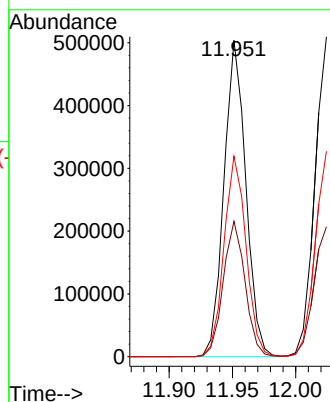
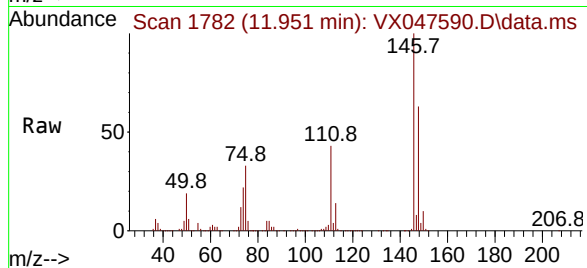
148 63.8 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 149.814 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

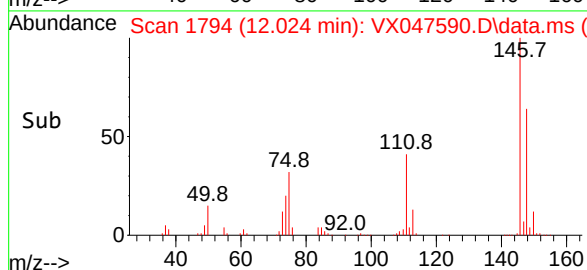
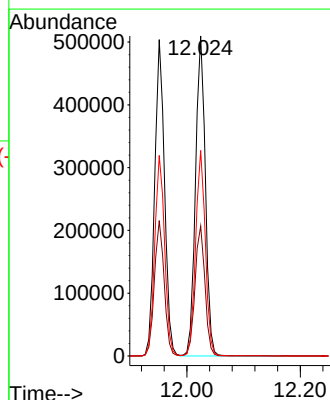
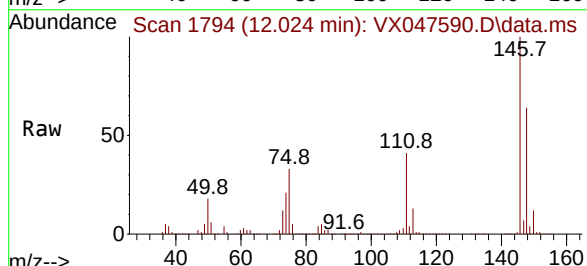
Tgt Ion:146 Resp: 613617

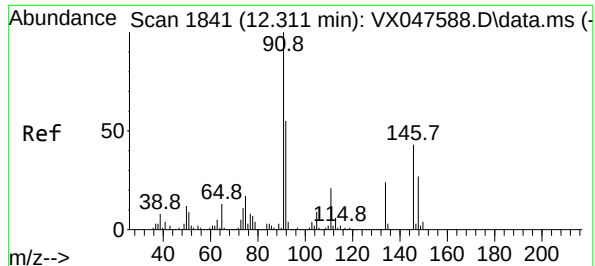
Ion Ratio Lower Upper

146 100

111 41.0 20.8 62.4

148 63.2 31.7 95.1





#89

n-Butylbenzene

Concen: 151.222 ug/l

RT: 12.317 min Scan# 1841

Delta R.T. 0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 103235

Ion Ratio Lower Upper

91 100

92 55.2 27.6 82.7

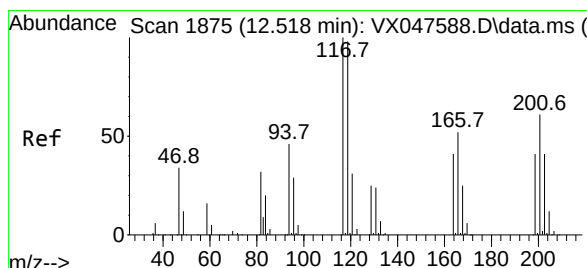
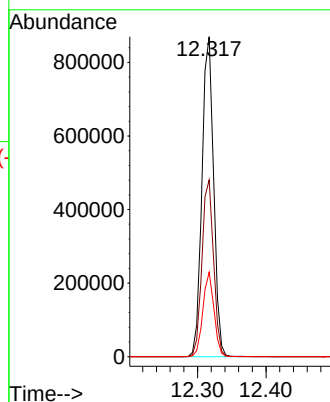
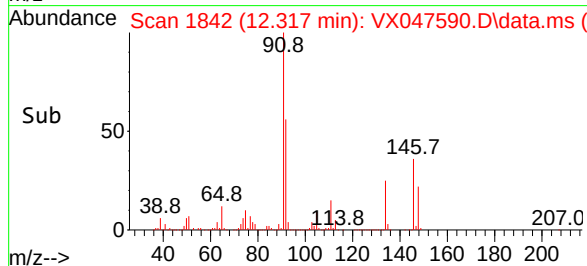
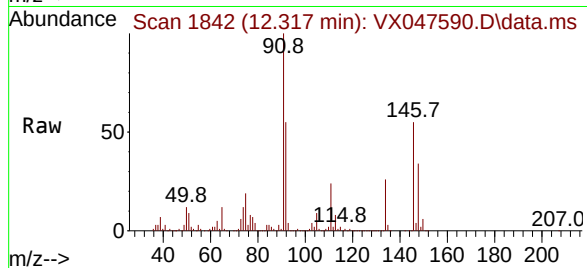
134 25.2 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 163.258 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX047590.D

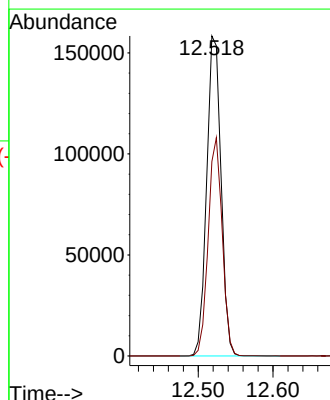
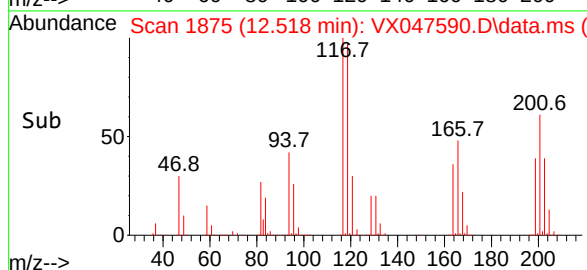
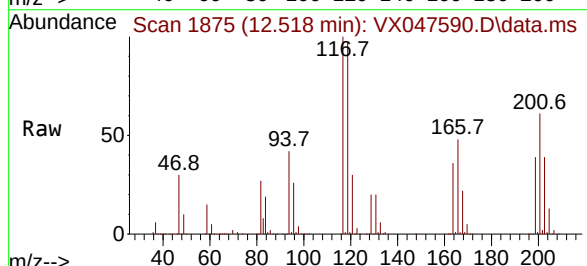
Acq: 16 Sep 2025 12:01

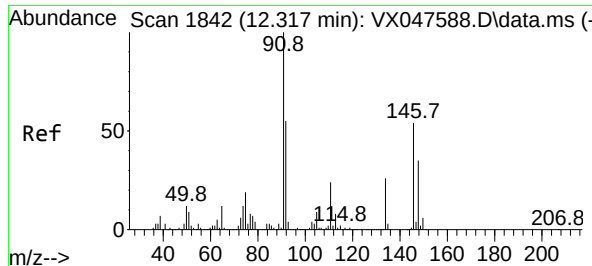
Tgt Ion:117 Resp: 211472

Ion Ratio Lower Upper

117 100

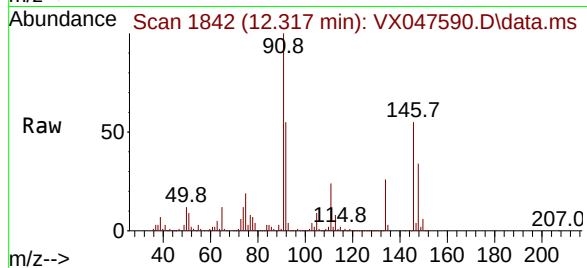
201 66.6 34.2 102.5





#91
1,2-Dichlorobenzene
Concen: 153.227 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

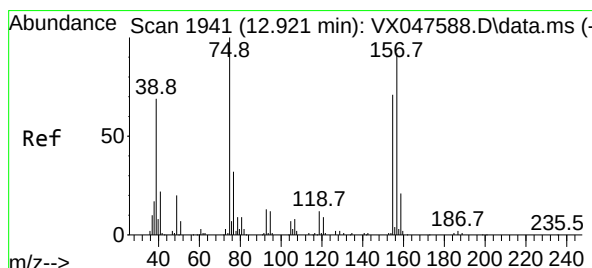
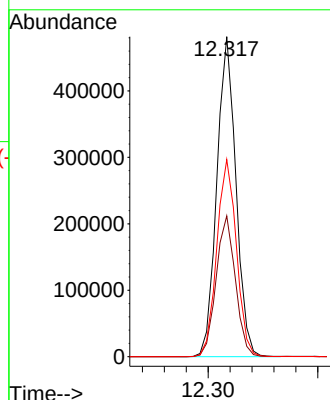
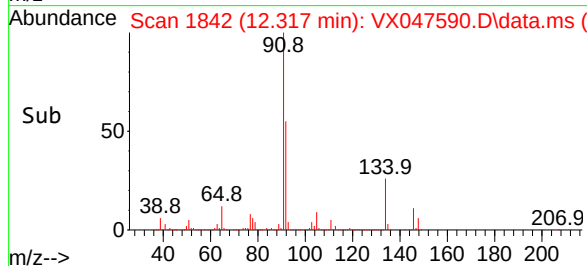
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:146 Resp: 58256
Ion Ratio Lower Upper
146 100
111 44.5 22.2 66.6
148 63.5 31.8 95.4

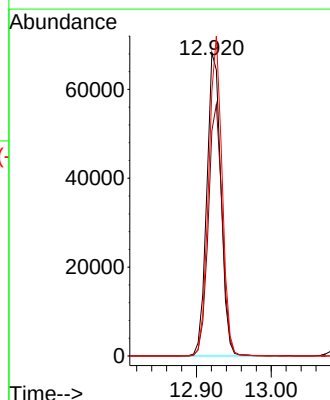
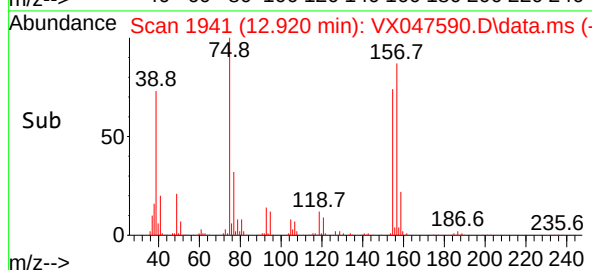
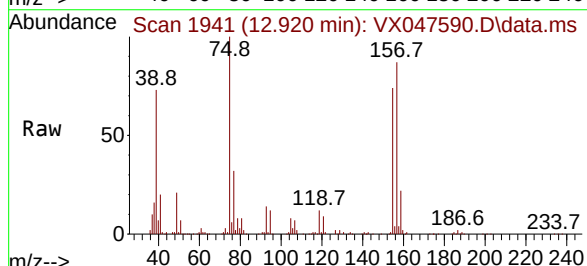
Manual Integrations
APPROVED

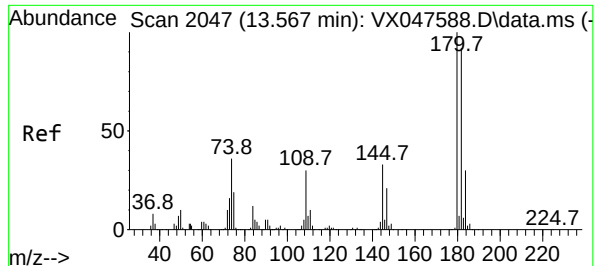
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 167.332 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 89415
Ion Ratio Lower Upper
75 100
155 81.3 37.7 113.1
157 100.6 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 156.884 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 387652

Ion Ratio Lower Upper

180 100

182 95.3 46.6 139.8

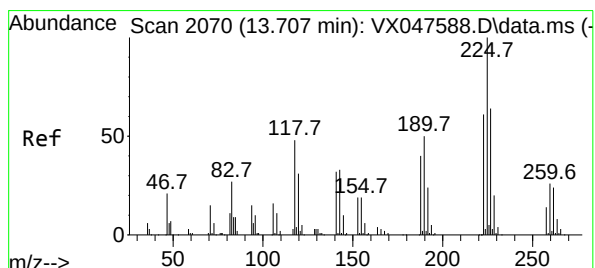
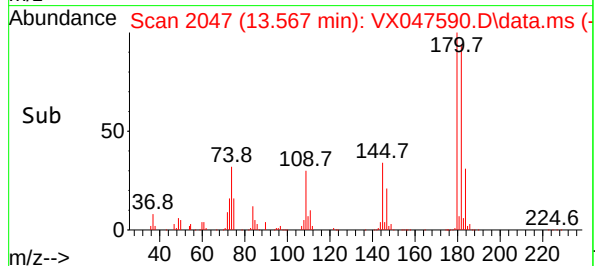
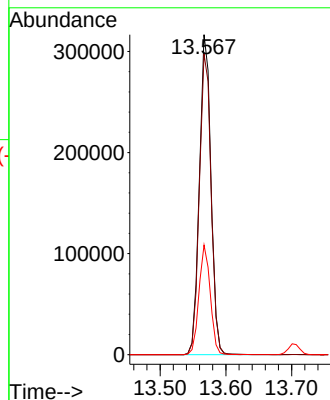
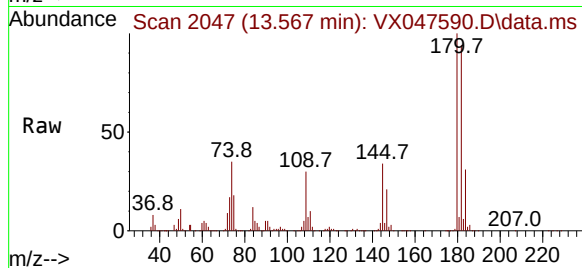
145 33.5 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 145.110 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

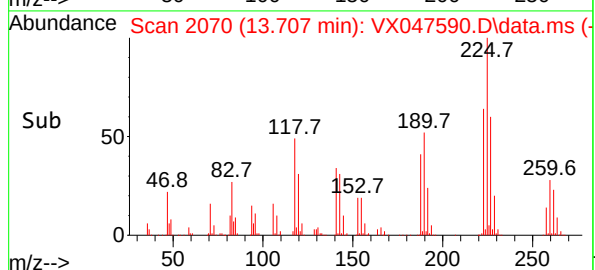
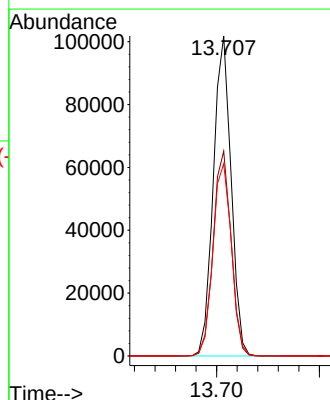
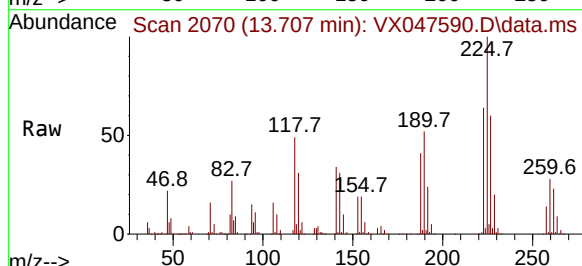
Tgt Ion:225 Resp: 121791

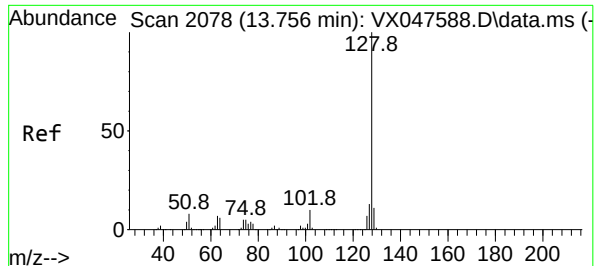
Ion Ratio Lower Upper

225 100

223 64.2 31.7 95.1

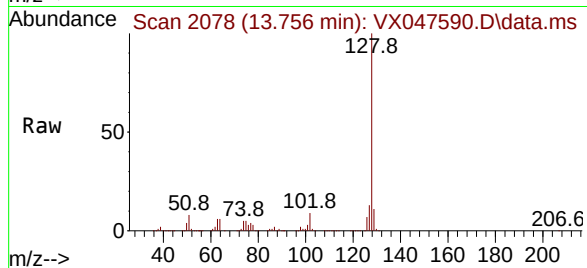
227 62.8 32.0 96.0





#95
Naphthalene
Concen: 163.388 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

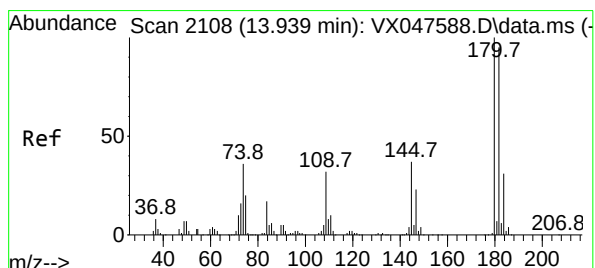
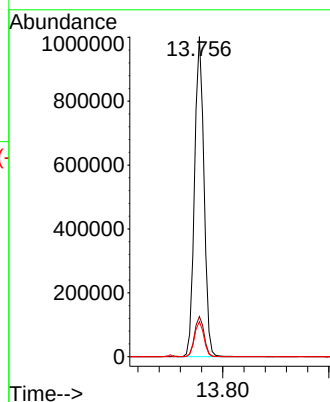
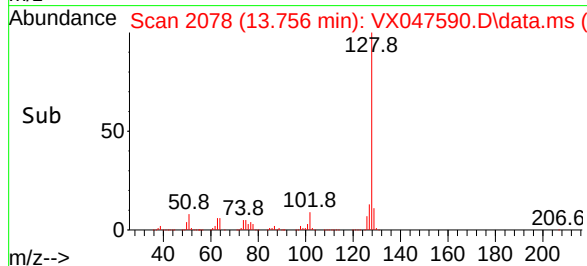
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:128 Resp: 122936
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.9 8.8 13.2

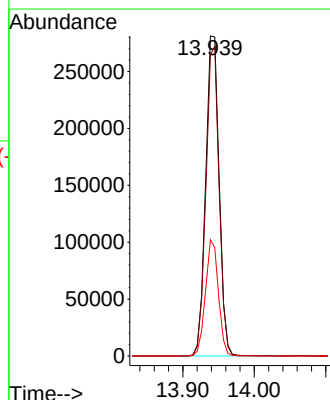
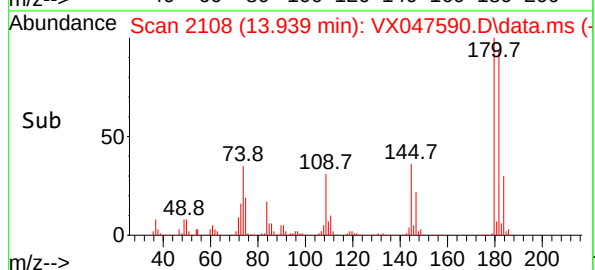
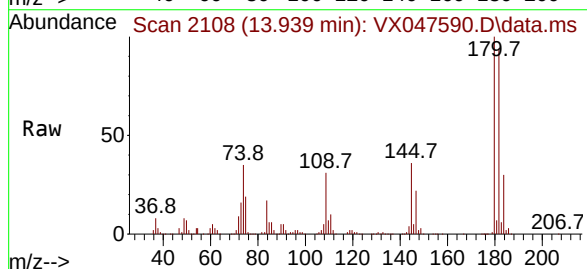
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 160.704 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:180 Resp: 369382
Ion Ratio Lower Upper
180 100
182 94.6 47.6 142.8
145 34.9 17.9 53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	186484	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	331837	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	288660	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	139252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	135209	45.550	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.100%		
35) Dibromofluoromethane	5.367	113	101390	45.559	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.120%		
50) Toluene-d8	8.634	98	357393	46.411	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	92.820%		
62) 4-Bromofluorobenzene	11.061	95	135957	46.520	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.040%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.179	85	86110	44.592	ug/l	94
3) Chloromethane	1.300	50	110935	43.710	ug/l	99
4) Vinyl Chloride	1.380	62	113742	45.783	ug/l	99
5) Bromomethane	1.617	94	76388	48.489	ug/l	99
6) Chloroethane	1.697	64	77337	46.575	ug/l	99
7) Trichlorofluoromethane	1.892	101	173647	47.074	ug/l	98
8) Diethyl Ether	2.136	74	70459	46.693	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	104663	48.524	ug/l	99
10) Methyl Iodide	2.453	142	155450	46.210	ug/l	99
11) Tert butyl alcohol	2.940	59	84722	256.271	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104302	47.076	ug/l	98
13) Acrolein	2.233	56	77645	254.867	ug/l	99
14) Allyl chloride	2.666	41	213704	46.742	ug/l	99
15) Acrylonitrile	3.056	53	310505	253.567	ug/l	99
16) Acetone	2.373	43	316217	245.006	ug/l	97
17) Carbon Disulfide	2.514	76	272741	44.966	ug/l	97
18) Methyl Acetate	2.697	43	158480	55.175	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	392574	48.538	ug/l	100
20) Methylene Chloride	2.788	84	125669	46.000	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	111418	46.709	ug/l	99
22) Diisopropyl ether	3.745	45	426854	48.174	ug/l #	83
23) Vinyl Acetate	3.709	43	1741267	245.539	ug/l	99
24) 1,1-Dichloroethane	3.599	63	226249	48.041	ug/l	99
25) 2-Butanone	4.532	43	408273	253.598	ug/l	97
26) 2,2-Dichloropropane	4.458	77	193760	49.494	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	142635	48.826	ug/l	99
28) Bromochloromethane	4.879	49	95782	46.586	ug/l	99
29) Tetrahydrofuran	4.983	42	245392	253.375	ug/l	99
30) Chloroform	5.074	83	231954	48.739	ug/l	99
31) Cyclohexane	5.458	56	180430	45.999	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	197711	48.978	ug/l	100
36) 1,1-Dichloropropene	5.678	75	151745	46.663	ug/l	99
37) Ethyl Acetate	4.690	43	171454	49.241	ug/l	98
38) Carbon Tetrachloride	5.659	117	165834	46.935	ug/l	95
39) Methylcyclohexane	7.360	83	179392	48.597	ug/l	98
40) Benzene	6.019	78	467748	47.357	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.897	41	90758	50.490	ug/l	98
42) 1,2-Dichloroethane	6.068	62	176131	46.867	ug/l	100
43) Isopropyl Acetate	6.318	43	280595	49.136	ug/l	100
44) Trichloroethene	7.104	130	114708	48.037	ug/l	98
45) 1,2-Dichloropropane	7.409	63	121532	48.053	ug/l	98
46) Dibromomethane	7.562	93	88297	47.976	ug/l	98
47) Bromodichloromethane	7.799	83	185219	48.769	ug/l	96
48) Methyl methacrylate	7.671	41	141532	49.757	ug/l	99
49) 1,4-Dioxane	7.641	88	31320	1089.520	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	809759	255.752	ug/l	100
52) Toluene	8.702	92	292879	48.130	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	191863	49.527	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	203954	49.257	ug/l	97
55) 1,1,2-Trichloroethane	9.134	97	112094	47.772	ug/l	98
56) Ethyl methacrylate	9.098	69	189741	51.490	ug/l	99
57) 1,3-Dichloropropane	9.293	76	197079	48.894	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	394205	225.562	ug/l	99
59) 2-Hexanone	9.415	43	575599	253.126	ug/l	99
60) Dibromochloromethane	9.506	129	134704	49.824	ug/l	99
61) 1,2-Dibromoethane	9.592	107	117817	49.297	ug/l	99
64) Tetrachloroethene	9.256	164	90881	48.296	ug/l	98
65) Chlorobenzene	10.061	112	318372	48.549	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	110416	48.794	ug/l	98
67) Ethyl Benzene	10.177	91	563634	49.813	ug/l	99
68) m/p-Xylenes	10.287	106	416757	98.956	ug/l	99
69) o-Xylene	10.622	106	204323	50.159	ug/l	99
70) Styrene	10.640	104	353567	49.536	ug/l	99
71) Bromoform	10.780	173	86524	51.207	ug/l #	98
73) Isopropylbenzene	10.945	105	523826	49.479	ug/l	100
74) N-amyl acetate	10.823	43	243198	50.375	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	159676	49.851	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	149779m	53.124	ug/l	
77) Bromobenzene	11.183	156	125610	48.173	ug/l	98
78) n-propylbenzene	11.286	91	616928	49.295	ug/l	99
79) 2-Chlorotoluene	11.347	91	376486	49.117	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	435375	50.055	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	55880	50.543	ug/l	99
82) 4-Chlorotoluene	11.433	91	445075	49.164	ug/l	100
83) tert-Butylbenzene	11.695	119	442341	49.679	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	440134	49.911	ug/l	99
85) sec-Butylbenzene	11.872	105	529869	50.100	ug/l	100
86) p-Isopropyltoluene	11.994	119	446441	49.861	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	237383	49.014	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	243618	49.011	ug/l	99
89) n-Butylbenzene	12.317	91	420478	50.752	ug/l	100
90) Hexachloroethane	12.518	117	79751	50.732	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	227493	49.304	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	33020	50.918	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	153333	51.133	ug/l	100
94) Hexachlorobutadiene	13.707	225	53099	52.131	ug/l	99
95) Naphthalene	13.756	128	464206	50.836	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	142413	51.054	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

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

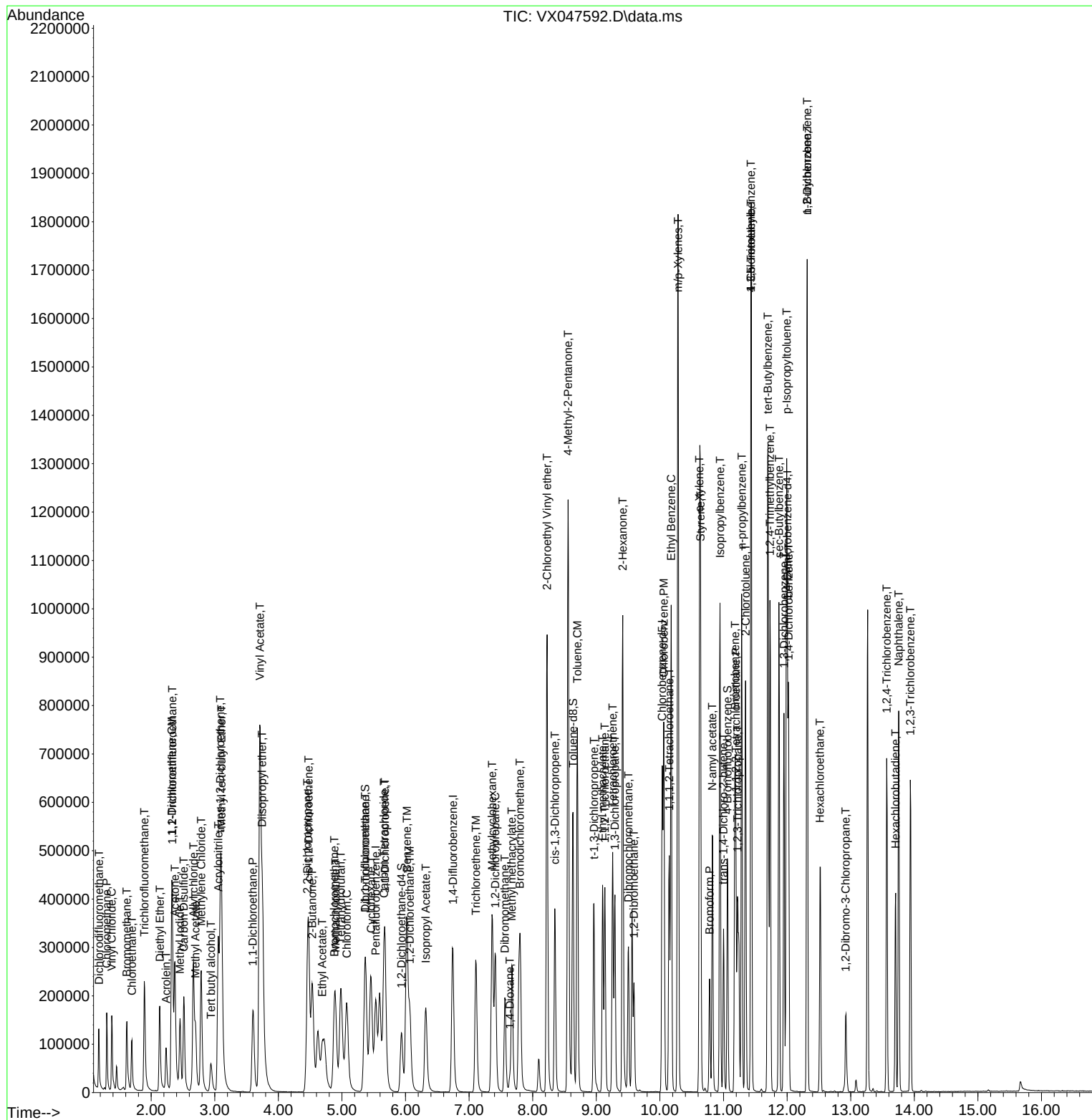
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

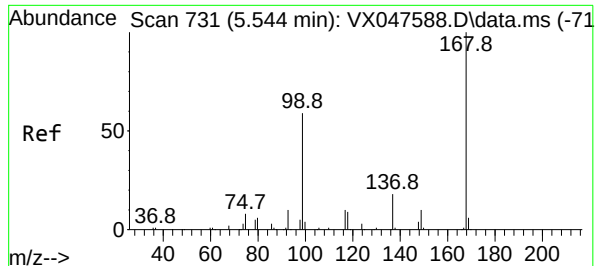
Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.531 min Scan# 71

Delta R.T. -0.013 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion:168 Resp: 186484

Ion Ratio Lower Upper

168 100

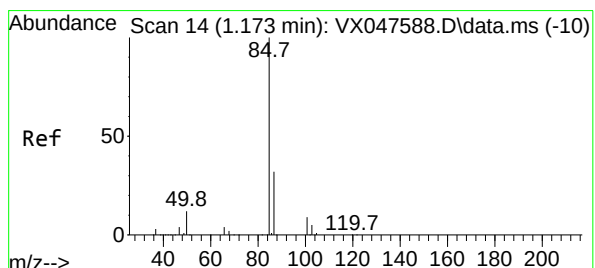
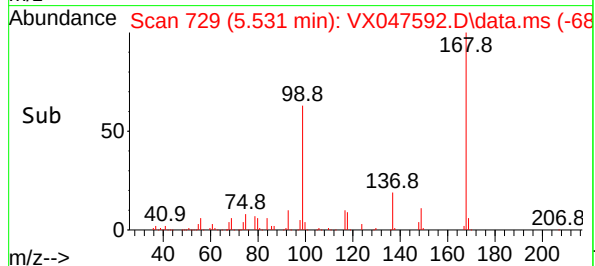
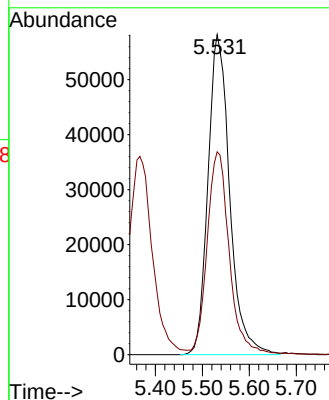
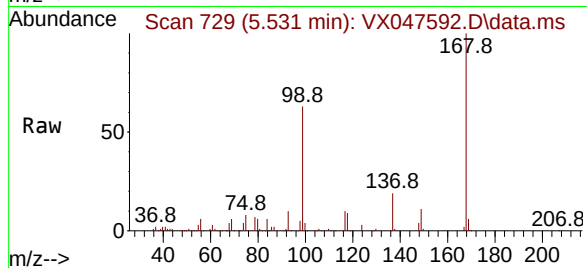
99 62.9 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#2

Dichlorodifluoromethane

Concen: 44.592 ug/l

RT: 1.179 min Scan# 15

Delta R.T. 0.006 min

Lab File: VX047592.D

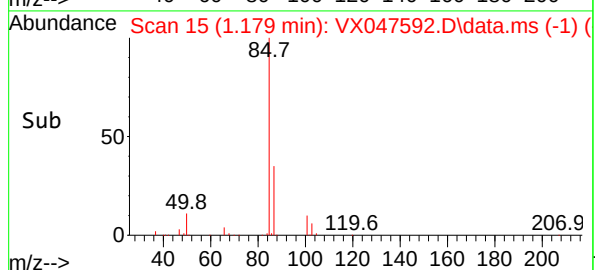
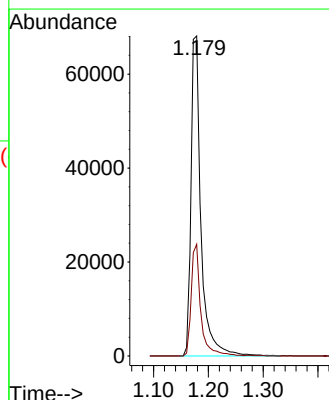
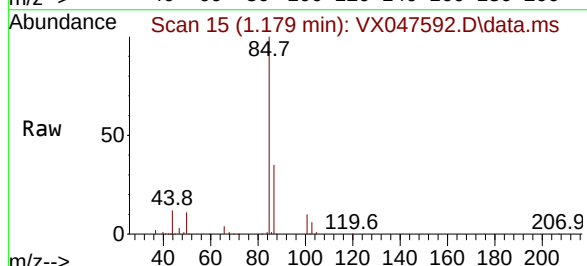
Acq: 16 Sep 2025 13:35

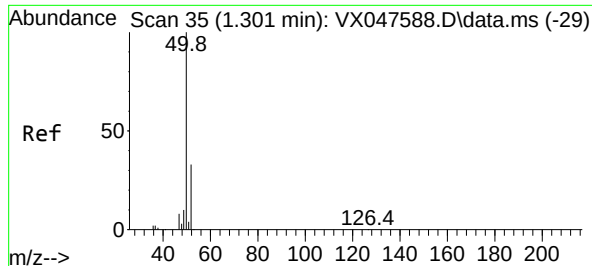
Tgt Ion: 85 Resp: 86110

Ion Ratio Lower Upper

85 100

87 34.9 15.8 47.3





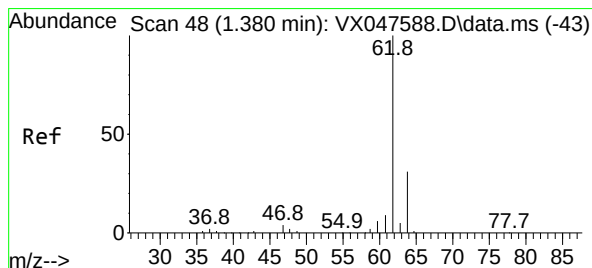
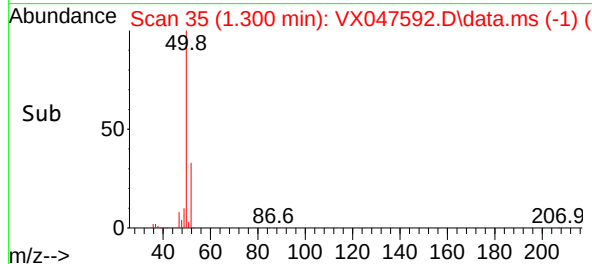
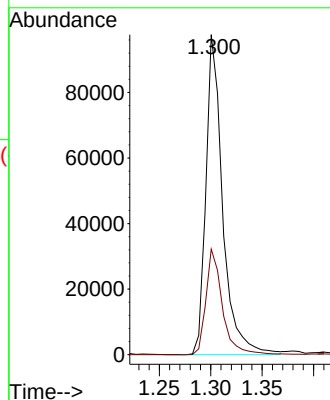
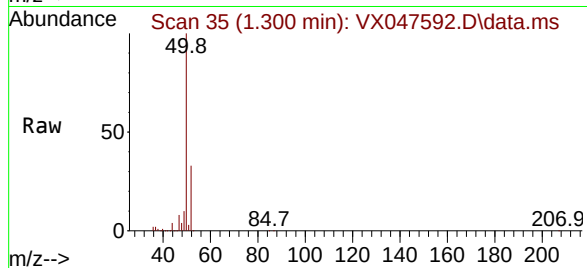
#3
Chloromethane
Concen: 43.710 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 50 Resp: 110935
Ion Ratio Lower Upper
50 100
52 33.0 26.1 39.1

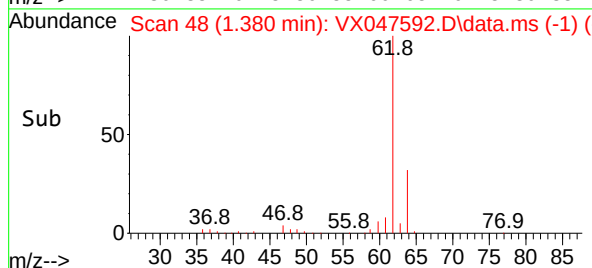
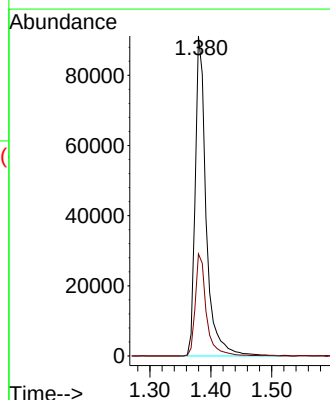
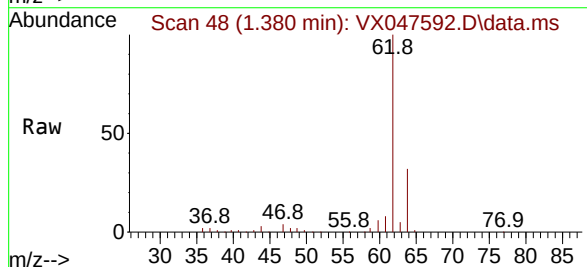
Manual Integrations
APPROVED

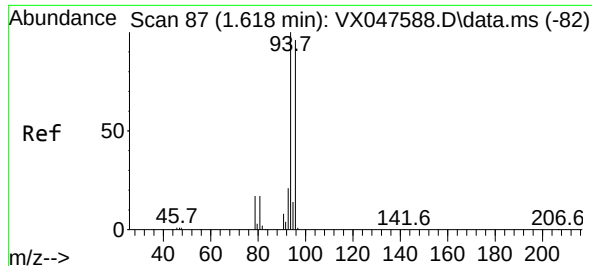
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 45.783 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

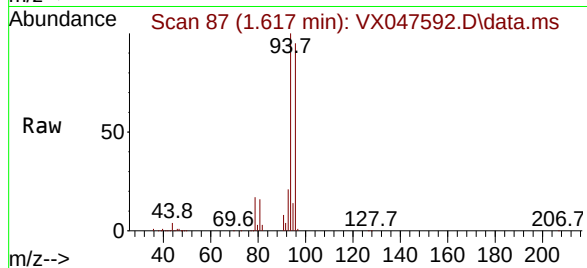
Tgt Ion: 62 Resp: 113742
Ion Ratio Lower Upper
62 100
64 31.9 24.9 37.3





#5
Bromomethane
Concen: 48.489 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

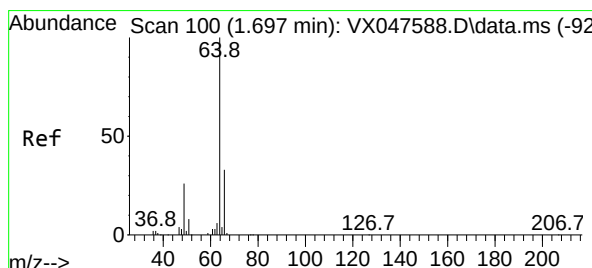
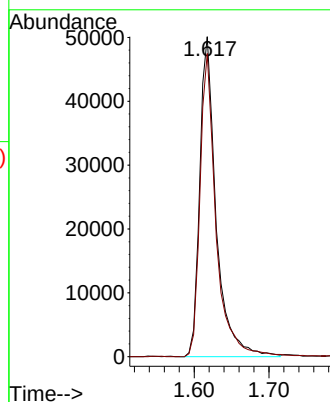
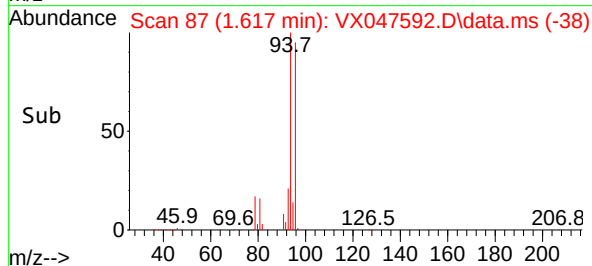
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 94 Resp: 7638
Ion Ratio Lower Upper
94 100
96 94.7 76.6 115.0

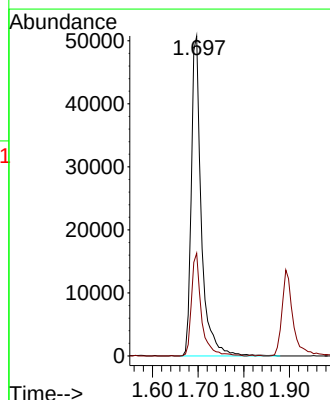
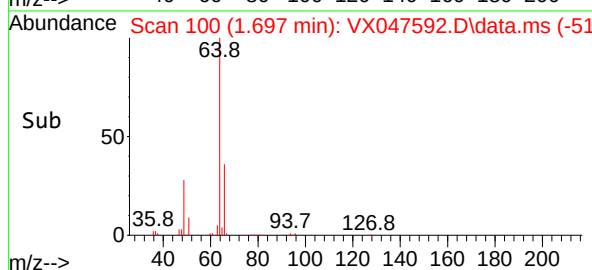
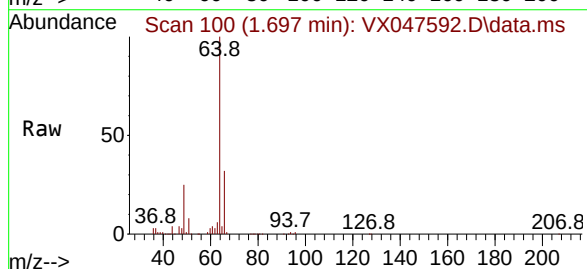
Manual Integrations
APPROVED

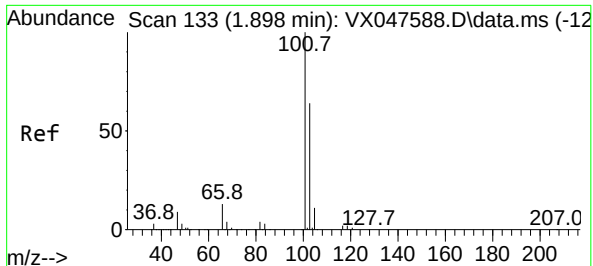
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 46.575 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

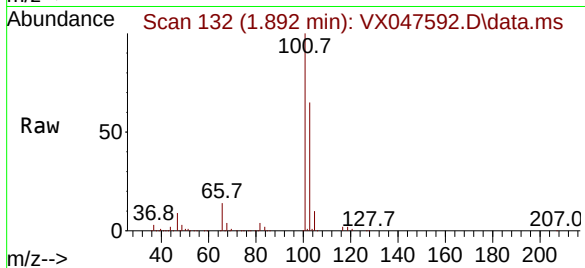
Tgt Ion: 64 Resp: 77337
Ion Ratio Lower Upper
64 100
66 32.1 26.1 39.1





#7
Trichlorofluoromethane
Concen: 47.074 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

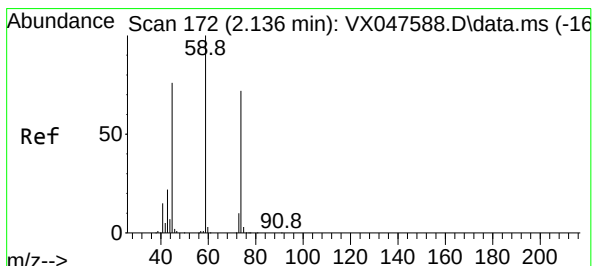
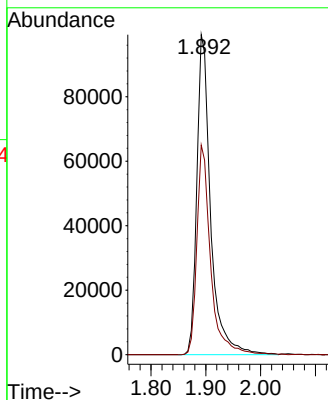
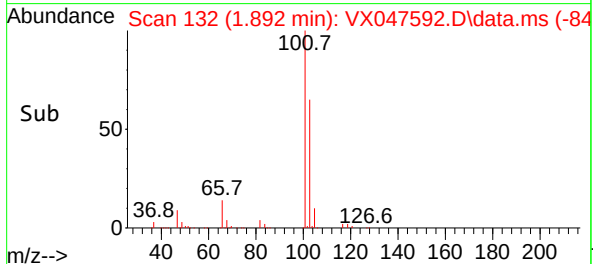
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:101 Resp: 17364
Ion Ratio Lower Upper
101 100
103 65.5 51.4 77.2

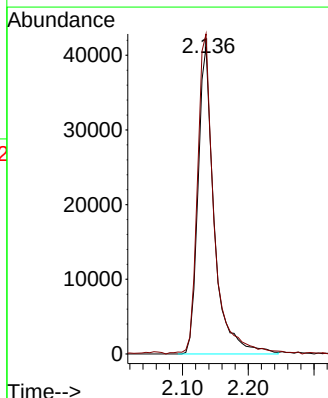
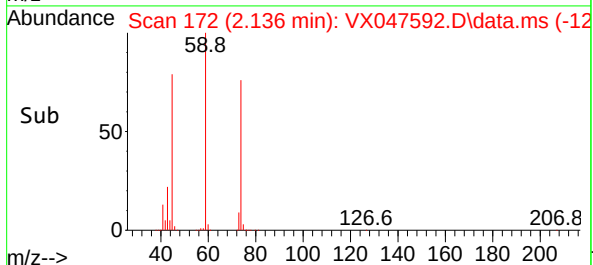
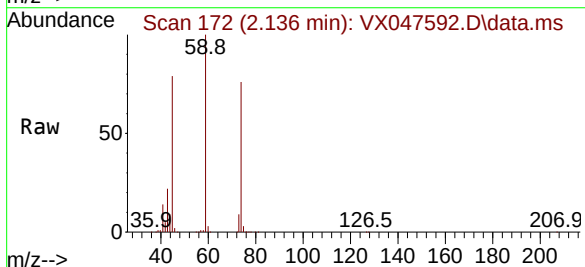
Manual Integrations
APPROVED

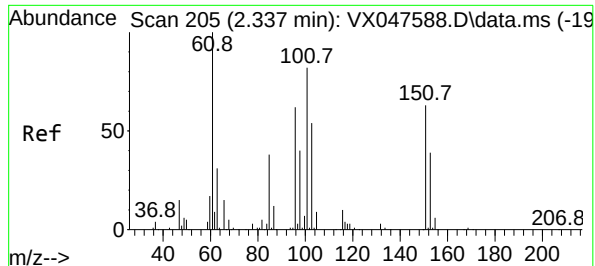
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 46.693 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 74 Resp: 70459
Ion Ratio Lower Upper
74 100
45 107.1 52.3 156.8





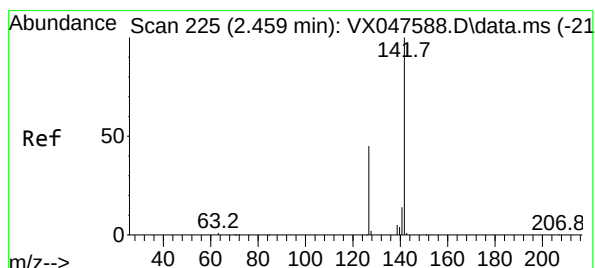
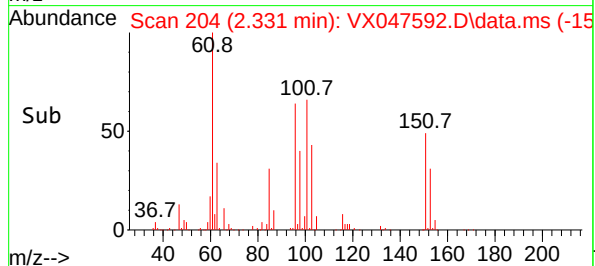
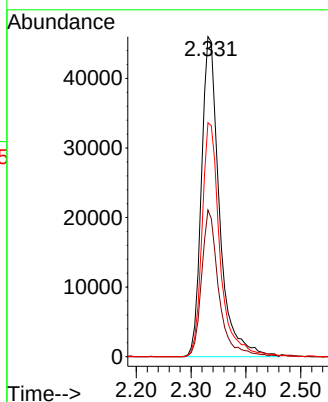
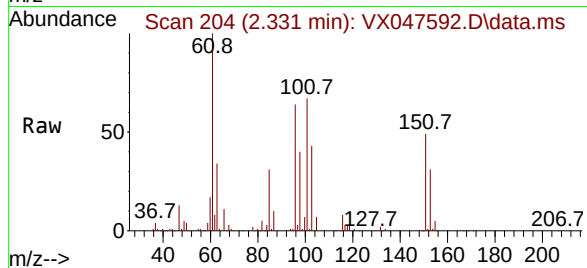
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.524 ug/l
RT: 2.331 min Scan# 205
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:101 Resp: 10466
Ion Ratio Lower Upper
101 100
85 44.1 35.5 53.3
151 73.3 59.4 89.0

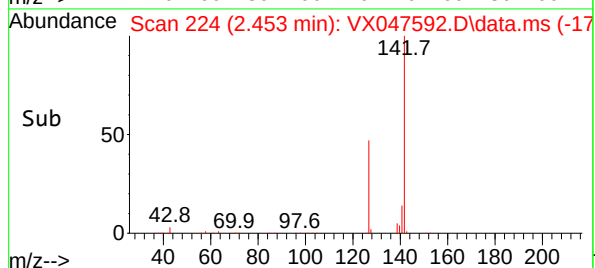
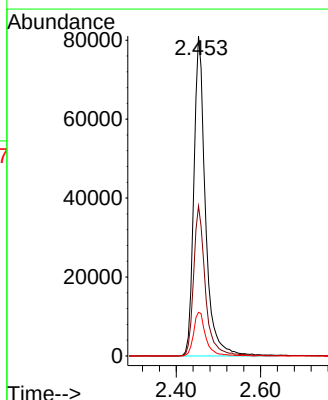
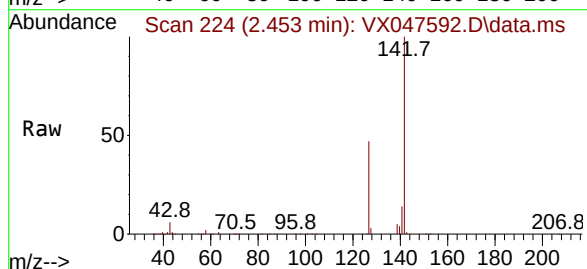
Manual Integrations
APPROVED

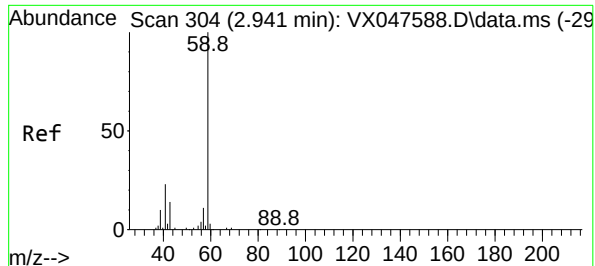
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#10
Methyl Iodide
Concen: 46.210 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:142 Resp: 155450
Ion Ratio Lower Upper
142 100
127 47.6 37.2 55.8
141 14.4 11.4 17.0





#11

Tert butyl alcohol

Concen: 256.271 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 59 Resp: 8472

Ion Ratio Lower Upper

59 100

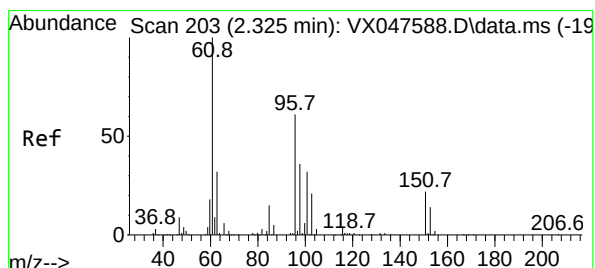
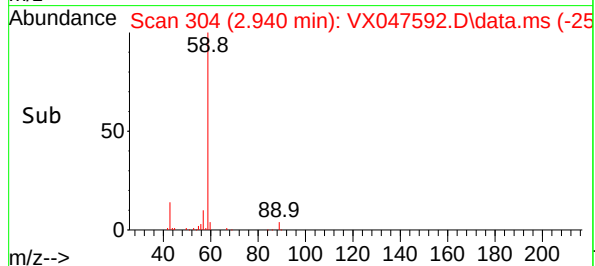
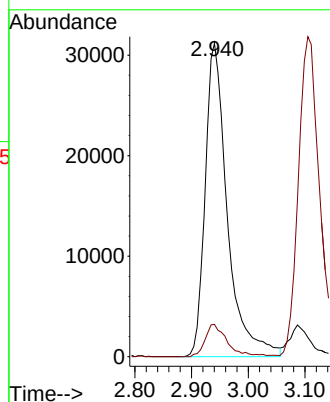
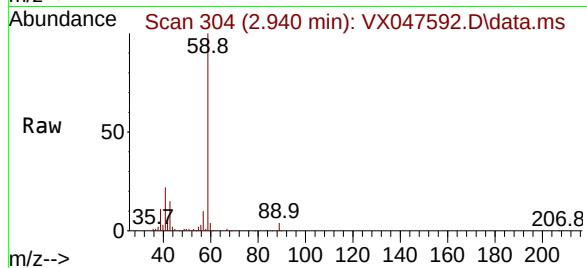
57 10.3 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 47.076 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

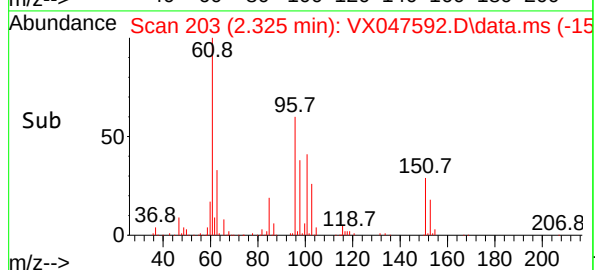
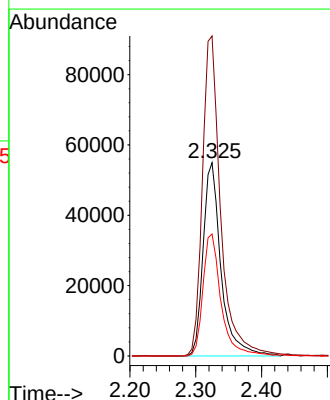
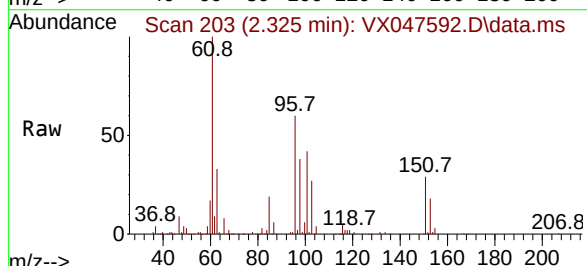
Tgt Ion: 96 Resp: 104302

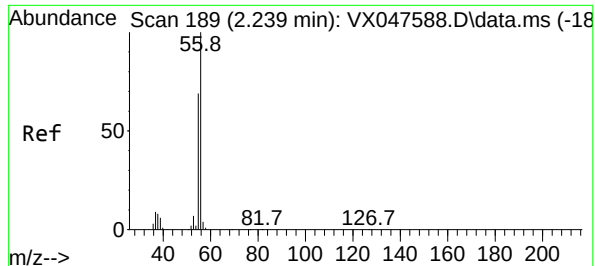
Ion Ratio Lower Upper

96 100

61 165.6 131.0 196.6

98 63.1 47.7 71.5





#13

Acrolein

Concen: 254.867 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 56 Resp: 77649

Ion Ratio Lower Upper

56 100

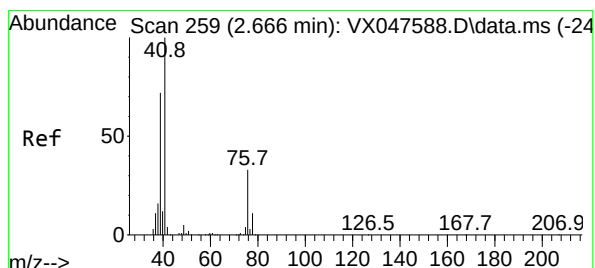
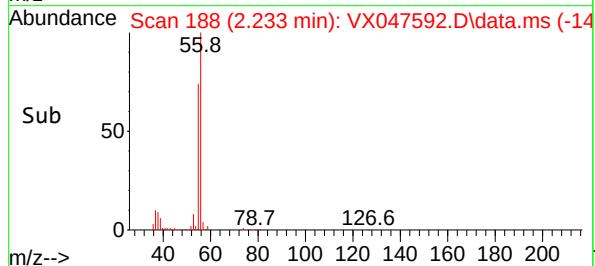
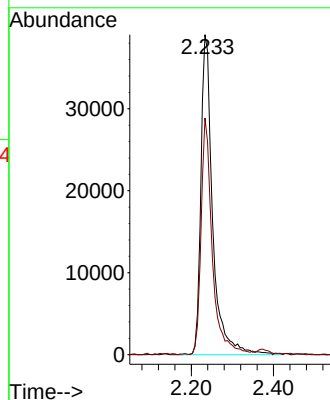
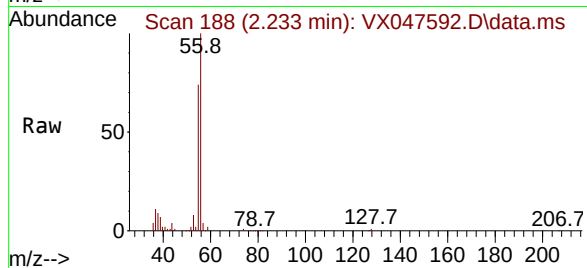
55 70.3 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 46.742 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

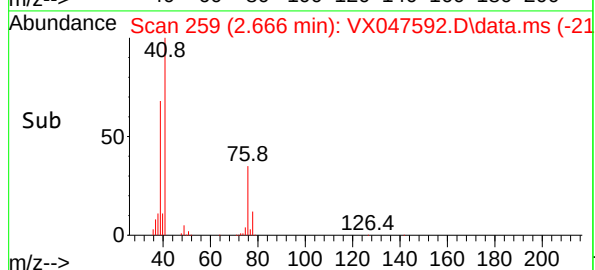
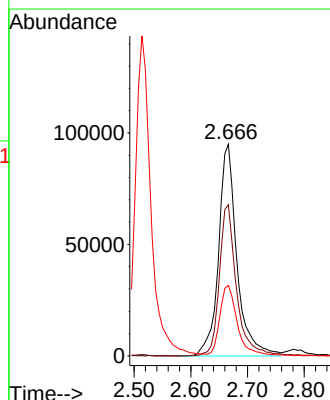
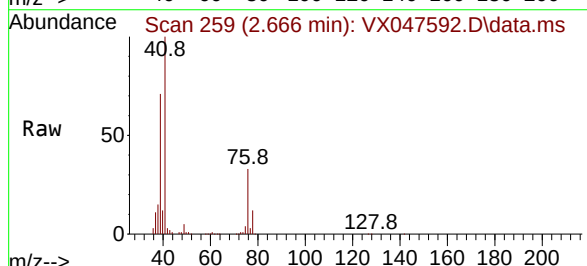
Tgt Ion: 41 Resp: 213704

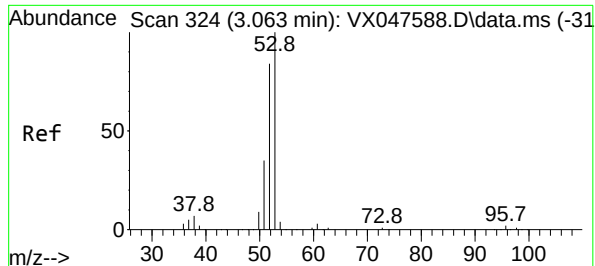
Ion Ratio Lower Upper

41 100

39 67.2 54.7 82.1

76 31.7 25.7 38.5





#15

Acrylonitrile

Concen: 253.567 ug/l

RT: 3.056 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 53 Resp: 31050

Ion Ratio Lower Upper

53 100

52 82.6 66.4 99.6

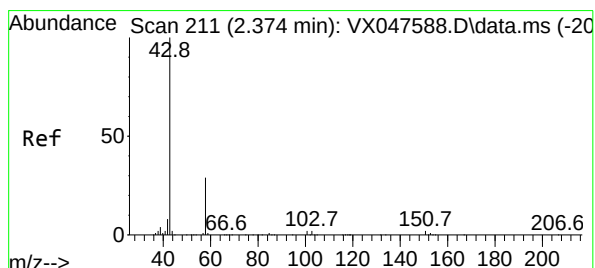
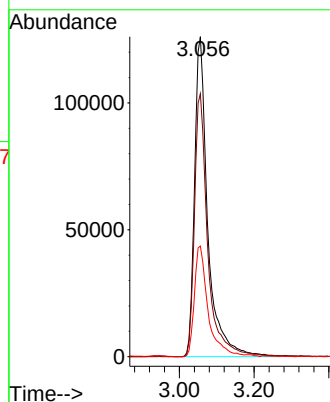
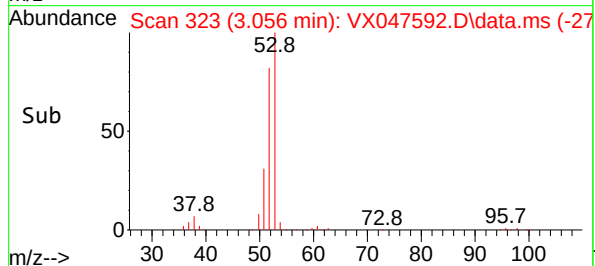
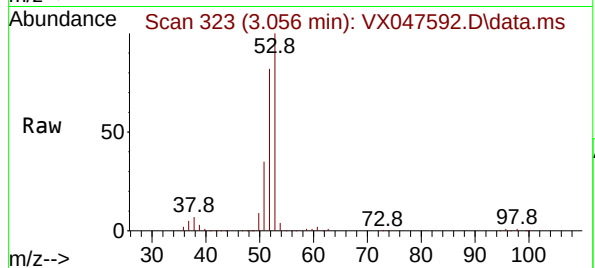
51 36.2 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 245.006 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX047592.D

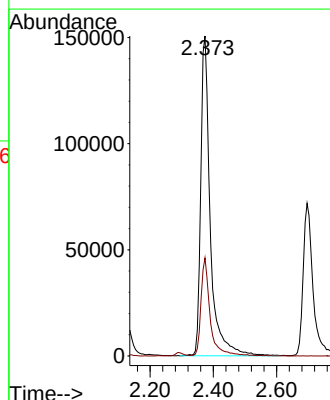
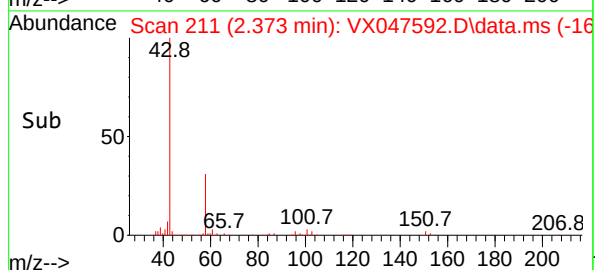
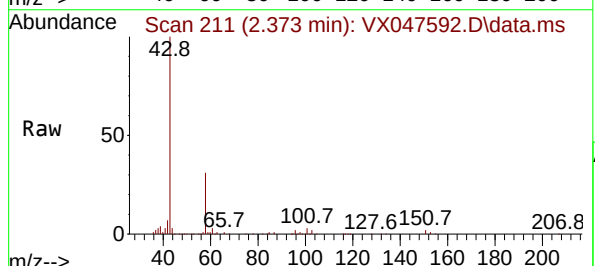
Acq: 16 Sep 2025 13:35

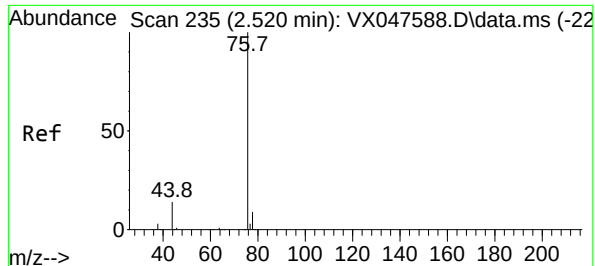
Tgt Ion: 43 Resp: 316217

Ion Ratio Lower Upper

43 100

58 30.6 23.4 35.0





#17

Carbon Disulfide

Concen: 44.966 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 76 Resp: 27274

Ion Ratio Lower Upper

76 100

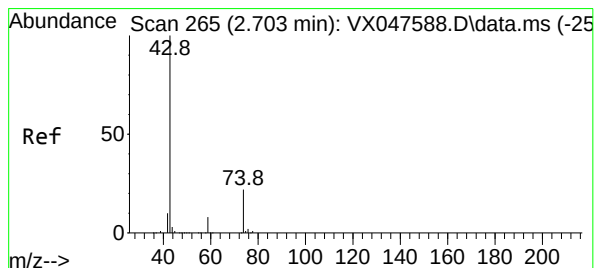
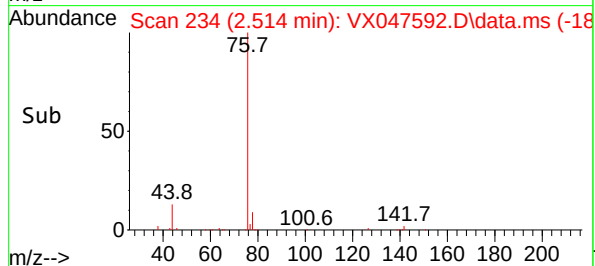
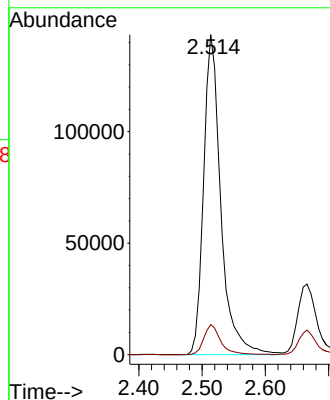
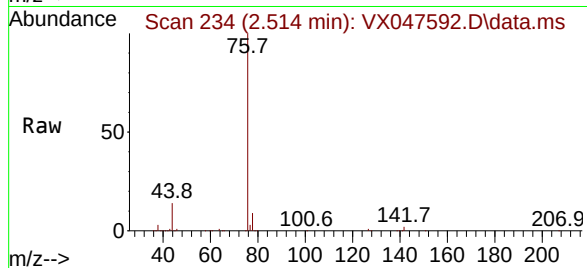
78 9.6 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 55.175 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.006 min

Lab File: VX047592.D

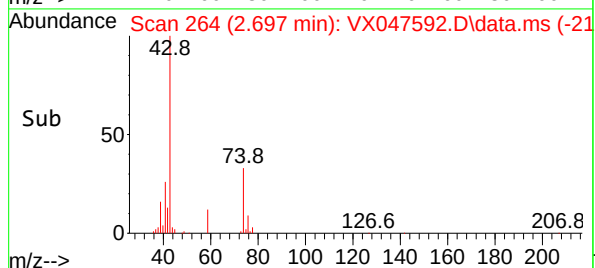
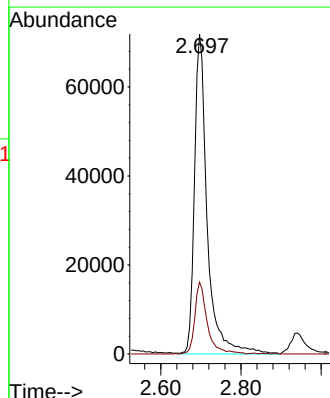
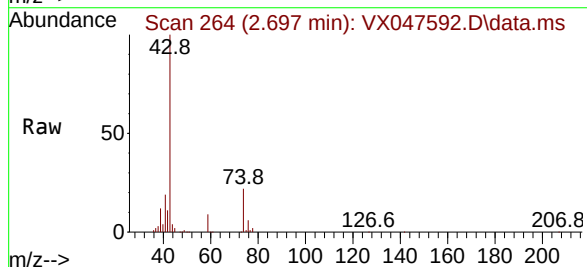
Acq: 16 Sep 2025 13:35

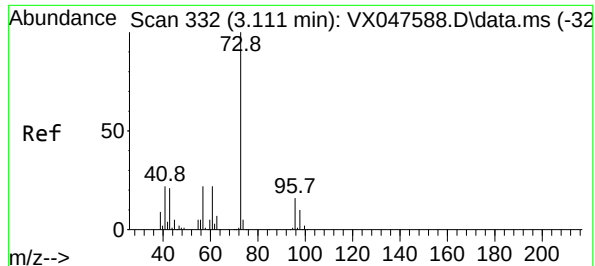
Tgt Ion: 43 Resp: 158480

Ion Ratio Lower Upper

43 100

74 21.8 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 48.538 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 73 Resp: 392574

Ion Ratio Lower Upper

73 100

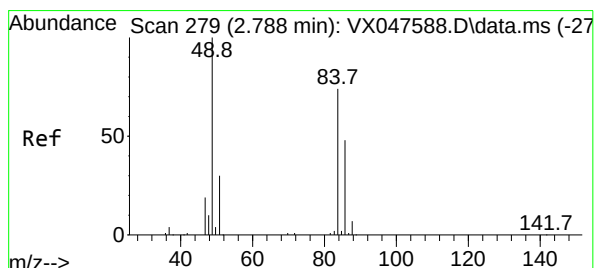
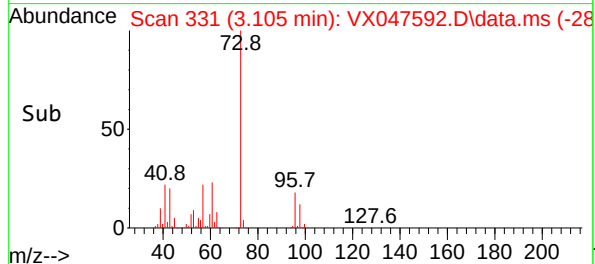
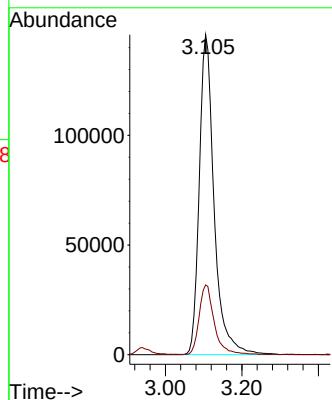
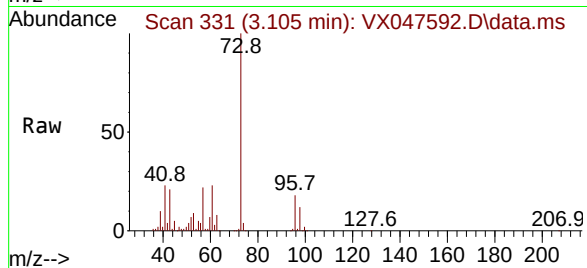
57 21.7 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 46.000 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion: 84 Resp: 125669

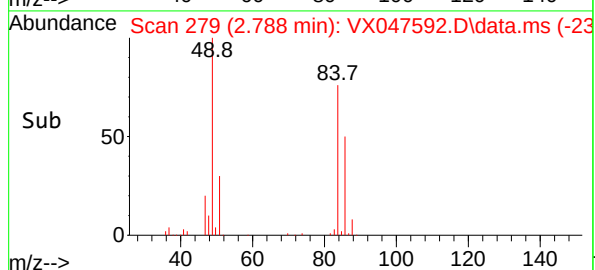
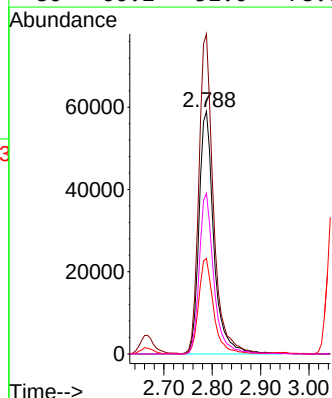
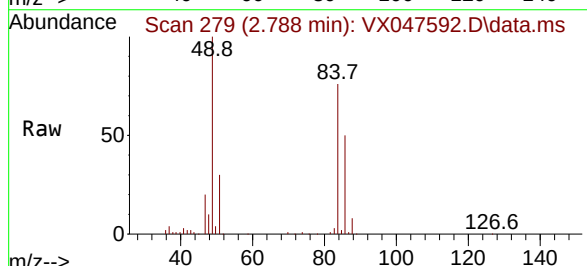
Ion Ratio Lower Upper

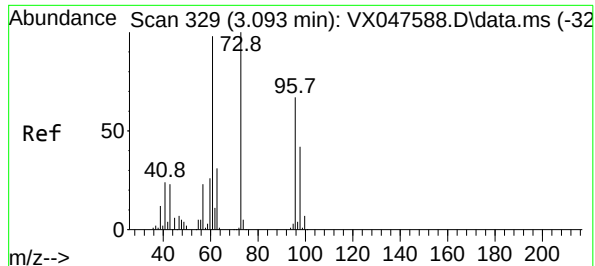
84 100

49 131.8 108.6 162.8

51 39.4 32.6 48.8

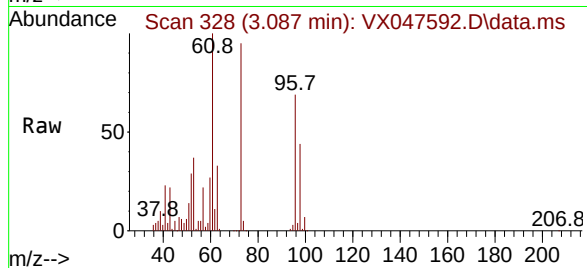
86 66.2 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 3.087 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

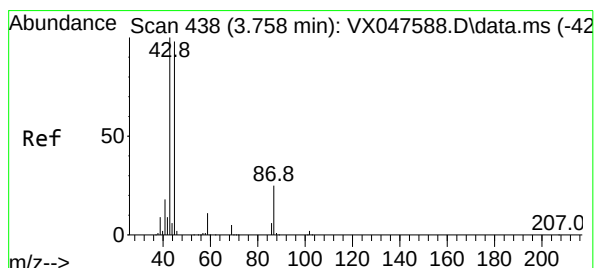
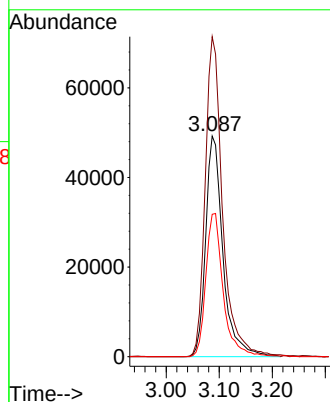
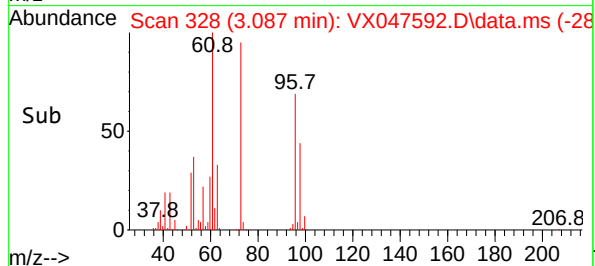
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 96 Resp: 111418
Ion Ratio Lower Upper
96 100
61 145.1 116.2 174.2
98 64.5 49.3 73.9

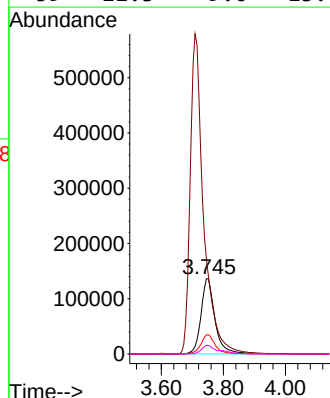
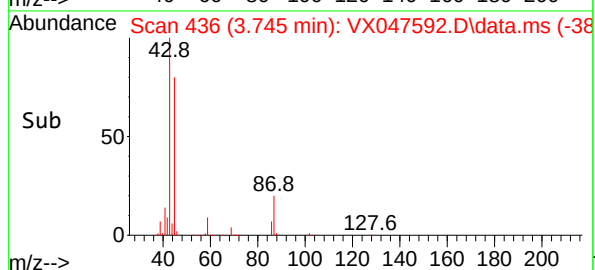
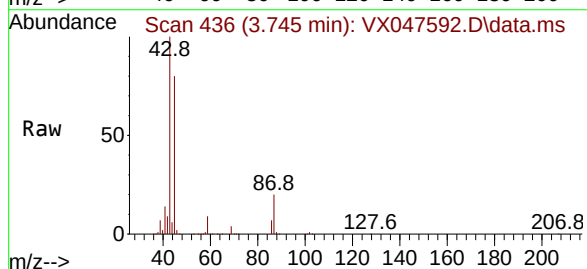
Manual Integrations
APPROVED

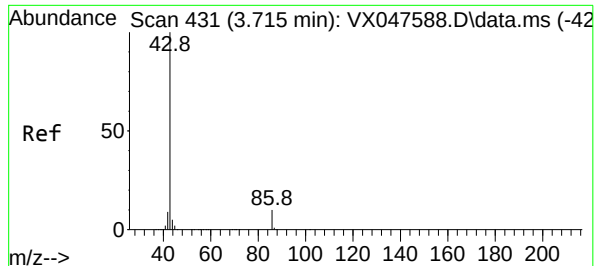
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 48.174 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

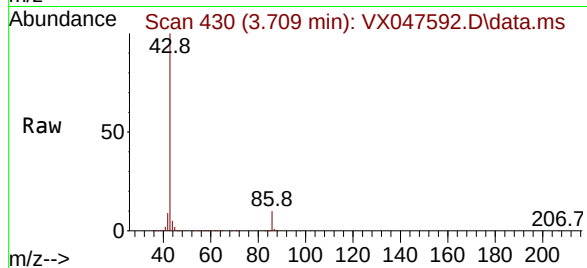
Tgt Ion: 45 Resp: 426854
Ion Ratio Lower Upper
45 100
43 124.9 81.0 121.4#
87 25.2 20.3 30.5
59 11.3 9.0 13.4





#23
Vinyl Acetate
Concen: 245.539 ug/l
RT: 3.709 min Scan# 41
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

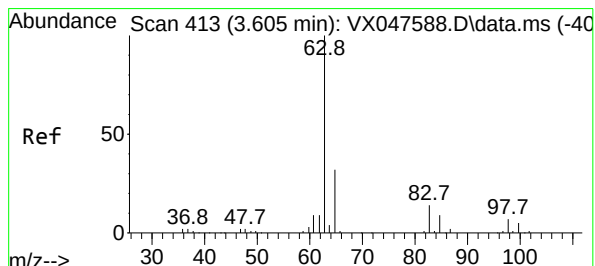
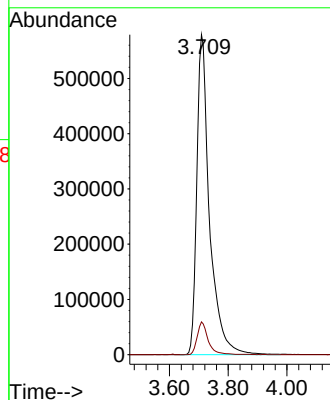
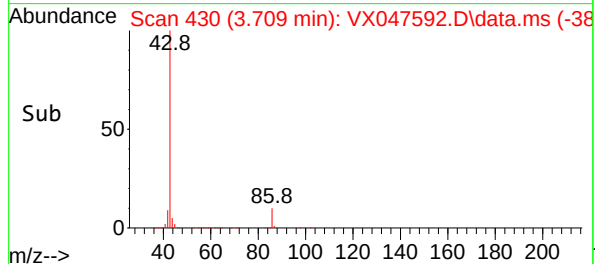
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 43 Resp: 174126
Ion Ratio Lower Upper
43 100
86 10.2 7.8 11.8

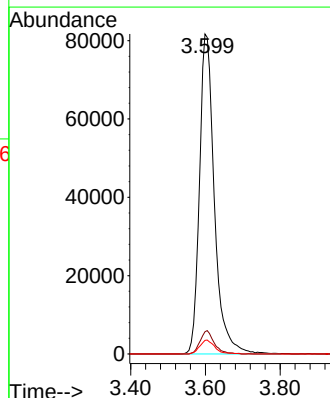
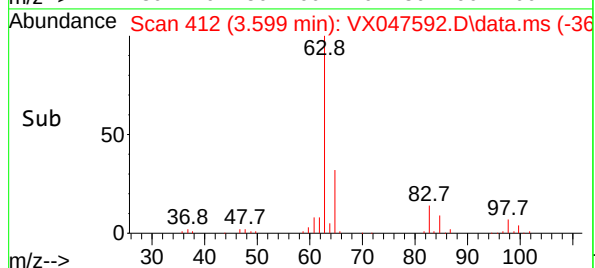
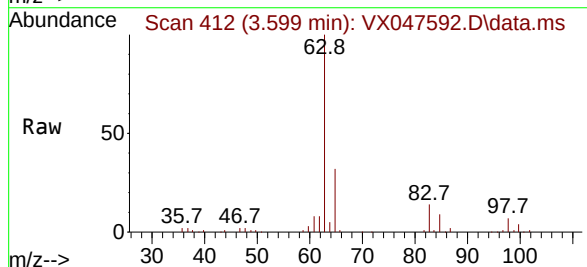
Manual Integrations
APPROVED

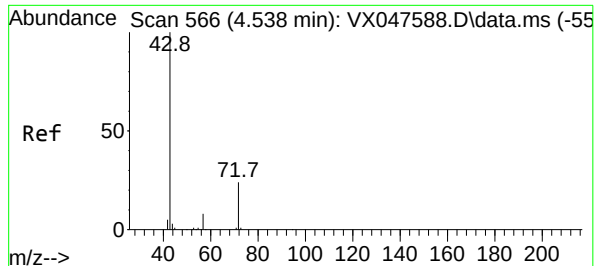
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#24
1,1-Dichloroethane
Concen: 48.041 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

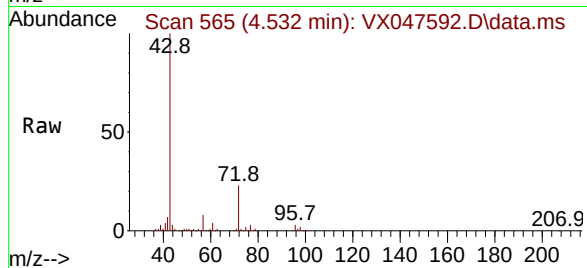
Tgt Ion: 63 Resp: 226249
Ion Ratio Lower Upper
63 100
98 6.9 3.8 11.2
100 4.4 2.3 6.9





#25
2-Butanone
Concen: 253.598 ug/l
RT: 4.532 min Scan# 50
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

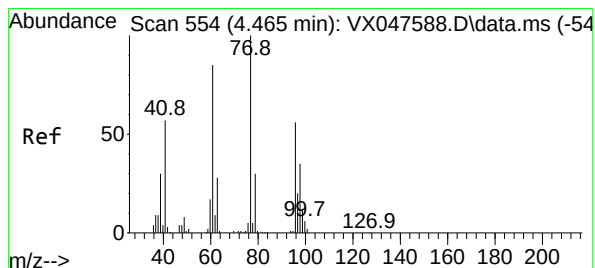
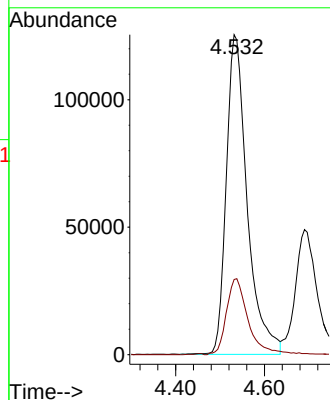
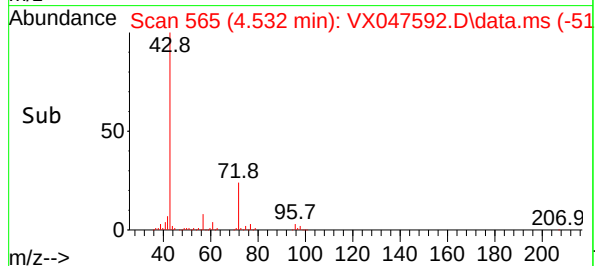
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 43 Resp: 40827
Ion Ratio Lower Upper
43 100
72 23.5 20.1 30.1

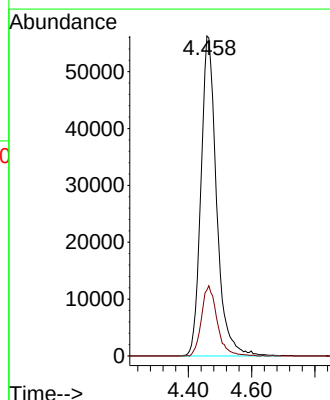
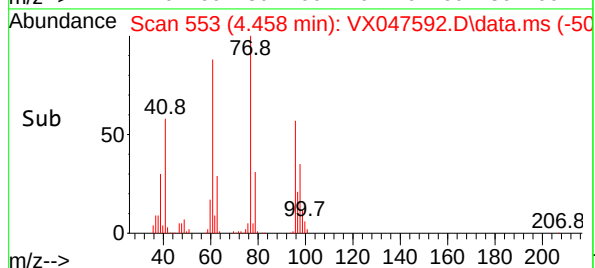
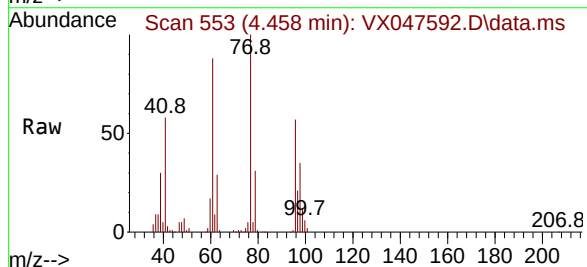
Manual Integrations
APPROVED

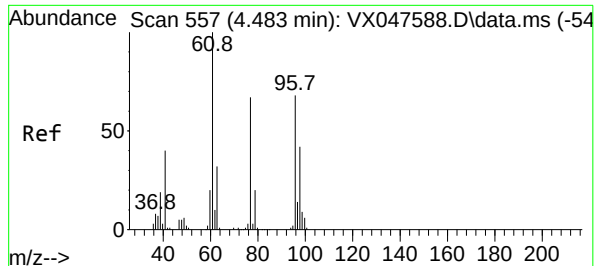
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#26
2,2-Dichloropropane
Concen: 49.494 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

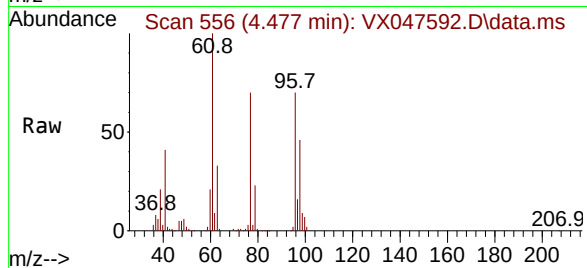
Tgt Ion: 77 Resp: 193760
Ion Ratio Lower Upper
77 100
97 22.0 10.9 32.7





#27
cis-1,2-Dichloroethene
Concen: 48.826 ug/l
RT: 4.477 min Scan# 557
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

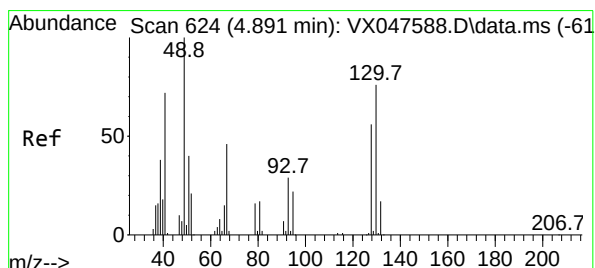
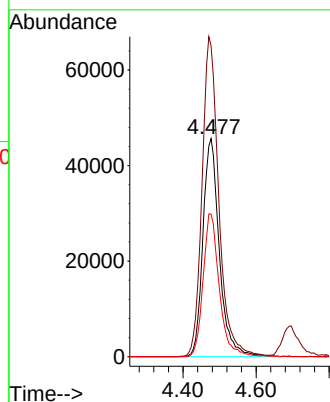
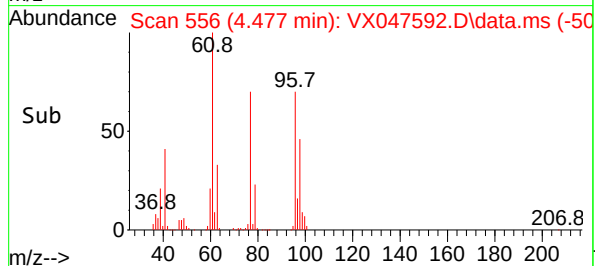
Instrument :
MSVOA_X
ClientSampleId :
ICVX091625



Tgt Ion: 96 Resp: 14263
Ion Ratio Lower Upper
96 100
61 149.7 0.0 303.2
98 64.3 0.0 127.8

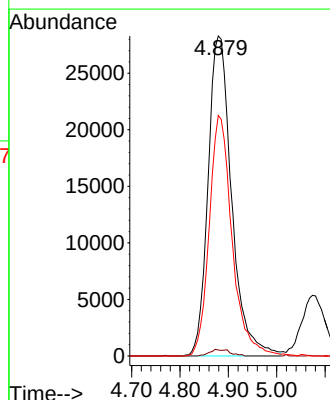
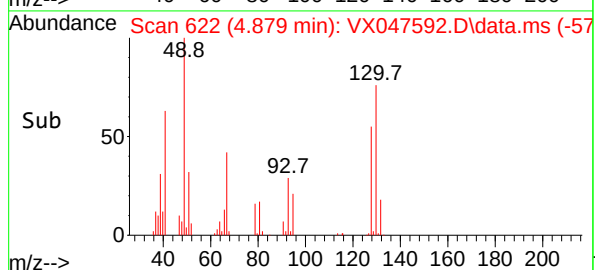
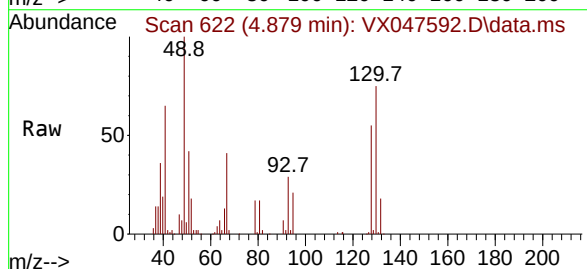
Manual Integrations
APPROVED

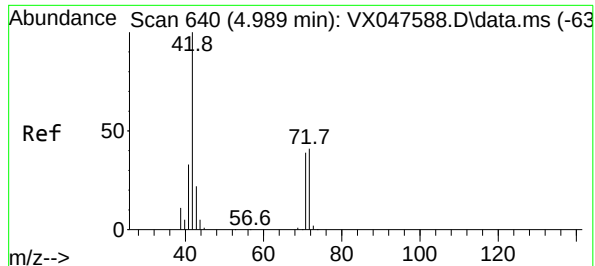
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#28
Bromochloromethane
Concen: 46.586 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 49 Resp: 95782
Ion Ratio Lower Upper
49 100
129 1.8 0.0 3.2
130 72.9 57.8 86.8





#29

Tetrahydrofuran

Concen: 253.375 ug/l

RT: 4.983 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 42 Resp: 245392

Ion Ratio Lower Upper

42 100

72 42.7 34.2 51.2

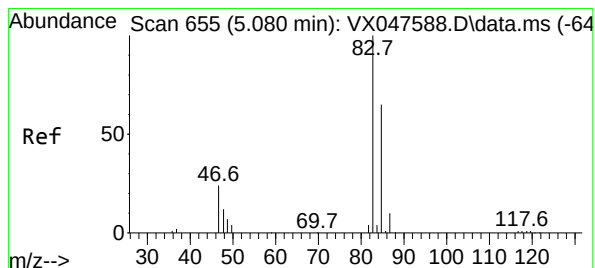
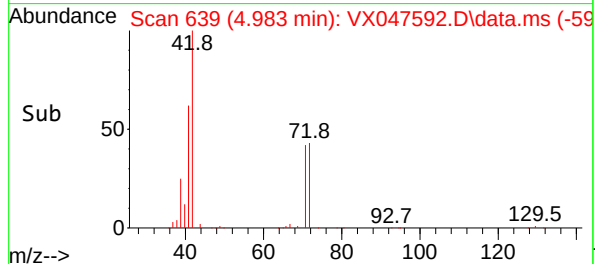
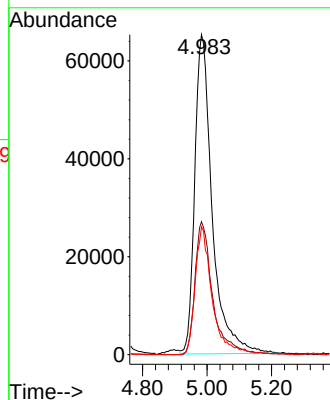
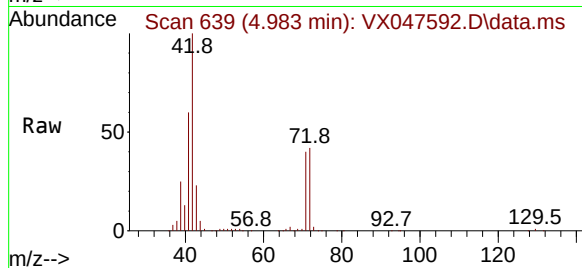
71 38.9 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 48.739 ug/l

RT: 5.074 min Scan# 654

Delta R.T. -0.006 min

Lab File: VX047592.D

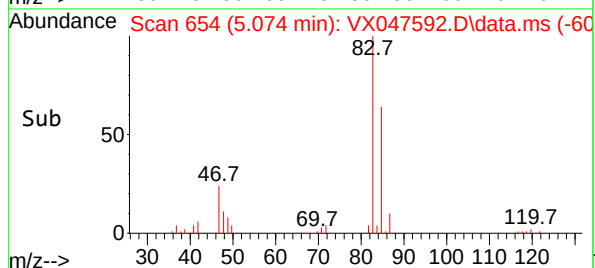
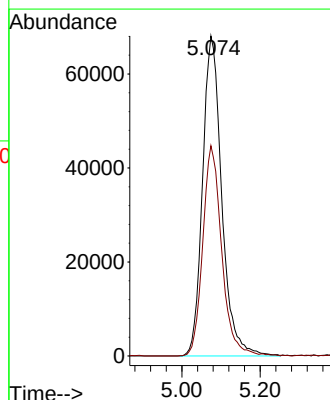
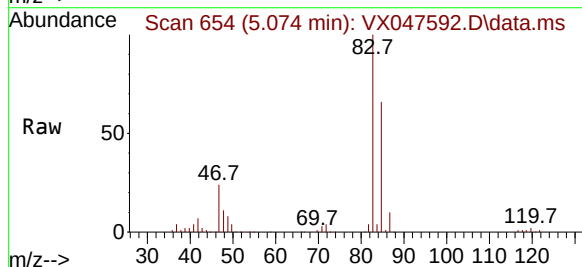
Acq: 16 Sep 2025 13:35

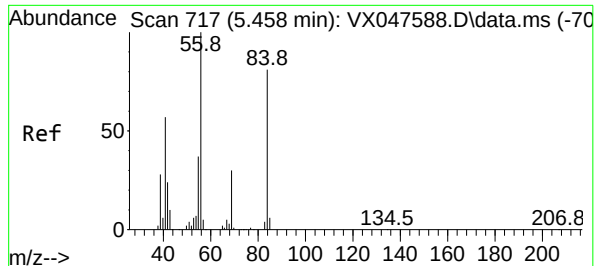
Tgt Ion: 83 Resp: 231954

Ion Ratio Lower Upper

83 100

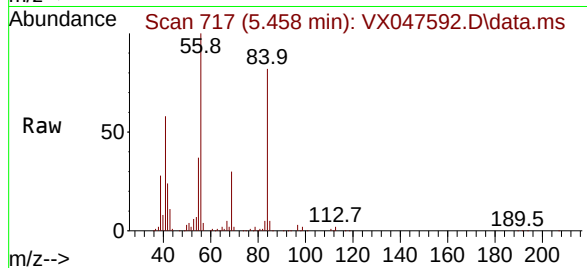
85 65.6 51.8 77.6





#31
Cyclohexane
Concen: 45.999 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

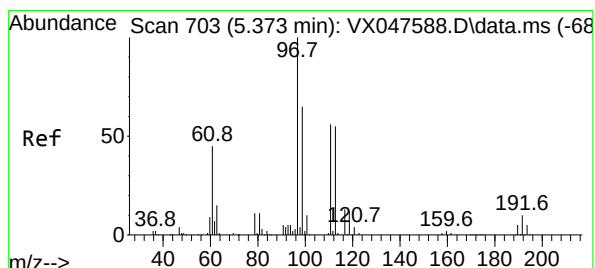
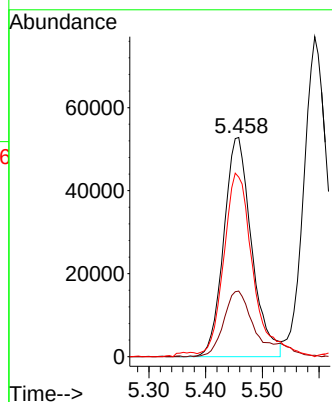
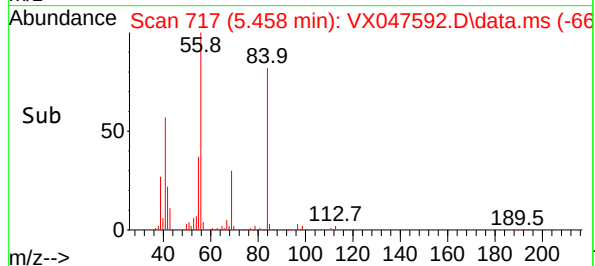
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 56 Resp: 180430
Ion Ratio Lower Upper
56 100
69 29.6 23.8 35.8
84 80.3 64.6 97.0

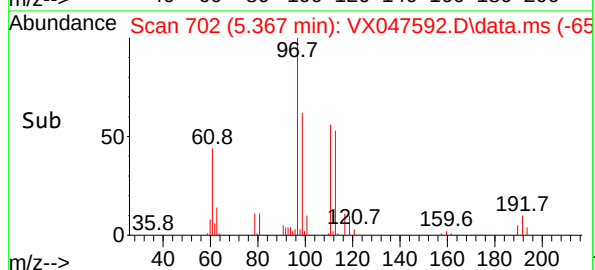
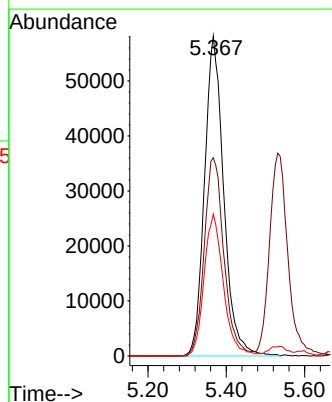
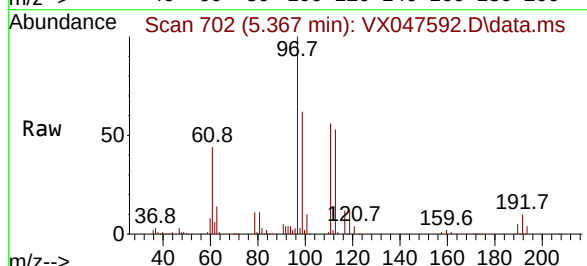
Manual Integrations
APPROVED

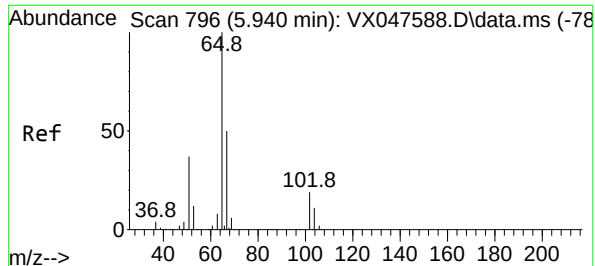
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#32
1,1,1-Trichloroethane
Concen: 48.978 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 97 Resp: 197711
Ion Ratio Lower Upper
97 100
99 63.5 50.6 76.0
61 44.6 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 45.550 ug/l

RT: 5.934 min Scan# 795

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 65 Resp: 135209

Ion Ratio Lower Upper

65 100

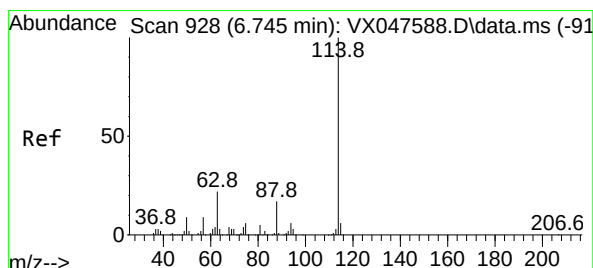
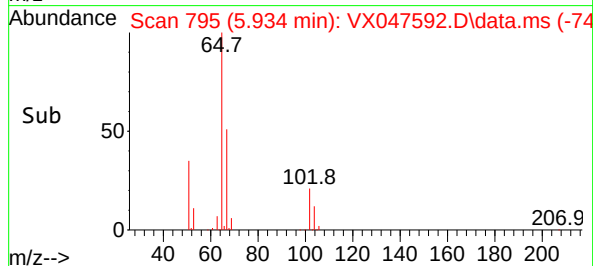
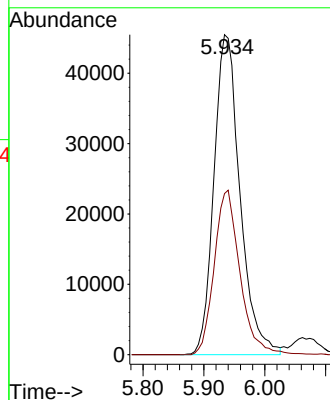
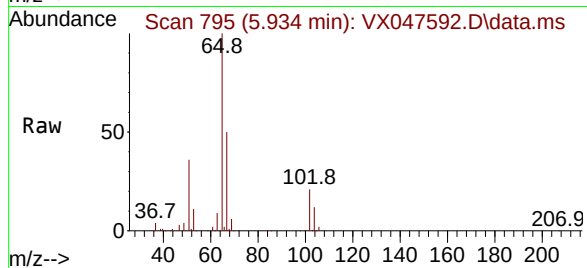
67 50.8 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

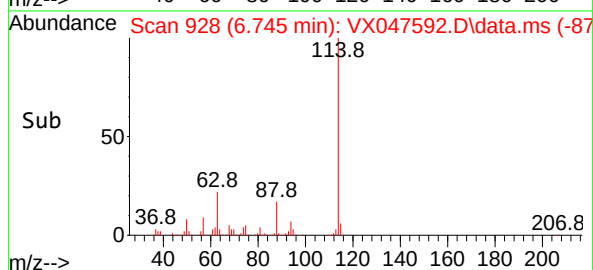
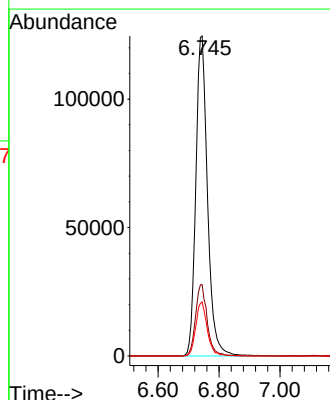
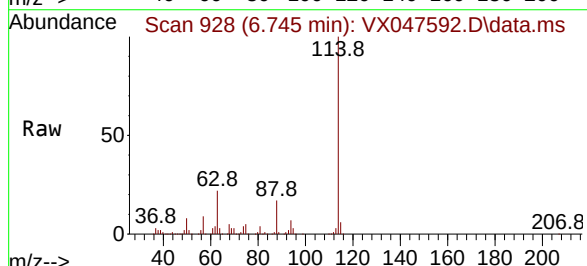
Tgt Ion:114 Resp: 331837

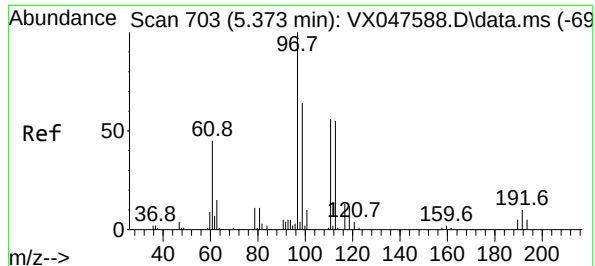
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 16.8 0.0 34.2





#35

Dibromofluoromethane

Concen: 45.559 ug/l

RT: 5.367 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion:113 Resp: 101390

Ion Ratio Lower Upper

113 100

111 103.2 80.9 121.3

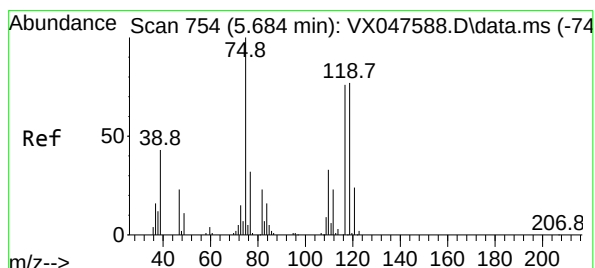
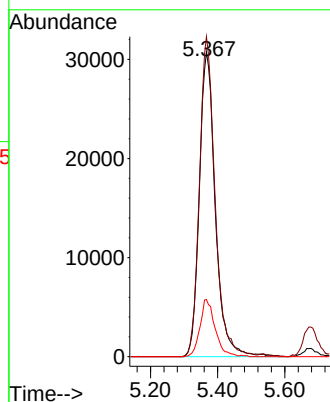
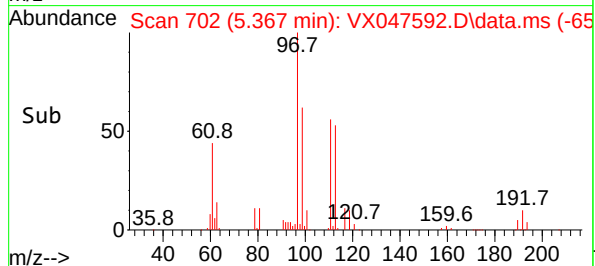
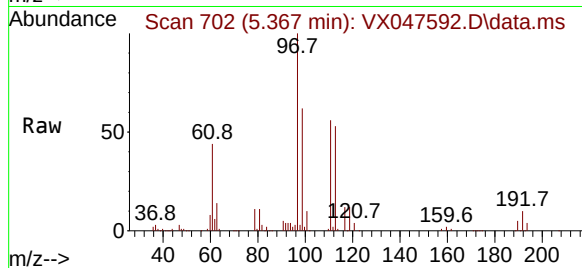
192 17.9 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 46.663 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

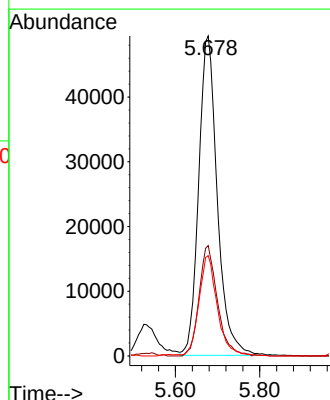
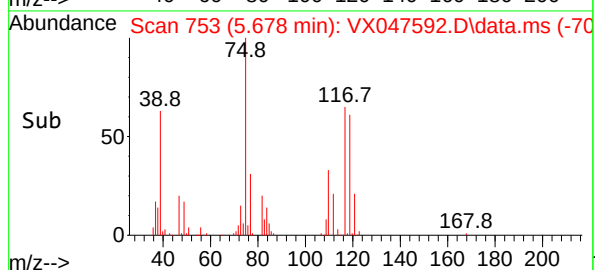
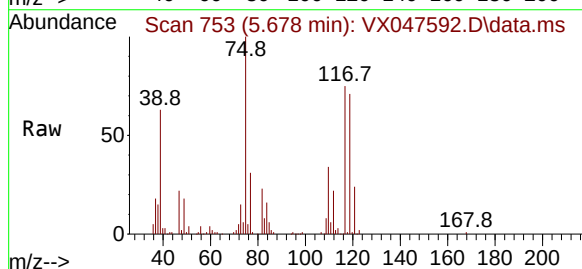
Tgt Ion: 75 Resp: 151745

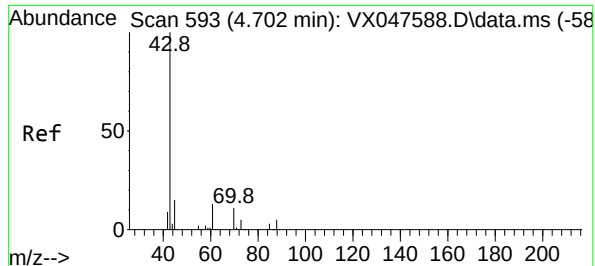
Ion Ratio Lower Upper

75 100

110 33.9 16.7 50.1

77 31.0 24.3 36.5





#37

Ethyl Acetate

Concen: 49.241 ug/l

RT: 4.690 min Scan# 591

Delta R.T. -0.012 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

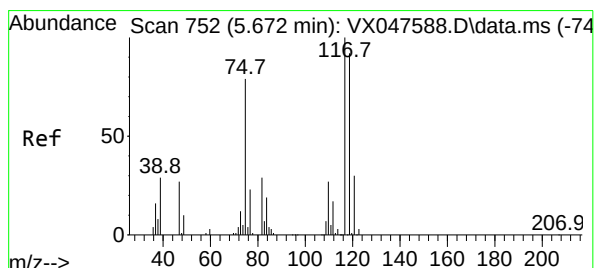
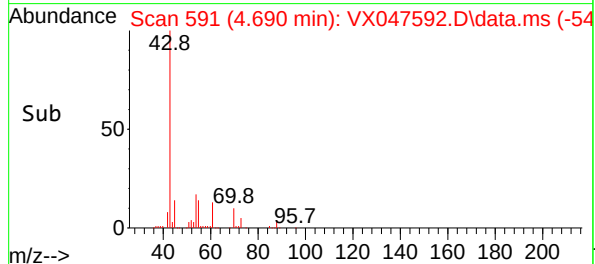
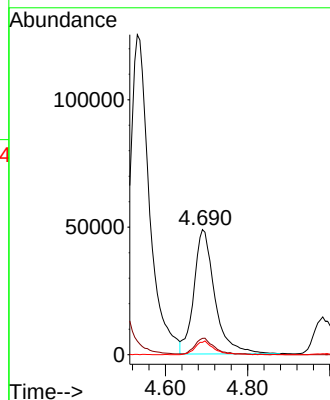
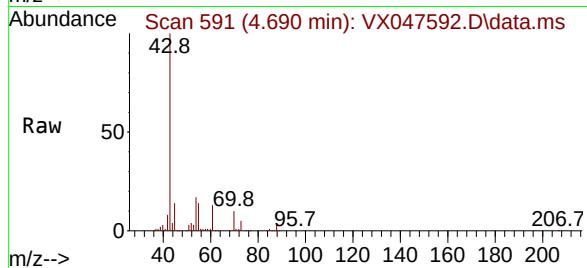
Tgt Ion:	43	Resp:	171454
Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	9.8	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 46.935 ug/l

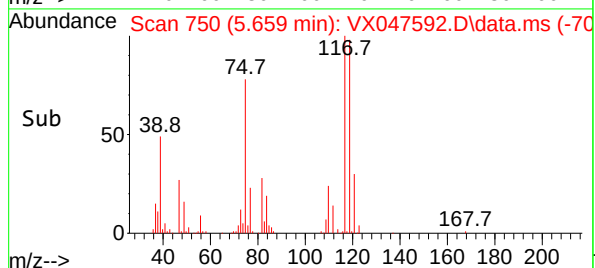
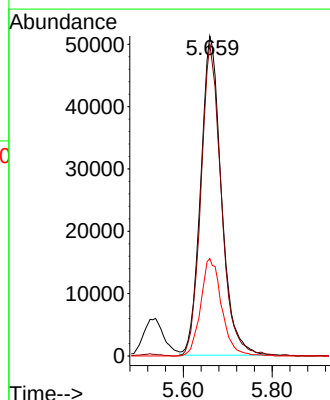
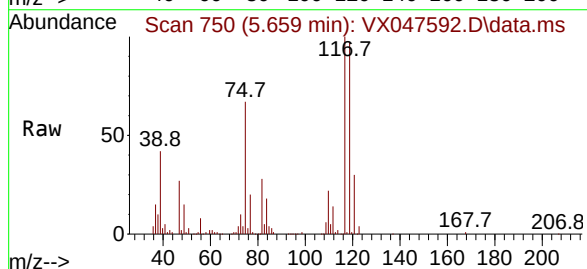
RT: 5.659 min Scan# 750

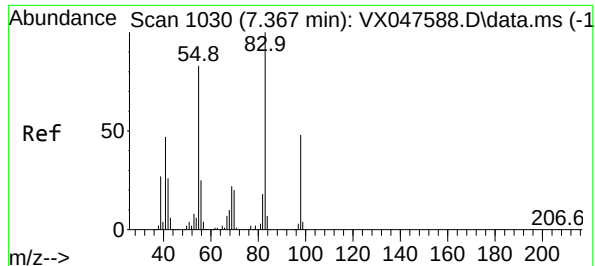
Delta R.T. -0.012 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion:	117	Resp:	165834
Ion	Ratio	Lower	Upper
117	100		
119	97.6	73.4	110.2
121	30.5	23.8	35.6





#39

Methylcyclohexane

Concen: 48.597 ug/l

RT: 7.360 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 83 Resp: 179392

Ion Ratio Lower Upper

83 100

55 81.0 66.4 99.6

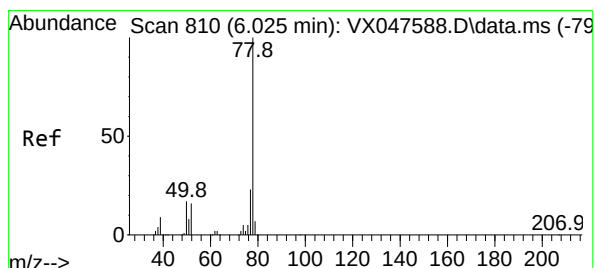
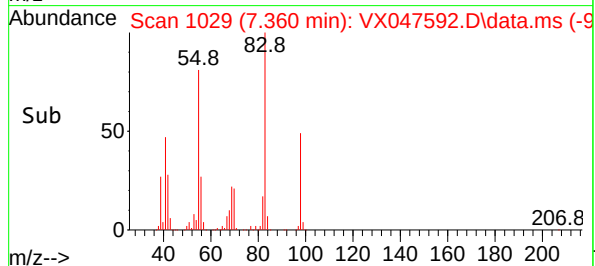
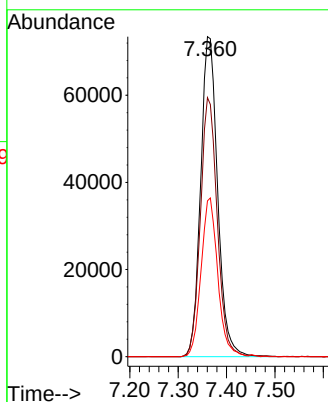
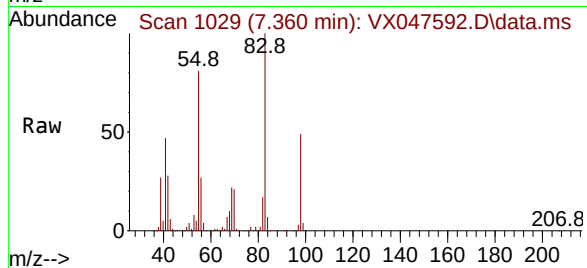
98 48.7 38.1 57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 47.357 ug/l

RT: 6.019 min Scan# 809

Delta R.T. -0.006 min

Lab File: VX047592.D

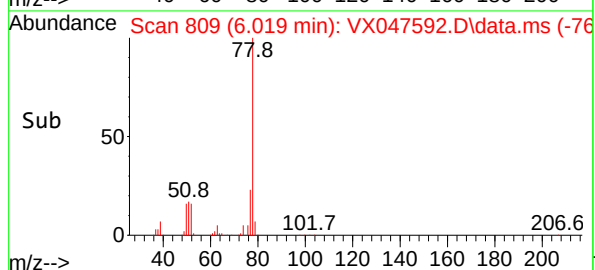
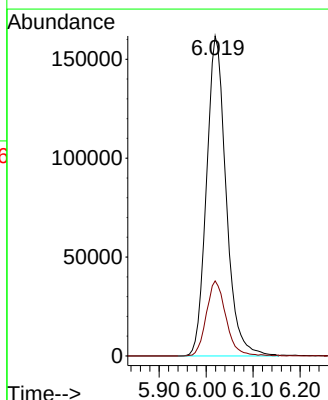
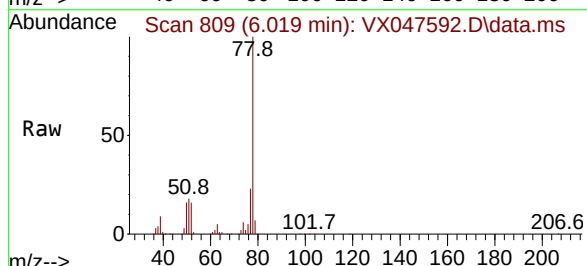
Acq: 16 Sep 2025 13:35

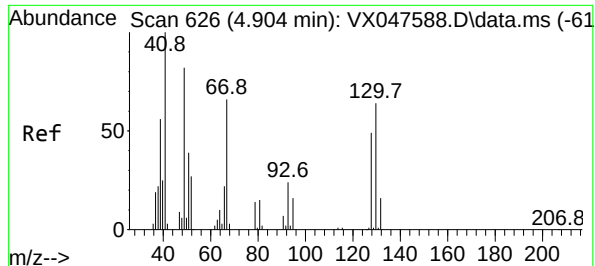
Tgt Ion: 78 Resp: 467748

Ion Ratio Lower Upper

78 100

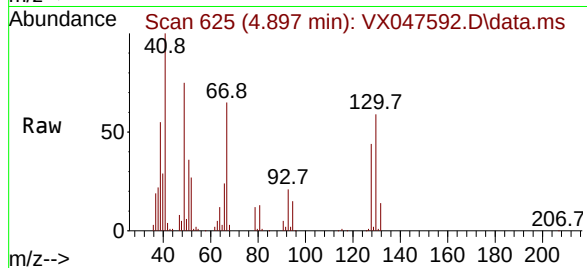
77 23.5 18.8 28.2





#41
Methacrylonitrile
Concen: 50.490 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

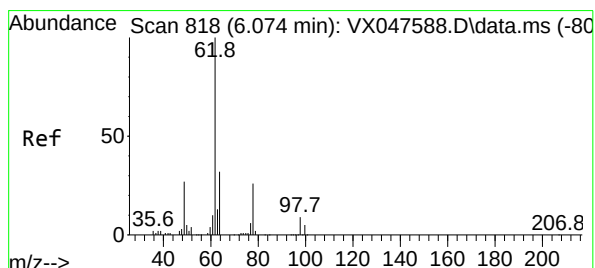
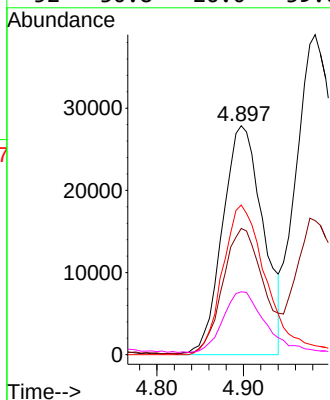
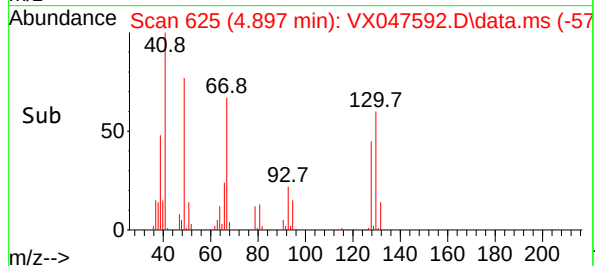
Instrument :
MSVOA_X
ClientSampleId :
ICVX091625



Tgt Ion: 41 Resp: 90758
Ion Ratio Lower Upper
41 100
39 55.9 43.3 64.9
67 72.5 58.6 87.8
52 30.8 26.0 39.0

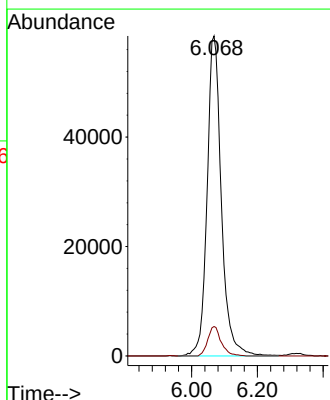
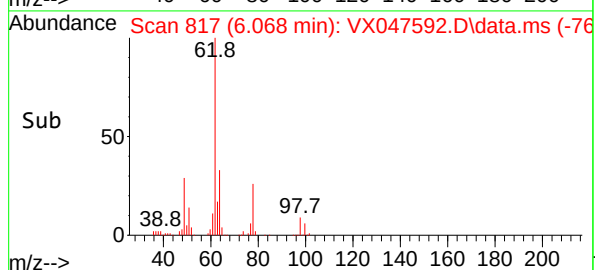
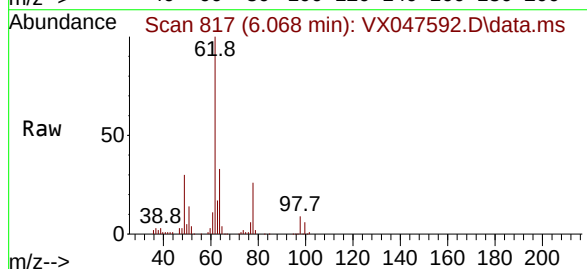
Manual Integrations
APPROVED

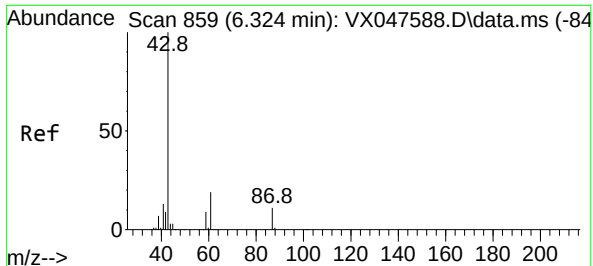
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#42
1,2-Dichloroethane
Concen: 46.867 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

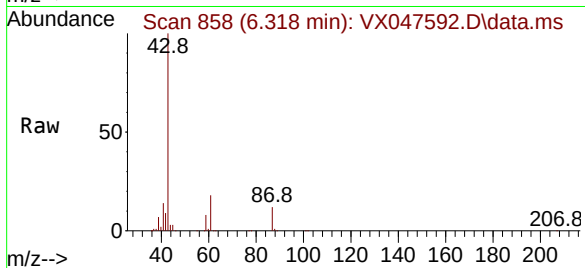
Tgt Ion: 62 Resp: 176131
Ion Ratio Lower Upper
62 100
98 8.7 0.0 17.0





#43
Isopropyl Acetate
Concen: 49.136 ug/l
RT: 6.318 min Scan# 858
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

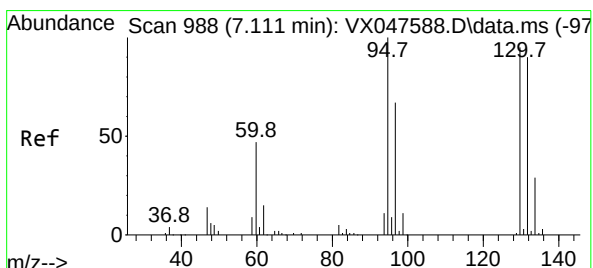
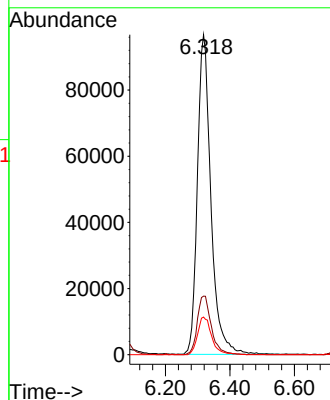
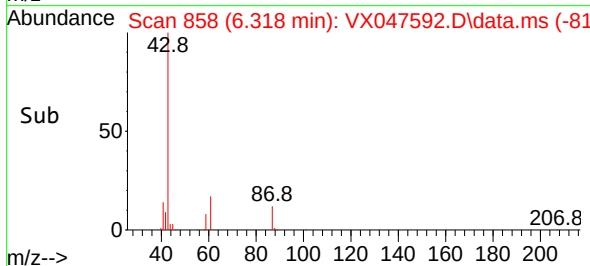
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 43 Resp: 28059
Ion Ratio Lower Upper
43 100
61 19.1 15.2 22.8
87 12.2 9.6 14.4

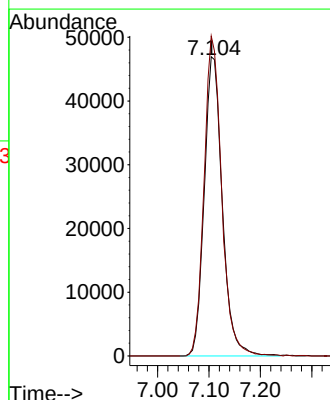
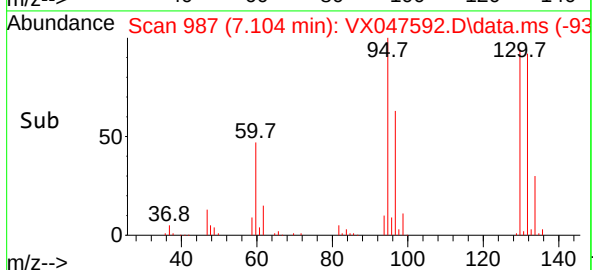
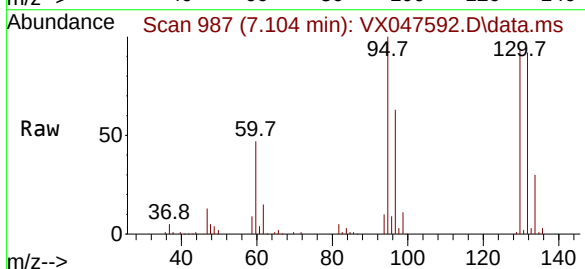
Manual Integrations
APPROVED

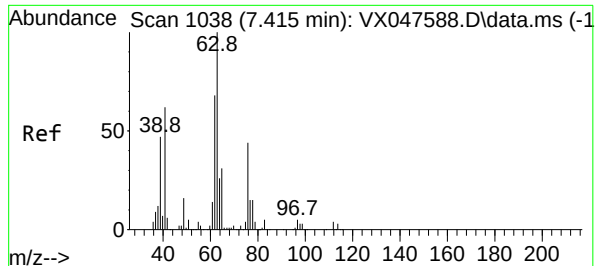
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#44
Trichloroethene
Concen: 48.037 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:130 Resp: 114708
Ion Ratio Lower Upper
130 100
95 107.0 0.0 210.8





#45

1,2-Dichloropropane

Concen: 48.053 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 63 Resp: 12153

Ion Ratio Lower Upper

63 100

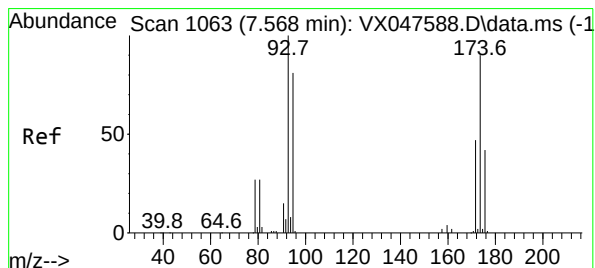
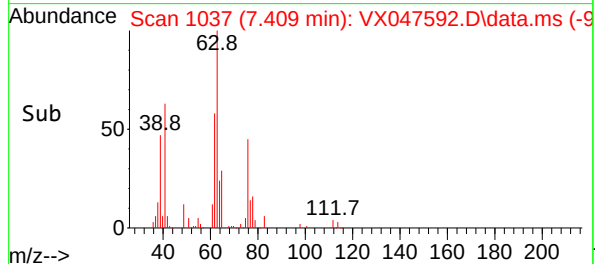
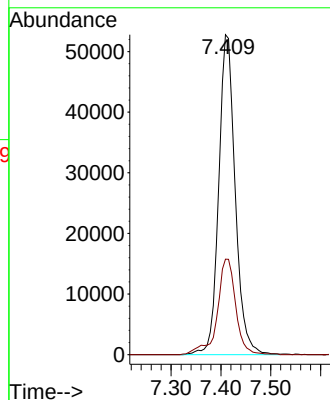
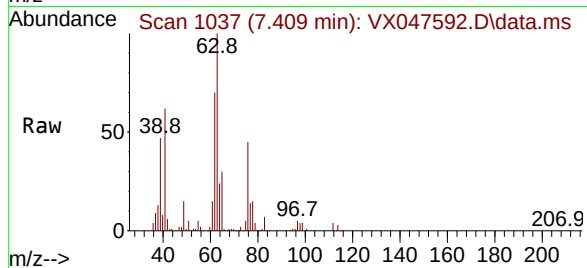
65 29.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 47.976 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

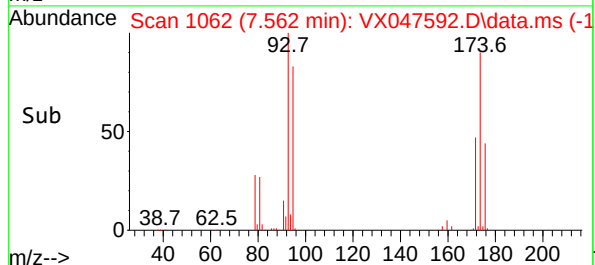
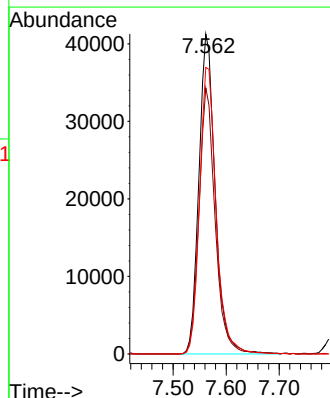
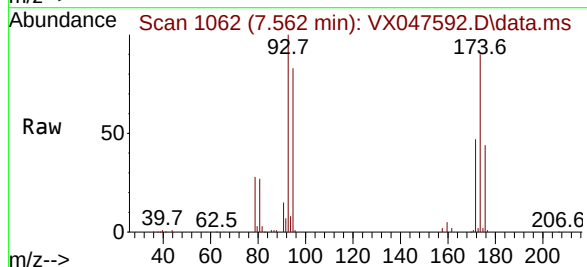
Tgt Ion: 93 Resp: 88297

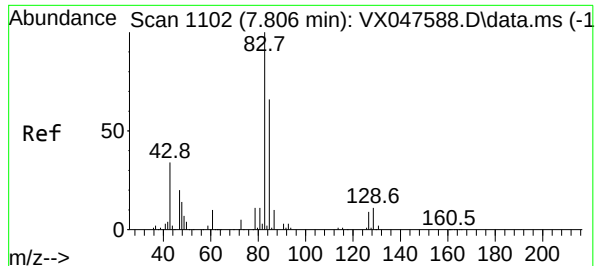
Ion Ratio Lower Upper

93 100

95 82.3 65.0 97.6

174 91.3 71.6 107.4





#47

Bromodichloromethane

Concen: 48.769 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

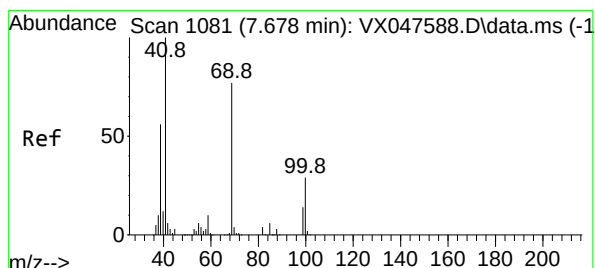
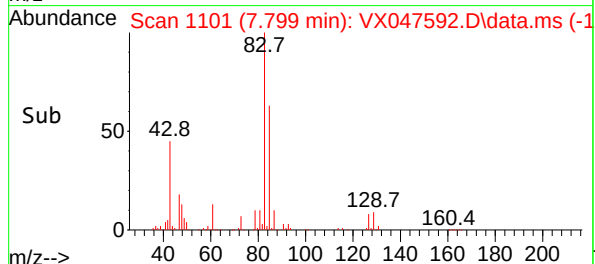
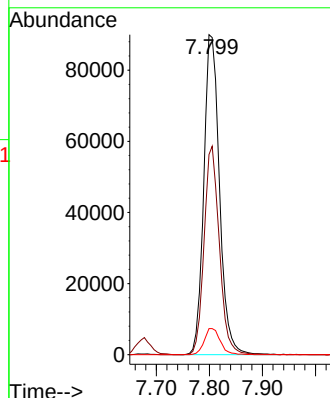
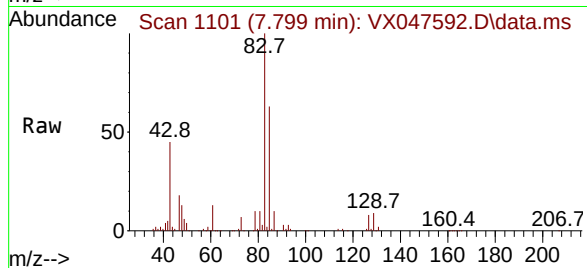
Tgt Ion:	83	Resp:	185219
Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.5	78.7
127	8.1	6.9	10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 49.757 ug/l

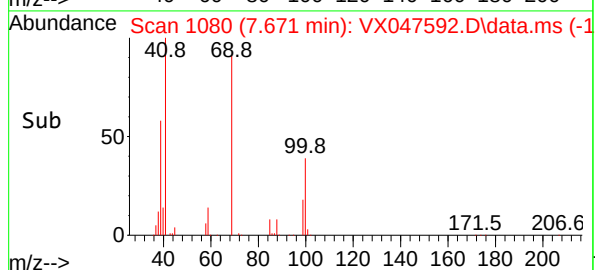
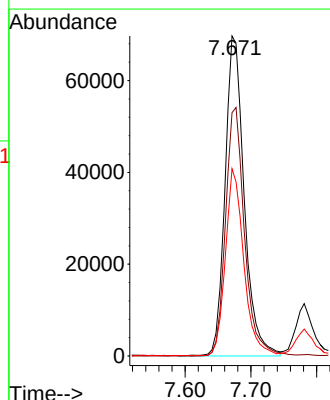
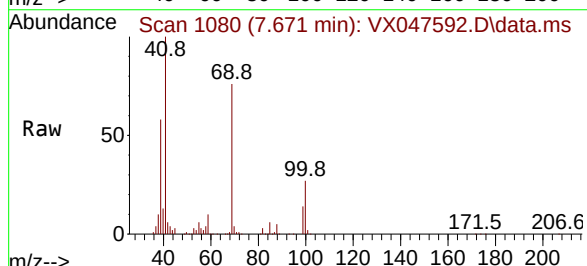
RT: 7.671 min Scan# 1080

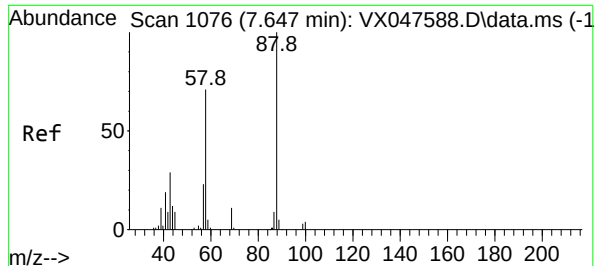
Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion:	41	Resp:	141532
Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	56.4	45.8	68.6





#49

1,4-Dioxane

Concen: 1089.520 ug/l

RT: 7.641 min Scan# 1076

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

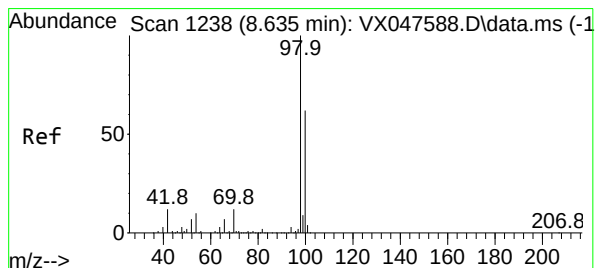
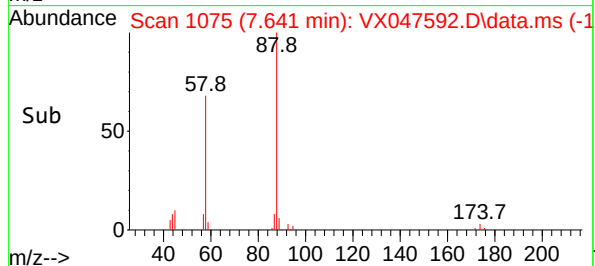
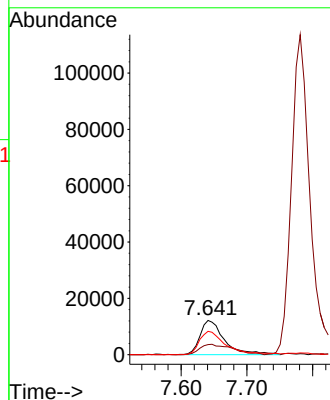
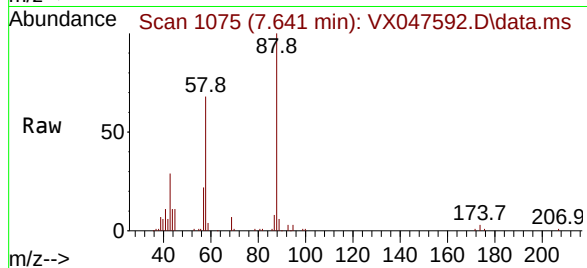
Tgt Ion:	88	Resp:	31320
Ion	Ratio	Lower	Upper
88	100		
43	40.9	30.2	45.2
58	74.1	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 46.411 ug/l

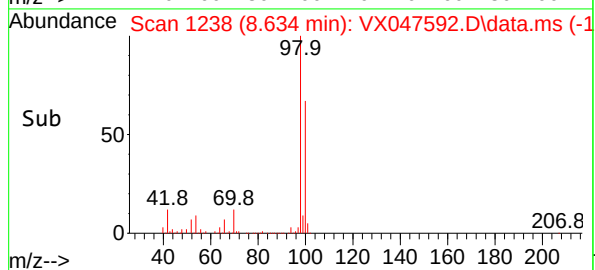
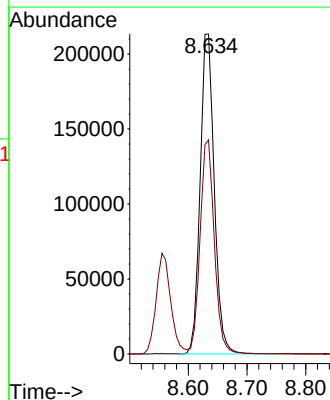
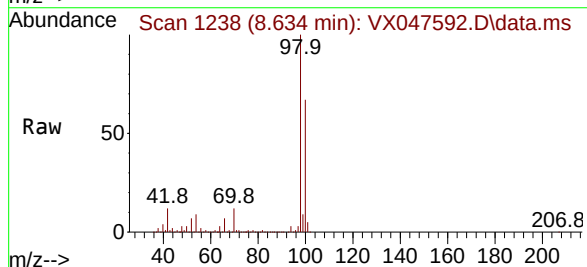
RT: 8.634 min Scan# 1238

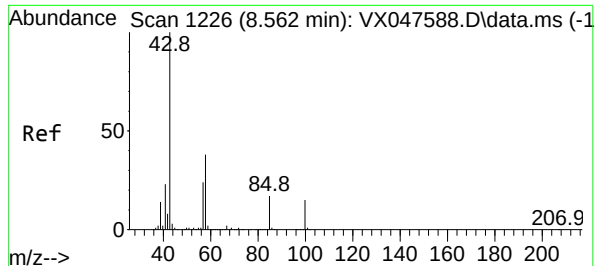
Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

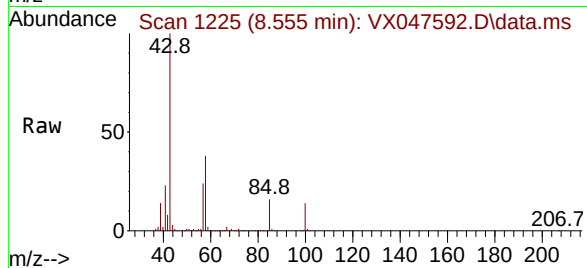
Tgt Ion:	98	Resp:	357393
Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 255.752 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

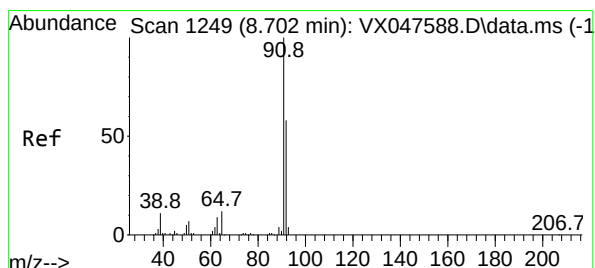
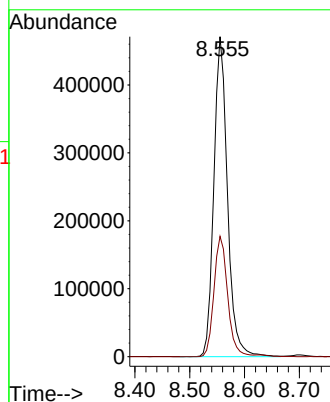
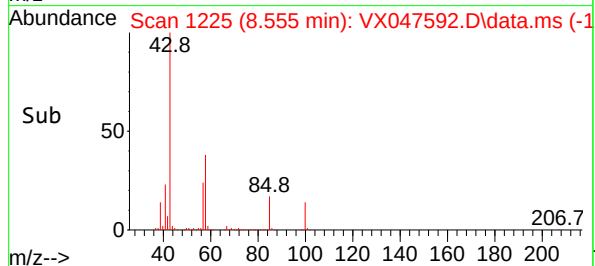
Instrument :
MSVOA_X
ClientSampleId :
ICVX091625



Tgt Ion: 43 Resp: 809759
Ion Ratio Lower Upper
43 100
58 37.9 30.3 45.5

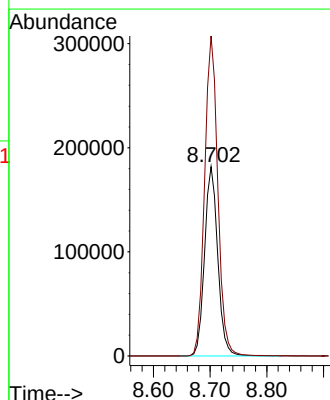
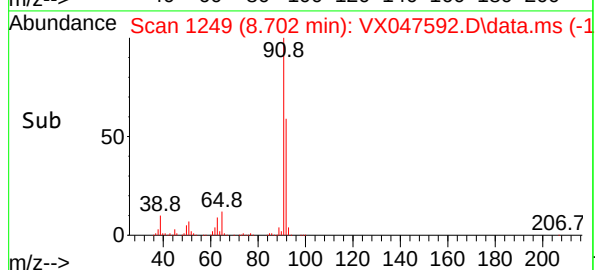
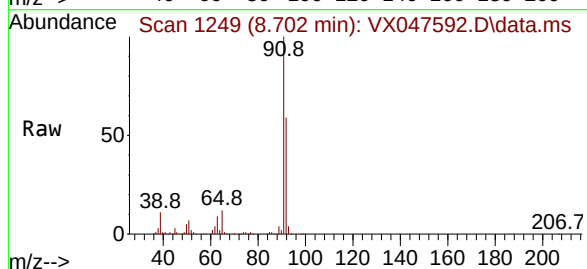
Manual Integrations
APPROVED

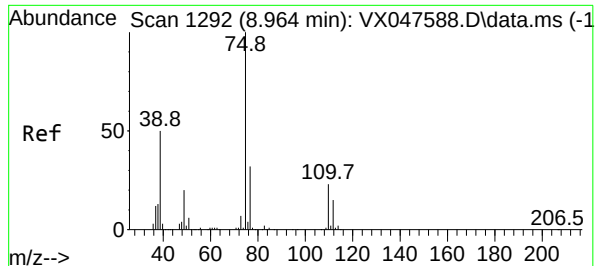
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 48.130 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 92 Resp: 292879
Ion Ratio Lower Upper
92 100
91 169.4 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 49.527 ug/l

RT: 8.964 min Scan# 1191

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 75 Resp: 19186

Ion Ratio Lower Upper

75 100

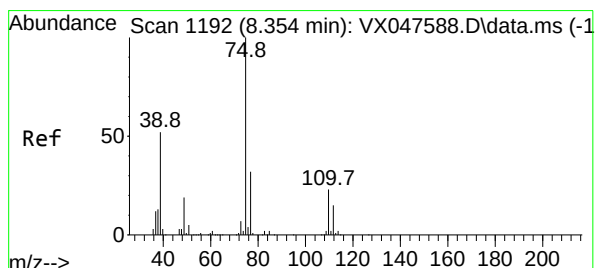
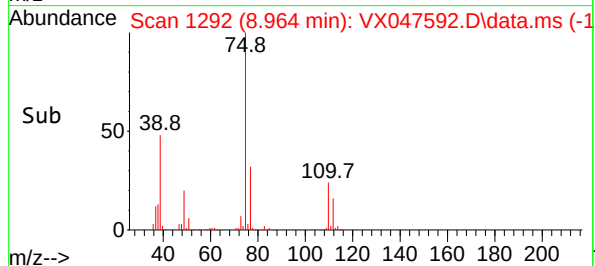
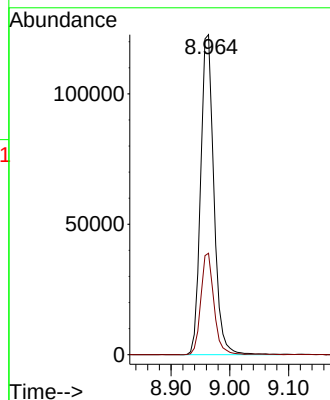
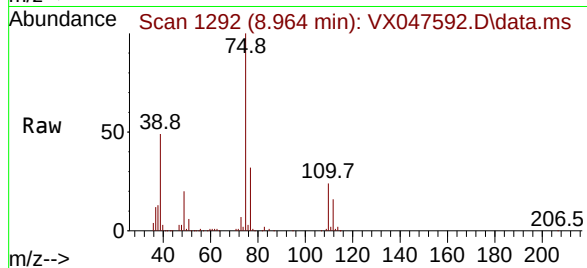
77 31.7 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 49.257 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

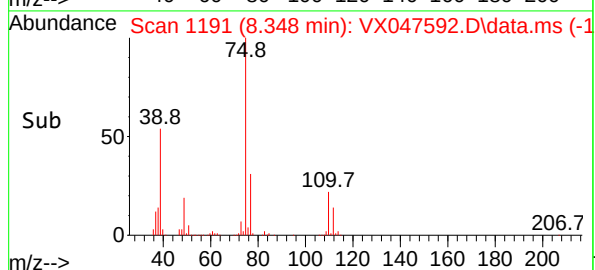
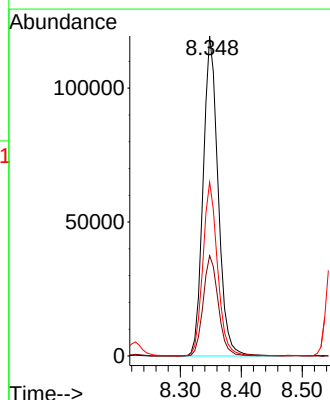
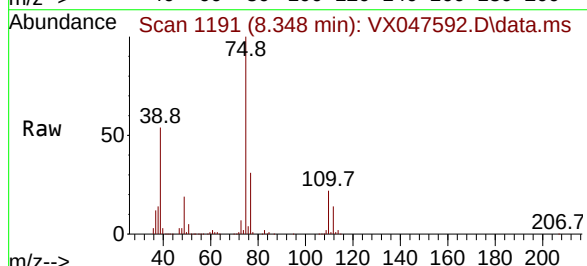
Tgt Ion: 75 Resp: 203954

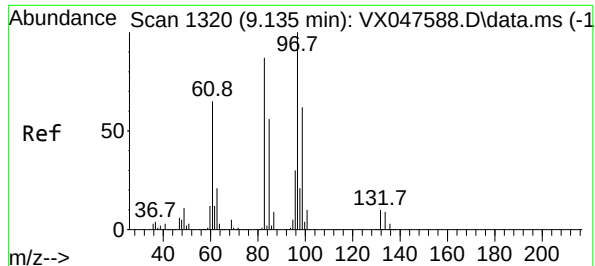
Ion Ratio Lower Upper

75 100

77 31.3 25.8 38.6

39 54.2 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 47.772 ug/l

RT: 9.134 min Scan# 112094

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

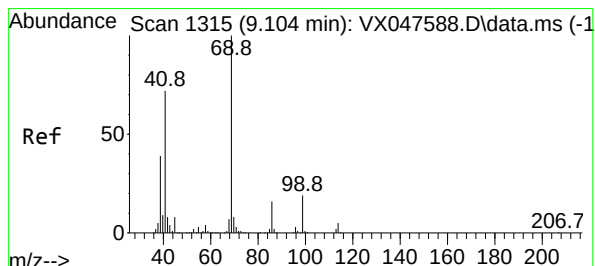
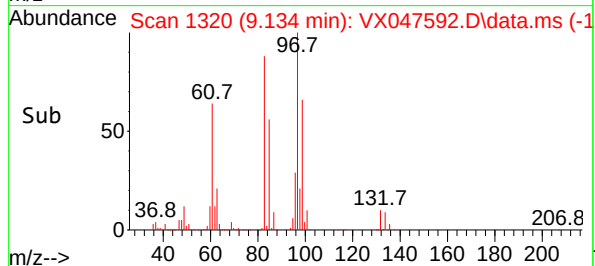
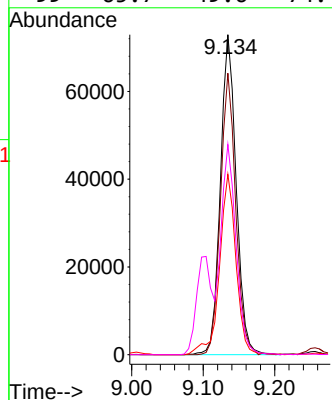
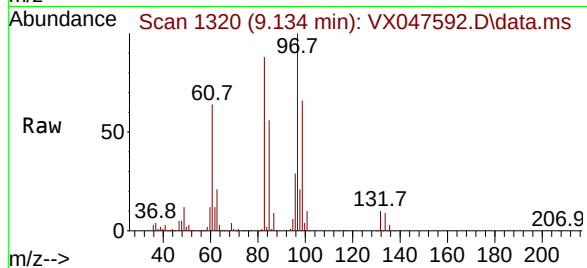
Tgt Ion:	97	Resp:	112094
Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.6	104.4
85	56.4	45.0	67.6
99	65.7	49.6	74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 51.490 ug/l

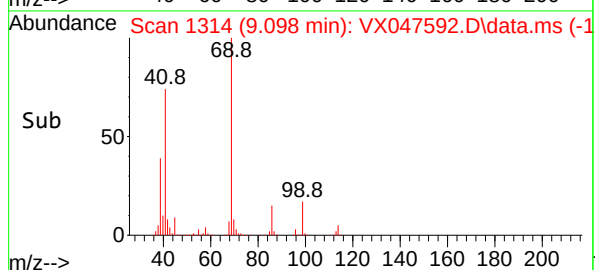
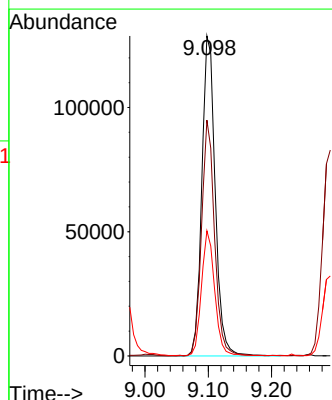
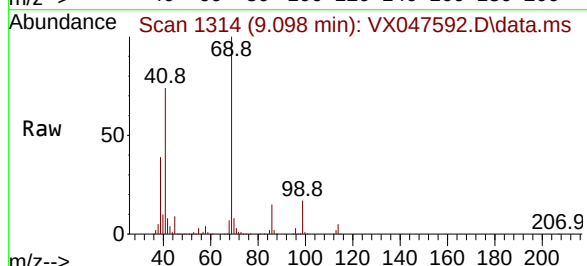
RT: 9.098 min Scan# 1314

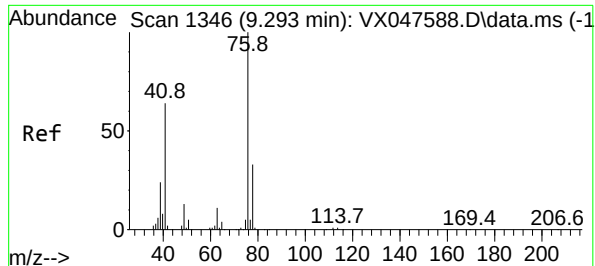
Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion:	69	Resp:	189741
Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3





#57

1,3-Dichloropropane

Concen: 48.894 ug/l

RT: 9.293 min Scan# 1170

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 76 Resp: 197079

Ion Ratio Lower Upper

76 100

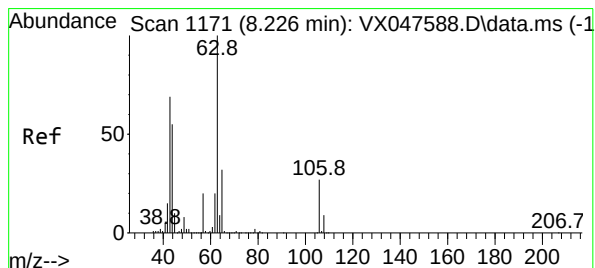
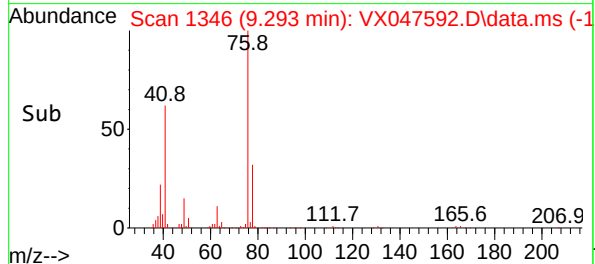
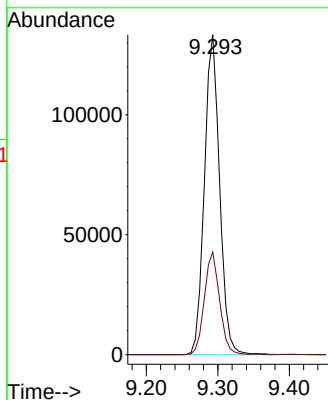
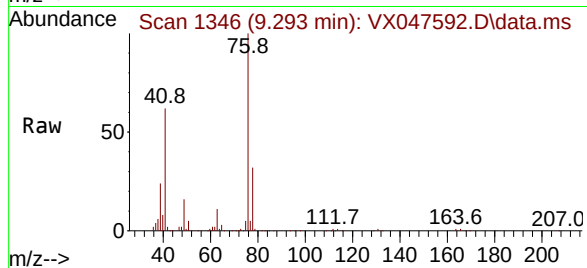
78 32.2 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 225.562 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047592.D

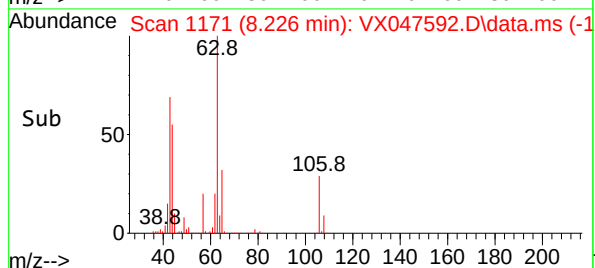
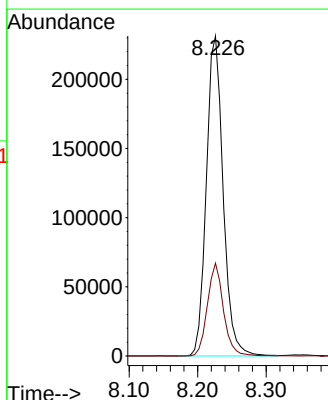
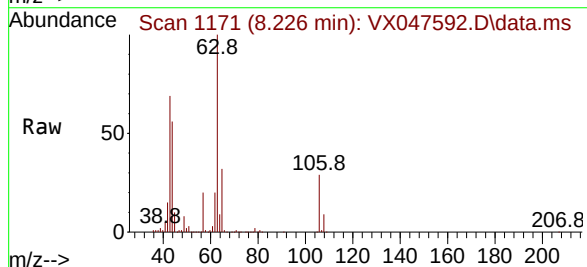
Acq: 16 Sep 2025 13:35

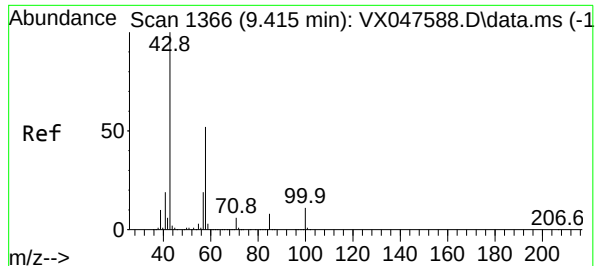
Tgt Ion: 63 Resp: 394205

Ion Ratio Lower Upper

63 100

106 27.8 21.9 32.9





#59

2-Hexanone

Concen: 253.126 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 43 Resp: 57559

Ion Ratio Lower Upper

43 100

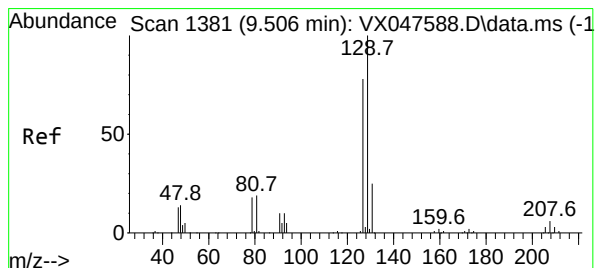
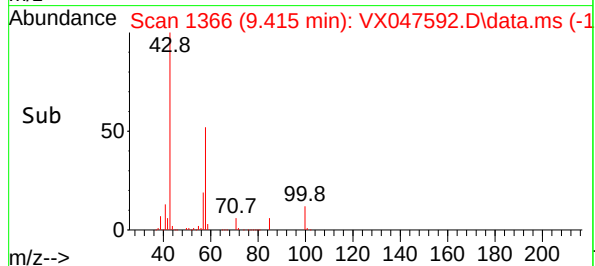
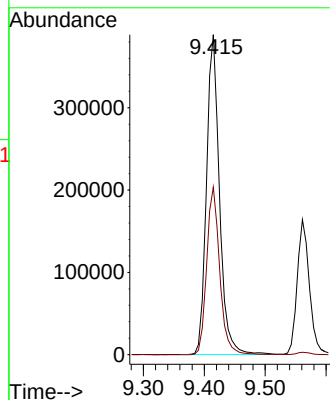
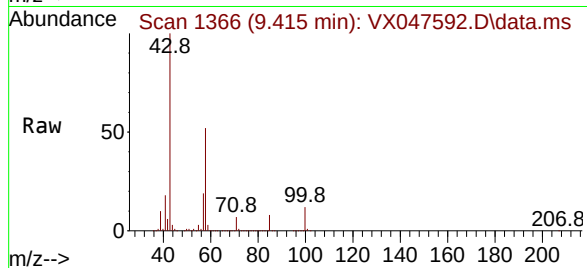
58 52.6 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 49.824 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047592.D

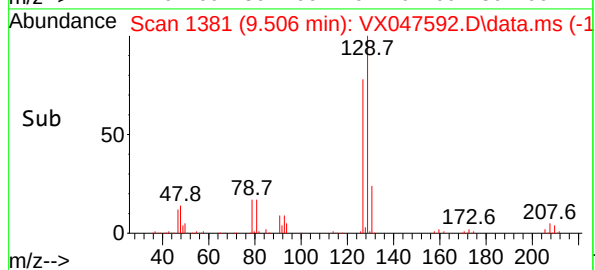
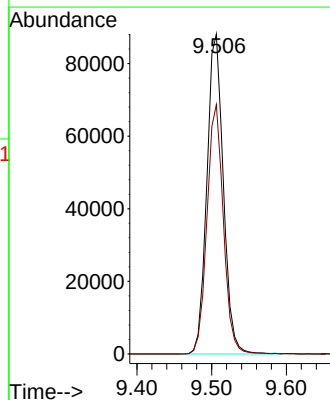
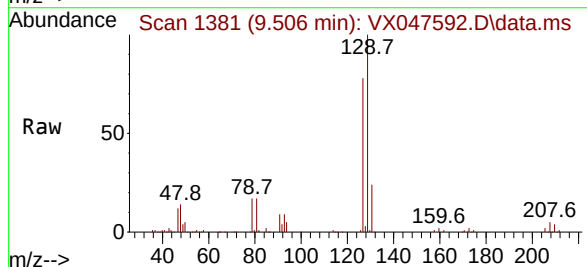
Acq: 16 Sep 2025 13:35

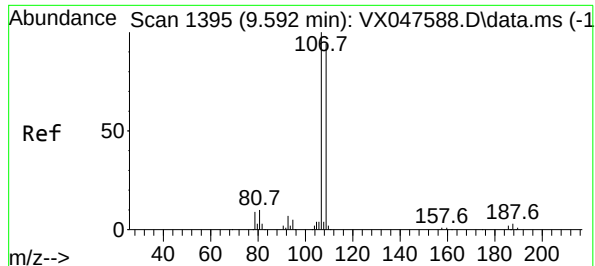
Tgt Ion:129 Resp: 134704

Ion Ratio Lower Upper

129 100

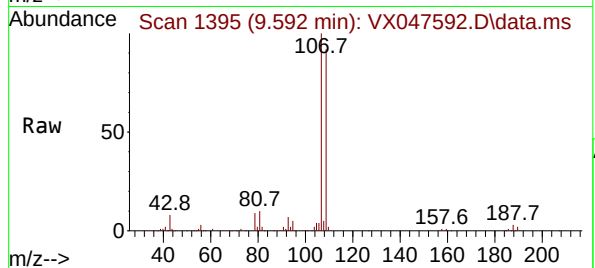
127 77.8 38.4 115.2





#61
1,2-Dibromoethane
Concen: 49.297 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

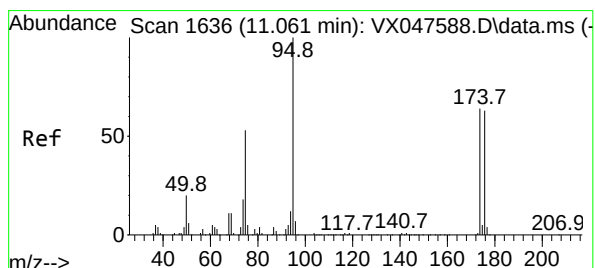
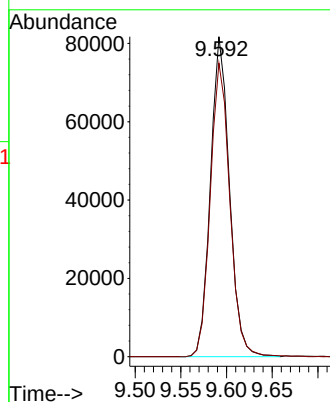
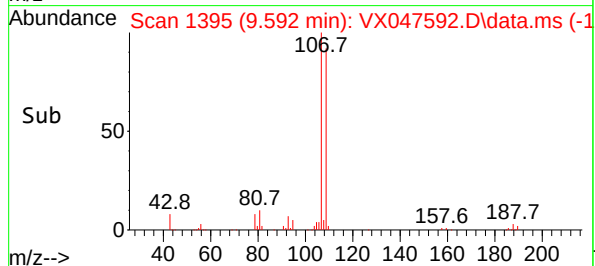
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 107 Resp: 11781
Ion Ratio Lower Upper
107 100
109 94.6 75.3 112.9

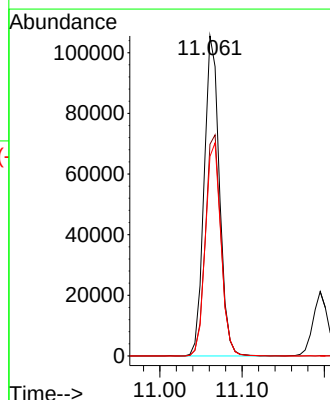
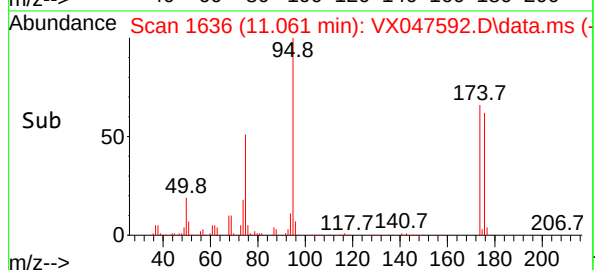
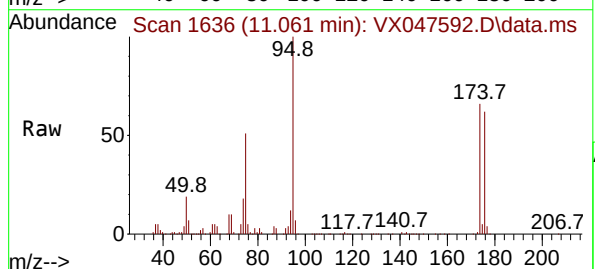
Manual Integrations
APPROVED

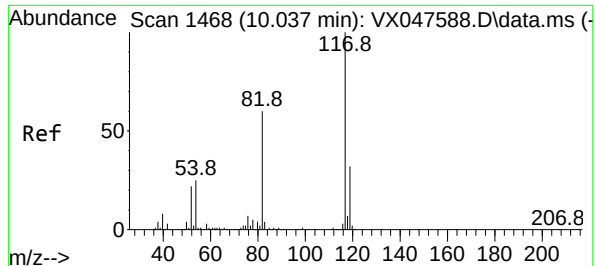
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#62
4-Bromofluorobenzene
Concen: 46.520 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

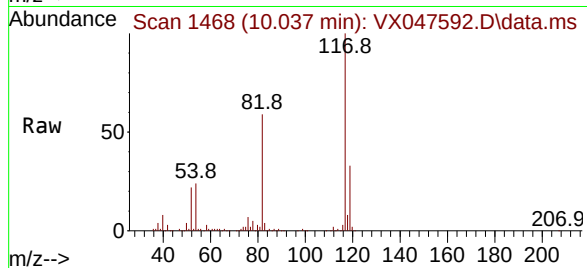
Tgt Ion: 95 Resp: 135957
Ion Ratio Lower Upper
95 100
174 70.3 0.0 141.6
176 68.0 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

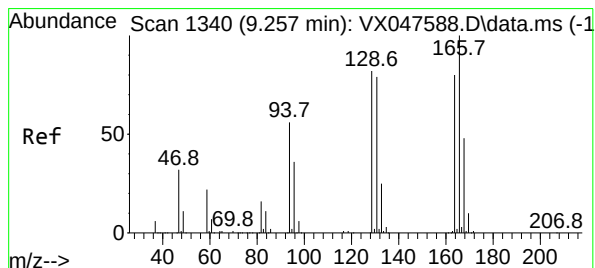
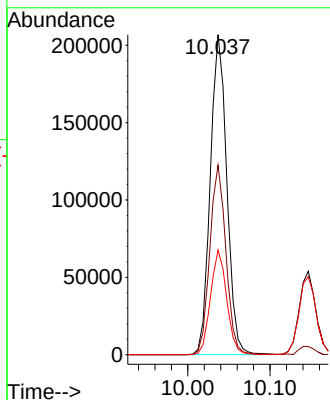
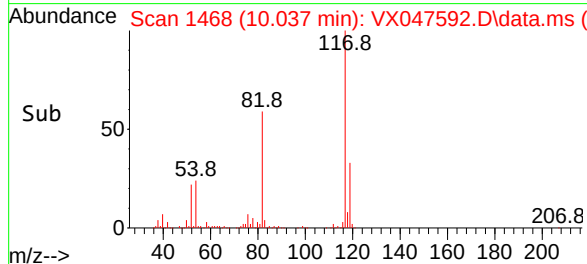
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:117 Resp: 288660
Ion Ratio Lower Upper
117 100
82 59.2 47.8 71.6
119 32.7 25.2 37.8

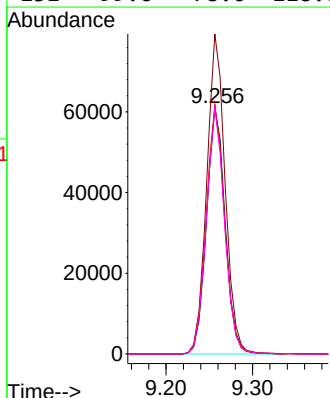
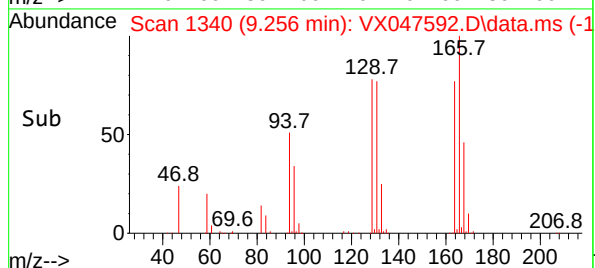
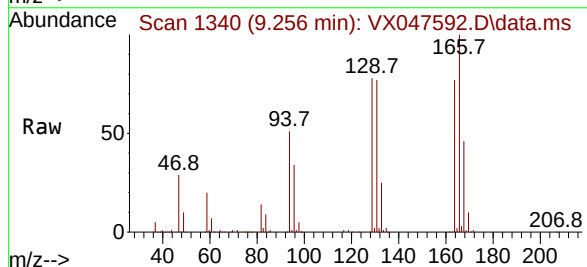
Manual Integrations
APPROVED

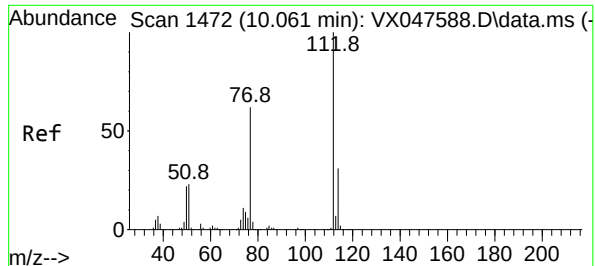
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#64
Tetrachloroethene
Concen: 48.296 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

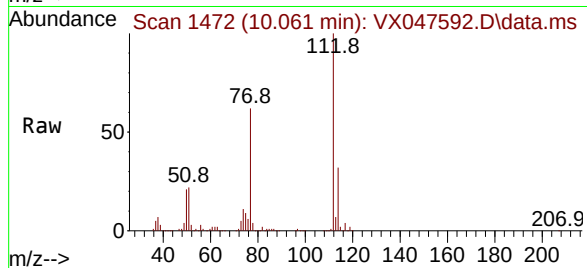
Tgt Ion:164 Resp: 90881
Ion Ratio Lower Upper
164 100
166 129.8 100.2 150.2
129 101.3 81.8 122.6
131 99.6 78.6 118.0





#65
Chlorobenzene
Concen: 48.549 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

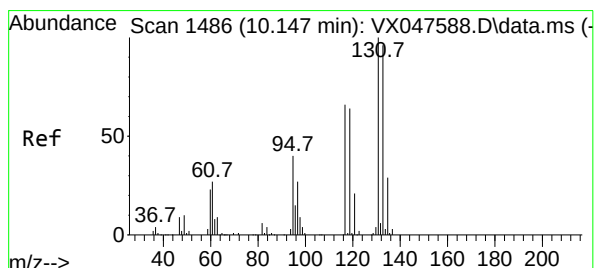
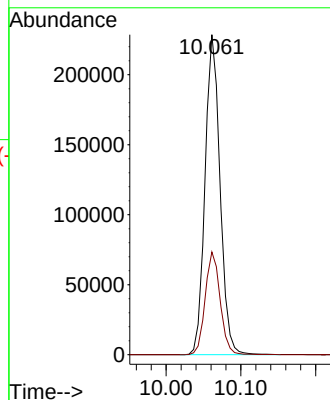
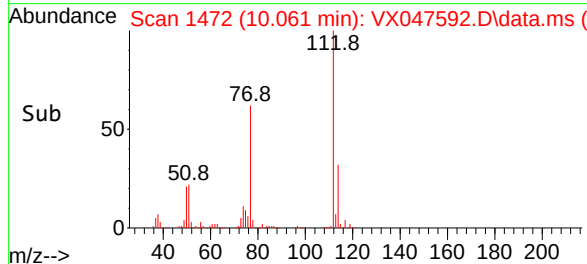
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:112 Resp: 318372
Ion Ratio Lower Upper
112 100
114 32.1 25.1 37.7

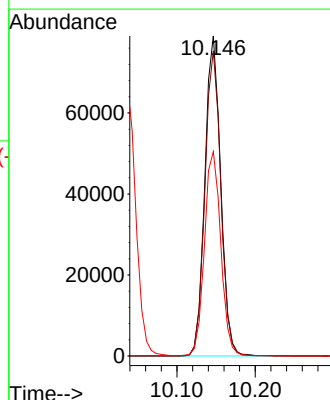
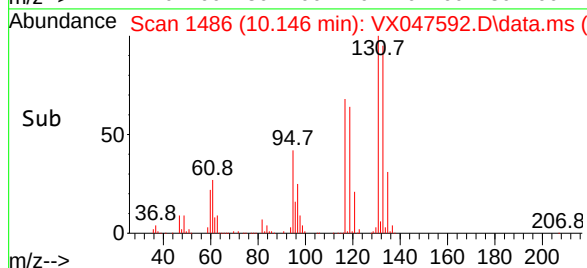
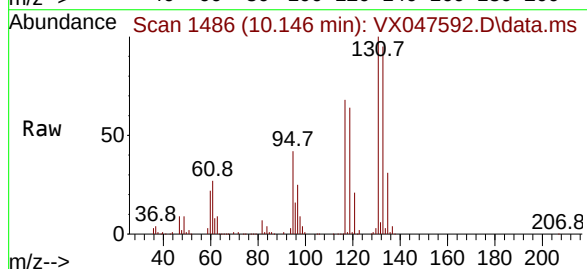
Manual Integrations
APPROVED

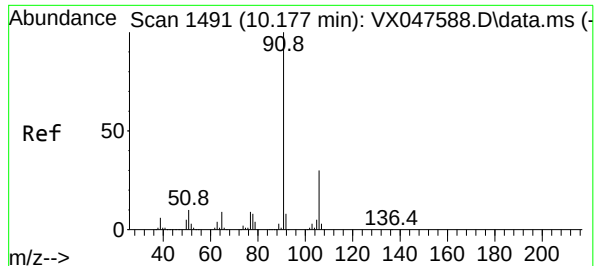
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 48.794 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:131 Resp: 110416
Ion Ratio Lower Upper
131 100
133 96.3 47.3 142.0
119 66.3 32.0 96.0





#67

Ethyl Benzene

Concen: 49.813 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 91 Resp: 563634

Ion Ratio Lower Upper

91 100

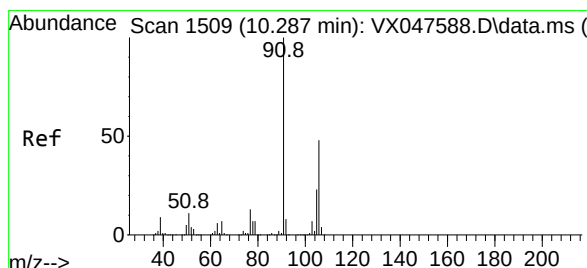
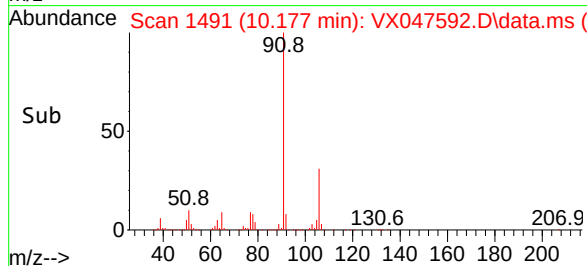
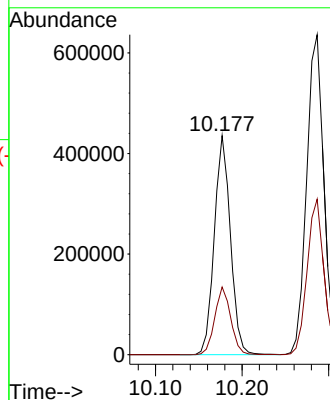
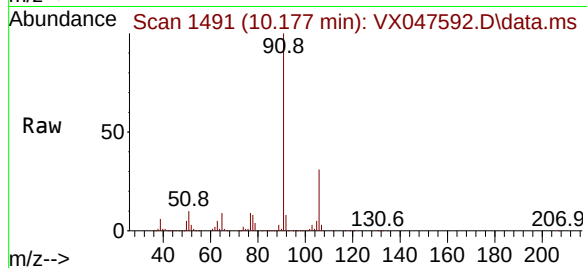
106 30.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 98.956 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX047592.D

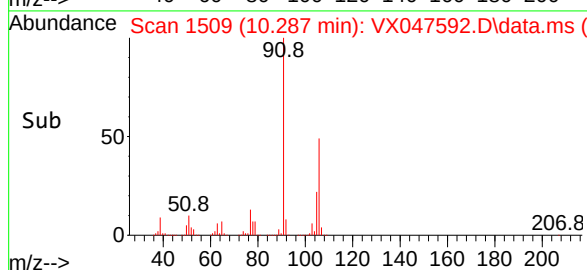
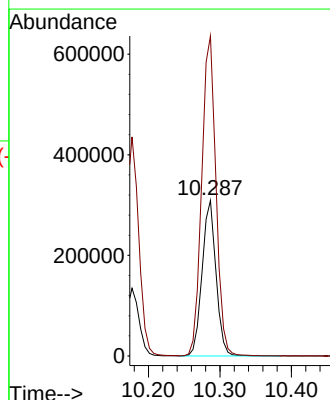
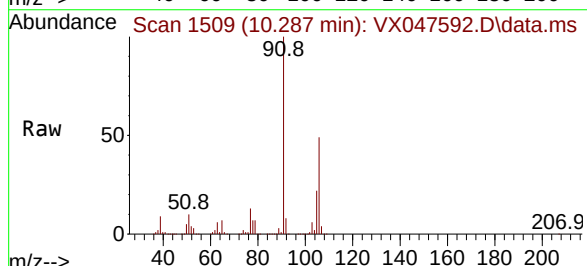
Acq: 16 Sep 2025 13:35

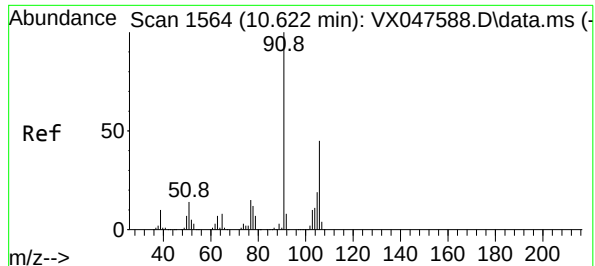
Tgt Ion:106 Resp: 416757

Ion Ratio Lower Upper

106 100

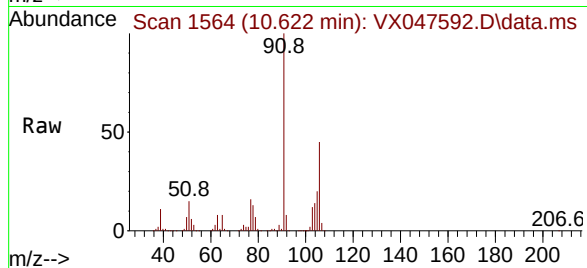
91 211.1 167.8 251.8





#69
o-Xylene
Concen: 50.159 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

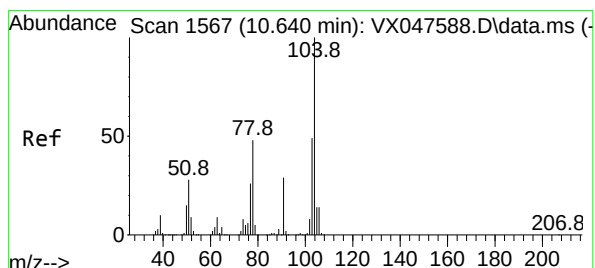
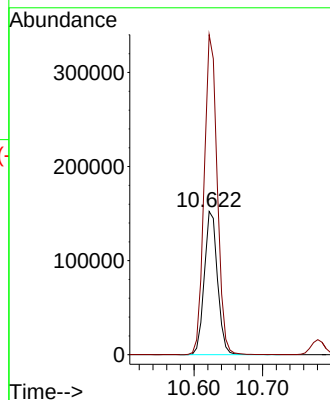
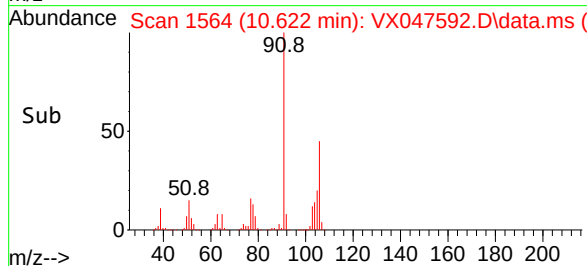
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:106 Resp: 20432
Ion Ratio Lower Upper
106 100
91 221.0 111.1 333.4

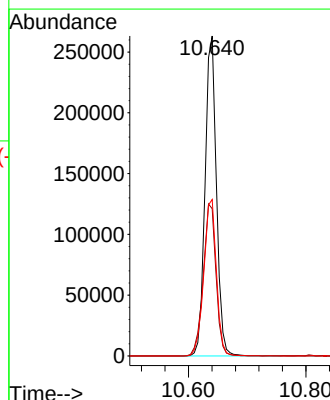
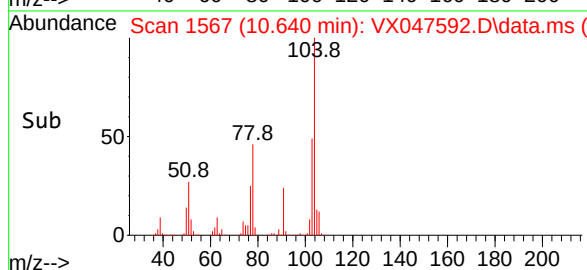
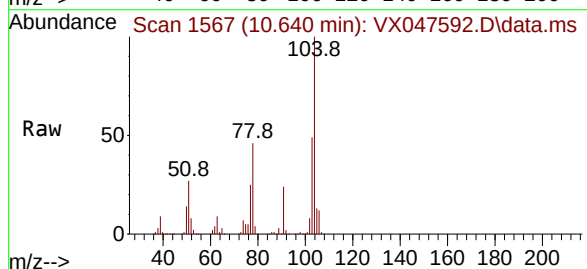
Manual Integrations
APPROVED

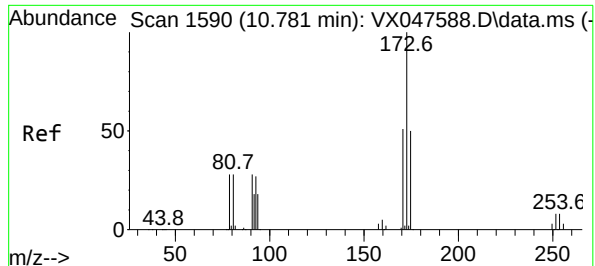
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 49.536 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

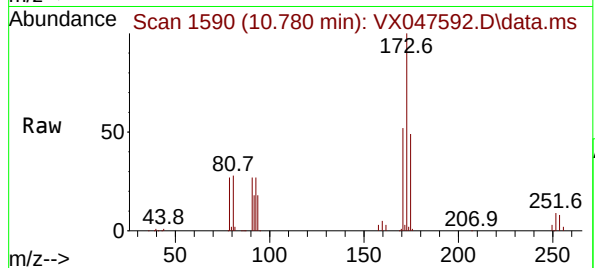
Tgt Ion:104 Resp: 353567
Ion Ratio Lower Upper
104 100
78 53.4 43.1 64.7
103 54.3 43.1 64.7





#71
Bromoform
Concen: 51.207 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

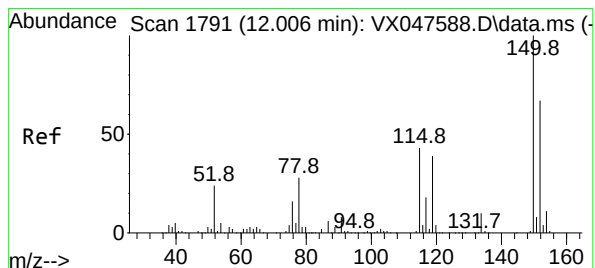
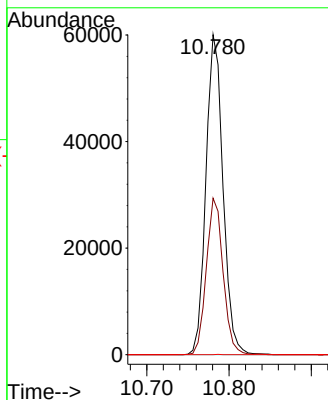
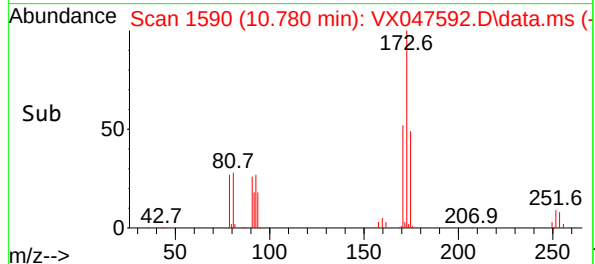
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:173 Resp: 86524
Ion Ratio Lower Upper
173 100
175 48.2 24.9 74.6
254 0.0 0.1 0.1

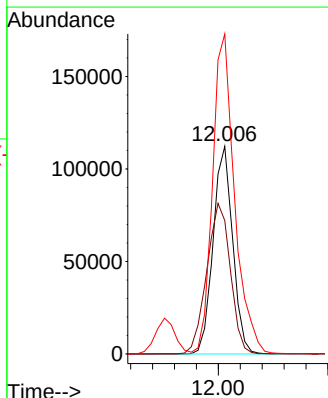
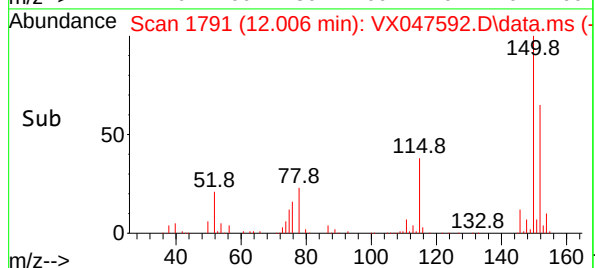
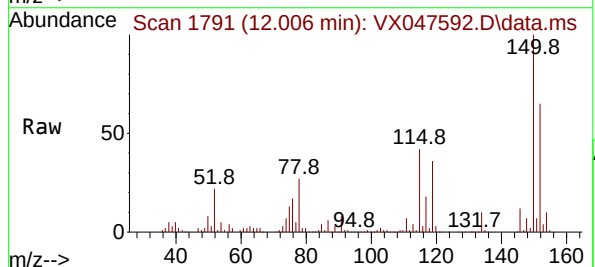
Manual Integrations
APPROVED

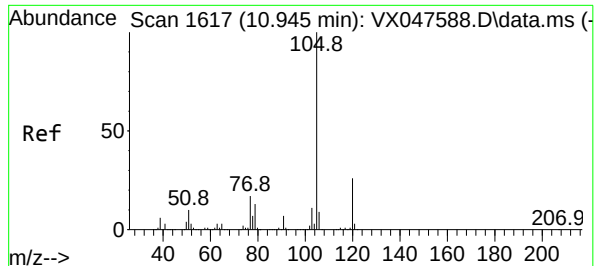
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:152 Resp: 139252
Ion Ratio Lower Upper
152 100
115 87.5 44.9 134.5
150 173.5 0.0 352.0





#73

Isopropylbenzene

Concen: 49.479 ug/l

RT: 10.945 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion:105 Resp: 523820

Ion Ratio Lower Upper

105 100

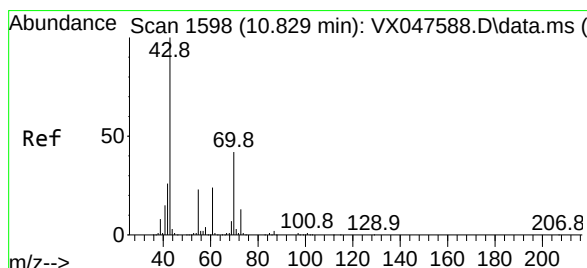
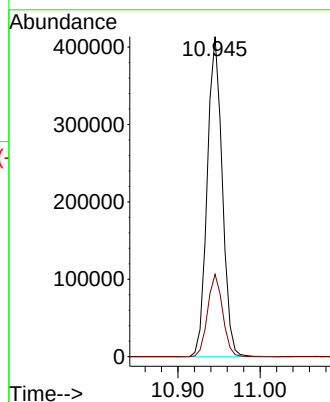
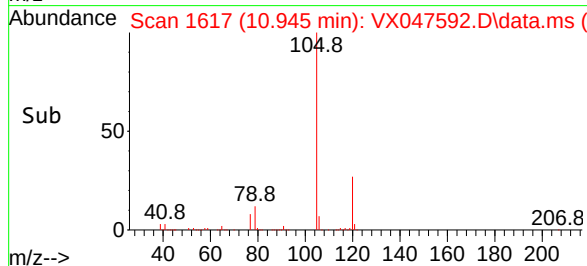
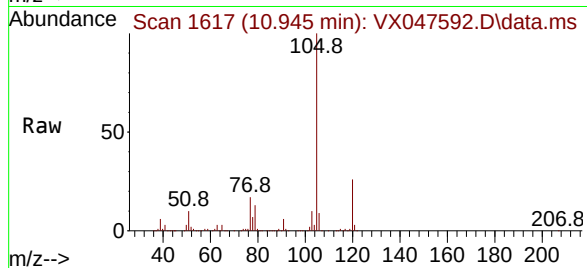
120 25.7 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#74

N-ethyl acetate

Concen: 50.375 ug/l

RT: 10.823 min Scan# 1597

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 243198

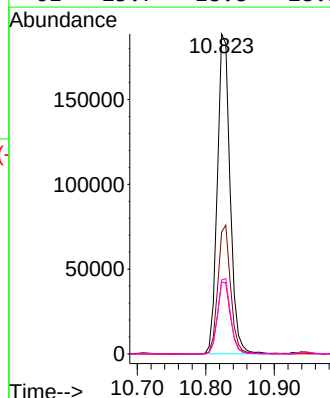
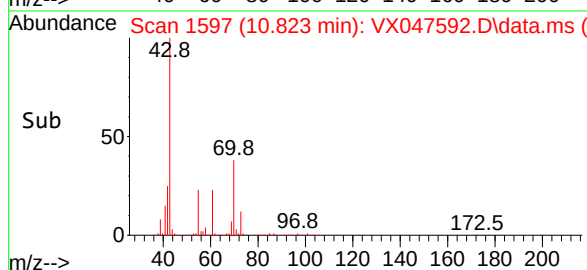
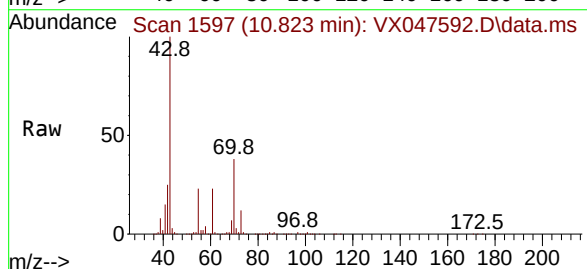
Ion Ratio Lower Upper

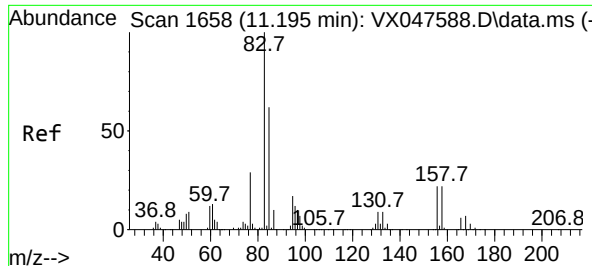
43 100

70 40.2 32.0 48.0

55 23.2 18.9 28.3

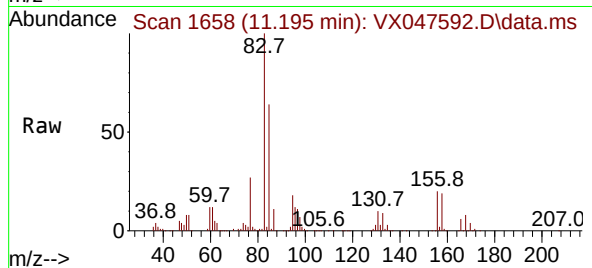
61 23.7 18.8 28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 49.851 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

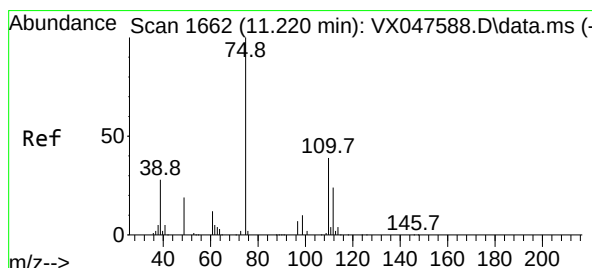
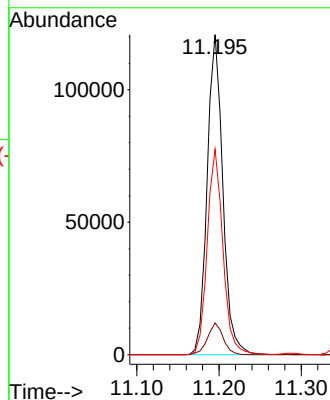
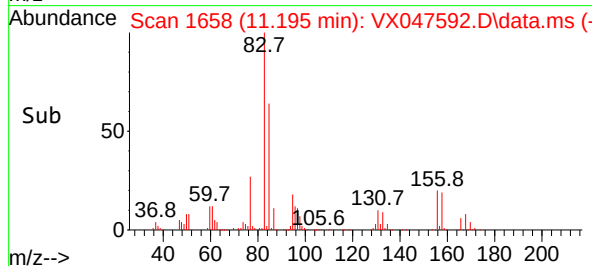
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 83 Resp: 159670
Ion Ratio Lower Upper
83 100
131 9.9 5.0 14.9
85 64.2 31.6 95.0

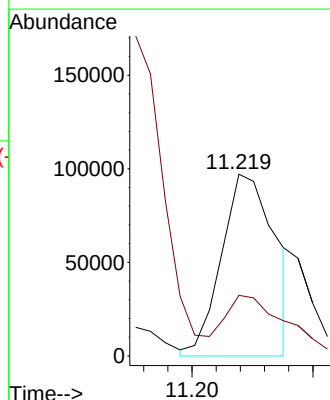
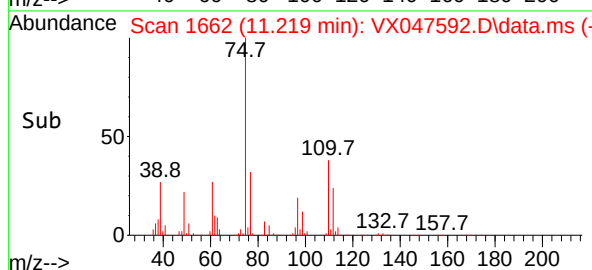
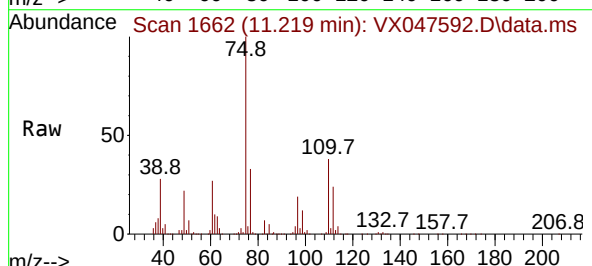
Manual Integrations
APPROVED

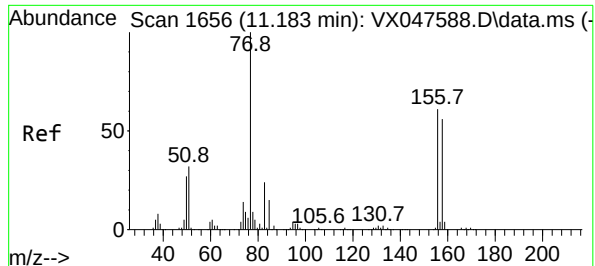
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 53.124 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

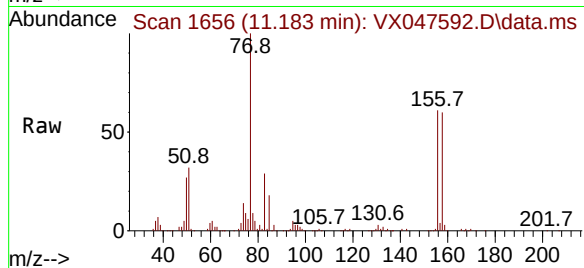
Tgt Ion: 75 Resp: 149779
Ion Ratio Lower Upper
75 100
77 38.0 18.8 56.4





#77
Bromobenzene
Concen: 48.173 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

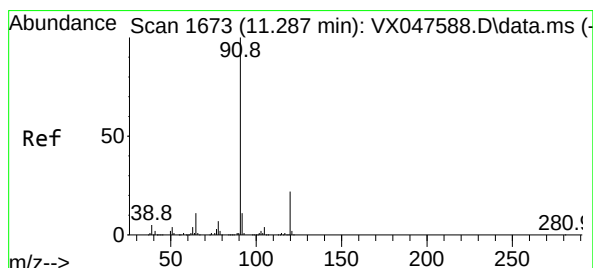
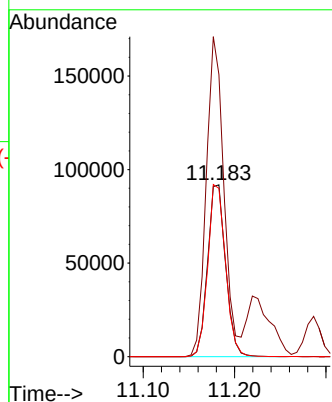
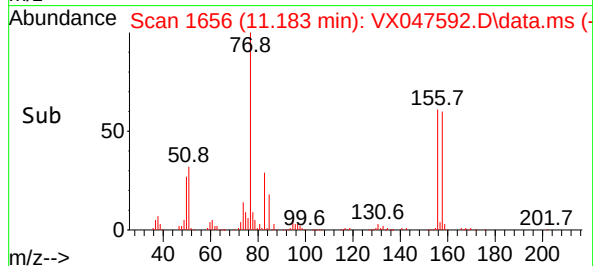
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 156 Resp: 125610
Ion Ratio Lower Upper
156 100
77 182.2 89.7 269.1
158 99.0 47.9 143.6

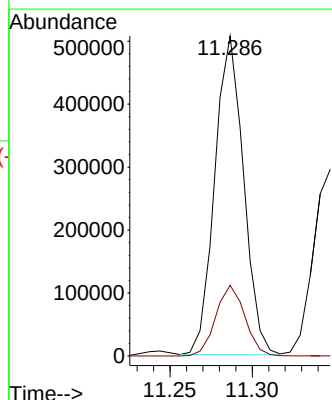
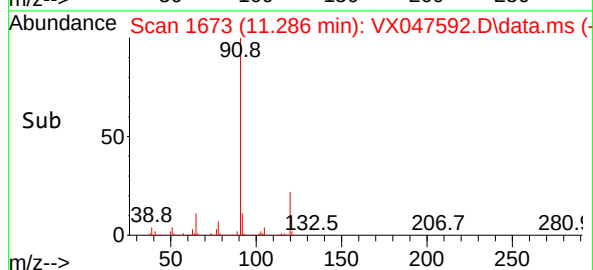
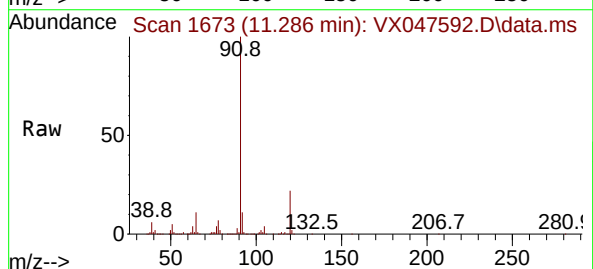
Manual Integrations
APPROVED

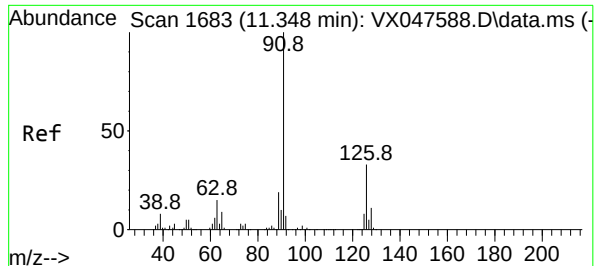
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#78
n-propylbenzene
Concen: 49.295 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 616928
Ion Ratio Lower Upper
91 100
120 22.4 11.1 33.1





#79

2-Chlorotoluene

Concen: 49.117 ug/l

RT: 11.347 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 91 Resp: 376480

Ion Ratio Lower Upper

91 100

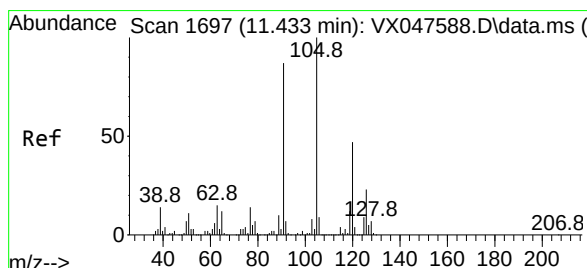
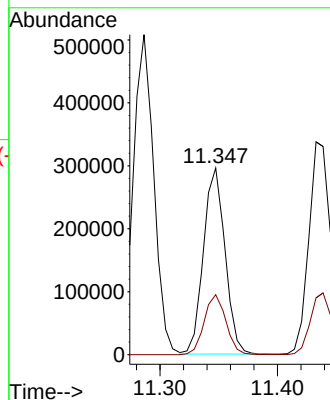
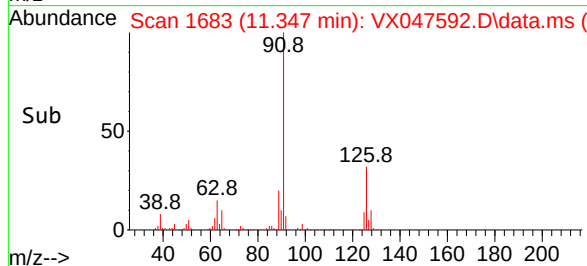
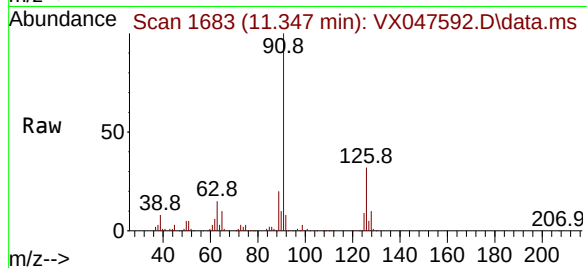
126 32.4 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#80

1,3,5-Trimethylbenzene

Concen: 50.055 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX047592.D

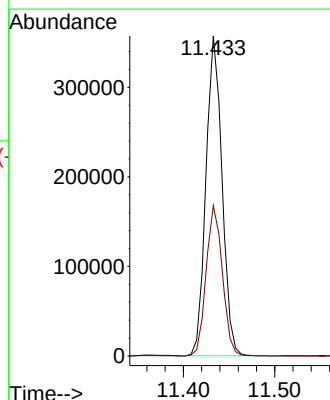
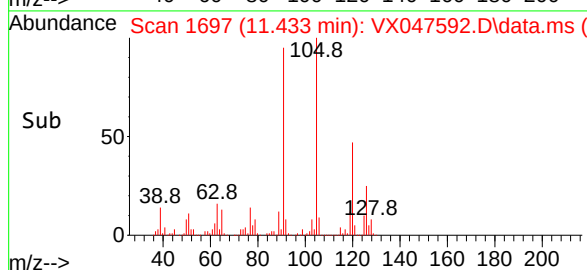
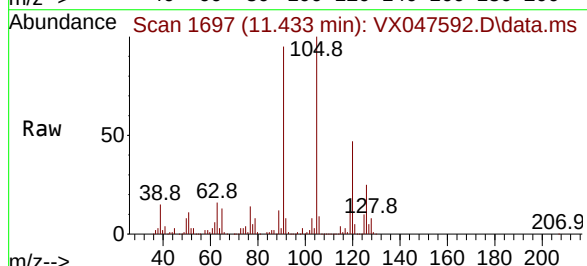
Acq: 16 Sep 2025 13:35

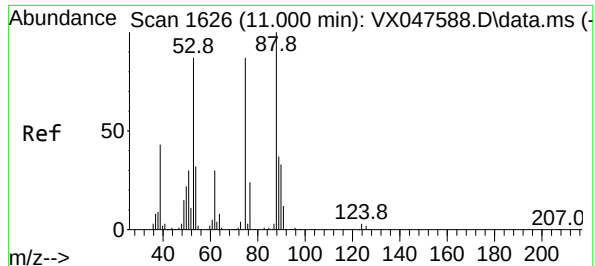
Tgt Ion:105 Resp: 435375

Ion Ratio Lower Upper

105 100

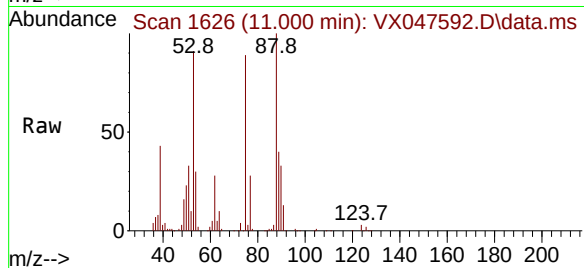
120 47.5 23.6 70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 50.543 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

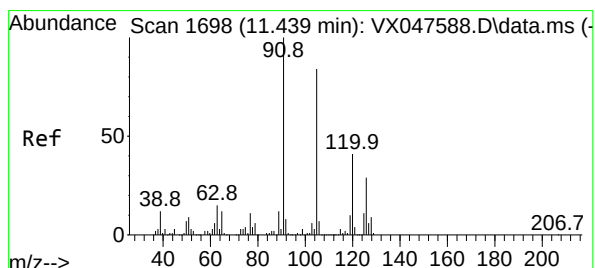
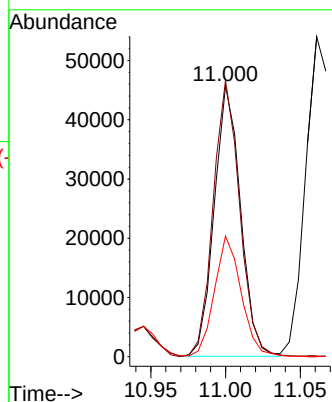
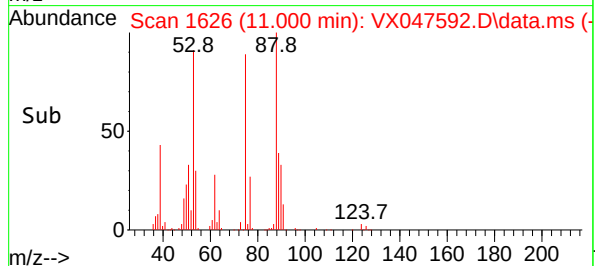
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 75 Resp: 55880
Ion Ratio Lower Upper
75 100
53 103.4 83.4 125.2
89 45.4 36.3 54.5

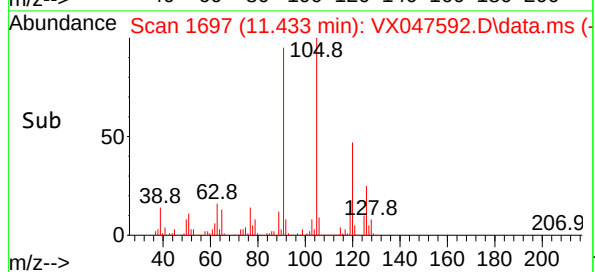
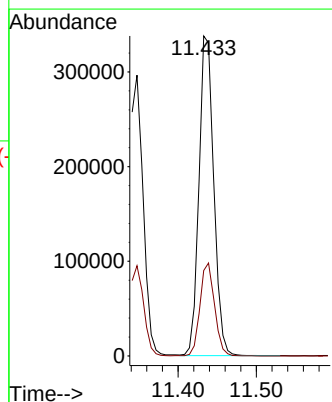
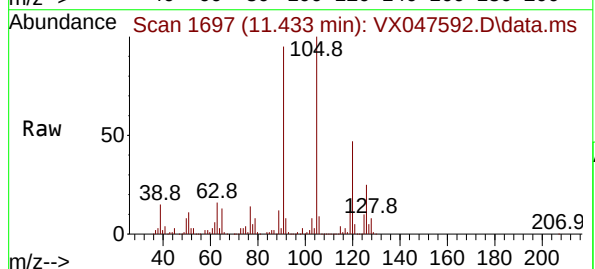
Manual Integrations
APPROVED

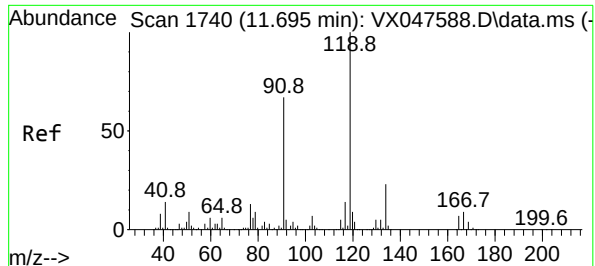
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 49.164 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 445075
Ion Ratio Lower Upper
91 100
126 28.6 14.2 42.6





#83

tert-Butylbenzene

Concen: 49.679 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion:119 Resp: 44234

Ion Ratio Lower Upper

119 100

91 58.7 29.6 88.8

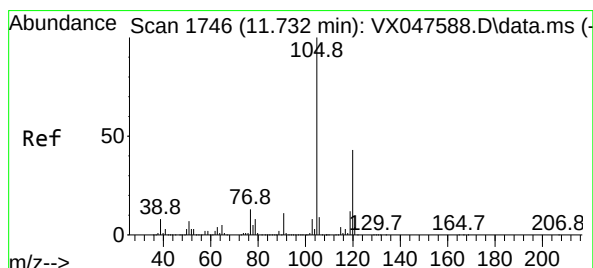
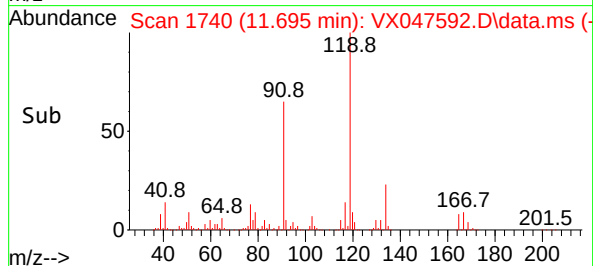
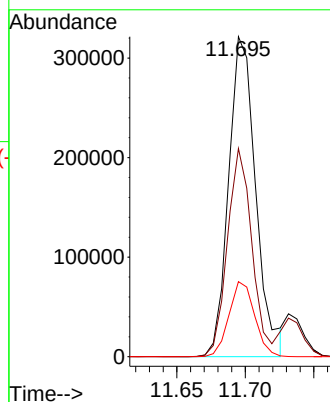
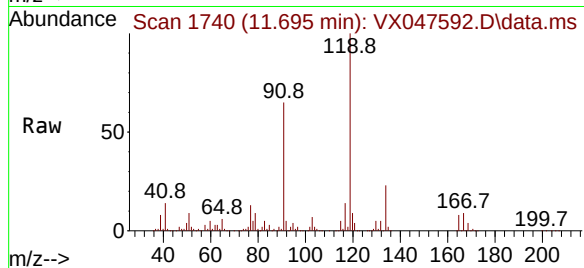
134 22.3 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 49.911 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. -0.000 min

Lab File: VX047592.D

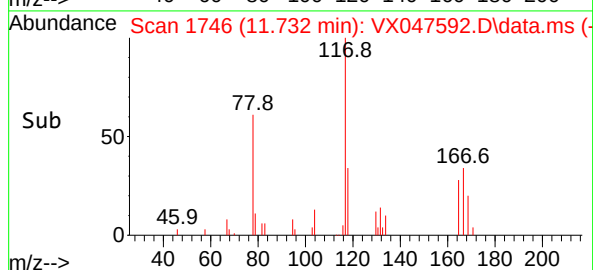
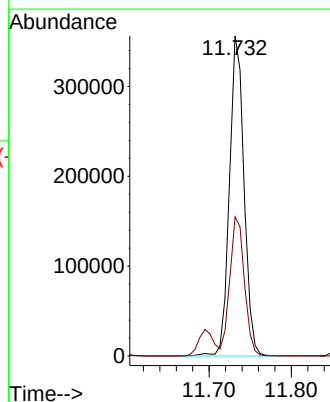
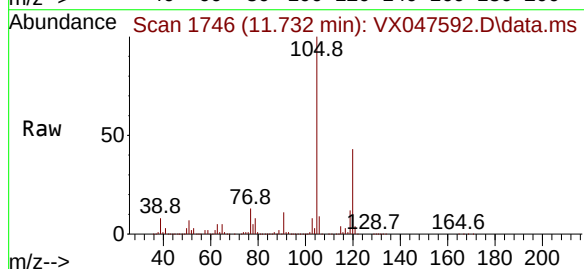
Acq: 16 Sep 2025 13:35

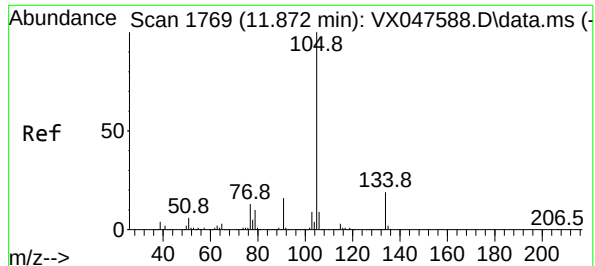
Tgt Ion:105 Resp: 440134

Ion Ratio Lower Upper

105 100

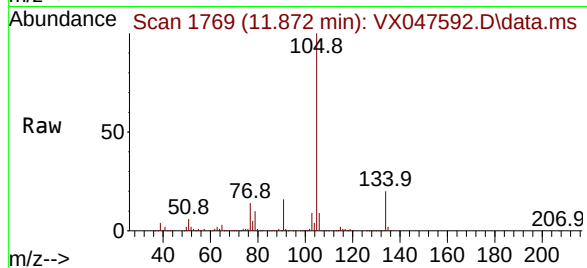
120 43.5 22.1 66.1





#85
sec-Butylbenzene
Concen: 50.100 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

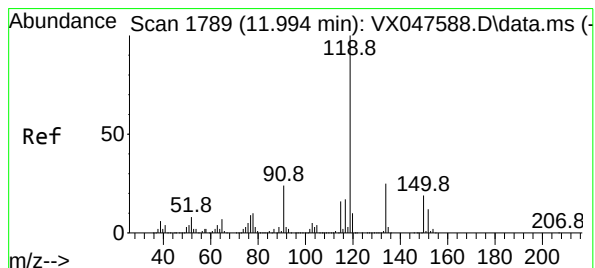
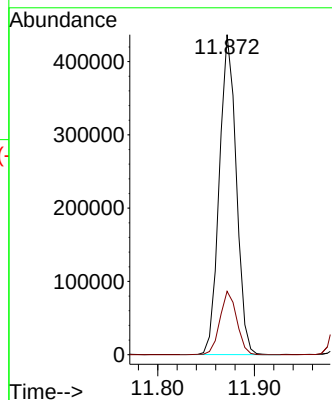
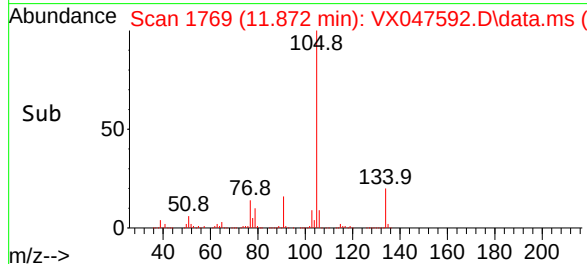
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:105 Resp: 529869
Ion Ratio Lower Upper
105 100
134 19.7 9.8 29.5

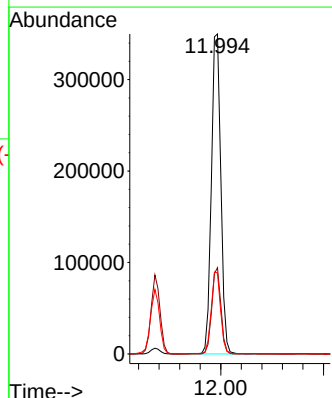
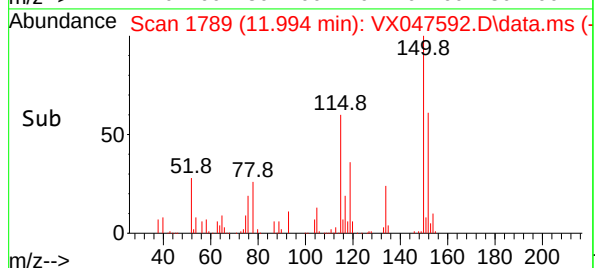
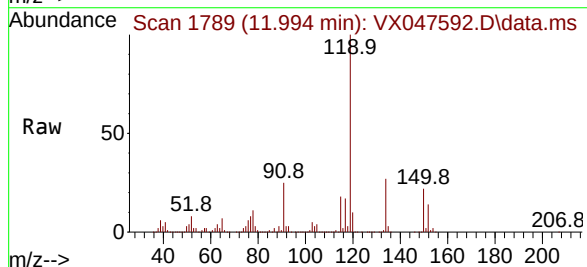
Manual Integrations
APPROVED

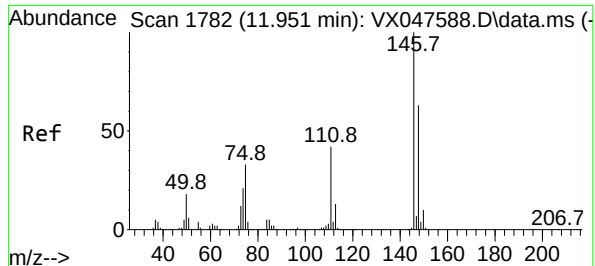
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#86
p-Isopropyltoluene
Concen: 49.861 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:119 Resp: 446441
Ion Ratio Lower Upper
119 100
134 25.9 12.6 37.8
91 25.4 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 49.014 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion:146 Resp: 23738

Ion Ratio Lower Upper

146 100

111 42.1 21.5 64.5

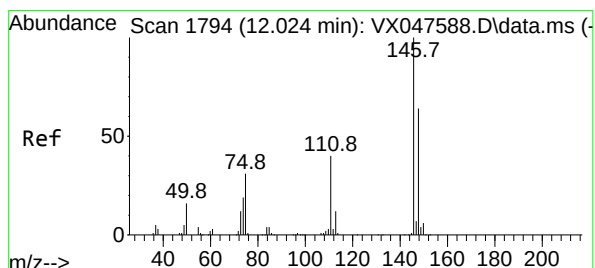
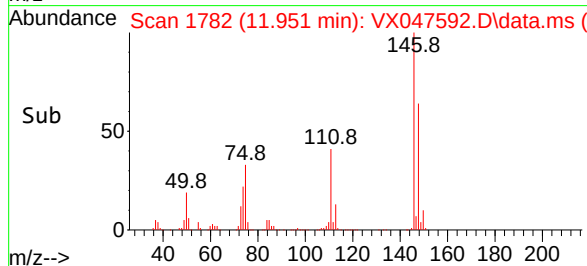
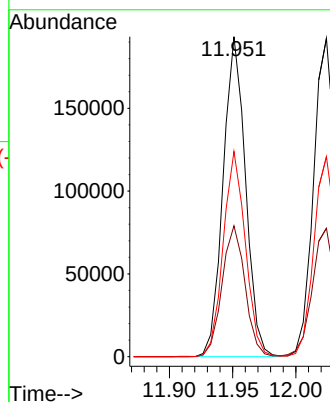
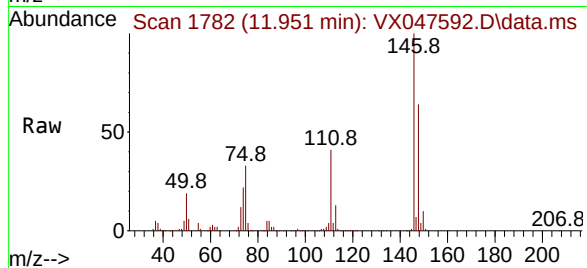
148 63.5 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 49.011 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

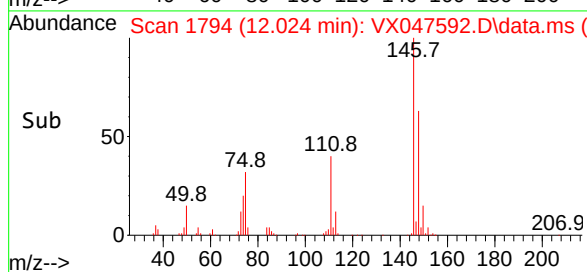
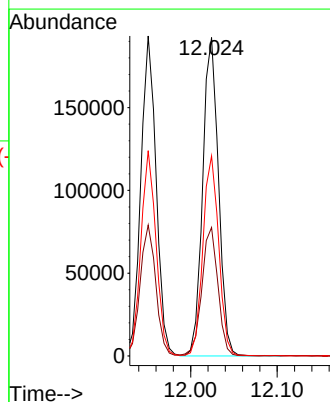
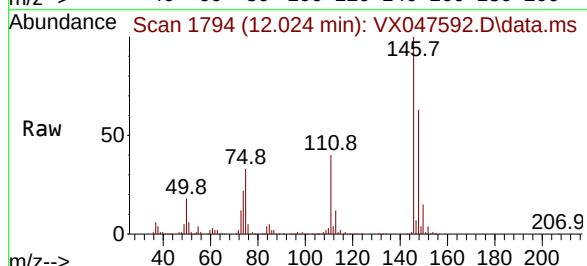
Tgt Ion:146 Resp: 243618

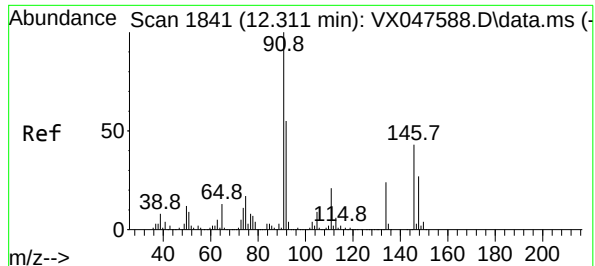
Ion Ratio Lower Upper

146 100

111 41.0 20.8 62.4

148 62.7 31.7 95.1





#89

n-Butylbenzene

Concen: 50.752 ug/l

RT: 12.317 min Scan# 1841

Delta R.T. 0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 91 Resp: 420478

Ion Ratio Lower Upper

91 100

92 55.2 27.6 82.7

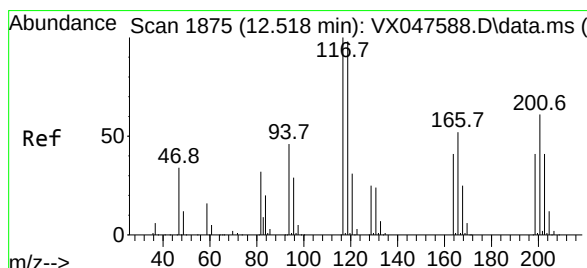
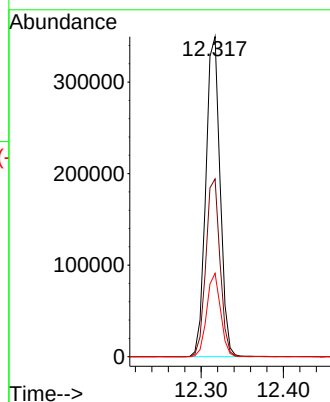
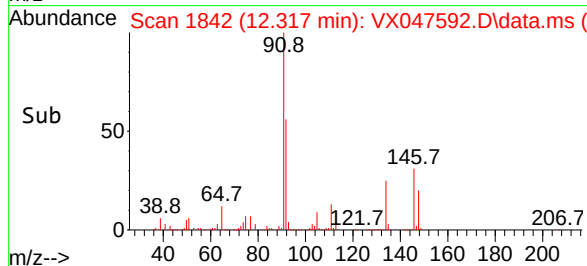
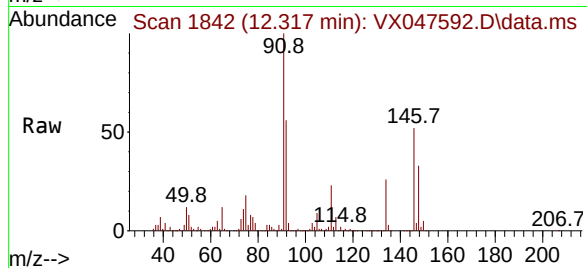
134 25.3 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 50.732 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX047592.D

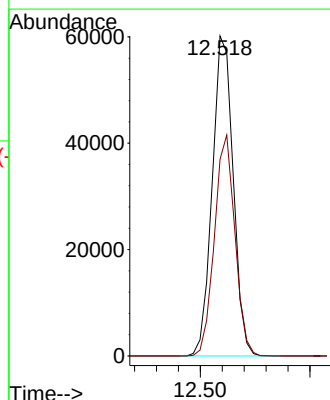
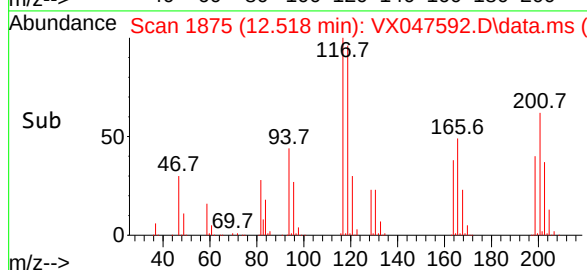
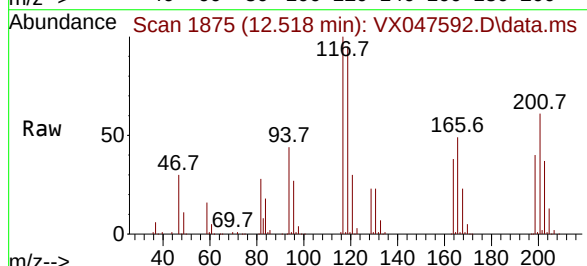
Acq: 16 Sep 2025 13:35

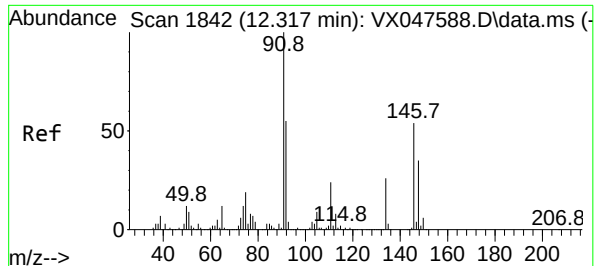
Tgt Ion:117 Resp: 79751

Ion Ratio Lower Upper

117 100

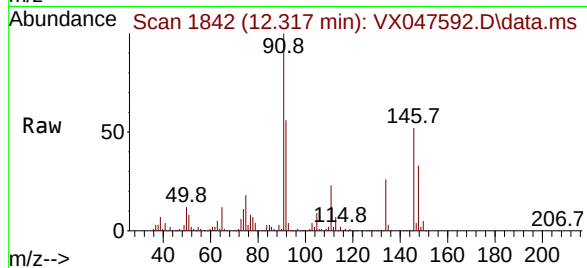
201 67.7 34.2 102.5





#91
1,2-Dichlorobenzene
Concen: 49.304 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

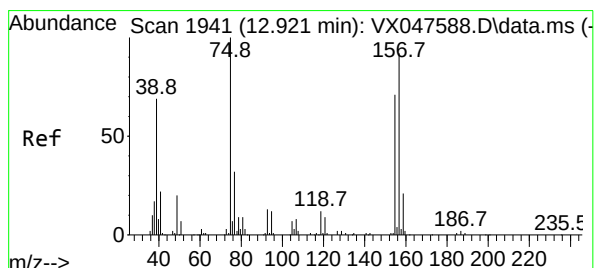
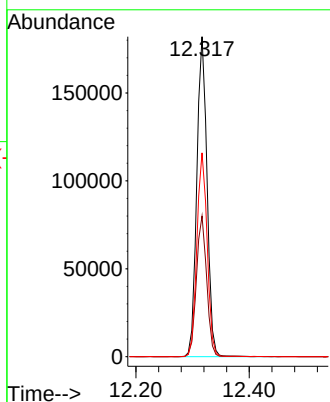
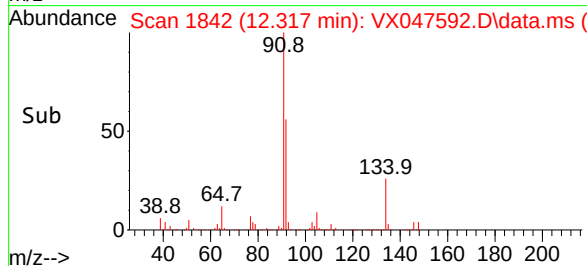
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:146 Resp: 227493
Ion Ratio Lower Upper
146 100
111 44.2 22.2 66.6
148 64.1 31.8 95.4

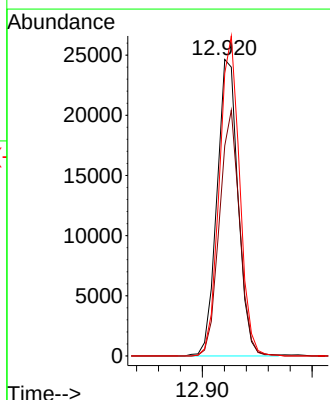
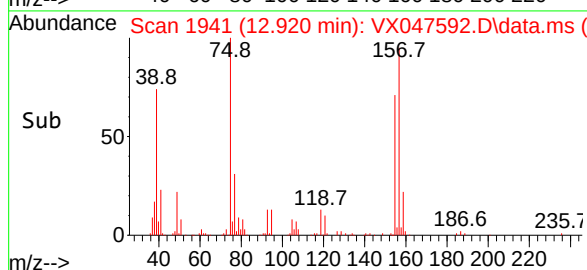
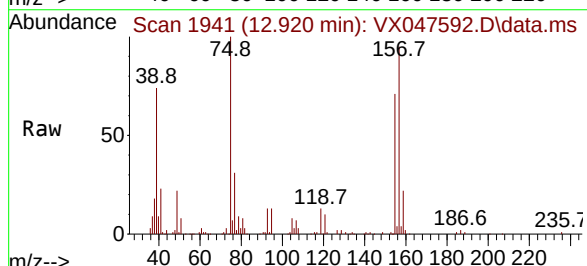
Manual Integrations
APPROVED

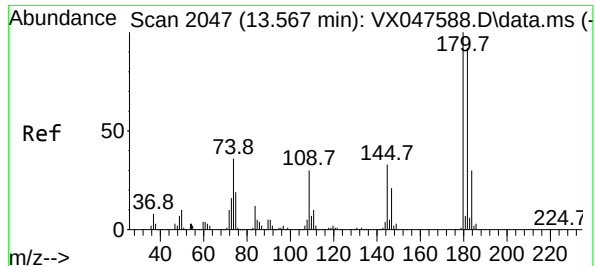
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.918 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 33020
Ion Ratio Lower Upper
75 100
155 79.1 37.7 113.1
157 103.2 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 51.133 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion:180 Resp: 15333

Ion Ratio Lower Upper

180 100

182 93.1 46.6 139.8

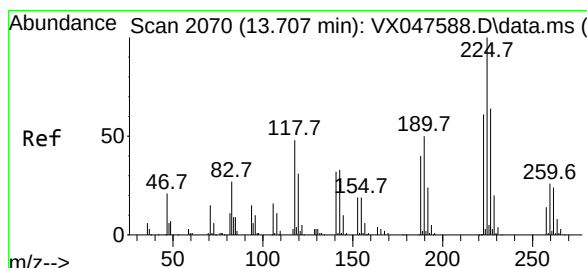
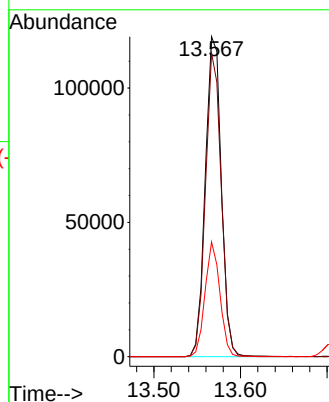
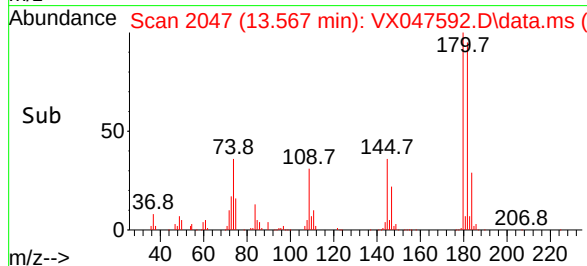
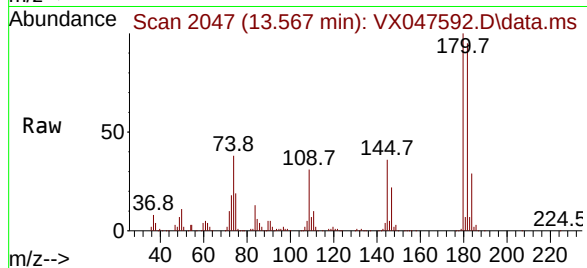
145 33.3 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 52.131 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

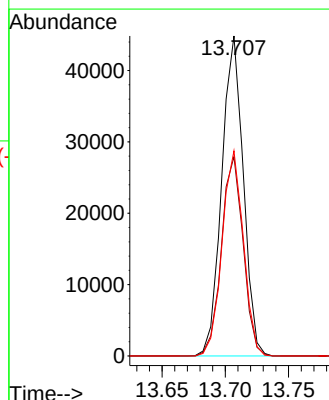
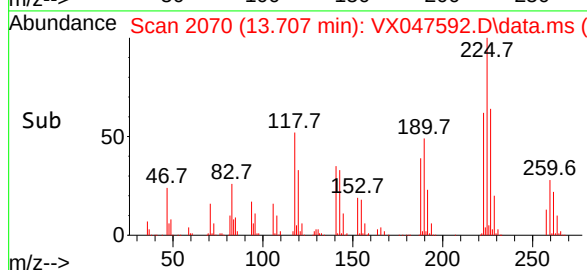
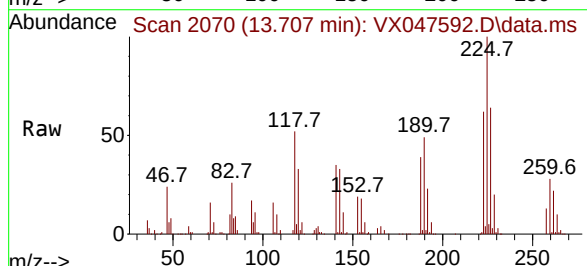
Tgt Ion:225 Resp: 53099

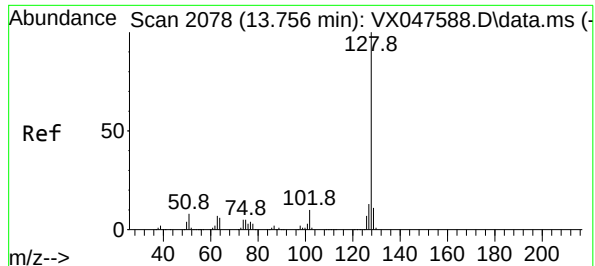
Ion Ratio Lower Upper

225 100

223 62.6 31.7 95.1

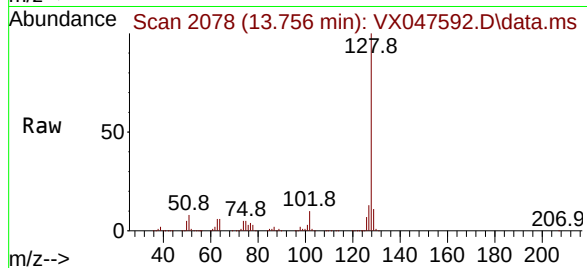
227 63.3 32.0 96.0





#95
Naphthalene
Concen: 50.836 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

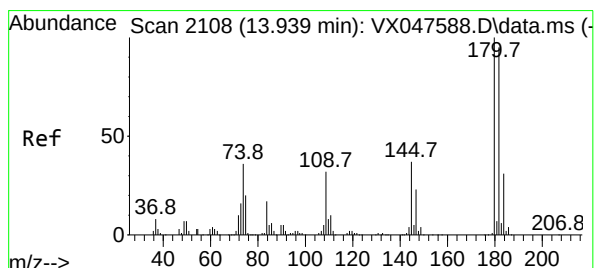
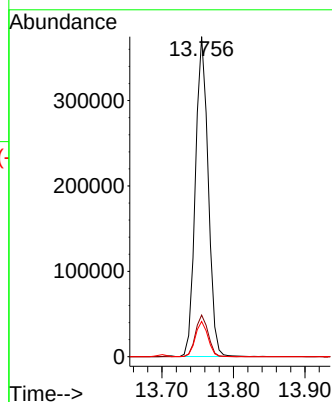
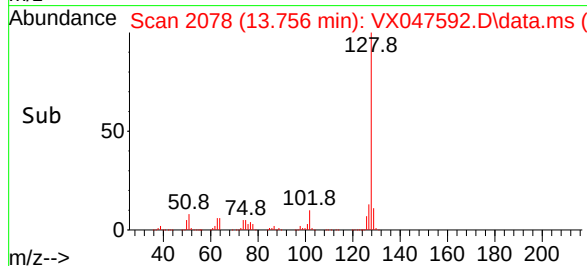
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:128 Resp: 464200
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 10.9 8.8 13.2

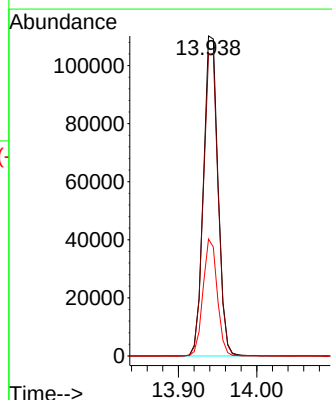
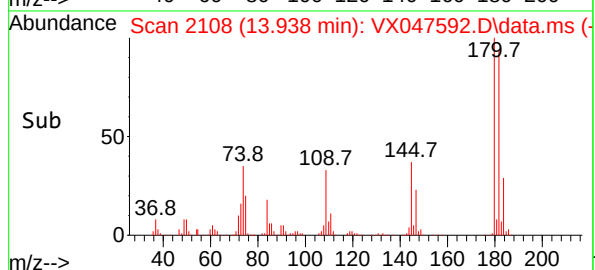
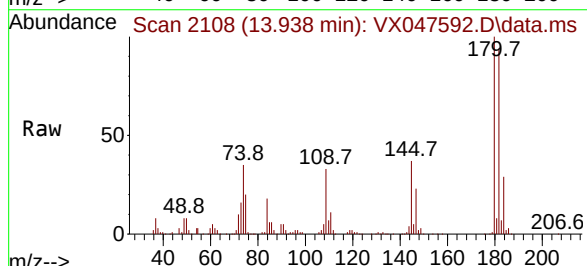
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.054 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:180 Resp: 142413
Ion Ratio Lower Upper
180 100
182 95.5 47.6 142.8
145 35.6 17.9 53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX091625

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	108	-0.01
2 T	Dichlorodifluoromethane	0.518	0.462	10.8	99	0.00
3 P	Chloromethane	0.680	0.595	12.5	97	0.00
4 C	Vinyl Chloride	0.666	0.610	8.4#	99	0.00
5 T	Bromomethane	0.422	0.410	2.8	104	0.00
6 T	Chloroethane	0.445	0.415	6.7	101	0.00
7 T	Trichlorofluoromethane	0.989	0.931	5.9	101	0.00
8 T	Diethyl Ether	0.405	0.378	6.7	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.578	0.561	2.9	103	0.00
10 T	Methyl Iodide	0.902	0.834	7.5	98	0.00
11 T	Tert butyl alcohol	0.089	0.091	-2.2	110	0.00
12 CM	1,1-Dichloroethene	0.594	0.559	5.9#	100	0.00
13 T	Acrolein	0.082	0.083	-1.2	110	0.00
14 T	Allyl chloride	1.226	1.146	6.5	102	0.00
15 T	Acrylonitrile	0.328	0.333	-1.5	103	0.00
16 T	Acetone	0.346	0.339	2.0	115	0.00
17 T	Carbon Disulfide	1.626	1.463	10.0	100	0.00
18 T	Methyl Acetate	0.770	0.850	-10.4	104	0.00
19 T	Methyl tert-butyl Ether	2.169	2.105	3.0	101	0.00
20 T	Methylene Chloride	0.732	0.674	7.9	99	0.00
21 T	trans-1,2-Dichloroethene	0.640	0.597	6.7	99	0.00
22 T	Diisopropyl ether	2.376	2.289	3.7	99	-0.01
23 T	Vinyl Acetate	1.901	1.867	1.8	101	0.00
24 P	1,1-Dichloroethane	1.263	1.213	4.0	101	0.00
25 T	2-Butanone	0.432	0.438	-1.4	107	0.00
26 T	2,2-Dichloropropane	1.050	1.039	1.0	105	0.00
27 T	cis-1,2-Dichloroethene	0.783	0.765	2.3	102	0.00
28 T	Bromochloromethane	0.551	0.514	6.7	96	-0.01
29 T	Tetrahydrofuran	0.260	0.263	-1.2	103	0.00
30 C	Chloroform	1.276	1.244	2.5#	101	0.00
31 T	Cyclohexane	1.052	0.968	8.0	101	0.00
32 T	1,1,1-Trichloroethane	1.082	1.060	2.0	101	0.00
33 S	1,2-Dichloroethane-d4	0.796	0.725	8.9	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
35 S	Dibromofluoromethane	0.335	0.306	8.7	100	0.00
36 T	1,1-Dichloropropene	0.490	0.457	6.7	101	0.00
37 T	Ethyl Acetate	0.525	0.517	1.5	105	-0.01
38 T	Carbon Tetrachloride	0.532	0.500	6.0	100	-0.01
39 T	Methylcyclohexane	0.556	0.541	2.7	103	0.00
40 TM	Benzene	1.488	1.410	5.2	100	0.00
41 T	Methacrylonitrile	0.271	0.274	-1.1	103	0.00
42 TM	1,2-Dichloroethane	0.566	0.531	6.2	98	0.00
43 T	Isopropyl Acetate	0.860	0.846	1.6	102	0.00
44 TM	Trichloroethene	0.360	0.346	3.9	101	0.00
45 C	1,2-Dichloropropane	0.381	0.366	3.9#	100	0.00
46 T	Dibromomethane	0.277	0.266	4.0	100	0.00
47 T	Bromodichloromethane	0.572	0.558	2.4	99	0.00
48 T	Methyl methacrylate	0.429	0.427	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.004	0.005	-25.0	106	0.00
50 S	Toluene-d8	1.160	1.077	7.2	101	0.00
51 T	4-Methyl-2-Pentanone	0.477	0.488	-2.3	103	0.00
52 CM	Toluene	0.917	0.883	3.7#	101	0.00
53 T	t-1,3-Dichloropropene	0.584	0.578	1.0	101	0.00
54 T	cis-1,3-Dichloropropene	0.624	0.615	1.4	102	0.00
55 T	1,1,2-Trichloroethane	0.354	0.338	4.5	99	0.00
56 T	Ethyl methacrylate	0.555	0.572	-3.1	103	0.00
57 T	1,3-Dichloropropane	0.607	0.594	2.1	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.227	0.238	-4.8	94	0.00
59 T	2-Hexanone	0.343	0.347	-1.2	104	0.00
60 T	Dibromochloromethane	0.407	0.406	0.2	101	0.00
61 T	1,2-Dibromoethane	0.360	0.355	1.4	101	0.00
62 S	4-Bromofluorobenzene	0.440	0.410	6.8	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64 T	Tetrachloroethene	0.326	0.315	3.4	103	0.00
65 PM	Chlorobenzene	1.136	1.103	2.9	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.392	0.383	2.3	99	0.00
67 C	Ethyl Benzene	1.960	1.953	0.4#	102	0.00
68 T	m/p-Xylenes	0.729	0.722	1.0	101	0.00
69 T	o-Xylene	0.706	0.708	-0.3	101	0.00
70 T	Styrene	1.236	1.225	0.9	101	0.00
71 P	Bromoform	0.293	0.300	-2.4	102	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
73 T	Isopropylbenzene	3.801	3.762	1.0	101	0.00
74 T	N-amyl acetate	1.733	1.746	-0.8	102	0.00
75 P	1,1,2,2-Tetrachloroethane	1.150	1.147	0.3	102	0.00
76 T	1,2,3-Trichloropropane	1.012	1.076	-6.3	104	0.00
77 T	Bromobenzene	0.936	0.902	3.6	100	0.00
78 T	n-propylbenzene	4.494	4.430	1.4	101	0.00
79 T	2-Chlorotoluene	2.752	2.704	1.7	101	0.00
80 T	1,3,5-Trimethylbenzene	3.123	3.127	-0.1	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.397	0.401	-1.0	106	0.00
82 T	4-Chlorotoluene	3.251	3.196	1.7	101	0.00
83 T	tert-Butylbenzene	3.197	3.177	0.6	103	0.00
84 T	1,2,4-Trimethylbenzene	3.166	3.161	0.2	103	0.00
85 T	sec-Butylbenzene	3.797	3.805	-0.2	103	0.00
86 T	p-Isopropyltoluene	3.215	3.206	0.3	102	0.00
87 T	1,3-Dichlorobenzene	1.739	1.705	2.0	102	0.00
88 T	1,4-Dichlorobenzene	1.785	1.749	2.0	104	0.00
89 T	n-Butylbenzene	2.975	3.020	-1.5	105	0.00
90 T	Hexachloroethane	0.564	0.573	-1.6	105	0.00
91 T	1,2-Dichlorobenzene	1.657	1.634	1.4	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.233	0.237	-1.7	102	0.00
93 T	1,2,4-Trichlorobenzene	1.077	1.101	-2.2	104	0.00
94 T	Hexachlorobutadiene	0.366	0.381	-4.1	108	0.00
95 T	Naphthalene	3.279	3.334	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.023	-2.1	102	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX091625

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	108	-0.01
2 T	Dichlorodifluoromethane	50.000	44.592	10.8	99	0.00
3 P	Chloromethane	50.000	43.710	12.6	97	0.00
4 C	Vinyl Chloride	50.000	45.783	8.4#	99	0.00
5 T	Bromomethane	50.000	48.489	3.0	104	0.00
6 T	Chloroethane	50.000	46.575	6.8	101	0.00
7 T	Trichlorofluoromethane	50.000	47.074	5.9	101	0.00
8 T	Diethyl Ether	50.000	46.693	6.6	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.524	3.0	103	0.00
10 T	Methyl Iodide	50.000	46.210	7.6	98	0.00
11 T	Tert butyl alcohol	250.000	256.271	-2.5	110	0.00
12 CM	1,1-Dichloroethene	50.000	47.076	5.8#	100	0.00
13 T	Acrolein	250.000	254.867	-1.9	110	0.00
14 T	Allyl chloride	50.000	46.742	6.5	102	0.00
15 T	Acrylonitrile	250.000	253.567	-1.4	103	0.00
16 T	Acetone	250.000	245.006	2.0	115	0.00
17 T	Carbon Disulfide	50.000	44.966	10.1	100	0.00
18 T	Methyl Acetate	50.000	55.175	-10.3	104	0.00
19 T	Methyl tert-butyl Ether	50.000	48.538	2.9	101	0.00
20 T	Methylene Chloride	50.000	46.000	8.0	99	0.00
21 T	trans-1,2-Dichloroethene	50.000	46.709	6.6	99	0.00
22 T	Diisopropyl ether	50.000	48.174	3.7	99	-0.01
23 T	Vinyl Acetate	250.000	245.539	1.8	101	0.00
24 P	1,1-Dichloroethane	50.000	48.041	3.9	101	0.00
25 T	2-Butanone	250.000	253.598	-1.4	107	0.00
26 T	2,2-Dichloropropane	50.000	49.494	1.0	105	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.826	2.3	102	0.00
28 T	Bromochloromethane	50.000	46.586	6.8	96	-0.01
29 T	Tetrahydrofuran	250.000	253.375	-1.4	103	0.00
30 C	Chloroform	50.000	48.739	2.5#	101	0.00
31 T	Cyclohexane	50.000	45.999	8.0	101	0.00
32 T	1,1,1-Trichloroethane	50.000	48.978	2.0	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	45.550	8.9	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	108	0.00
35 S	Dibromofluoromethane	50.000	45.559	8.9	100	0.00
36 T	1,1-Dichloropropene	50.000	46.663	6.7	101	0.00
37 T	Ethyl Acetate	50.000	49.241	1.5	105	-0.01
38 T	Carbon Tetrachloride	50.000	46.935	6.1	100	-0.01
39 T	Methylcyclohexane	50.000	48.597	2.8	103	0.00
40 TM	Benzene	50.000	47.357	5.3	100	0.00
41 T	Methacrylonitrile	50.000	50.490	-1.0	103	0.00
42 TM	1,2-Dichloroethane	50.000	46.867	6.3	98	0.00
43 T	Isopropyl Acetate	50.000	49.136	1.7	102	0.00
44 TM	Trichloroethene	50.000	48.037	3.9	101	0.00
45 C	1,2-Dichloropropane	50.000	48.053	3.9#	100	0.00
46 T	Dibromomethane	50.000	47.976	4.0	100	0.00
47 T	Bromodichloromethane	50.000	48.769	2.5	99	0.00
48 T	Methyl methacrylate	50.000	49.757	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX091625

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	1089.520	-9.0	106	0.00
50 S	Toluene-d8	50.000	46.411	7.2	101	0.00
51 T	4-Methyl-2-Pentanone	250.000	255.752	-2.3	103	0.00
52 CM	Toluene	50.000	48.130	3.7#	101	0.00
53 T	t-1,3-Dichloropropene	50.000	49.527	0.9	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.257	1.5	102	0.00
55 T	1,1,2-Trichloroethane	50.000	47.772	4.5	99	0.00
56 T	Ethyl methacrylate	50.000	51.490	-3.0	103	0.00
57 T	1,3-Dichloropropane	50.000	48.894	2.2	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	225.562	9.8	94	0.00
59 T	2-Hexanone	250.000	253.126	-1.3	104	0.00
60 T	Dibromochloromethane	50.000	49.824	0.4	101	0.00
61 T	1,2-Dibromoethane	50.000	49.297	1.4	101	0.00
62 S	4-Bromofluorobenzene	50.000	46.520	7.0	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64 T	Tetrachloroethene	50.000	48.296	3.4	103	0.00
65 PM	Chlorobenzene	50.000	48.549	2.9	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	48.794	2.4	99	0.00
67 C	Ethyl Benzene	50.000	49.813	0.4#	102	0.00
68 T	m/p-Xylenes	100.000	98.956	1.0	101	0.00
69 T	o-Xylene	50.000	50.159	-0.3	101	0.00
70 T	Styrene	50.000	49.536	0.9	101	0.00
71 P	Bromoform	50.000	51.207	-2.4	102	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	109	0.00
73 T	Isopropylbenzene	50.000	49.479	1.0	101	0.00
74 T	N-amyl acetate	50.000	50.375	-0.8	102	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.851	0.3	102	0.00
76 T	1,2,3-Trichloropropane	50.000	53.124	-6.2	104	0.00
77 T	Bromobenzene	50.000	48.173	3.7	100	0.00
78 T	n-propylbenzene	50.000	49.295	1.4	101	0.00
79 T	2-Chlorotoluene	50.000	49.117	1.8	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.055	-0.1	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.543	-1.1	106	0.00
82 T	4-Chlorotoluene	50.000	49.164	1.7	101	0.00
83 T	tert-Butylbenzene	50.000	49.679	0.6	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.911	0.2	103	0.00
85 T	sec-Butylbenzene	50.000	50.100	-0.2	103	0.00
86 T	p-Isopropyltoluene	50.000	49.861	0.3	102	0.00
87 T	1,3-Dichlorobenzene	50.000	49.014	2.0	102	0.00
88 T	1,4-Dichlorobenzene	50.000	49.011	2.0	104	0.00
89 T	n-Butylbenzene	50.000	50.752	-1.5	105	0.00
90 T	Hexachloroethane	50.000	50.732	-1.5	105	0.00
91 T	1,2-Dichlorobenzene	50.000	49.304	1.4	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.918	-1.8	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.133	-2.3	104	0.00
94 T	Hexachlorobutadiene	50.000	52.131	-4.3	108	0.00
95 T	Naphthalene	50.000	50.836	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.054	-2.1	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



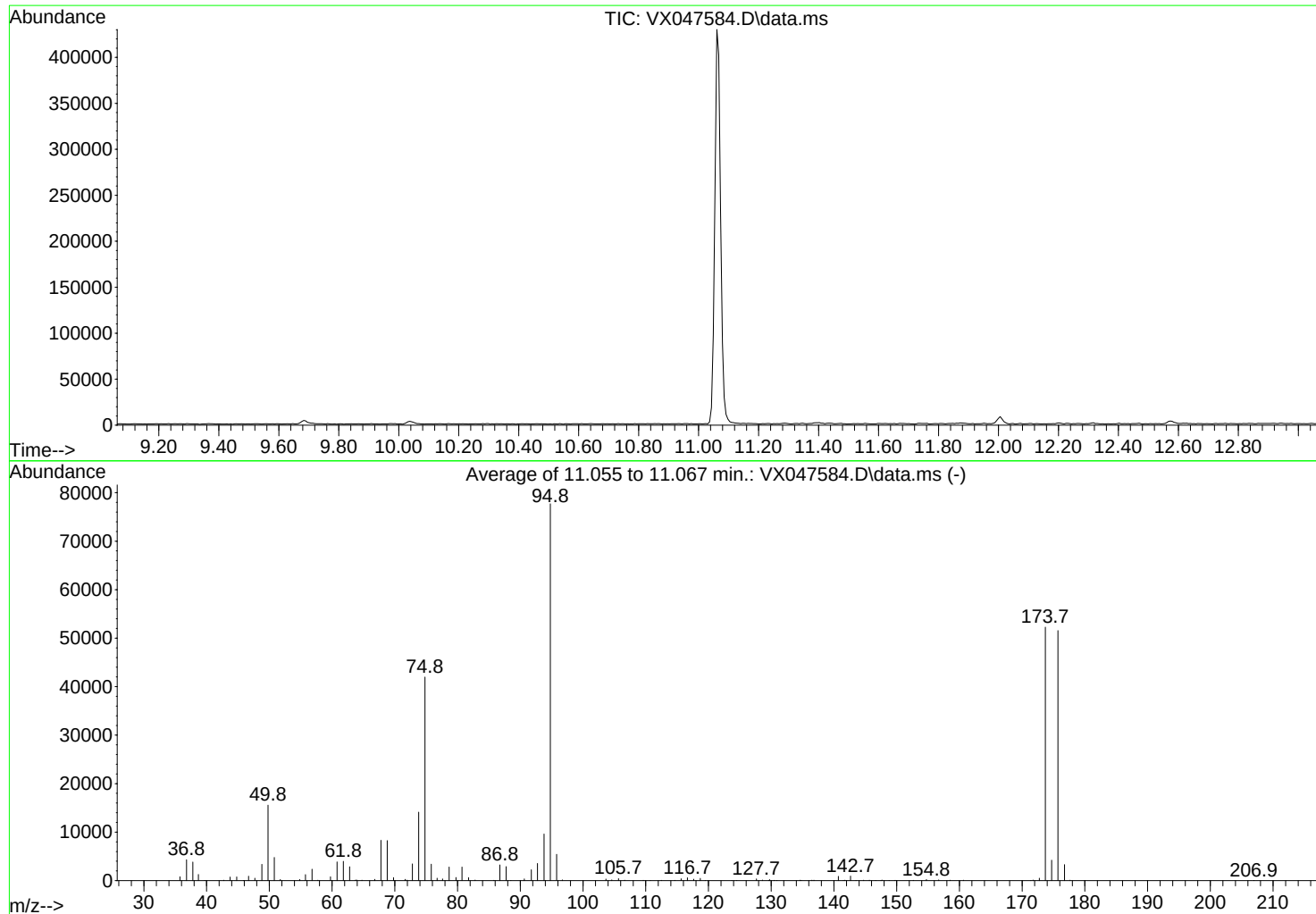
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047584.D
Acq On : 16 Sep 2025 08:56
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1628

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	15566	PASS
75	95	30	60	54.0	41979	PASS
95	95	100	100	100.0	77717	PASS
96	95	5	9	7.0	5432	PASS
173	174	0.00	2	1.0	507	PASS
174	95	50	100	67.3	52275	PASS
175	174	5	9	8.1	4209	PASS
176	174	95	101	98.6	51560	PASS
177	176	5	9	6.4	3311	PASS

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VX0916WBL01	SDG No.:	Q3015
Lab Sample ID:	VX0916WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047594.D	1	09/16/25 14:53	VX091625

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
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
107-02-8	Acrolein	7.10	U	7.10	25.0	ug/L
107-13-1	Acrylonitrile	0.83	U	0.83	25.0	ug/L
67-64-1	Acetone	1.50	U	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
75-09-2	Methylene Chloride	0.28	U	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
108-05-4	Vinyl Acetate	0.66	U	0.66	25.0	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	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
594-20-7	2,2-Dichloropropane	0.21	U	0.21	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
563-58-6	1,1-Dichloropropene	0.15	U	0.15	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
74-95-3	Dibromomethane	0.25	U	0.25	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VX0916WBL01		SDG No.:	Q3015
Lab Sample ID:	VX0916WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047594.D	1	09/16/25 14:53	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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
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
142-28-9	1,3-Dichloropropane	0.19	U	0.19	5.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	0.30	U	0.30	25.0	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
630-20-6	1,1,1,2-Tetrachloroethane	0.19	U	0.19	5.00	ug/L
67-72-1	Hexachloroethane	0.32	U	0.32	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
1330-20-7	Total Xylenes	0.36	U	0.36	15.0	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
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	5.00	ug/L
108-86-1	Bromobenzene	0.24	U	0.24	5.00	ug/L
103-65-1	n-propylbenzene	0.13	U	0.13	5.00	ug/L
95-49-8	2-Chlorotoluene	0.14	U	0.14	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.15	U	0.15	5.00	ug/L
106-43-4	4-Chlorotoluene	0.13	U	0.13	5.00	ug/L
98-06-6	tert-Butylbenzene	0.14	U	0.14	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.14	U	0.14	5.00	ug/L
135-98-8	sec-Butylbenzene	0.13	U	0.13	5.00	ug/L

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark			Date Collected:	
Project:	NJ Waste Water PT			Date Received:	
Client Sample ID:	VX0916WBL01			SDG No.:	Q3015
Lab Sample ID:	VX0916WBL01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047594.D	1	09/16/25 14:53	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.13	U	0.13	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
104-51-8	n-Butylbenzene	0.15	U	0.15	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
87-68-3	Hexachlorobutadiene	0.30	U	0.30	5.00	ug/L
91-20-3	Naphthalene	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	56.2		74 - 125	112%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	49.6		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.3		77 - 121	117%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	171000	5.538			
540-36-3	1,4-Difluorobenzene	355000	6.745			
3114-55-4	Chlorobenzene-d5	356000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	186000	12.006			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047594.D
 Acq On : 16 Sep 2025 14:53
 Operator : JC/MD
 Sample : VX0916WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBL01

Quant Time: Sep 17 06:49:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	170934	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	354724	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	356396	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	185546	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	152887	56.191	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	112.380%
35) Dibromofluoromethane	5.367	113	117659	49.458	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.920%
50) Toluene-d8	8.635	98	408157	49.583	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.160%
62) 4-Bromofluorobenzene	11.061	95	181994	58.255	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	116.520%

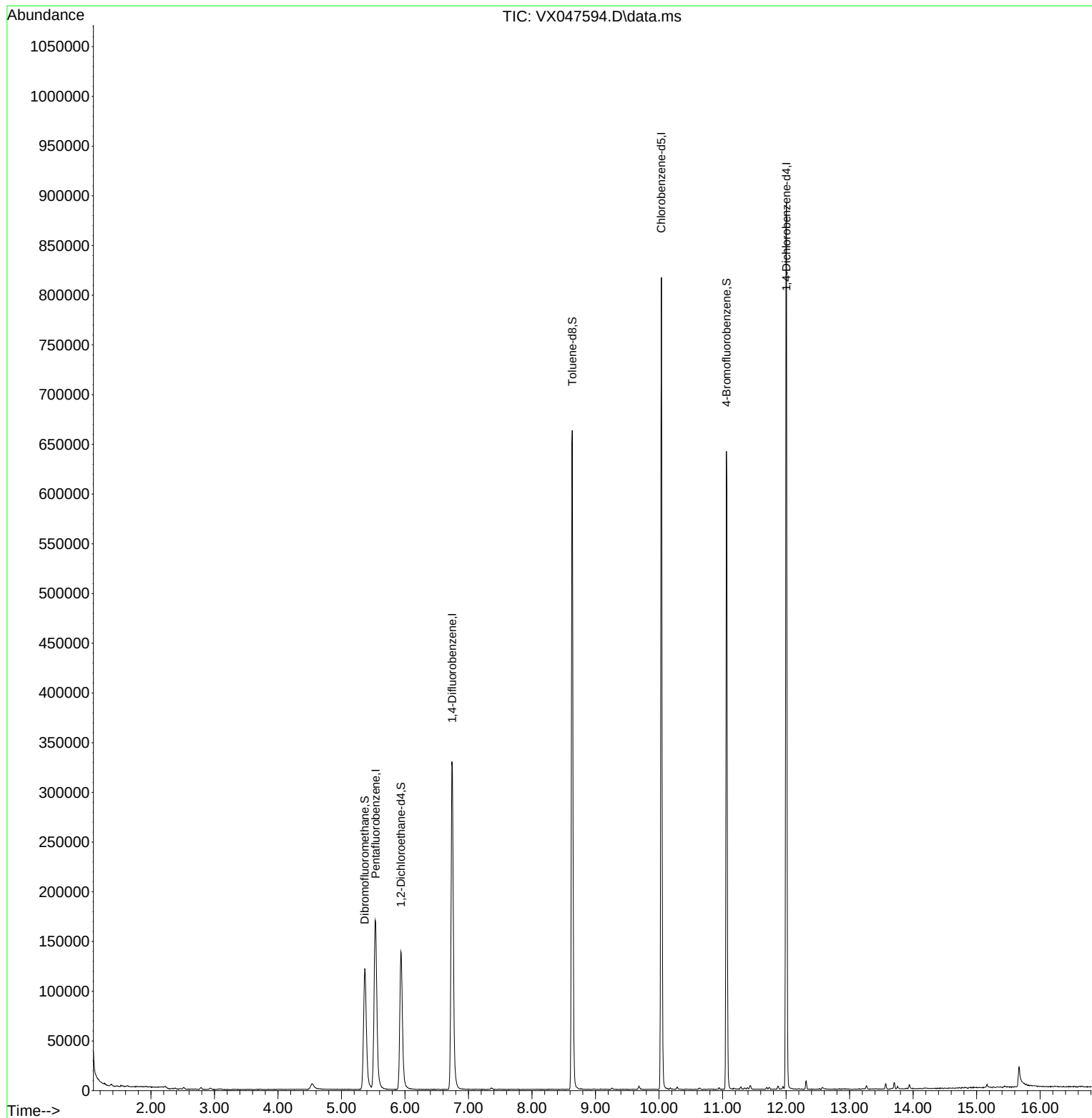
Target Compounds	Qvalue

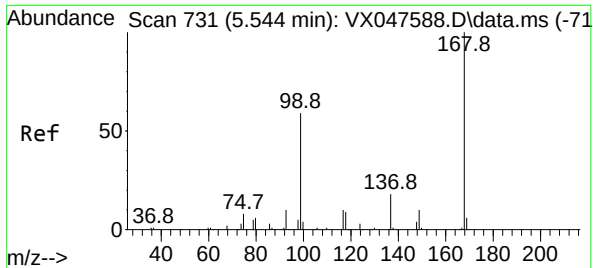
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047594.D
Acq On : 16 Sep 2025 14:53
Operator : JC/MD
Sample : VX0916WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBL01

Quant Time: Sep 17 06:49:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

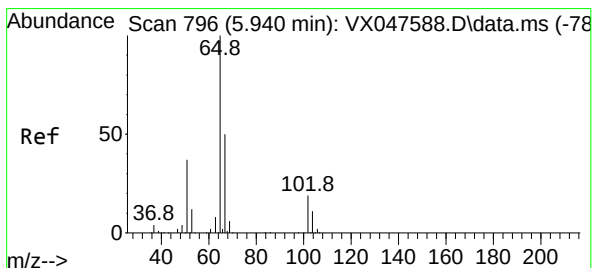
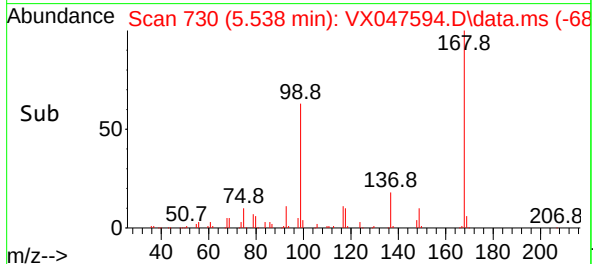
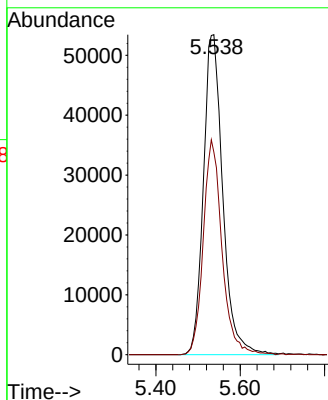
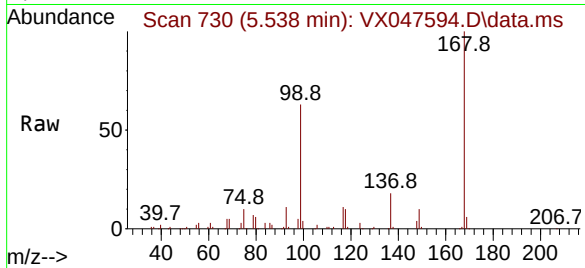




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047594.D
Acq: 16 Sep 2025 14:53

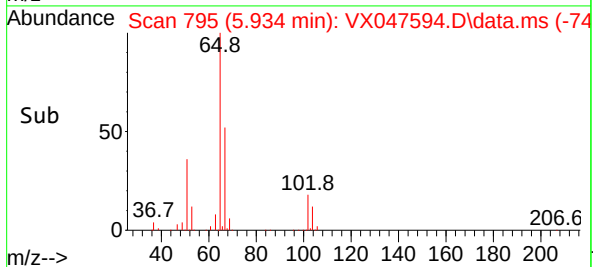
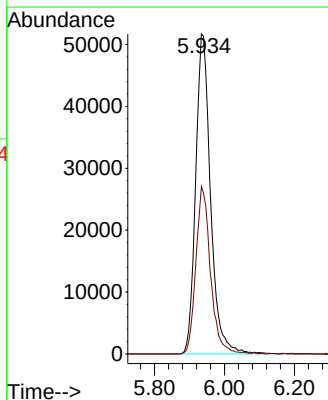
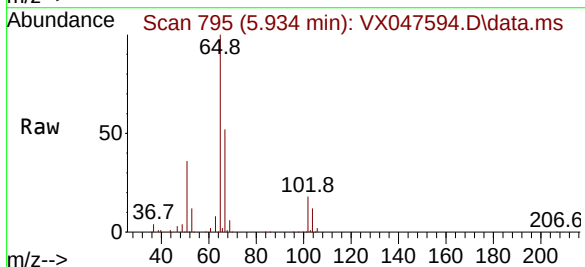
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBL01

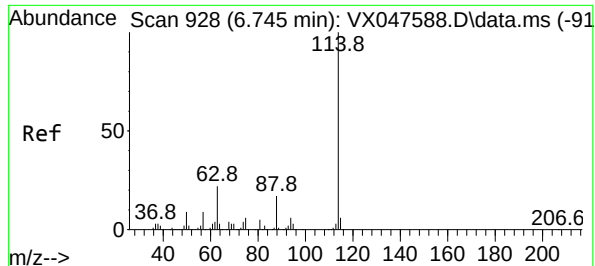
Tgt Ion:168 Resp: 170934
Ion Ratio Lower Upper
168 100
99 63.3 48.8 73.2



#33
1,2-Dichloroethane-d4
Concen: 56.191 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX047594.D
Acq: 16 Sep 2025 14:53

Tgt Ion: 65 Resp: 152887
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX047594.D

Acq: 16 Sep 2025 14:53

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBL01

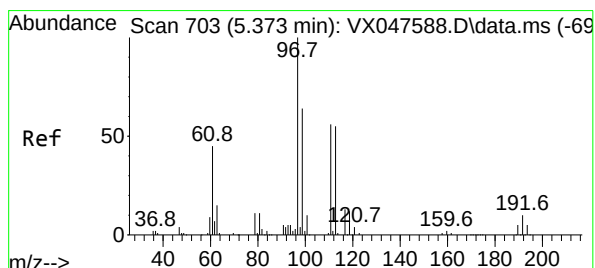
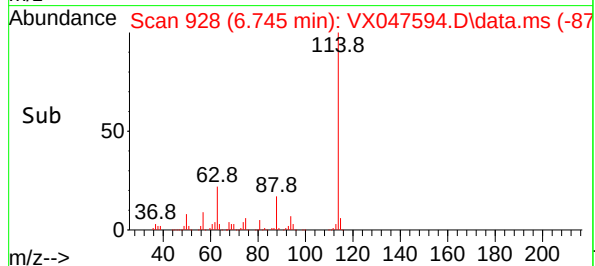
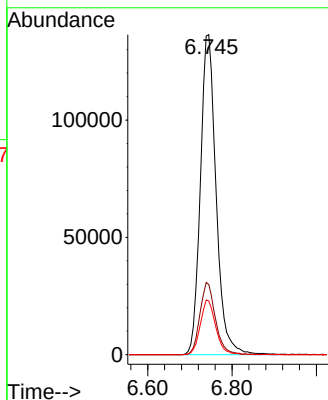
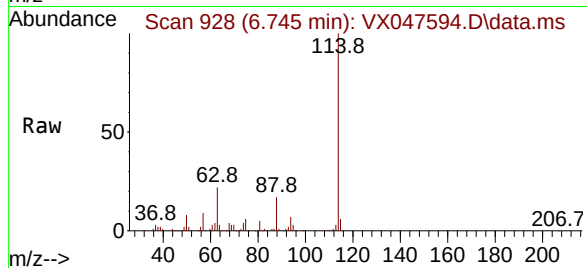
Tgt Ion:114 Resp: 354724

Ion Ratio Lower Upper

114 100

63 25.2 0.0 44.0

88 16.8 0.0 34.2



#35

Dibromofluoromethane

Concen: 49.458 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX047594.D

Acq: 16 Sep 2025 14:53

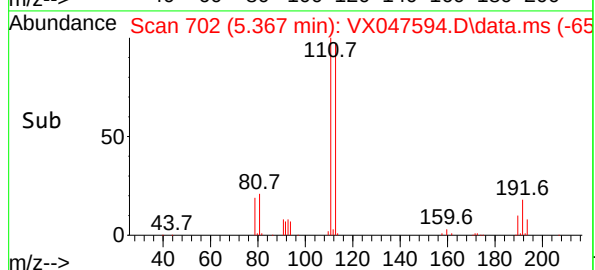
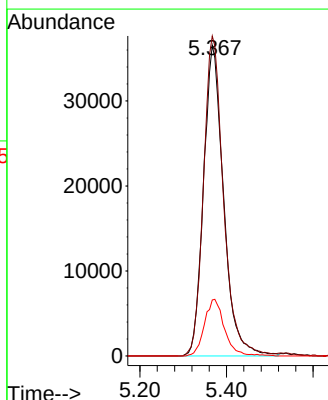
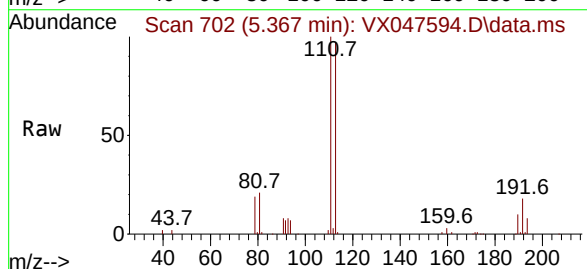
Tgt Ion:113 Resp: 117659

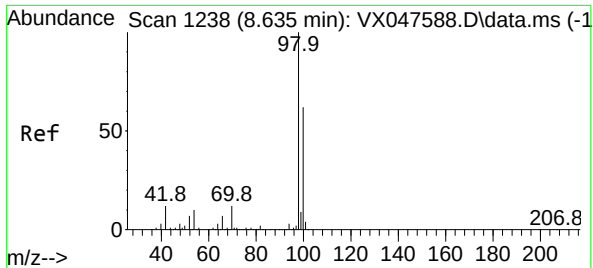
Ion Ratio Lower Upper

113 100

111 102.3 80.9 121.3

192 18.3 14.2 21.4





#50

Toluene-d8

Concen: 49.583 ug/l

RT: 8.635 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX047594.D

Acq: 16 Sep 2025 14:53

Instrument :

MSVOA_X

ClientSampleId :

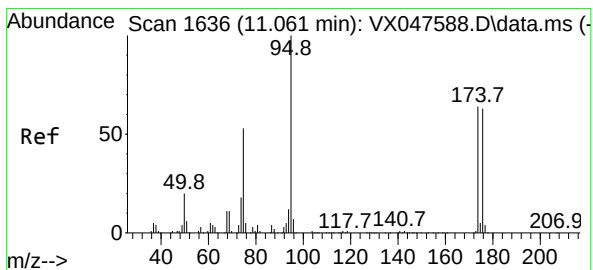
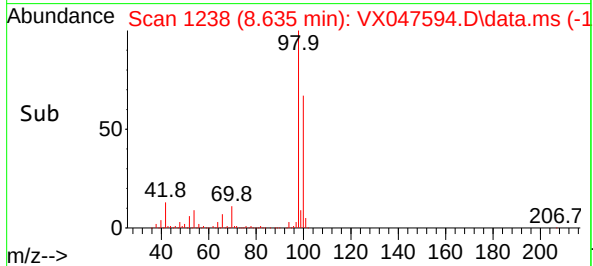
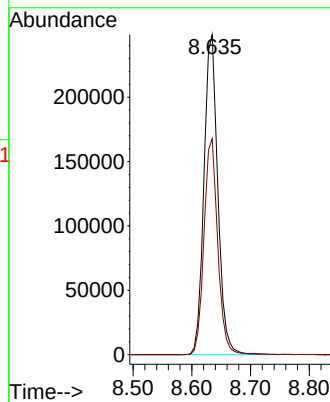
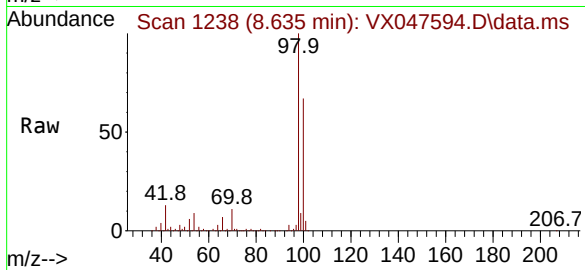
VX0916WBL01

Tgt Ion: 98 Resp: 408157

Ion Ratio Lower Upper

98 100

100 67.0 53.0 79.4



#62

4-Bromofluorobenzene

Concen: 58.255 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX047594.D

Acq: 16 Sep 2025 14:53

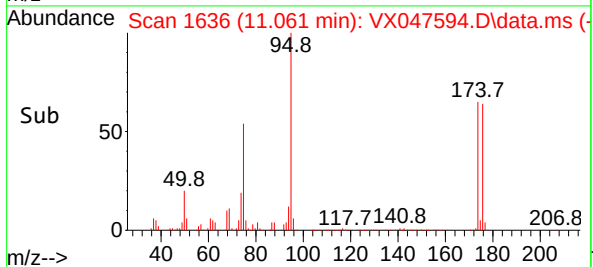
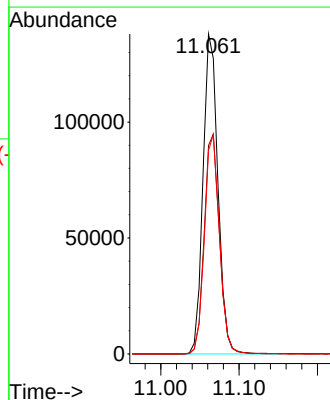
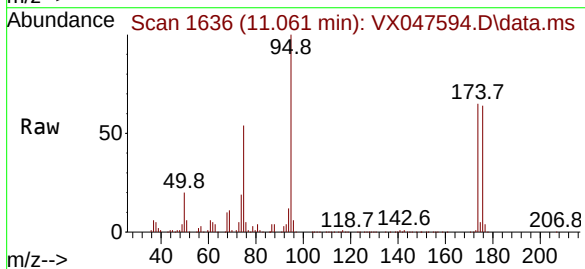
Tgt Ion: 95 Resp: 181994

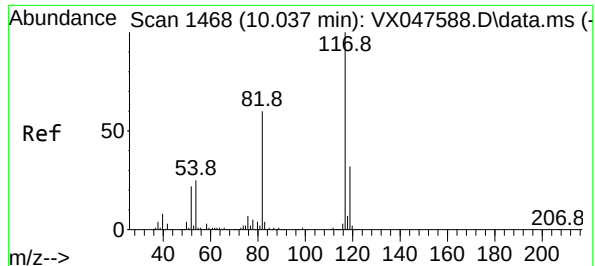
Ion Ratio Lower Upper

95 100

174 70.1 0.0 141.6

176 68.9 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX047594.D

Acq: 16 Sep 2025 14:53

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBL01

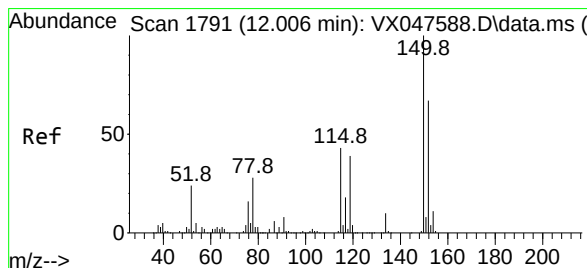
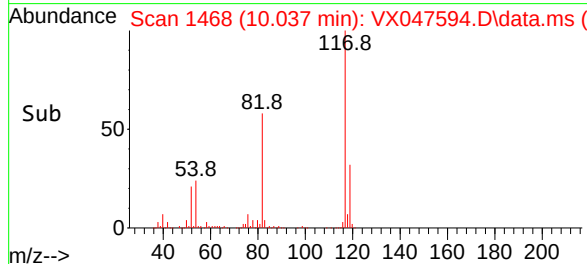
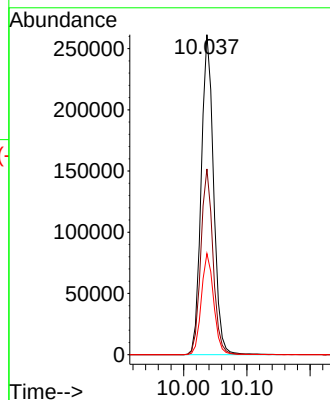
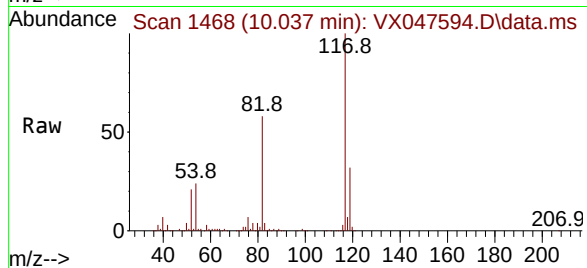
Tgt Ion:117 Resp: 356396

Ion Ratio Lower Upper

117 100

82 58.1 47.8 71.6

119 31.6 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX047594.D

Acq: 16 Sep 2025 14:53

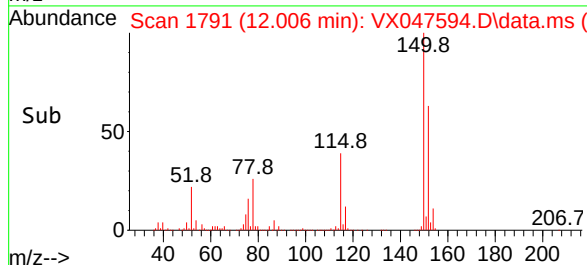
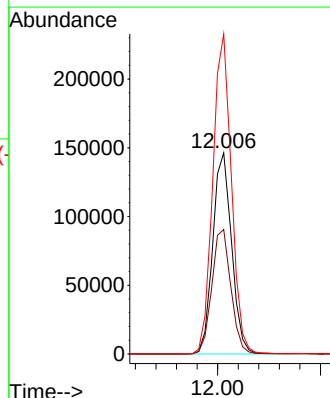
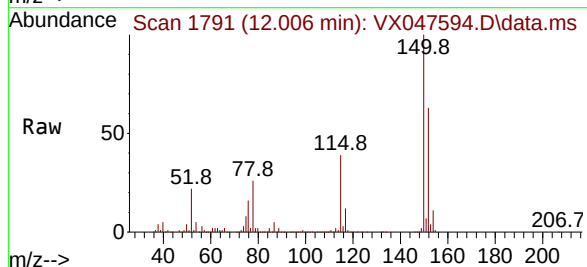
Tgt Ion:152 Resp: 185546

Ion Ratio Lower Upper

152 100

115 62.9 44.9 134.5

150 157.3 0.0 352.0



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VX0916WBS01		SDG No.:	Q3015
Lab Sample ID:	VX0916WBS01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047595.D	1	09/16/25 15:21	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.0		0.22	5.00	ug/L
74-87-3	Chloromethane	18.3		0.32	5.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.26	5.00	ug/L
74-83-9	Bromomethane	20.6		1.40	5.00	ug/L
75-00-3	Chloroethane	19.1		0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.33	5.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.23	5.00	ug/L
107-02-8	Acrolein	94.4		7.10	25.0	ug/L
107-13-1	Acrylonitrile	100		0.83	25.0	ug/L
67-64-1	Acetone	83.7		1.50	25.0	ug/L
75-15-0	Carbon Disulfide	18.1		0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.5		0.16	5.00	ug/L
75-09-2	Methylene Chloride	19.1		0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.6		0.23	5.00	ug/L
108-05-4	Vinyl Acetate	100		0.66	25.0	ug/L
75-34-3	1,1-Dichloroethane	19.8		0.23	5.00	ug/L
78-93-3	2-Butanone	100		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.1		0.25	5.00	ug/L
594-20-7	2,2-Dichloropropane	18.1		0.21	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.19	5.00	ug/L
74-97-5	Bromochloromethane	20.4		0.22	5.00	ug/L
67-66-3	Chloroform	20.3		0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.2		0.20	5.00	ug/L
563-58-6	1,1-Dichloropropene	18.2		0.15	5.00	ug/L
71-43-2	Benzene	19.3		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.3		0.22	5.00	ug/L
79-01-6	Trichloroethene	19.2		0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.5		0.20	5.00	ug/L
74-95-3	Dibromomethane	19.3		0.25	5.00	ug/L
75-27-4	Bromodichloromethane	19.2		0.22	5.00	ug/L

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark			Date Collected:	
Project:	NJ Waste Water PT			Date Received:	
Client Sample ID:	VX0916WBS01			SDG No.:	Q3015
Lab Sample ID:	VX0916WBS01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047595.D	1	09/16/25 15:21	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-10-1	4-Methyl-2-Pentanone	100		0.68	25.0	ug/L
108-88-3	Toluene	19.3		0.14	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.1		0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.6		0.21	5.00	ug/L
142-28-9	1,3-Dichloropropane	20.2		0.19	5.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	84.6		0.30	25.0	ug/L
591-78-6	2-Hexanone	100		0.89	25.0	ug/L
124-48-1	Dibromochloromethane	19.9		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	20.3		0.15	5.00	ug/L
127-18-4	Tetrachloroethene	18.3		0.23	5.00	ug/L
108-90-7	Chlorobenzene	18.5		0.12	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	18.7		0.19	5.00	ug/L
67-72-1	Hexachloroethane	17.2		0.32	5.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	37.4		0.24	10.0	ug/L
1330-20-7	Total Xylenes	56.1		0.36	15.0	ug/L
95-47-6	o-Xylene	18.7		0.12	5.00	ug/L
100-42-5	Styrene	18.6		0.15	5.00	ug/L
75-25-2	Bromoform	18.7		0.19	5.00	ug/L
98-82-8	Isopropylbenzene	17.9		0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.2		0.26	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	19.2		0.35	5.00	ug/L
108-86-1	Bromobenzene	17.8		0.24	5.00	ug/L
103-65-1	n-propylbenzene	17.8		0.13	5.00	ug/L
95-49-8	2-Chlorotoluene	18.1		0.14	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	18.0		0.15	5.00	ug/L
106-43-4	4-Chlorotoluene	17.9		0.13	5.00	ug/L
98-06-6	tert-Butylbenzene	17.5		0.14	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	18.0		0.14	5.00	ug/L
135-98-8	sec-Butylbenzene	17.9		0.13	5.00	ug/L

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark			Date Collected:	
Project:	NJ Waste Water PT			Date Received:	
Client Sample ID:	VX0916WBS01			SDG No.:	Q3015
Lab Sample ID:	VX0916WBS01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047595.D	1	09/16/25 15:21	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	17.8		0.13	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.8		0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.5		0.19	5.00	ug/L
104-51-8	n-Butylbenzene	18.0		0.15	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.1		0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.9		0.20	5.00	ug/L
87-68-3	Hexachlorobutadiene	17.6		0.30	5.00	ug/L
91-20-3	Naphthalene	17.8		0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.8		0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.7		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	50.9		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		77 - 121	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	5.532			
540-36-3	1,4-Difluorobenzene	338000	6.745			
3114-55-4	Chlorobenzene-d5	315000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	158000	12.006			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047595.D
 Acq On : 16 Sep 2025 15:21
 Operator : JC/MD
 Sample : VX0916WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:49:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.532	168	184711	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	338431	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	315471	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	158261	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	163682	55.672	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.340%			
35) Dibromofluoromethane	5.367	113	118111	52.038	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.080%			
50) Toluene-d8	8.635	98	399956	50.926	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.860%			
62) 4-Bromofluorobenzene	11.061	95	160691	53.912	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.820%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	34459	18.016	ug/l	98
3) Chloromethane	1.301	50	45892	18.256	ug/l	97
4) Vinyl Chloride	1.380	62	45703	18.573	ug/l	97
5) Bromomethane	1.618	94	32075	20.556	ug/l	99
6) Chloroethane	1.697	64	31358	19.066	ug/l	98
7) Trichlorofluoromethane	1.898	101	68568	18.767	ug/l	98
8) Diethyl Ether	2.136	74	28689	19.195	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	41304	19.333	ug/l	97
10) Methyl Iodide	2.453	142	58598	17.587	ug/l	99
11) Tert butyl alcohol	2.941	59	33216	101.438	ug/l	99
12) 1,1-Dichloroethene	2.325	96	41202	18.775	ug/l	94
13) Acrolein	2.233	56	28494	94.428	ug/l	98
14) Allyl chloride	2.666	41	84854	18.738	ug/l	100
15) Acrylonitrile	3.056	53	126976	104.688	ug/l	99
16) Acetone	2.374	43	107000	83.700	ug/l	98
17) Carbon Disulfide	2.514	76	108513	18.062	ug/l	97
18) Methyl Acetate	2.697	43	64398	22.635	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	163916	20.461	ug/l	99
20) Methylene Chloride	2.788	84	51674	19.096	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	46396	19.637	ug/l	98
22) Diisopropyl ether	3.751	45	178221	20.307	ug/l	96
23) Vinyl Acetate	3.709	43	702940	100.074	ug/l	100
24) 1,1-Dichloroethane	3.605	63	92195	19.764	ug/l	99
25) 2-Butanone	4.538	43	161053	100.998	ug/l	100
26) 2,2-Dichloropropane	4.459	77	70359	18.145	ug/l	100
27) cis-1,2-Dichloroethene	4.471	96	57536	19.884	ug/l	99
28) Bromochloromethane	4.879	49	41545	20.400	ug/l	97
29) Tetrahydrofuran	4.989	42	99415	103.635	ug/l	100
30) Chloroform	5.074	83	95809	20.325	ug/l	99
31) Cyclohexane	5.452	56	76578	19.710	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	80619	20.163	ug/l	99
36) 1,1-Dichloropropene	5.678	75	60495	18.240	ug/l	98
37) Ethyl Acetate	4.690	43	69032	19.440	ug/l	99
38) Carbon Tetrachloride	5.660	117	68892	19.118	ug/l	98
39) Methylcyclohexane	7.361	83	69961	18.583	ug/l	99
40) Benzene	6.019	78	194635	19.322	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047595.D
 Acq On : 16 Sep 2025 15:21
 Operator : JC/MD
 Sample : VX0916WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:49:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.898	41	37677	20.552	ug/l	98
42) 1,2-Dichloroethane	6.068	62	73955	19.296	ug/l	98
43) Isopropyl Acetate	6.324	43	115141	19.770	ug/l	99
44) Trichloroethene	7.111	130	46658	19.159	ug/l	93
45) 1,2-Dichloropropane	7.409	63	50194	19.460	ug/l	99
46) Dibromomethane	7.562	93	36296	19.337	ug/l	97
47) Bromodichloromethane	7.806	83	74541	19.245	ug/l	98
48) Methyl methacrylate	7.678	41	57732	19.901	ug/l	99
49) 1,4-Dioxane	7.647	88	12557	428.306	ug/l	93
51) 4-Methyl-2-Pentanone	8.555	43	336358	104.165	ug/l	100
52) Toluene	8.702	92	119672	19.283	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	75494	19.108	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	82533	19.544	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	46853	19.579	ug/l	97
56) Ethyl methacrylate	9.098	69	75362	20.053	ug/l	100
57) 1,3-Dichloropropane	9.293	76	82898	20.166	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	138530	84.558	ug/l	100
59) 2-Hexanone	9.415	43	236351	101.913	ug/l	100
60) Dibromochloromethane	9.507	129	54864	19.897	ug/l	100
61) 1,2-Dibromoethane	9.592	107	49468	20.295	ug/l	99
64) Tetrachloroethene	9.257	164	37604	18.285	ug/l	99
65) Chlorobenzene	10.061	112	132692	18.515	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	46156	18.663	ug/l	99
67) Ethyl Benzene	10.177	91	230715	18.657	ug/l	100
68) m/p-Xylenes	10.287	106	172349	37.445	ug/l	99
69) o-Xylene	10.622	106	83294	18.710	ug/l	100
70) Styrene	10.640	104	145298	18.627	ug/l	100
71) Bromoform	10.781	173	34496	18.680	ug/l #	99
73) Isopropylbenzene	10.945	105	215290	17.893	ug/l	100
74) N-amyl acetate	10.823	43	100764	18.365	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	66212	18.189	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	61433m	19.172	ug/l	
77) Bromobenzene	11.183	156	52810	17.821	ug/l	98
78) n-propylbenzene	11.287	91	253278	17.807	ug/l	100
79) 2-Chlorotoluene	11.348	91	157867	18.122	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	177677	17.974	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	20595	16.391	ug/l	98
82) 4-Chlorotoluene	11.439	91	184150	17.898	ug/l	100
83) tert-Butylbenzene	11.695	119	177366	17.527	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	180139	17.974	ug/l	100
85) sec-Butylbenzene	11.872	105	215249	17.908	ug/l	100
86) p-Isopropyltoluene	11.988	119	180973	17.784	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	98122	17.827	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	98890	17.505	ug/l	98
89) n-Butylbenzene	12.311	91	169374	17.988	ug/l	98
90) Hexachloroethane	12.518	117	30747	17.210	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	95137	18.142	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.921	75	13450	18.249	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	61093	17.926	ug/l	99
94) Hexachlorobutadiene	13.707	225	20350	17.579	ug/l	98
95) Naphthalene	13.756	128	184251	17.754	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	56297	17.758	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047595.D
Acq On : 16 Sep 2025 15:21
Operator : JC/MD
Sample : VX0916WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:49:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

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

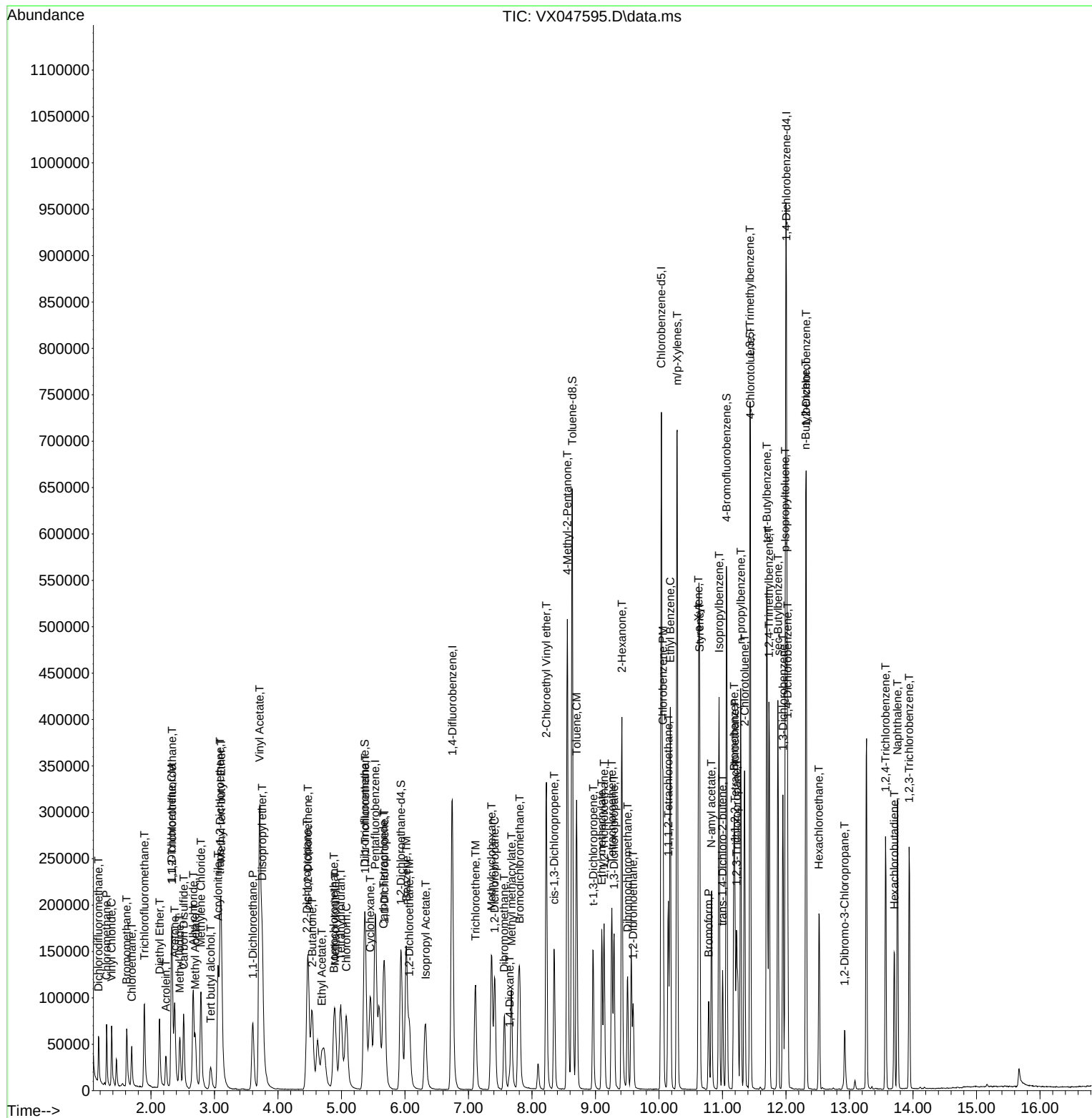
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047595.D
 Acq On : 16 Sep 2025 15:21
 Operator : JC/MD
 Sample : VX0916WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

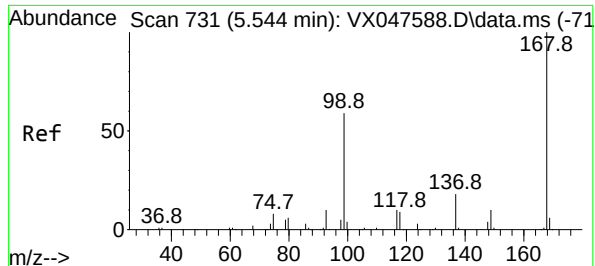
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:49:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration





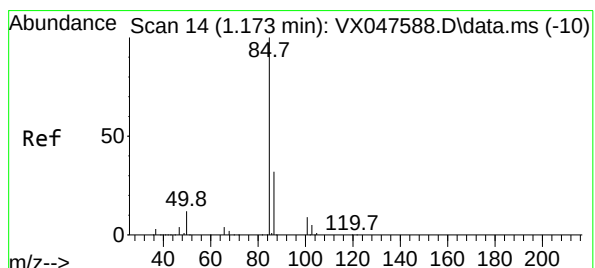
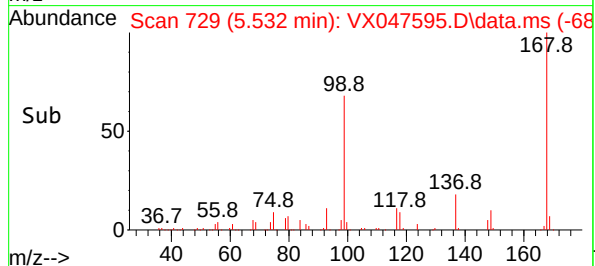
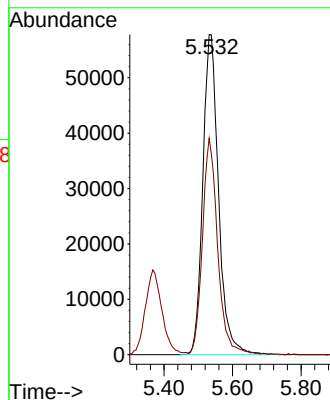
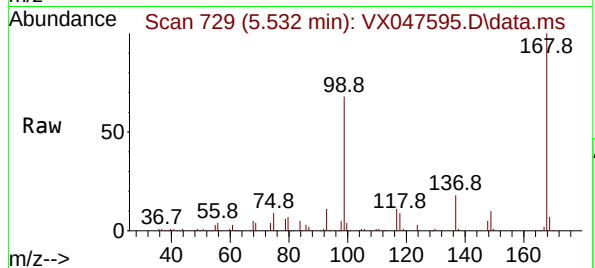
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Tgt Ion:168 Resp: 18471
Ion Ratio Lower Upper
168 100
99 67.5 48.8 73.2

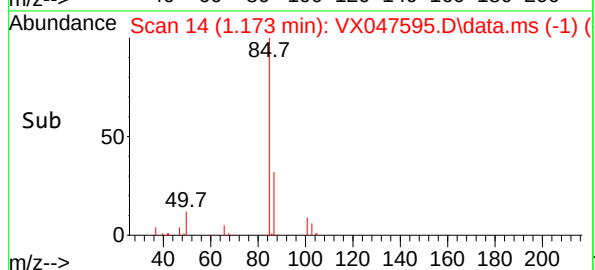
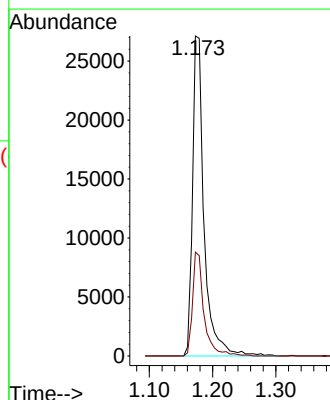
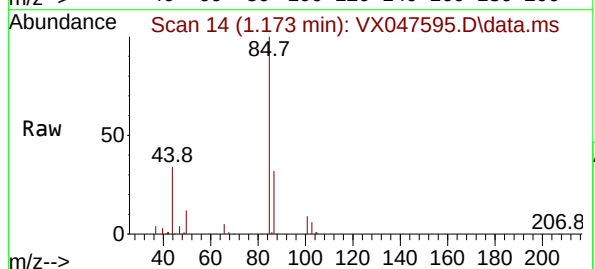
Manual Integrations
APPROVED

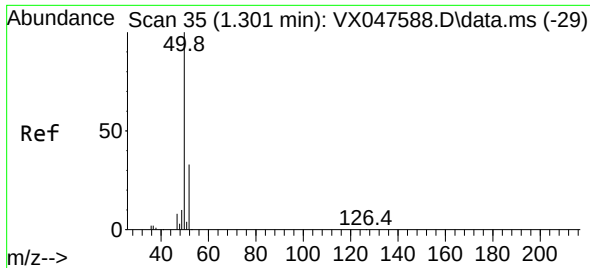
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 18.016 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

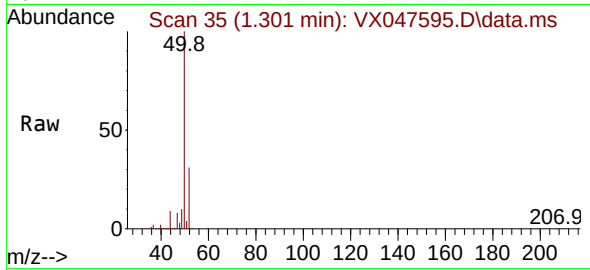
Tgt Ion: 85 Resp: 34459
Ion Ratio Lower Upper
85 100
87 32.5 15.8 47.3





#3
Chloromethane
Concen: 18.256 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

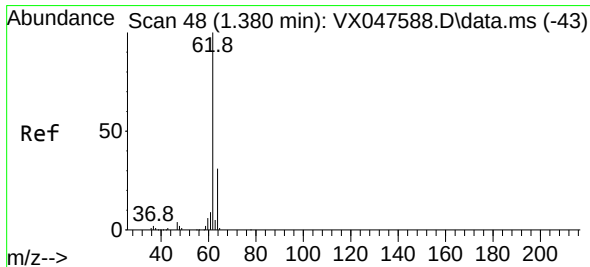
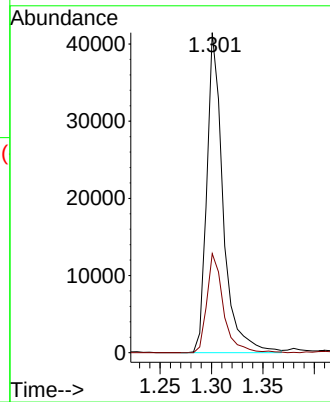
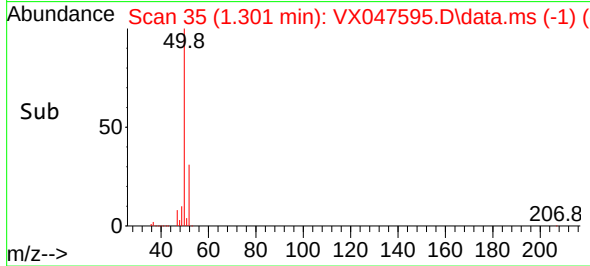
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 50 Resp: 45892
Ion Ratio Lower Upper
50 100
52 31.0 26.1 39.1

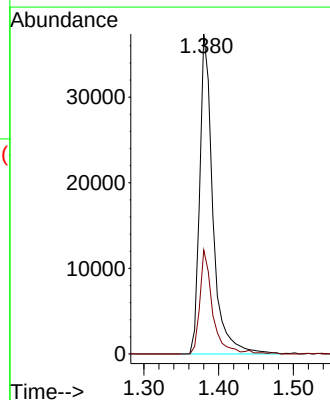
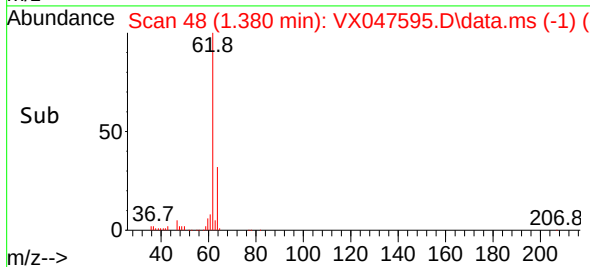
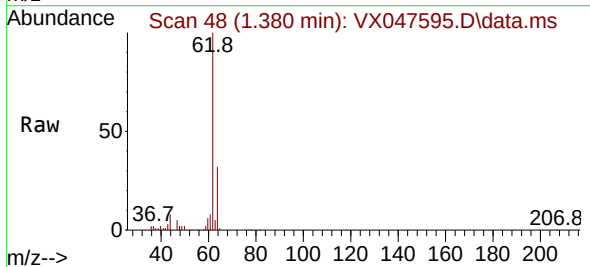
Manual Integrations
APPROVED

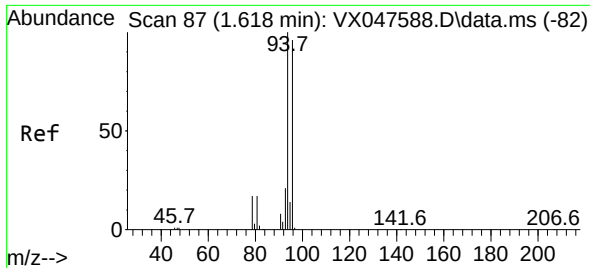
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 18.573 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

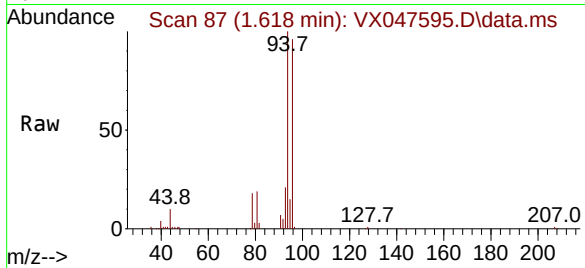
Tgt Ion: 62 Resp: 45703
Ion Ratio Lower Upper
62 100
64 32.5 24.9 37.3





#5
Bromomethane
Concen: 20.556 ug/l
RT: 1.618 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

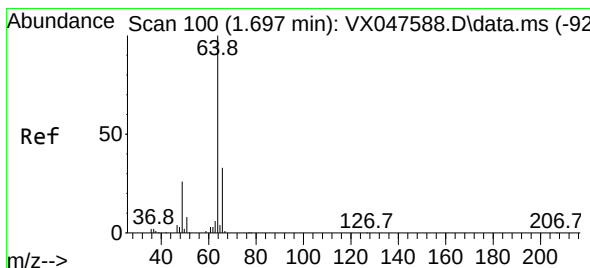
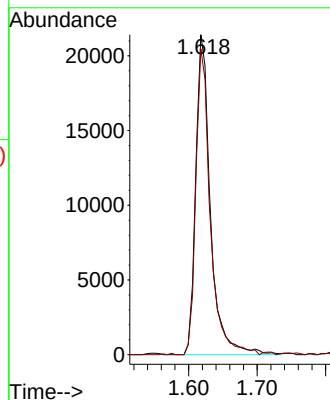
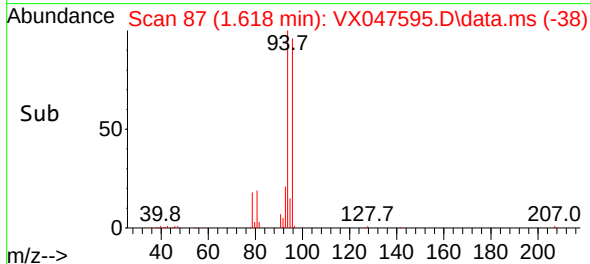
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 94 Resp: 3207
Ion Ratio Lower Upper
94 100
96 96.7 76.6 115.0

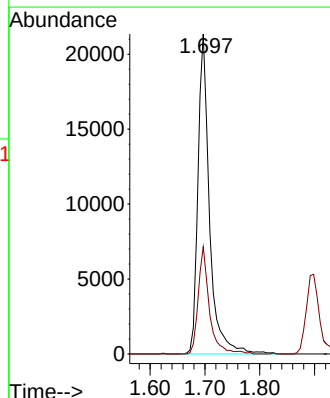
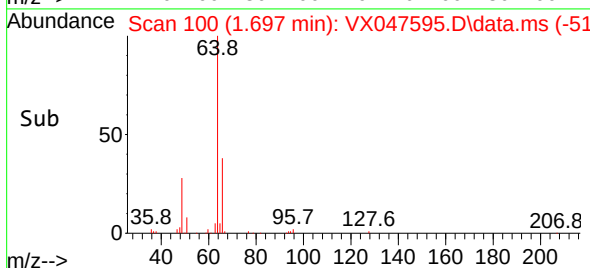
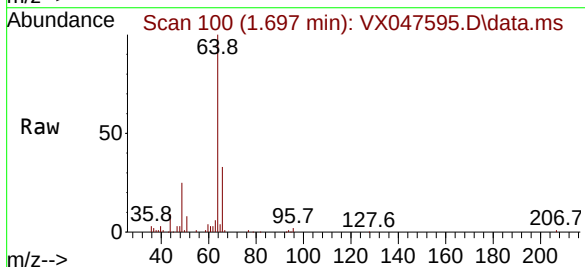
Manual Integrations
APPROVED

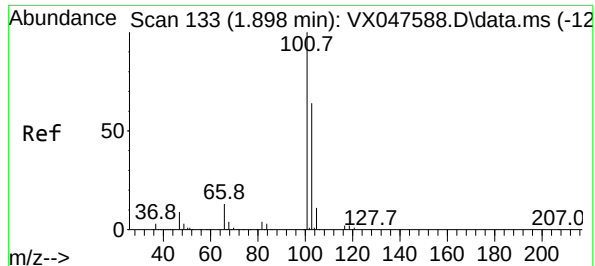
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 19.066 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

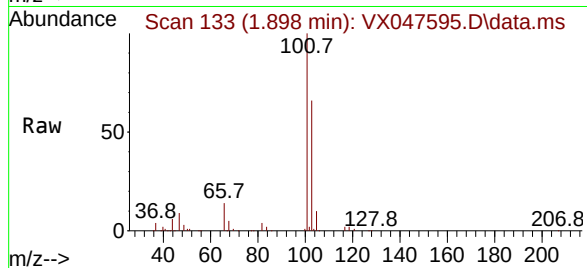
Tgt Ion: 64 Resp: 31358
Ion Ratio Lower Upper
64 100
66 33.5 26.1 39.1





#7
Trichlorofluoromethane
Concen: 18.767 ug/l
RT: 1.898 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

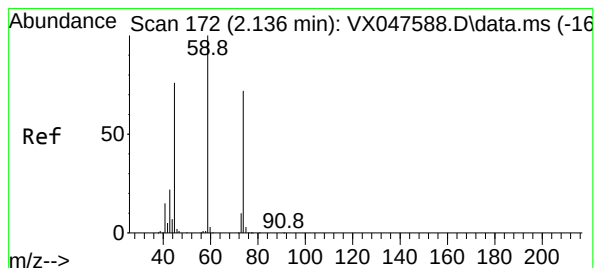
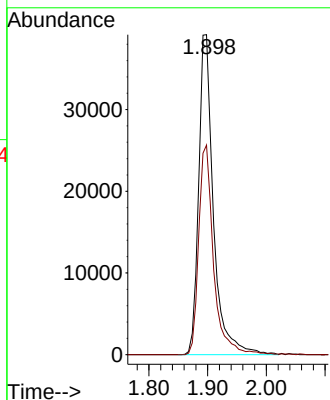
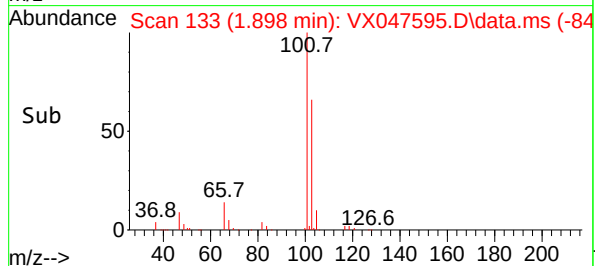
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion:101 Resp: 6856
Ion Ratio Lower Upper
101 100
103 65.5 51.4 77.2

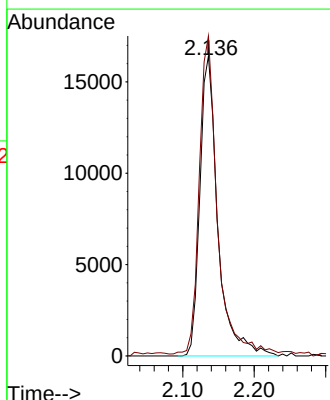
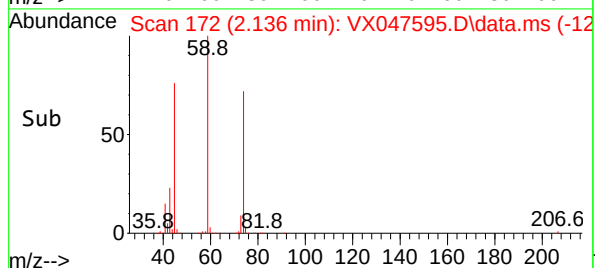
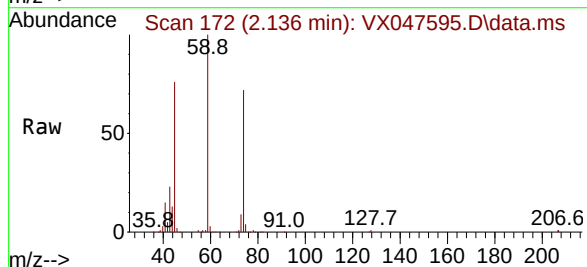
Manual Integrations
APPROVED

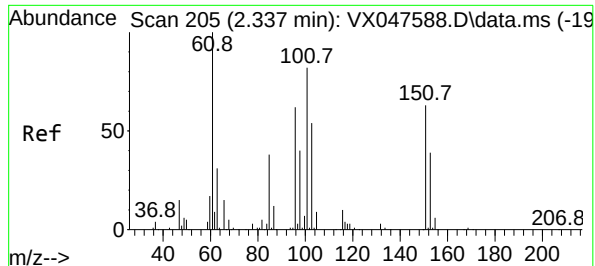
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 19.195 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 74 Resp: 28689
Ion Ratio Lower Upper
74 100
45 105.7 52.3 156.8





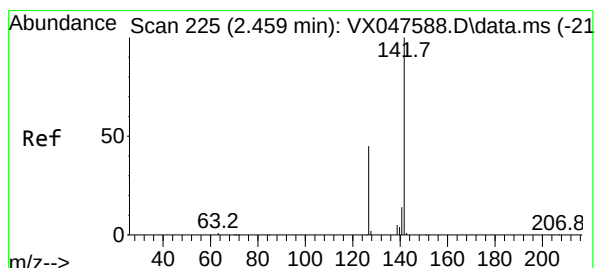
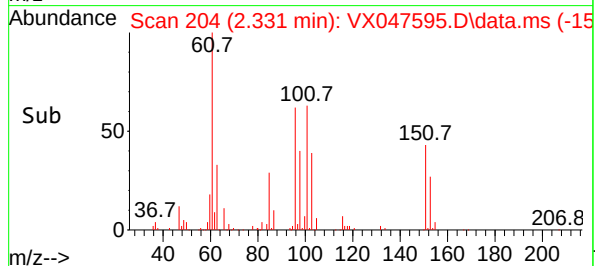
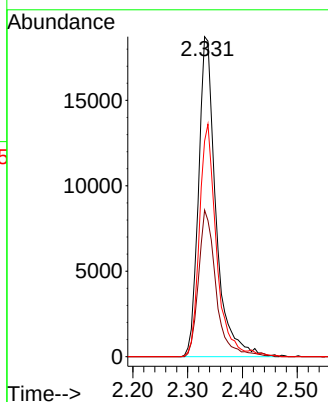
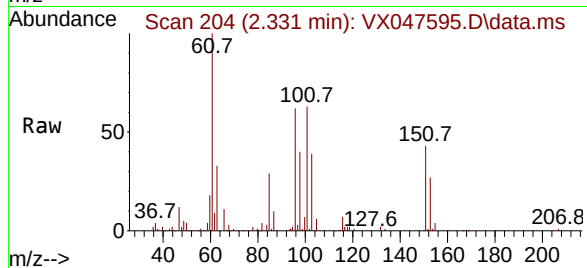
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.333 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Tgt Ion:101 Resp: 41304
Ion Ratio Lower Upper
101 100
85 46.1 35.5 53.3
151 72.0 59.4 89.0

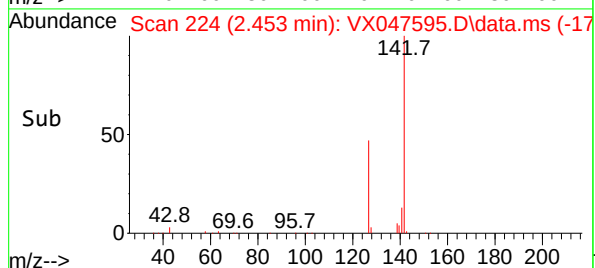
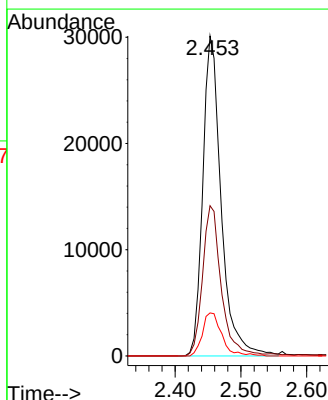
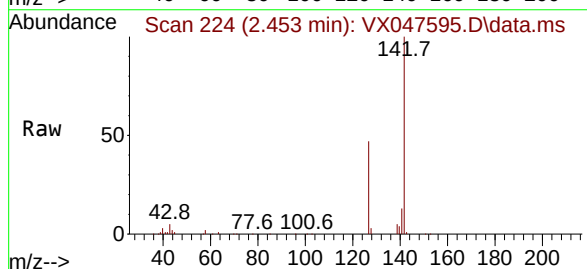
Manual Integrations
APPROVED

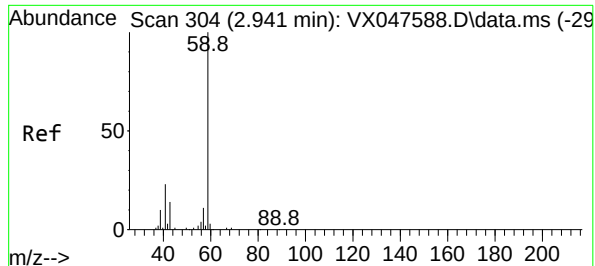
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#10
Methyl Iodide
Concen: 17.587 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:142 Resp: 58598
Ion Ratio Lower Upper
142 100
127 47.5 37.2 55.8
141 14.2 11.4 17.0





#11

Tert butyl alcohol

Concen: 101.438 ug/l

RT: 2.941 min Scan# 304

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 59 Resp: 33210

Ion Ratio Lower Upper

59 100

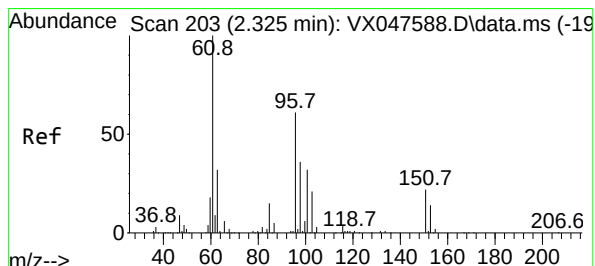
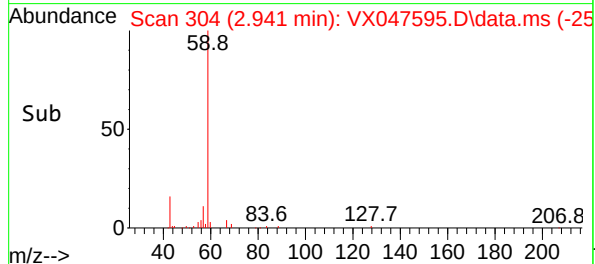
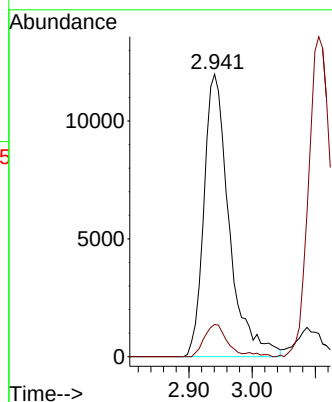
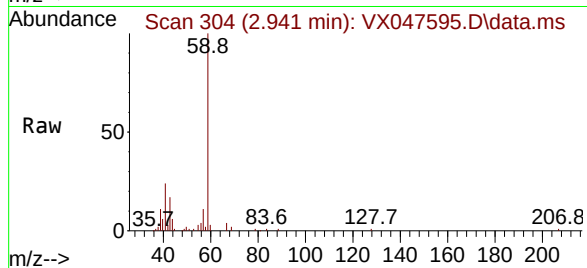
57 10.1 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 18.775 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

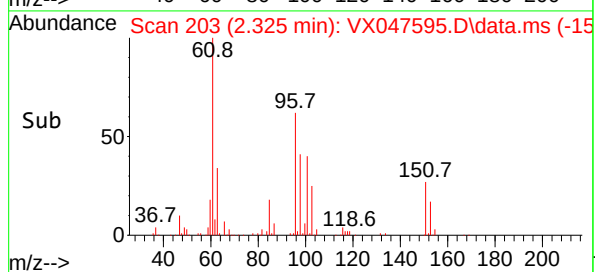
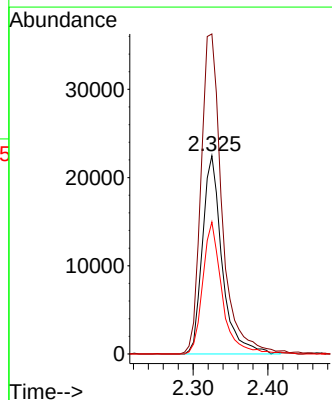
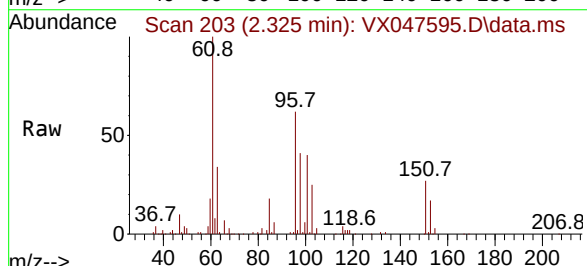
Tgt Ion: 96 Resp: 41202

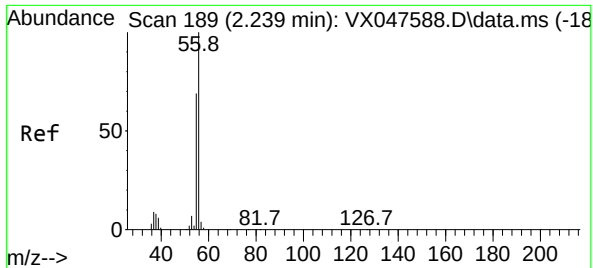
Ion Ratio Lower Upper

96 100

61 155.3 131.0 196.6

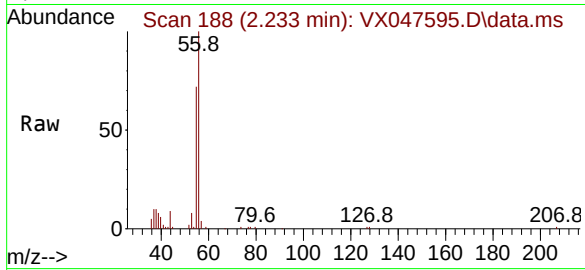
98 64.1 47.7 71.5





#13
Acrolein
Concen: 94.428 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

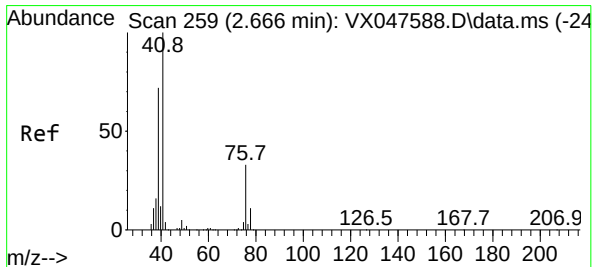
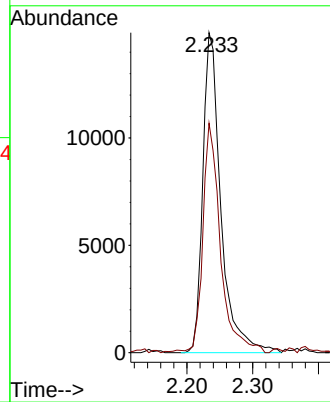
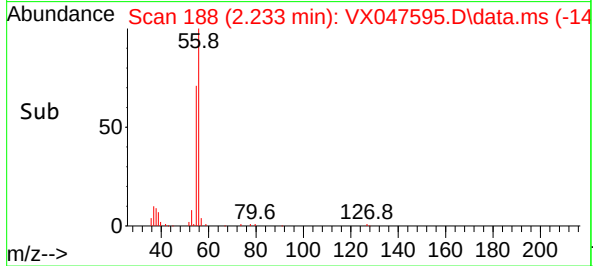
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 56 Resp: 28494
Ion Ratio Lower Upper
56 100
55 70.1 57.2 85.8

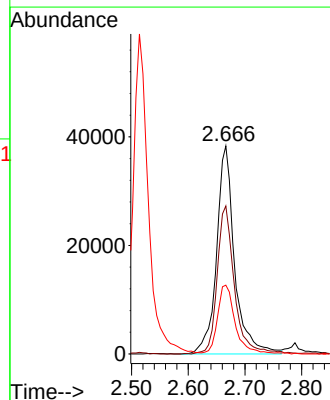
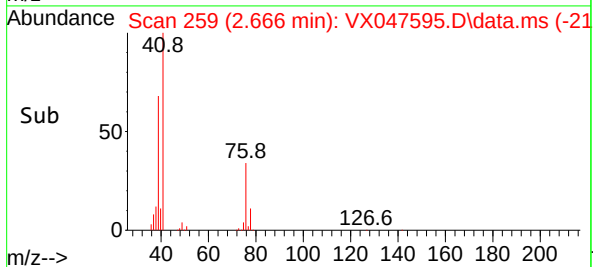
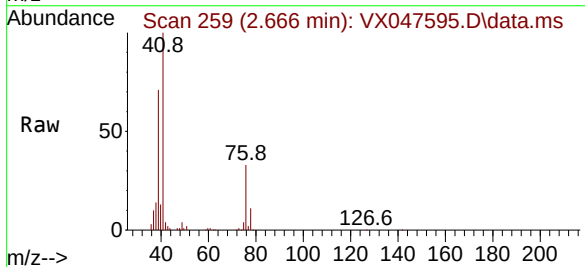
Manual Integrations
APPROVED

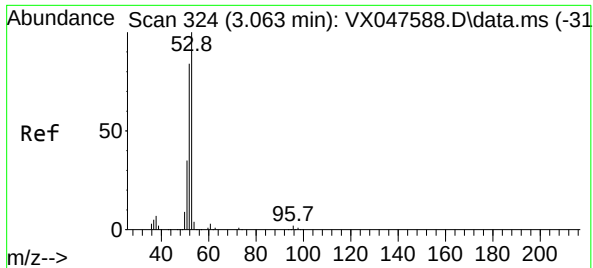
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#14
Allyl chloride
Concen: 18.738 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

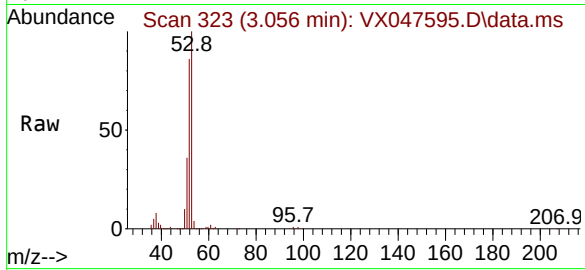
Tgt Ion: 41 Resp: 84854
Ion Ratio Lower Upper
41 100
39 68.2 54.7 82.1
76 32.5 25.7 38.5





#15
Acrylonitrile
Concen: 104.688 ug/l
RT: 3.056 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

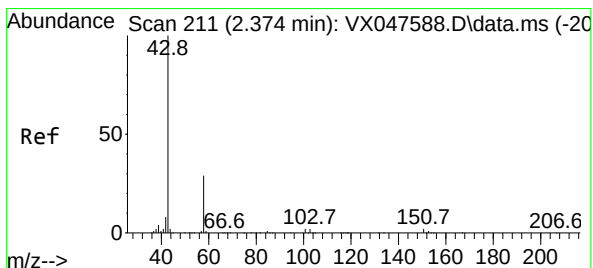
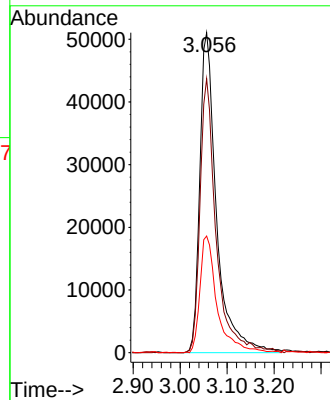
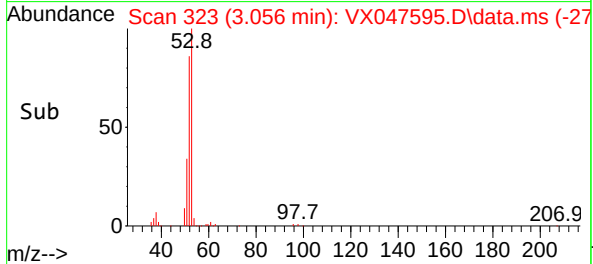
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 53 Resp: 126970
Ion Ratio Lower Upper
53 100
52 82.3 66.4 99.6
51 37.4 29.5 44.3

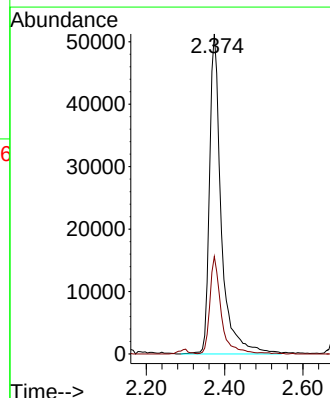
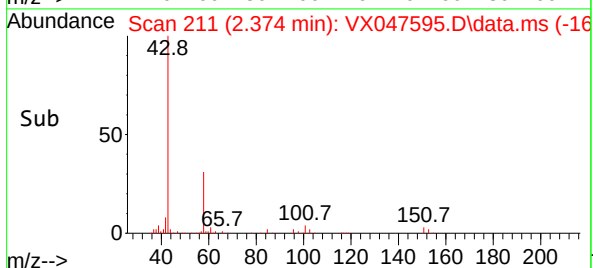
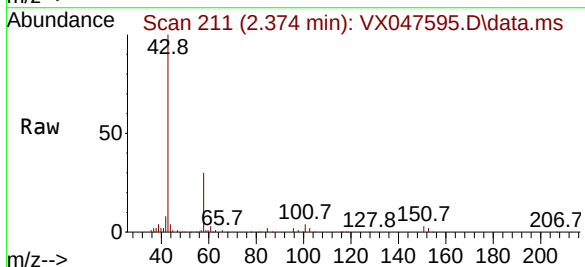
Manual Integrations
APPROVED

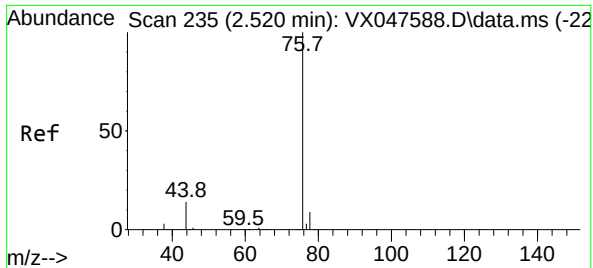
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#16
Acetone
Concen: 83.700 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

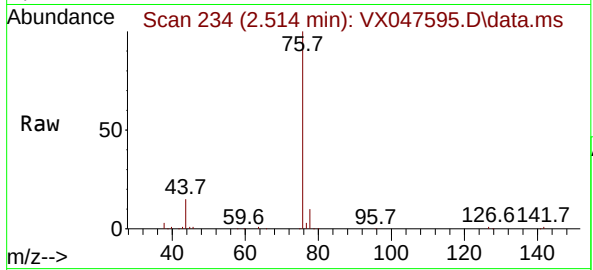
Tgt Ion: 43 Resp: 107000
Ion Ratio Lower Upper
43 100
58 30.4 23.4 35.0





#17
Carbon Disulfide
Concen: 18.062 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

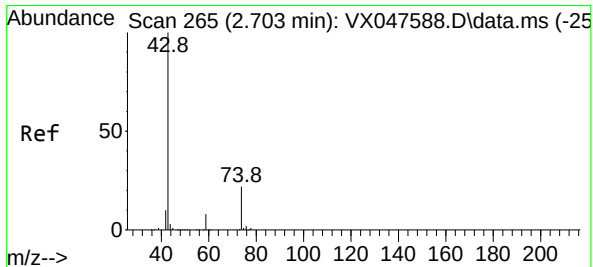
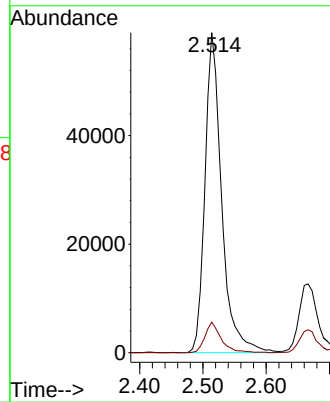
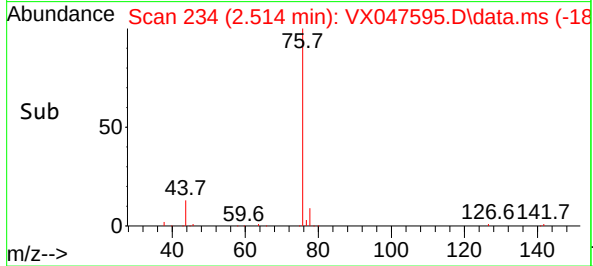
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 76 Resp: 10851
Ion Ratio Lower Upper
76 100
78 9.5 6.8 10.2

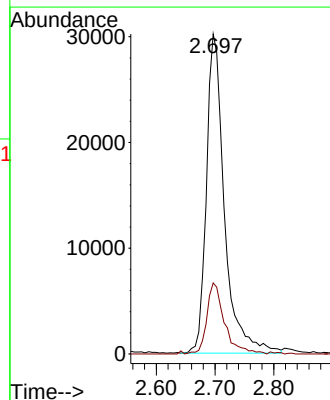
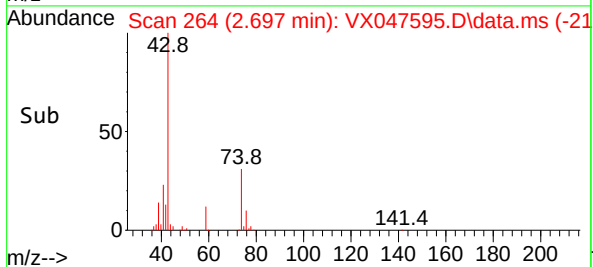
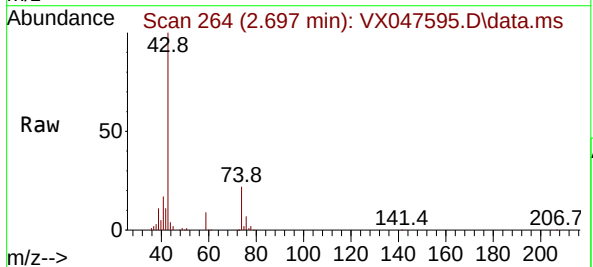
Manual Integrations
APPROVED

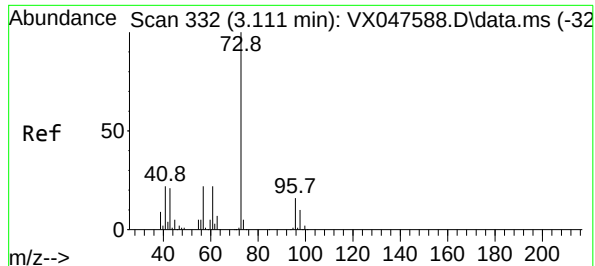
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#18
Methyl Acetate
Concen: 22.635 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 64398
Ion Ratio Lower Upper
43 100
74 21.8 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 20.461 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 73 Resp: 163910

Ion Ratio Lower Upper

73 100

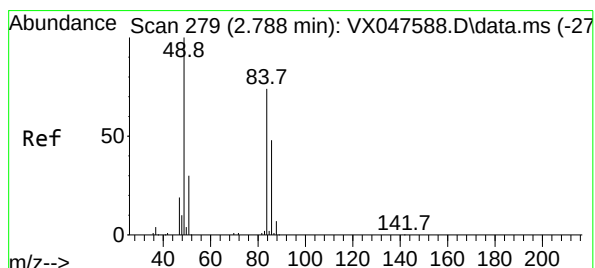
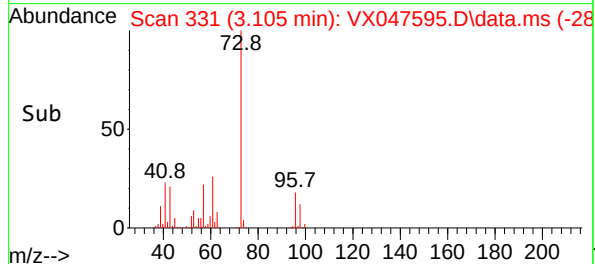
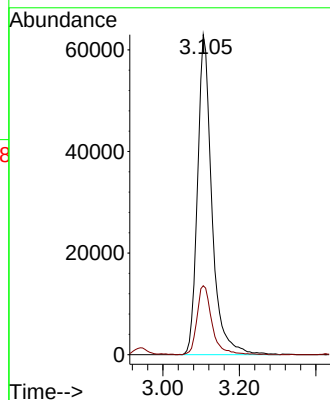
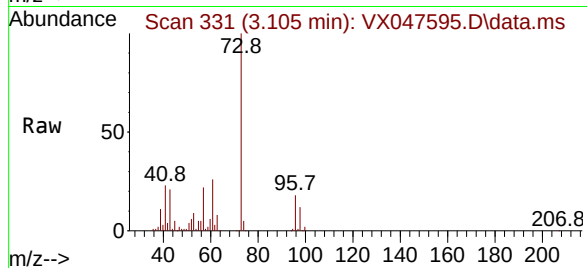
57 21.6 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 19.096 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Tgt Ion: 84 Resp: 51674

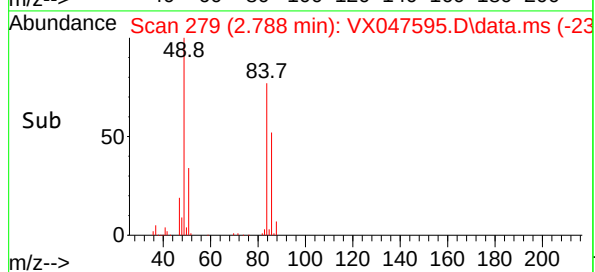
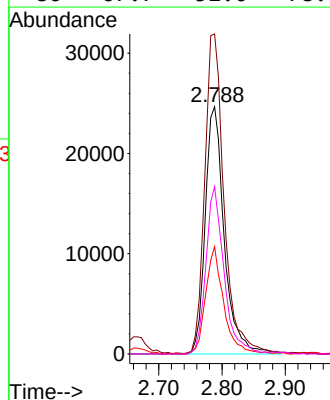
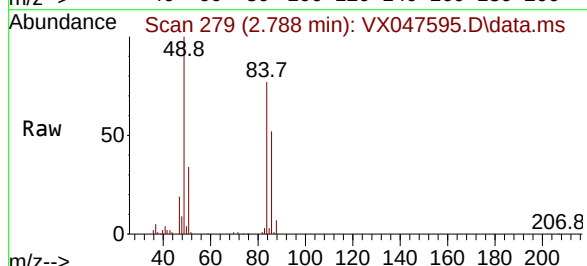
Ion Ratio Lower Upper

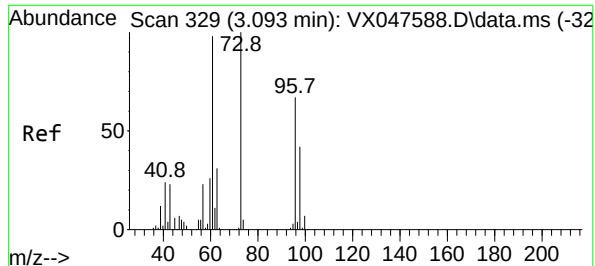
84 100

49 129.2 108.6 162.8

51 43.4 32.6 48.8

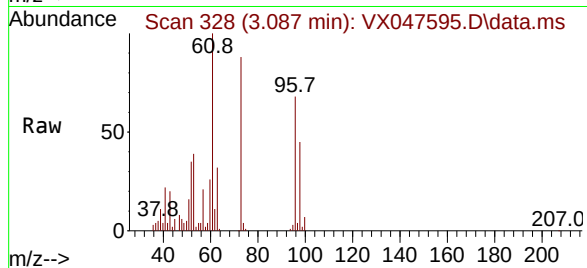
86 67.7 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 19.637 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

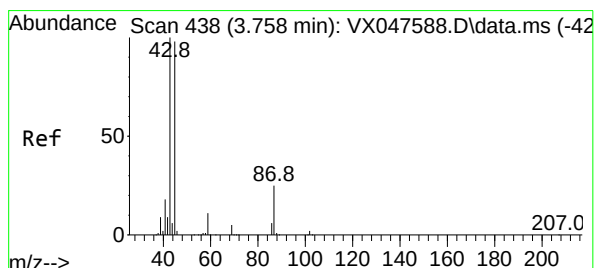
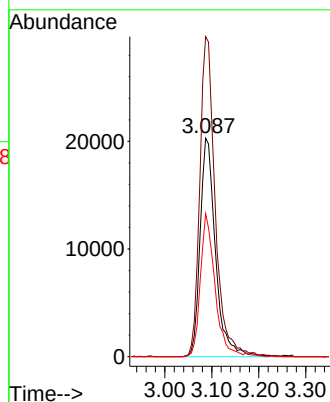
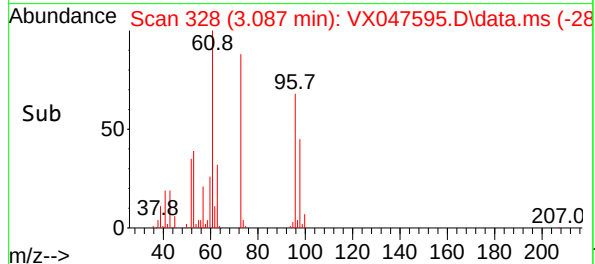
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 96 Resp: 46390
Ion Ratio Lower Upper
96 100
61 146.4 116.2 174.2
98 65.4 49.3 73.9

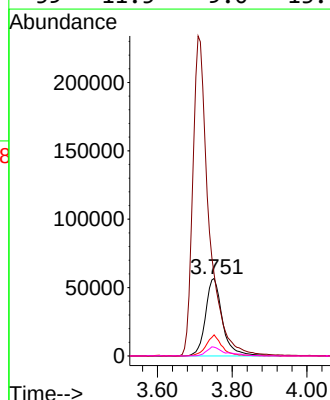
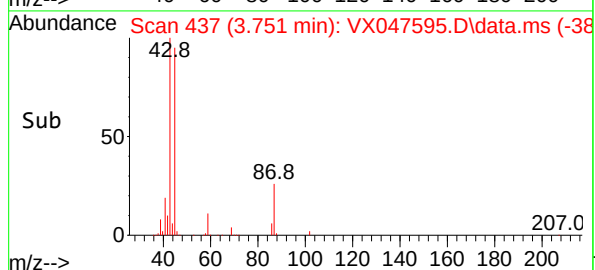
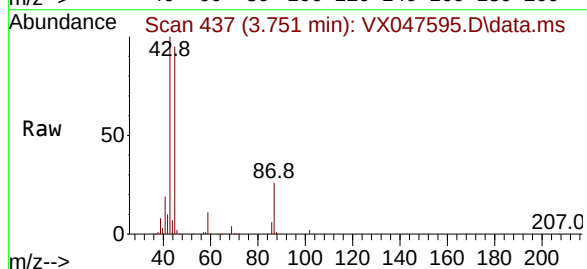
Manual Integrations
APPROVED

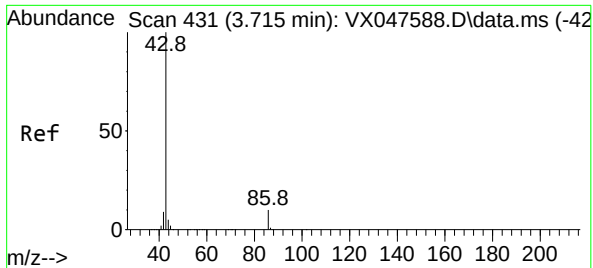
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 20.307 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

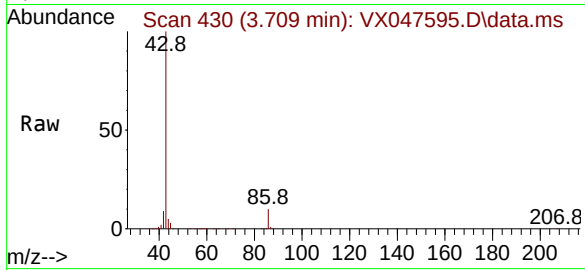
Tgt Ion: 45 Resp: 178221
Ion Ratio Lower Upper
45 100
43 105.2 81.0 121.4
87 27.2 20.3 30.5
59 11.5 9.0 13.4





#23
Vinyl Acetate
Concen: 100.074 ug/l
RT: 3.709 min Scan# 413
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

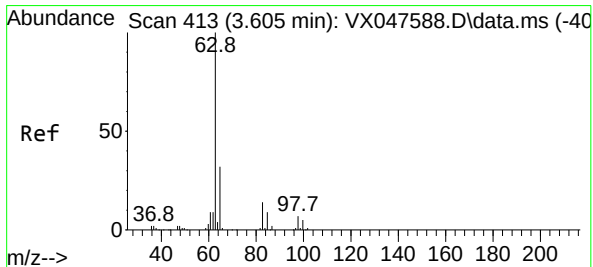
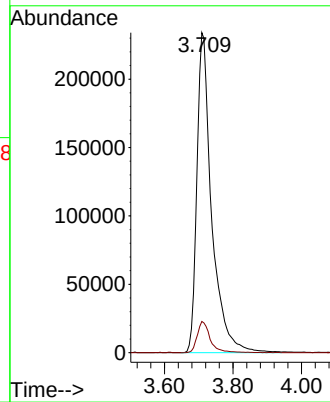
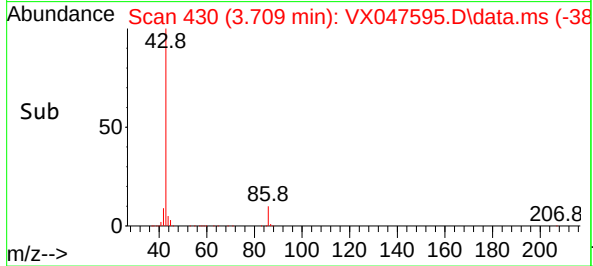
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 43 Resp: 702940
Ion Ratio Lower Upper
43 100
86 9.7 7.8 11.8

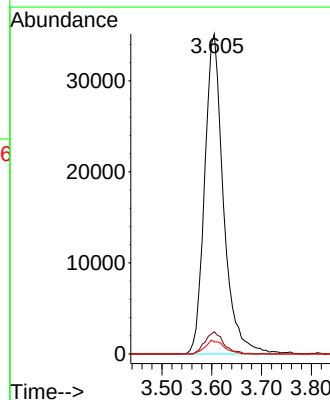
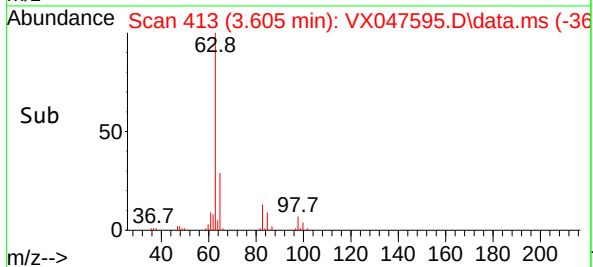
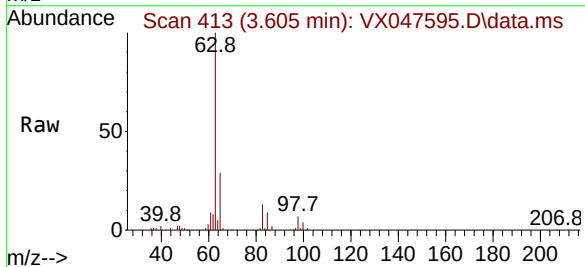
Manual Integrations
APPROVED

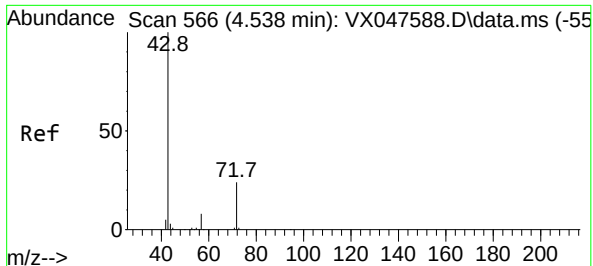
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#24
1,1-Dichloroethane
Concen: 19.764 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 63 Resp: 92195
Ion Ratio Lower Upper
63 100
98 7.5 3.8 11.2
100 3.8 2.3 6.9





#25

2-Butanone

Concen: 100.998 ug/l

RT: 4.538 min Scan# 5

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 43 Resp: 16105

Ion Ratio Lower Upper

43 100

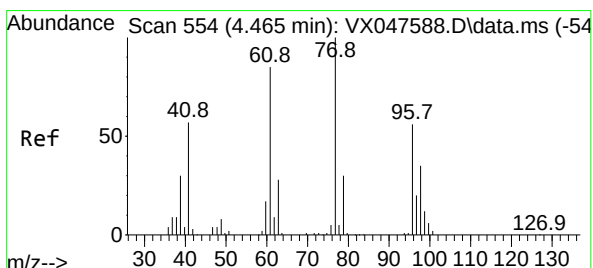
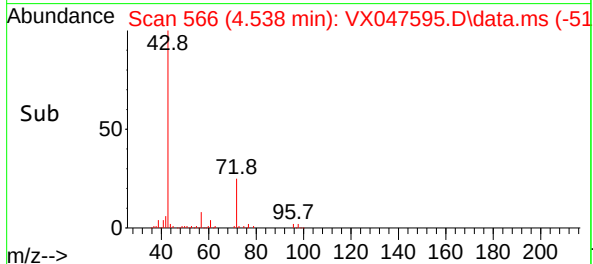
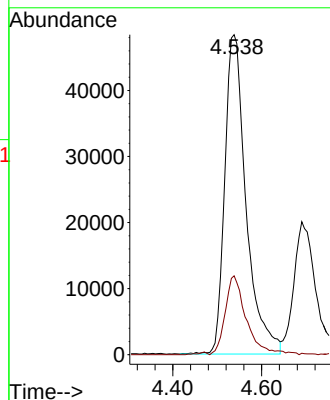
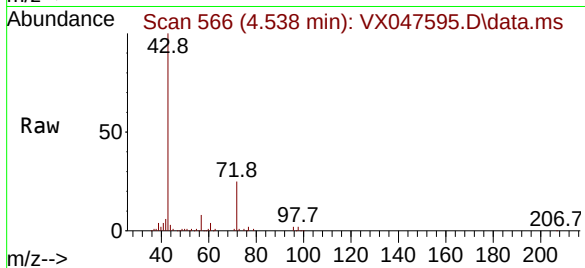
72 24.9 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 18.145 ug/l

RT: 4.459 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX047595.D

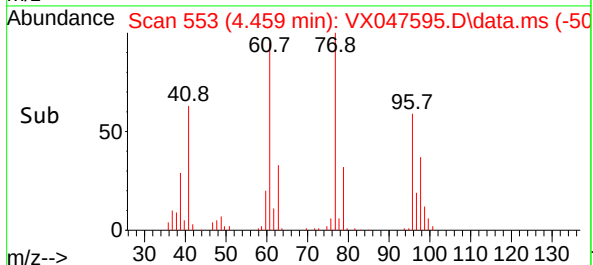
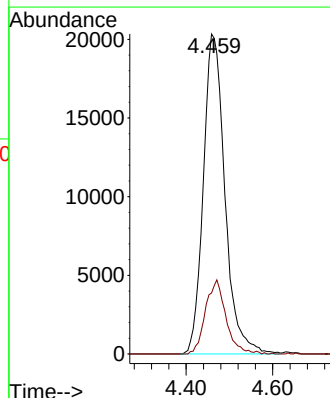
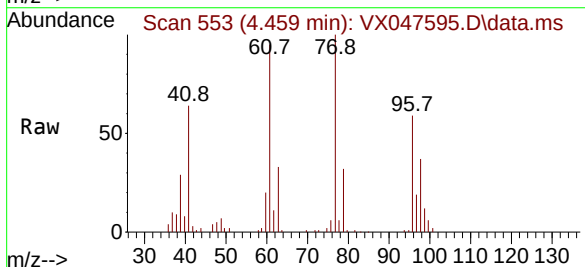
Acq: 16 Sep 2025 15:21

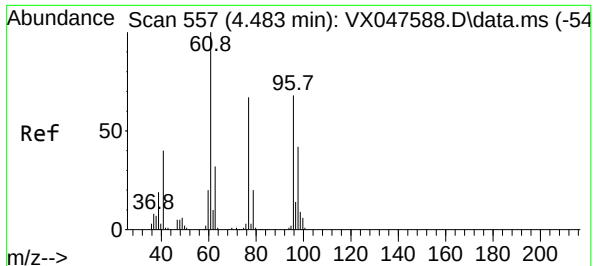
Tgt Ion: 77 Resp: 70359

Ion Ratio Lower Upper

77 100

97 22.0 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 19.884 ug/l

RT: 4.471 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 96 Resp: 57530

Ion Ratio Lower Upper

96 100

61 151.1 0.0 303.2

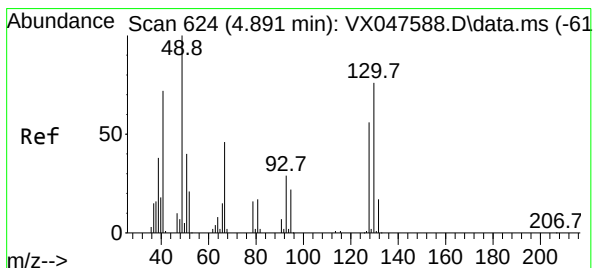
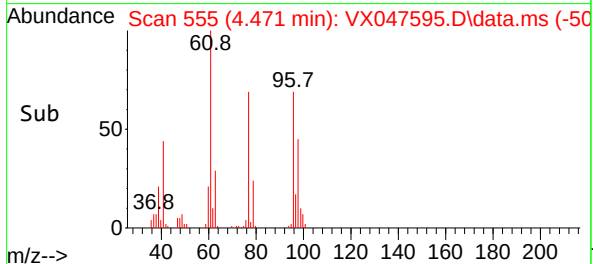
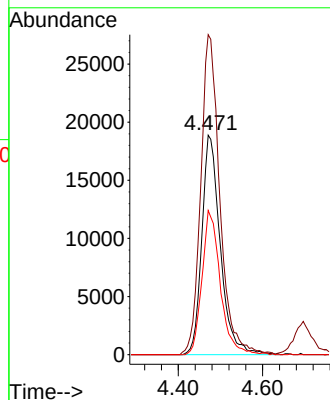
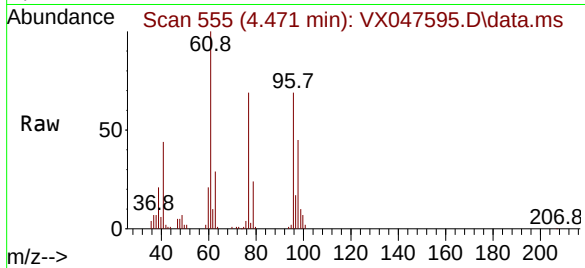
98 64.9 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 20.400 ug/l

RT: 4.879 min Scan# 622

Delta R.T. -0.012 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

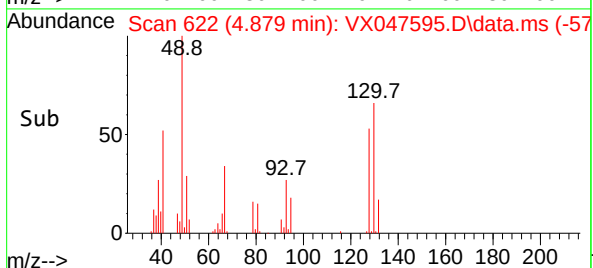
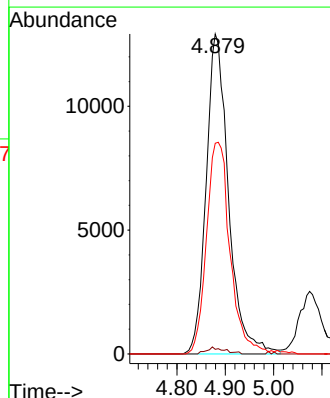
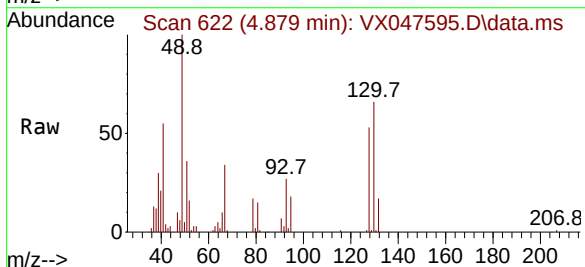
Tgt Ion: 49 Resp: 41545

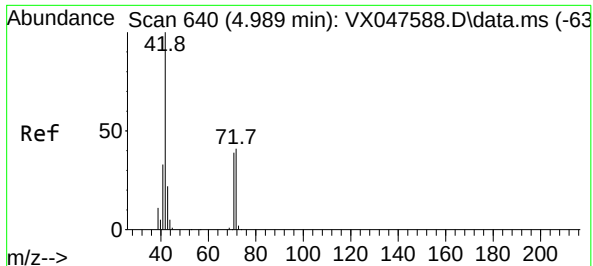
Ion Ratio Lower Upper

49 100

129 1.7 0.0 3.2

130 69.6 57.8 86.8





#29

Tetrahydrofuran

Concen: 103.635 ug/l

RT: 4.989 min Scan# 640

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

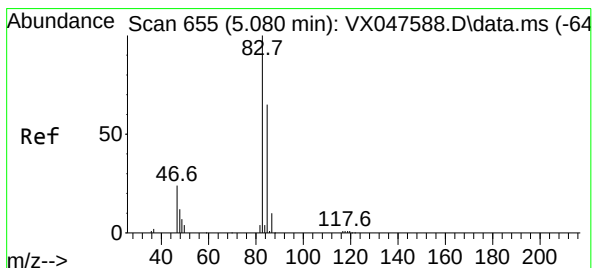
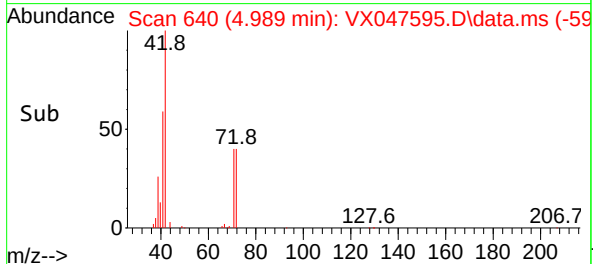
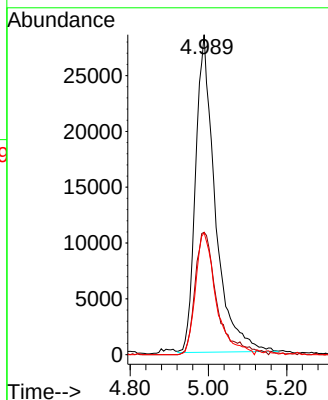
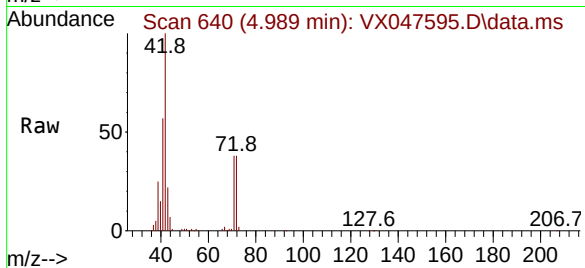
VX0916WBS01

Tgt Ion:	42	Resp:	9941
Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.2	51.2
71	40.1	31.9	47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 20.325 ug/l

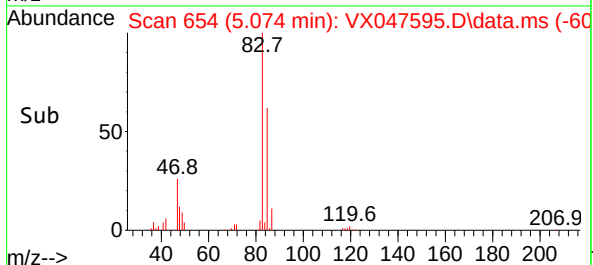
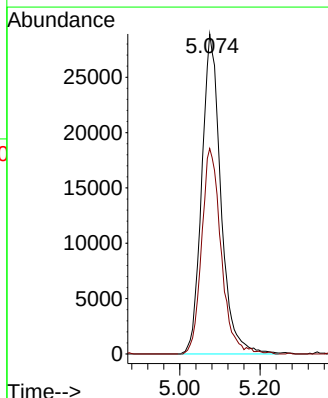
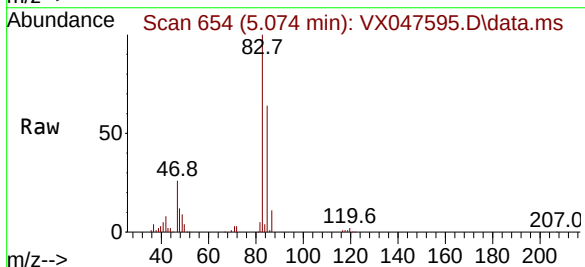
RT: 5.074 min Scan# 654

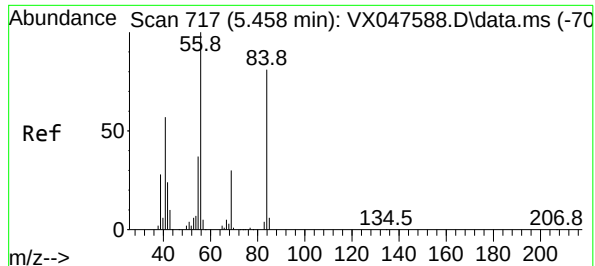
Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Tgt Ion:	83	Resp:	95809
Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.6





#31

Cyclohexane

Concen: 19.710 ug/l

RT: 5.452 min Scan# 716

Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 56 Resp: 76578

Ion Ratio Lower Upper

56 100

69 30.3 23.8 35.8

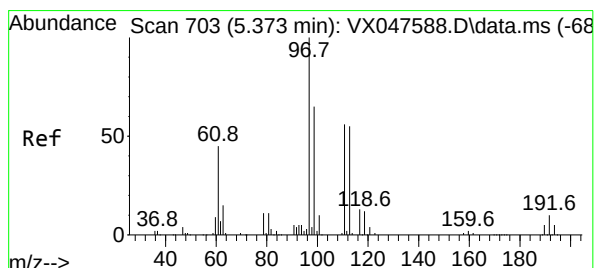
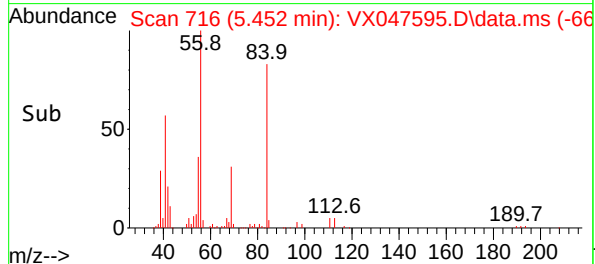
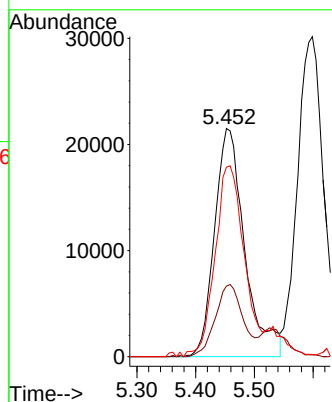
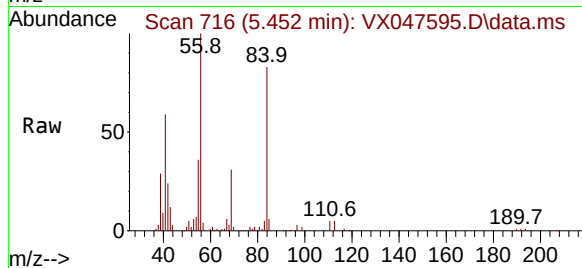
84 81.0 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#32

1,1,1-Trichloroethane

Concen: 20.163 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

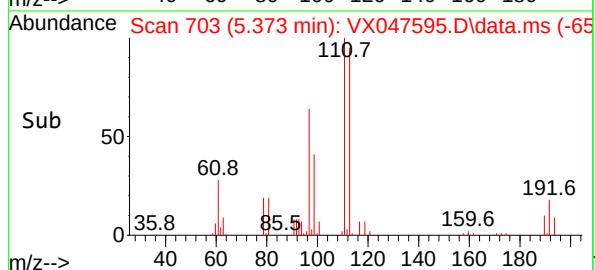
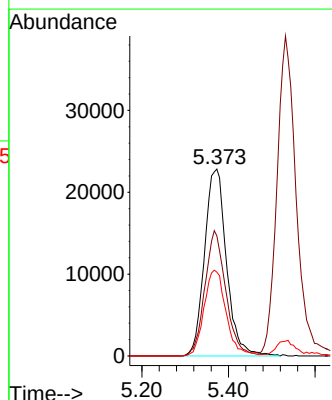
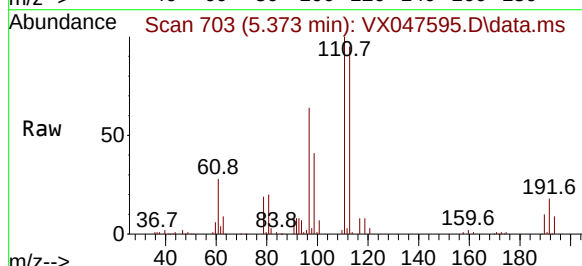
Tgt Ion: 97 Resp: 80619

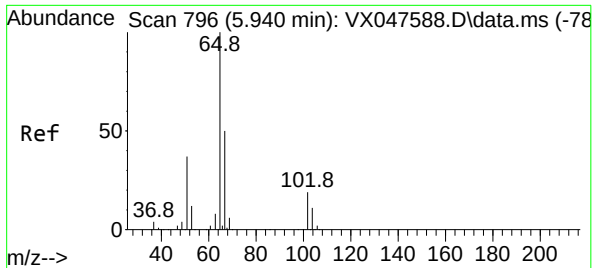
Ion Ratio Lower Upper

97 100

99 63.7 50.6 76.0

61 45.7 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 55.672 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 65 Resp: 16368

Ion Ratio Lower Upper

65 100

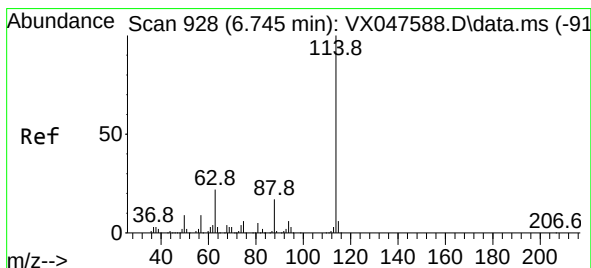
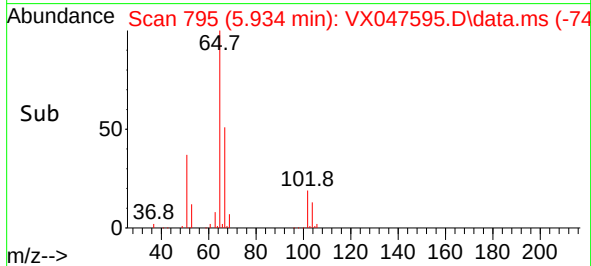
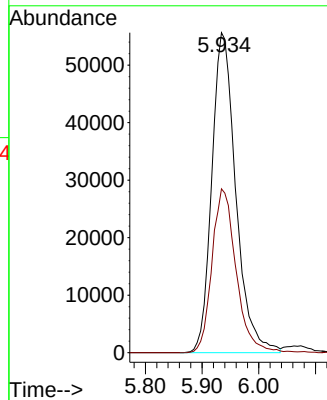
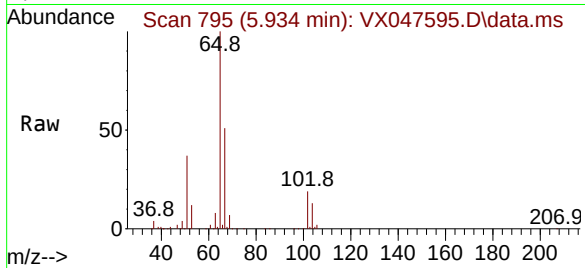
67 51.4 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

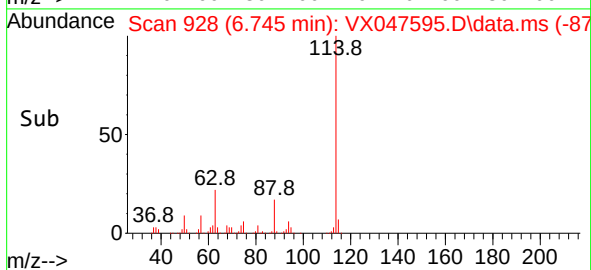
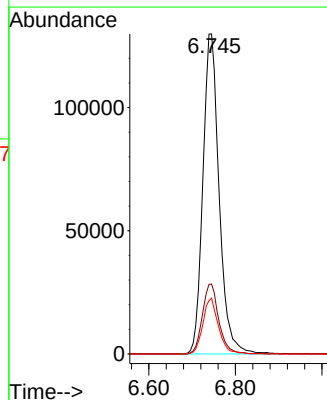
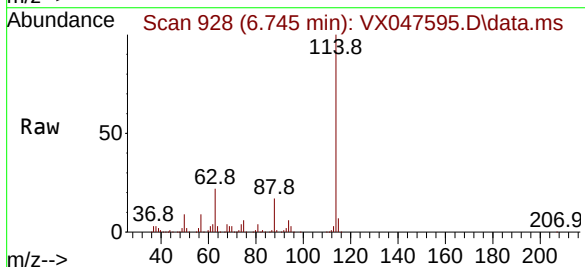
Tgt Ion:114 Resp: 338431

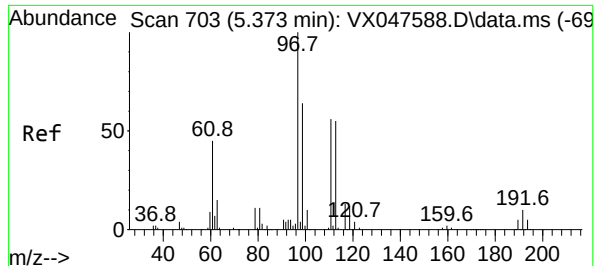
Ion Ratio Lower Upper

114 100

63 21.9 0.0 44.0

88 17.4 0.0 34.2





#35

Dibromofluoromethane

Concen: 52.038 ug/l

RT: 5.367 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion:113 Resp: 11811

Ion Ratio Lower Upper

113 100

111 102.0 80.9 121.3

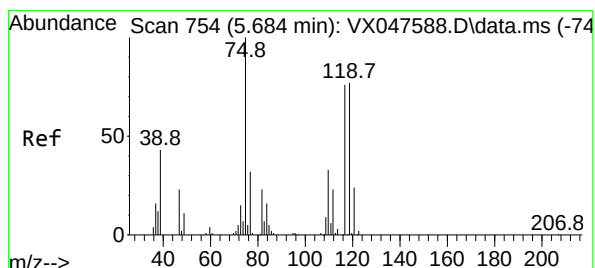
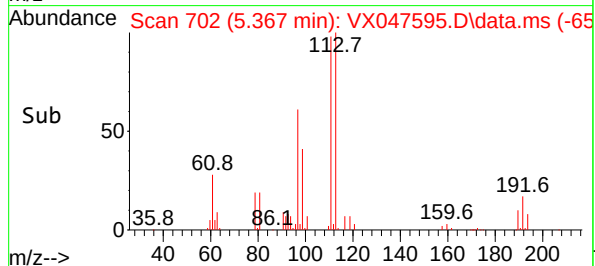
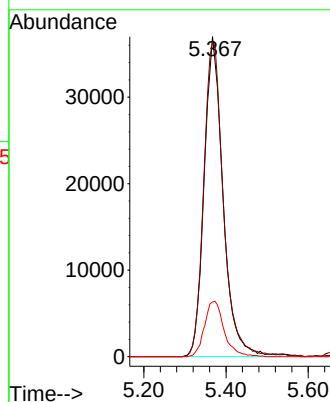
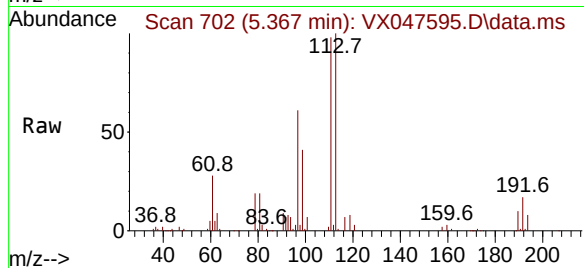
192 18.1 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 18.240 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

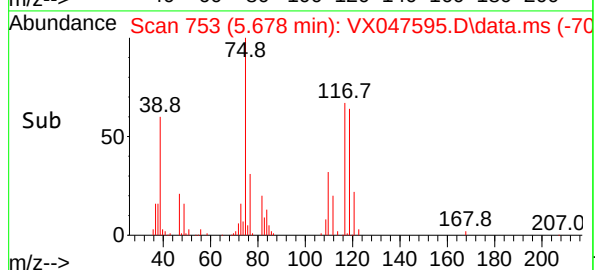
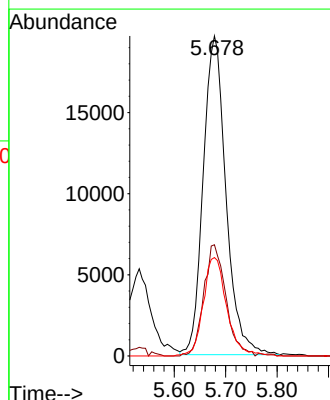
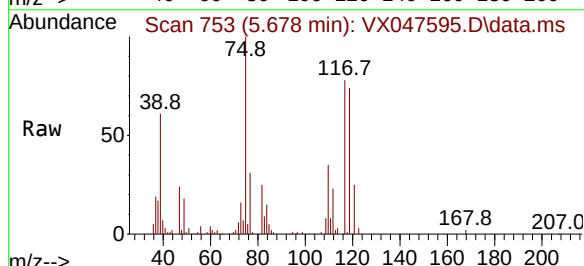
Tgt Ion: 75 Resp: 60495

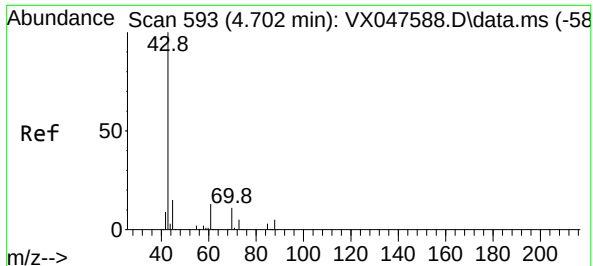
Ion Ratio Lower Upper

75 100

110 33.8 16.7 50.1

77 31.8 24.3 36.5





#37

Ethyl Acetate

Concen: 19.440 ug/l

RT: 4.690 min Scan# 593

Delta R.T. -0.012 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

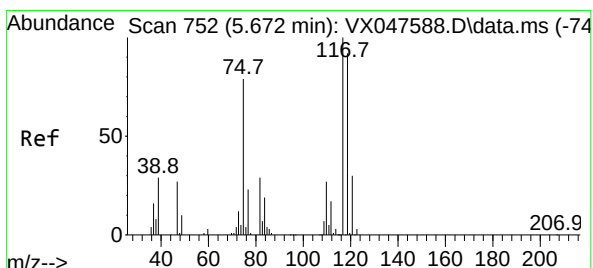
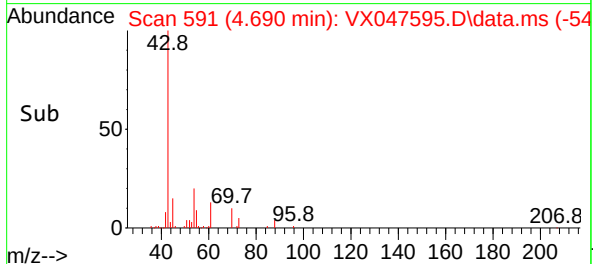
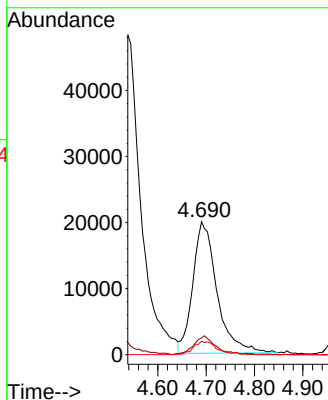
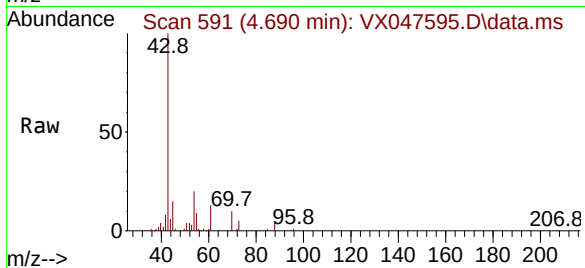
VX0916WBS01

Tgt Ion:	43	Resp:	6903
Ion Ratio	Lower	Upper	
43	100		
61	12.9	9.8	14.8
70	9.3	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 19.118 ug/l

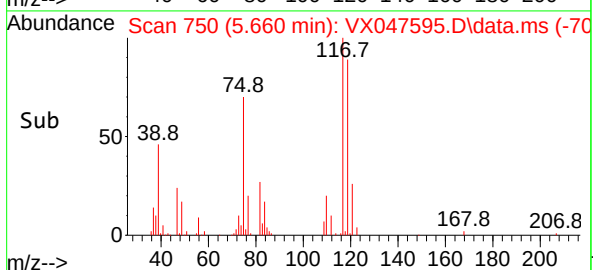
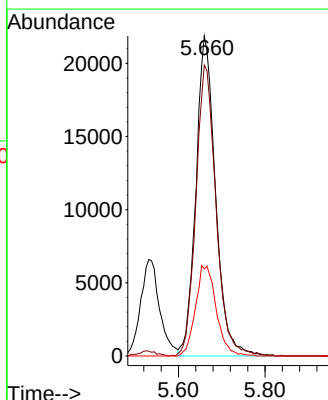
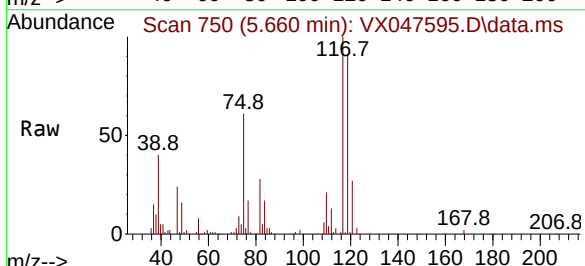
RT: 5.660 min Scan# 750

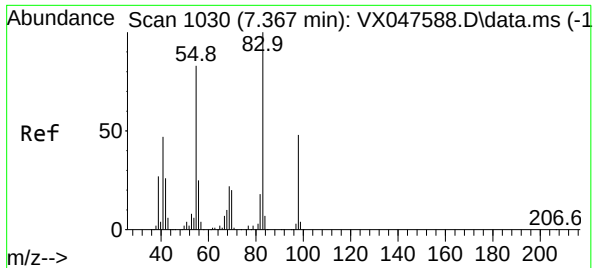
Delta R.T. -0.012 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Tgt Ion:	117	Resp:	68892
Ion Ratio	Lower	Upper	
117	100		
119	90.9	73.4	110.2
121	27.2	23.8	35.6





#39

Methylcyclohexane

Concen: 18.583 ug/l

RT: 7.361 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 83 Resp: 6996

Ion Ratio Lower Upper

83 100

55 82.5 66.4 99.6

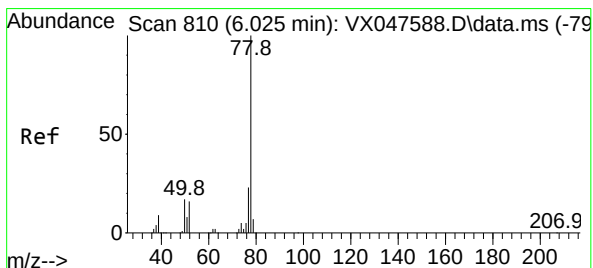
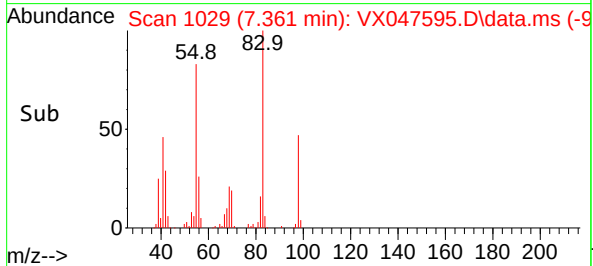
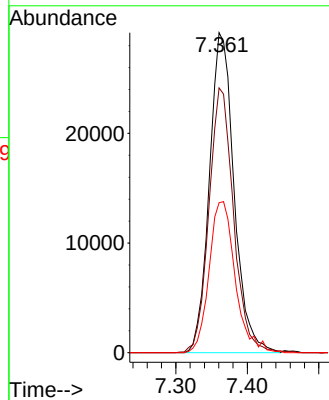
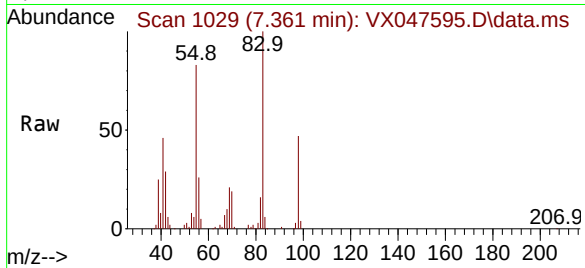
98 46.8 38.1 57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 19.322 ug/l

RT: 6.019 min Scan# 809

Delta R.T. -0.006 min

Lab File: VX047595.D

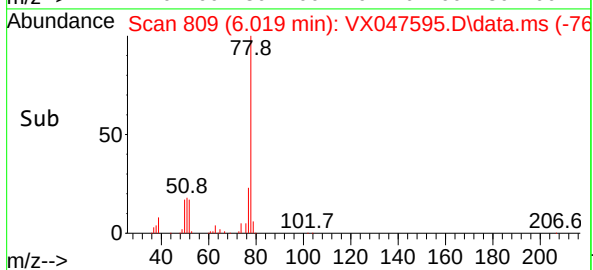
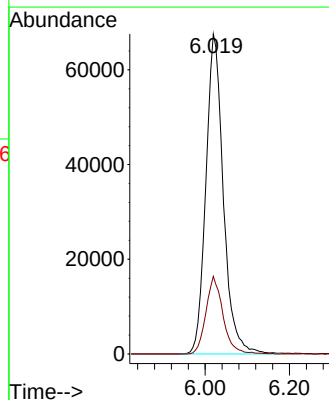
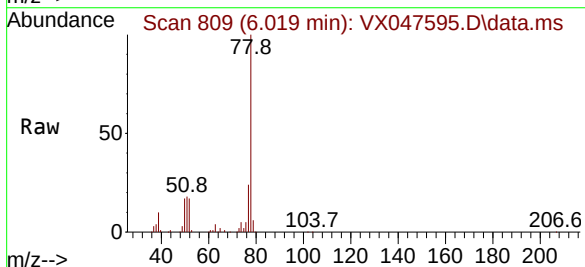
Acq: 16 Sep 2025 15:21

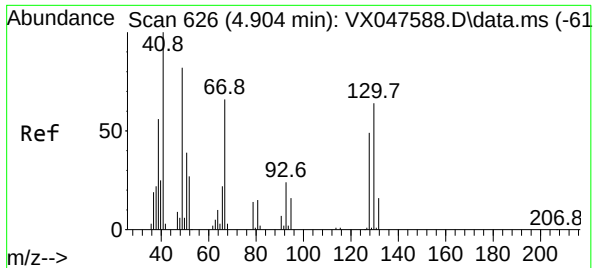
Tgt Ion: 78 Resp: 194635

Ion Ratio Lower Upper

78 100

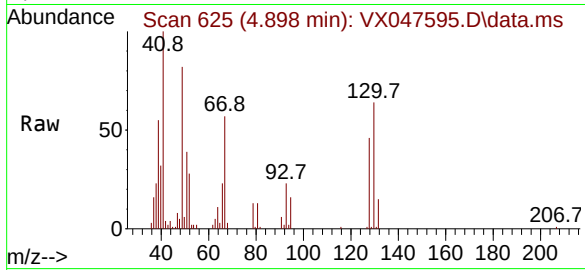
77 24.3 18.8 28.2





#41
Methacrylonitrile
Concen: 20.552 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

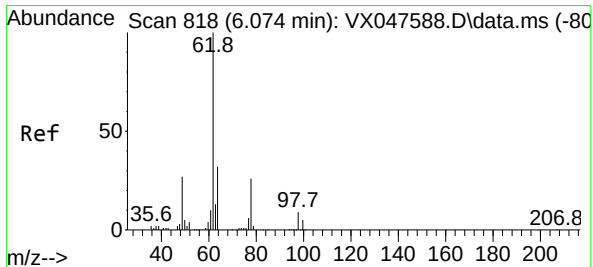
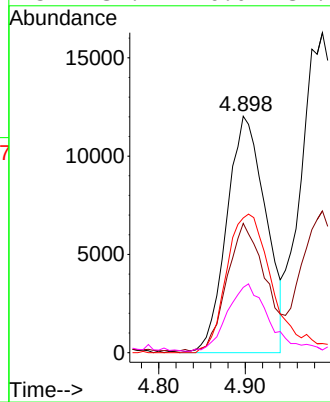
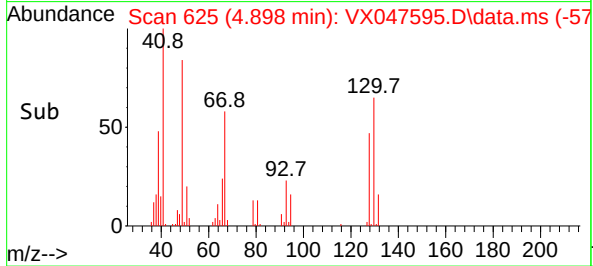
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 41 Resp: 3767
Ion Ratio Lower Upper
41 100
39 53.6 43.3 64.9
67 70.2 58.6 87.8
52 32.9 26.0 39.0

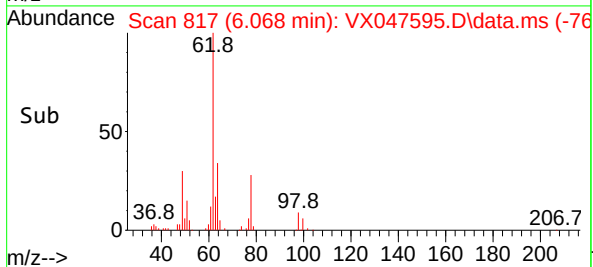
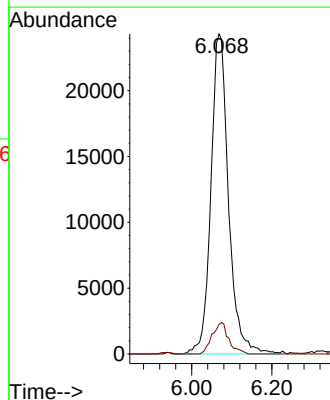
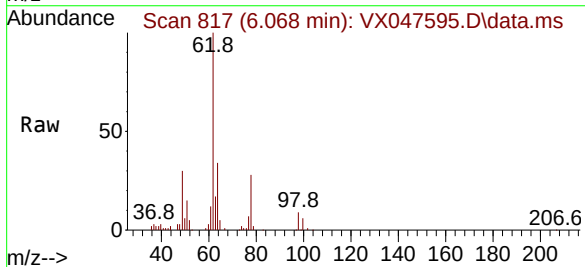
Manual Integrations
APPROVED

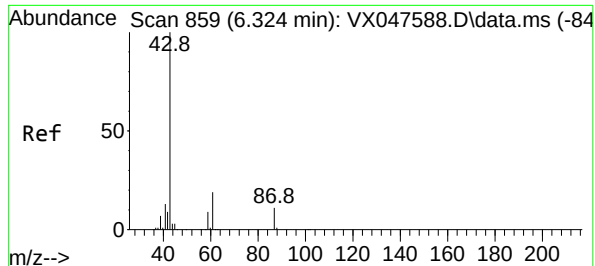
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#42
1,2-Dichloroethane
Concen: 19.296 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 62 Resp: 73955
Ion Ratio Lower Upper
62 100
98 9.2 0.0 17.0





#43

Isopropyl Acetate

Concen: 19.770 ug/l

RT: 6.324 min Scan# 859

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 43 Resp: 11514

Ion Ratio Lower Upper

43

100

61

87

19.4

12.1

15.2

9.6

22.8

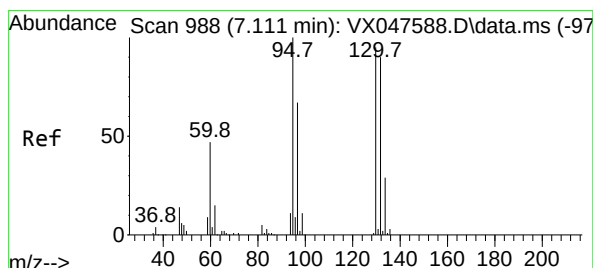
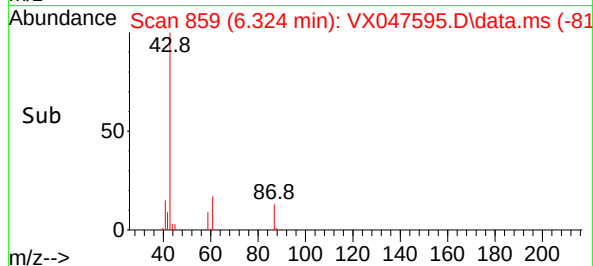
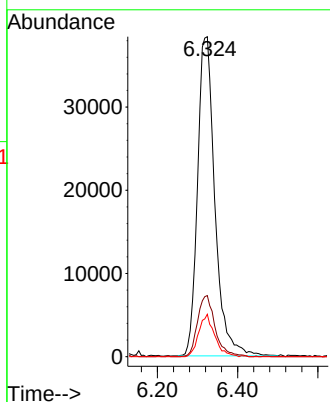
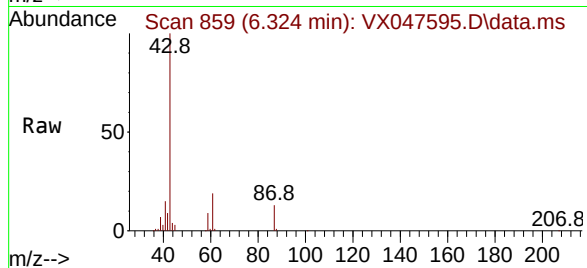
14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 19.159 ug/l

RT: 7.111 min Scan# 988

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Tgt Ion:130 Resp: 46658

Ion Ratio Lower Upper

130

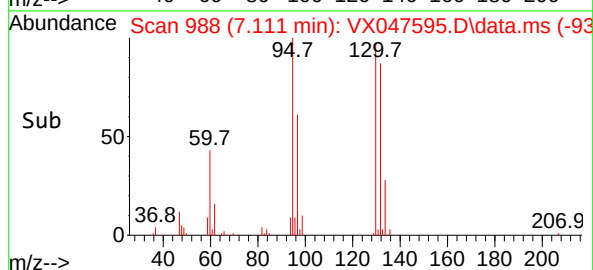
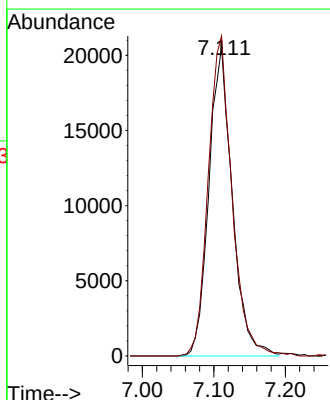
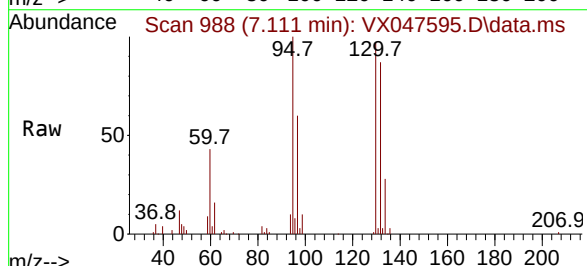
95

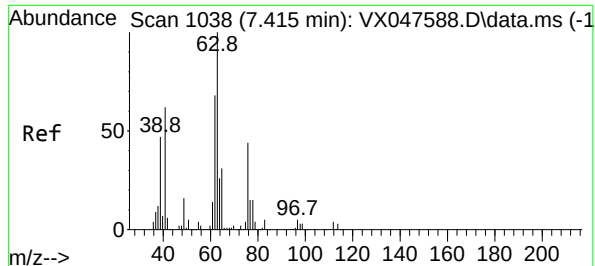
100

112.2

0.0

210.8





#45

1,2-Dichloropropane

Concen: 19.460 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 63 Resp: 50194

Ion Ratio Lower Upper

63 100

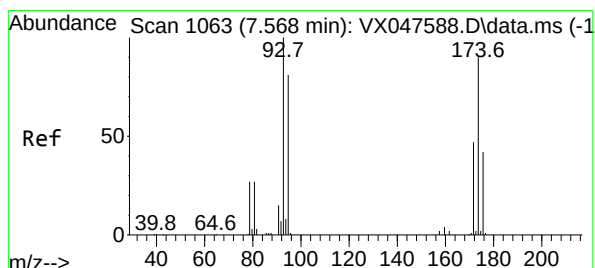
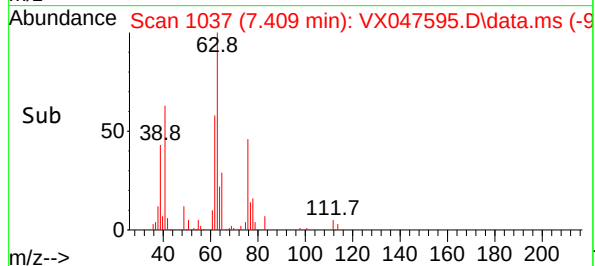
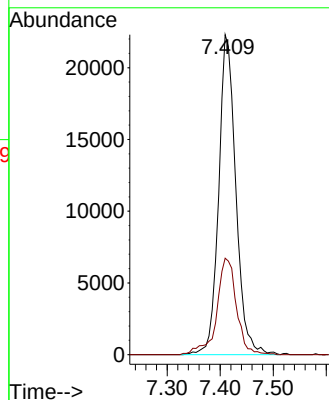
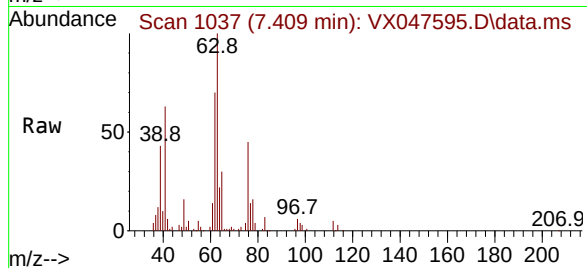
65 30.2 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 19.337 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

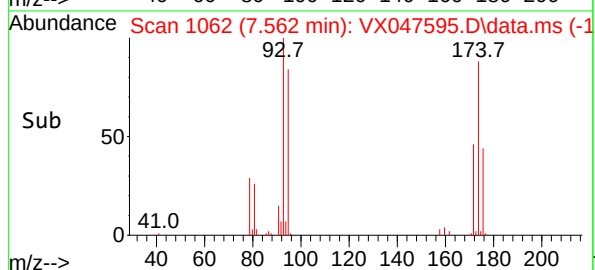
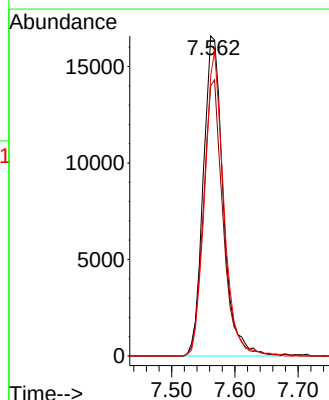
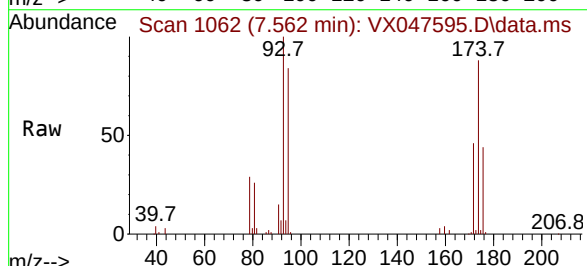
Tgt Ion: 93 Resp: 36296

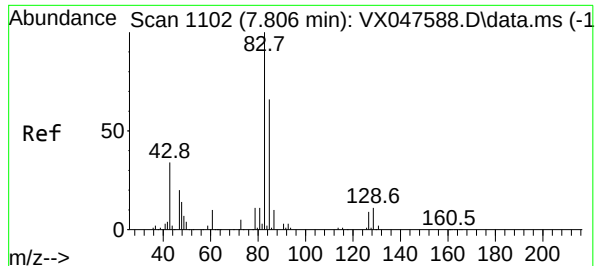
Ion Ratio Lower Upper

93 100

95 84.9 65.0 97.6

174 91.6 71.6 107.4





#47

Bromodichloromethane

Concen: 19.245 ug/l

RT: 7.806 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

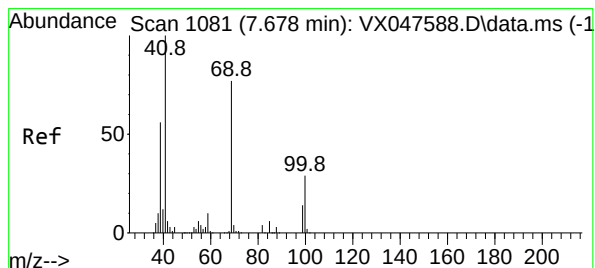
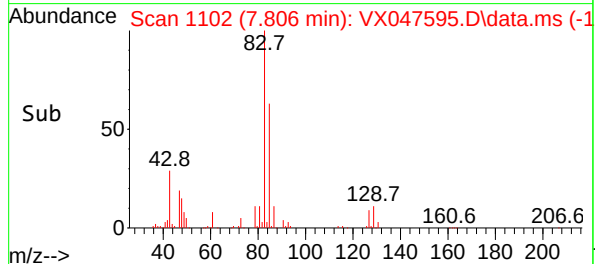
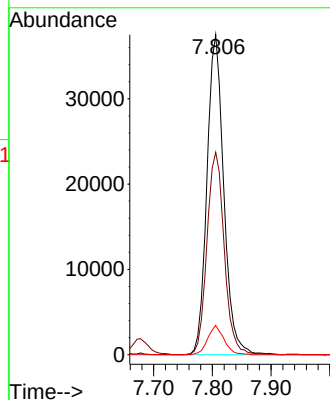
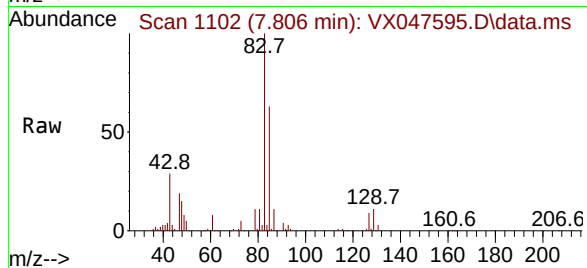
Tgt Ion:	83	Resp:	7454
Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.5	78.7
127	9.2	6.9	10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 19.901 ug/l

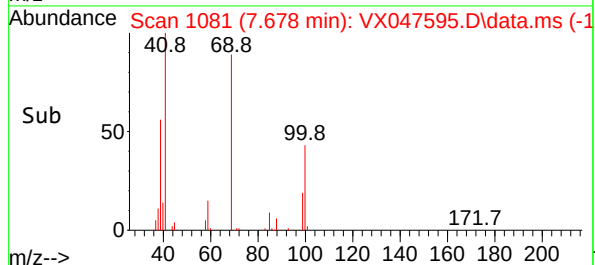
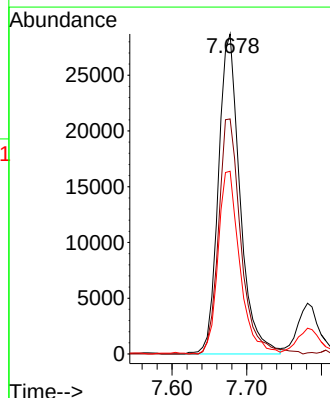
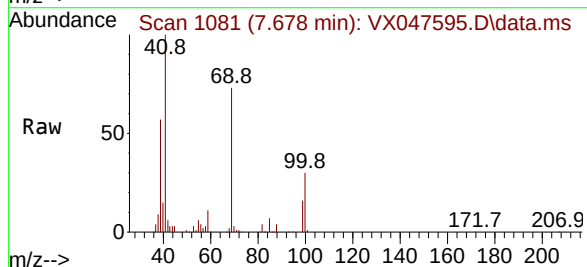
RT: 7.678 min Scan# 1081

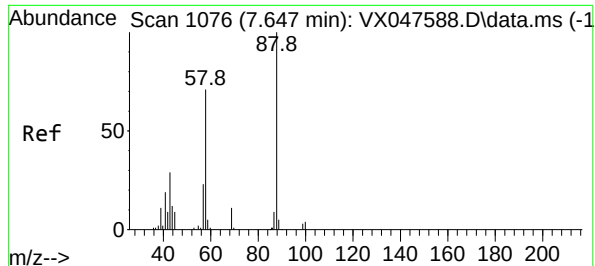
Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Tgt Ion:	41	Resp:	57732
Ion	Ratio	Lower	Upper
41	100		
69	75.7	61.4	92.2
39	57.5	45.8	68.6





#49

1,4-Dioxane

Concen: 428.306 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 88 Resp: 1255

Ion Ratio Lower Upper

88 100

43 41.2 30.2 45.2

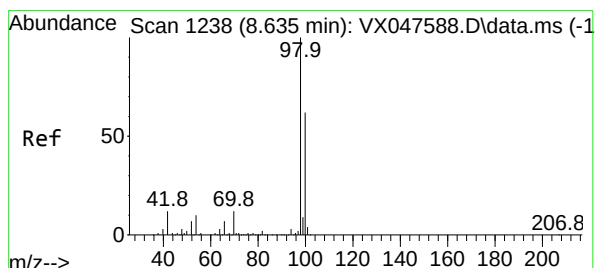
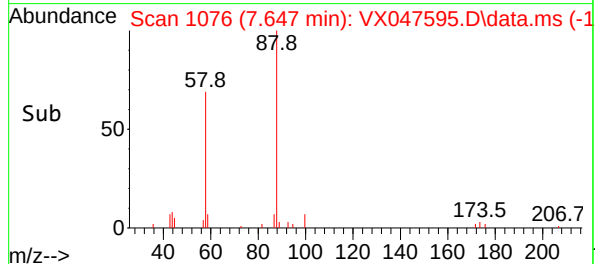
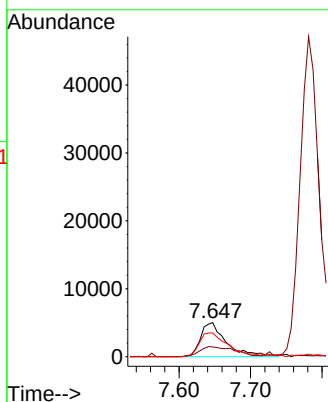
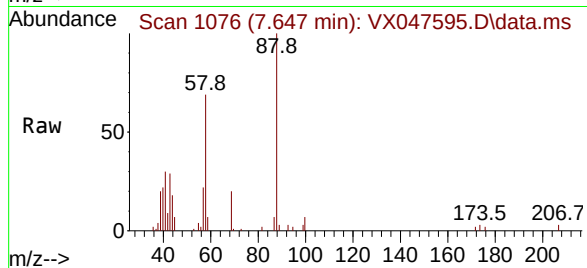
58 80.8 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 50.926 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VX047595.D

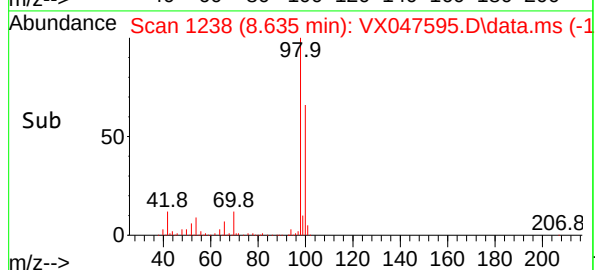
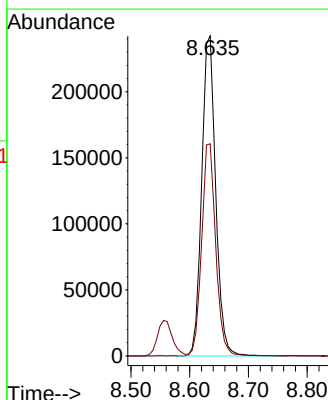
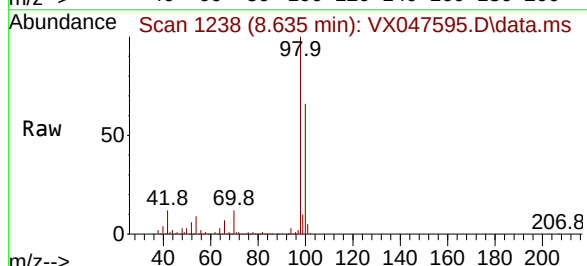
Acq: 16 Sep 2025 15:21

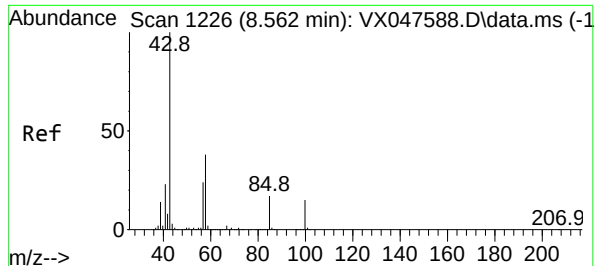
Tgt Ion: 98 Resp: 399956

Ion Ratio Lower Upper

98 100

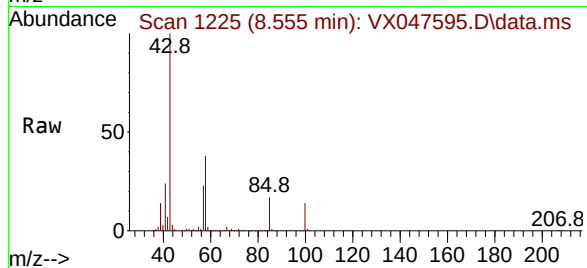
100 66.8 53.0 79.4





#51
4-Methyl-2-Pentanone
Concen: 104.165 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

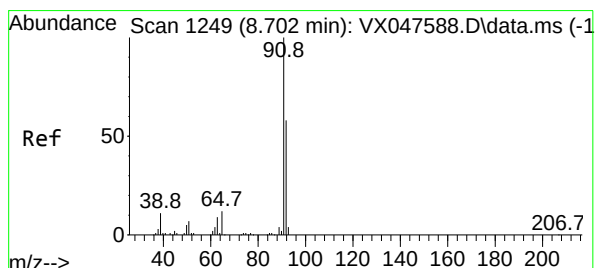
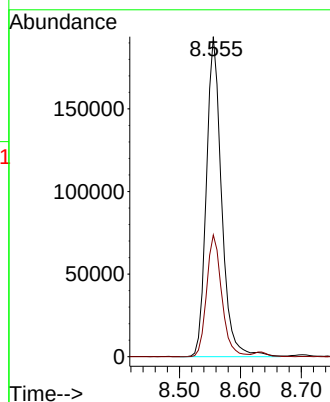
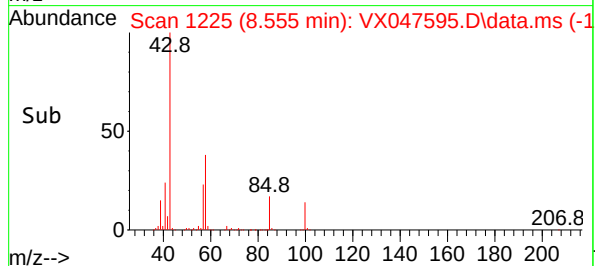
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 43 Resp: 336358
Ion Ratio Lower Upper
43 100
58 38.0 30.3 45.5

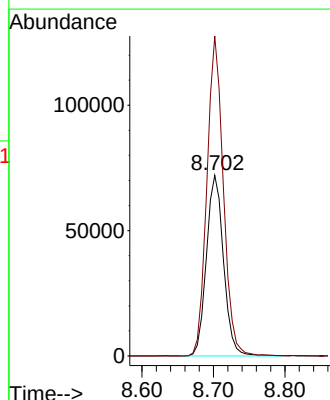
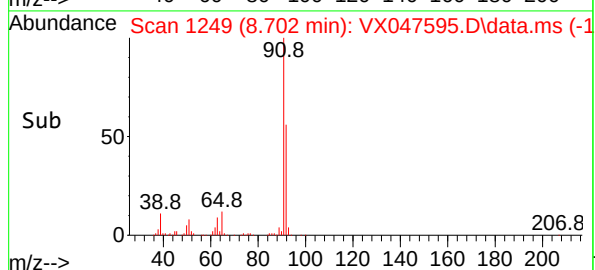
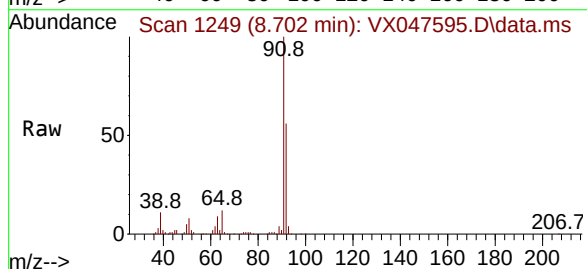
Manual Integrations
APPROVED

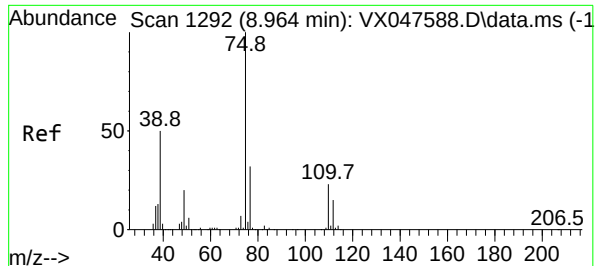
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 19.283 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 92 Resp: 119672
Ion Ratio Lower Upper
92 100
91 170.4 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 19.108 ug/l

RT: 8.964 min Scan# 1191

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 75 Resp: 75494

Ion Ratio Lower Upper

75 100

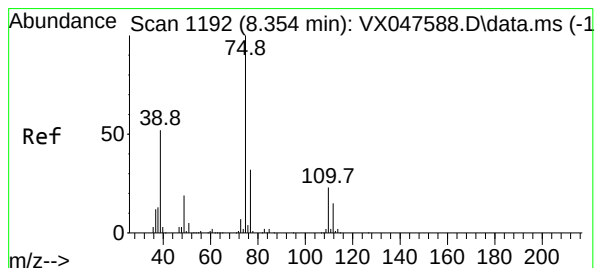
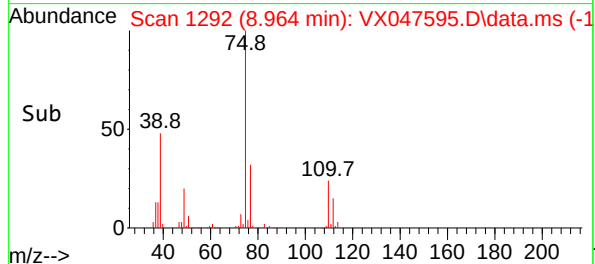
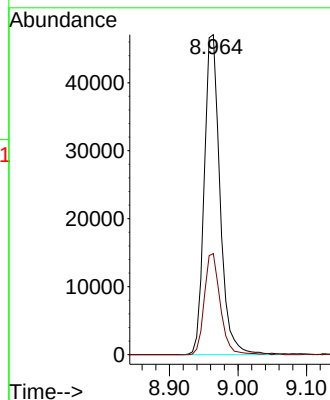
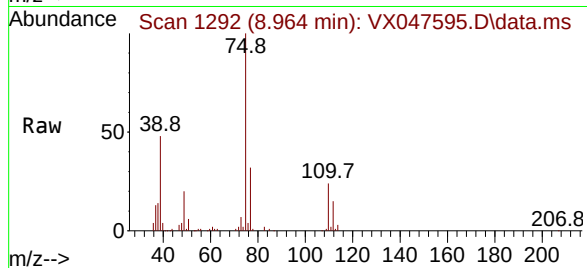
77 31.6 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 19.544 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

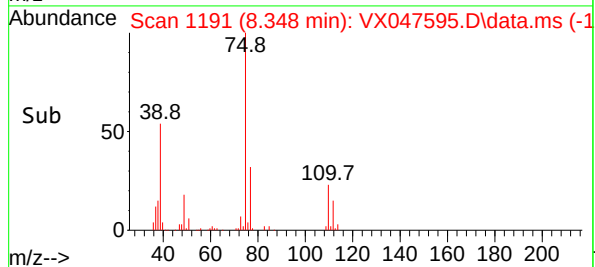
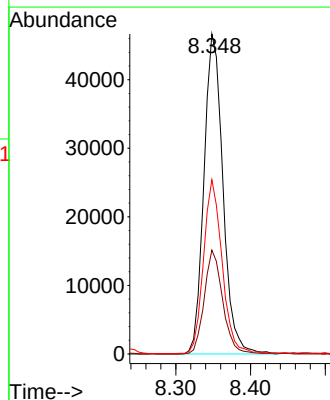
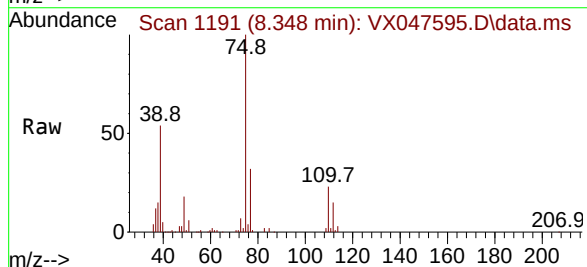
Tgt Ion: 75 Resp: 82533

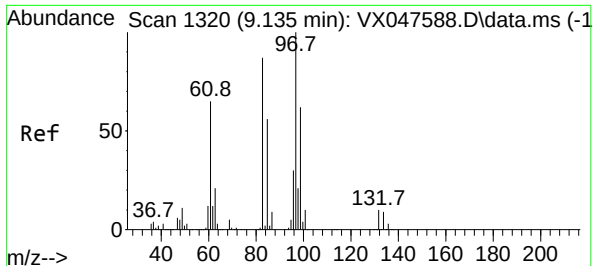
Ion Ratio Lower Upper

75 100

77 32.5 25.8 38.6

39 52.7 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 19.579 ug/l

RT: 9.135 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 97 Resp: 4685

Ion Ratio Lower Upper

97 100

83 85.1 69.6 104.4

85 52.0 45.0 67.6

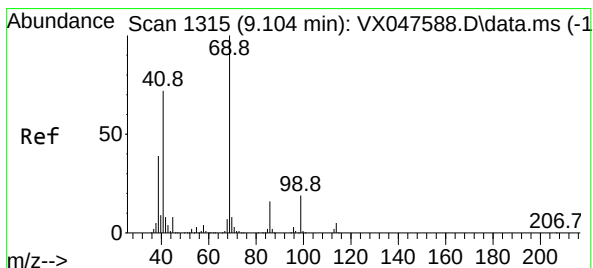
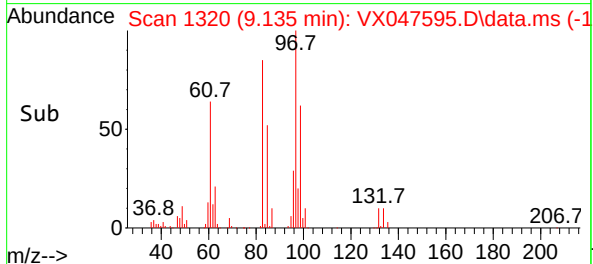
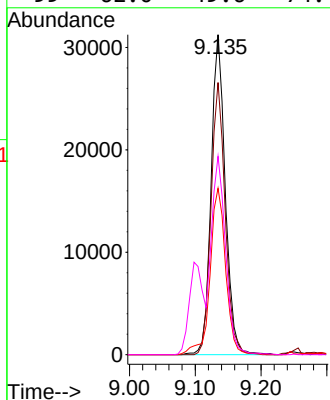
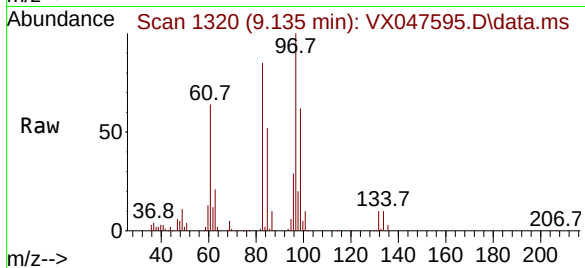
99 62.0 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 20.053 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

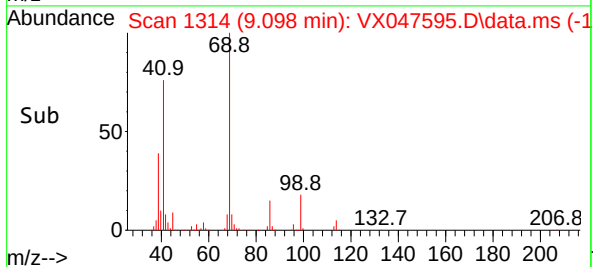
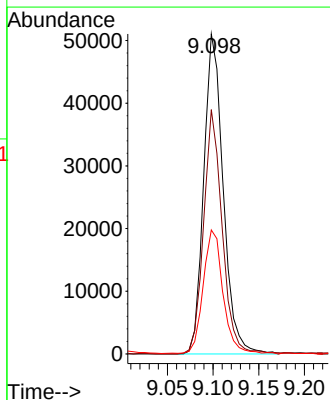
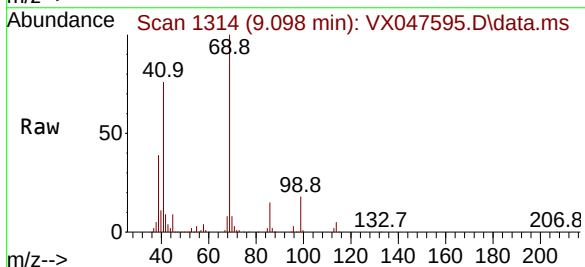
Tgt Ion: 69 Resp: 75362

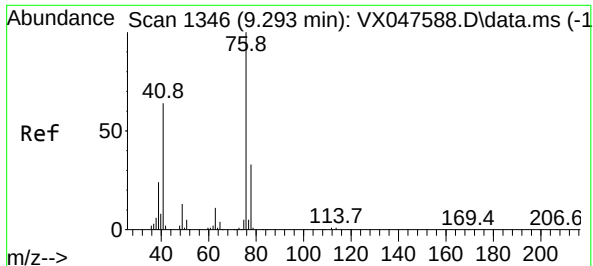
Ion Ratio Lower Upper

69 100

41 73.1 58.6 87.8

39 39.8 31.5 47.3





#57

1,3-Dichloropropane

Concen: 20.166 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 76 Resp: 82898

Ion Ratio Lower Upper

76 100

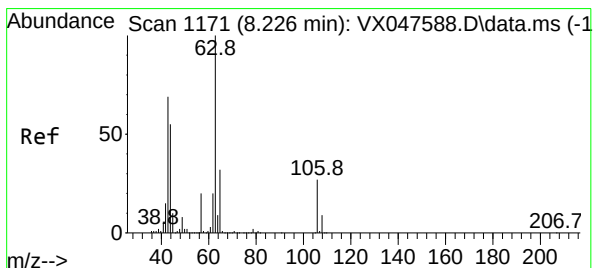
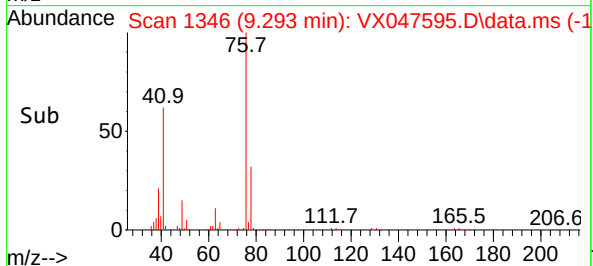
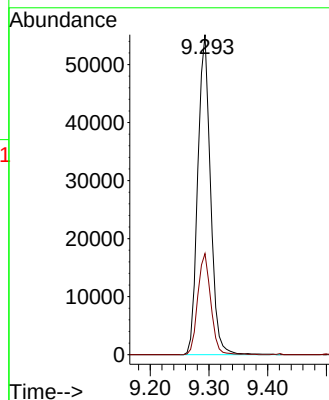
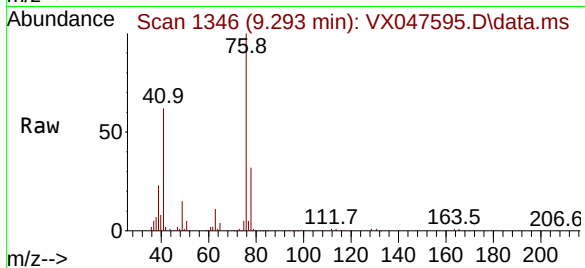
78 32.3 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 84.558 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047595.D

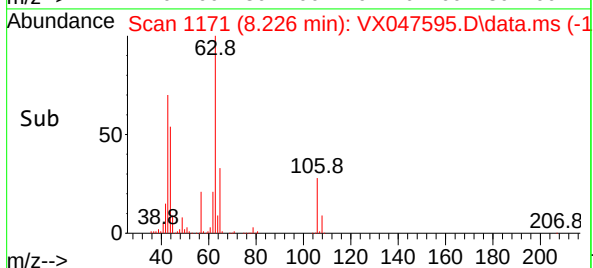
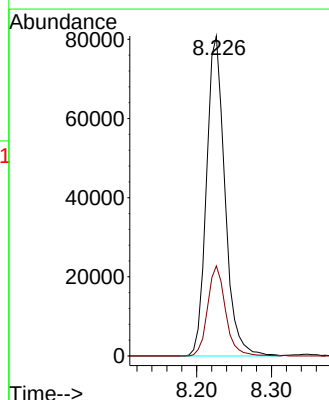
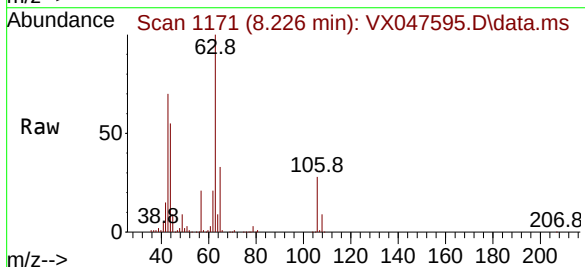
Acq: 16 Sep 2025 15:21

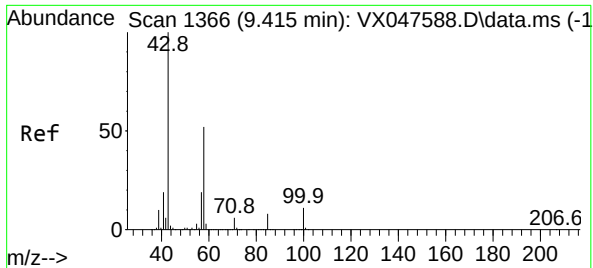
Tgt Ion: 63 Resp: 138530

Ion Ratio Lower Upper

63 100

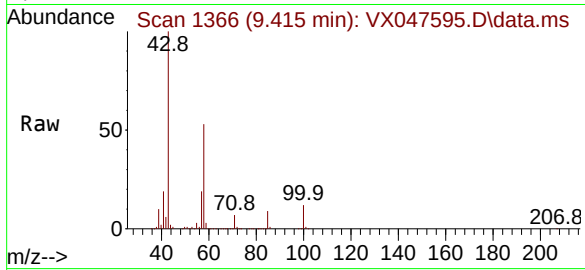
106 27.3 21.9 32.9





#59
2-Hexanone
Concen: 101.913 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

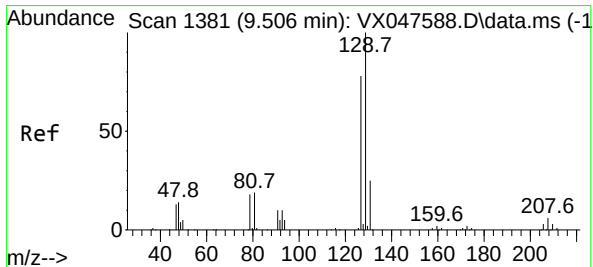
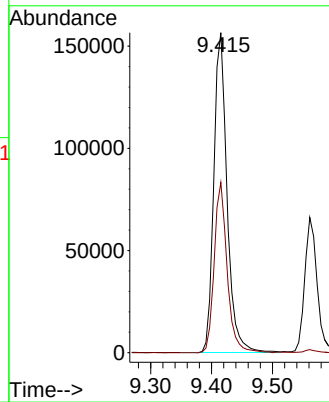
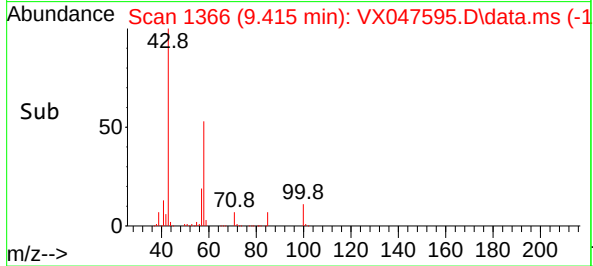
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 43 Resp: 23635
Ion Ratio Lower Upper
43 100
58 51.9 26.1 78.2

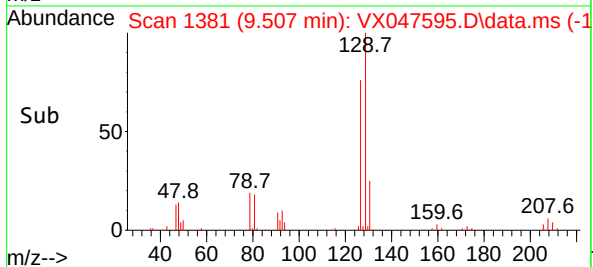
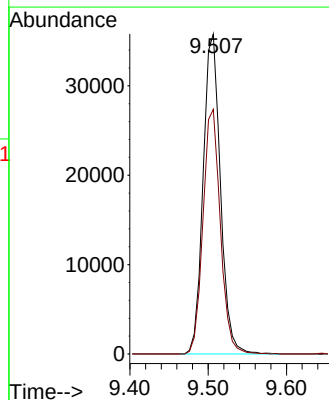
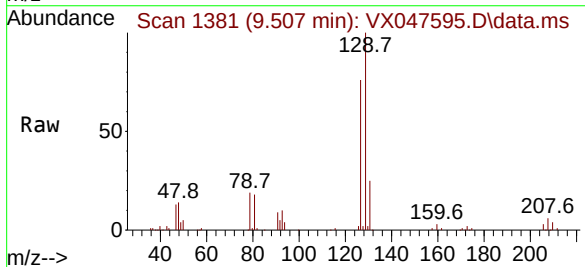
Manual Integrations
APPROVED

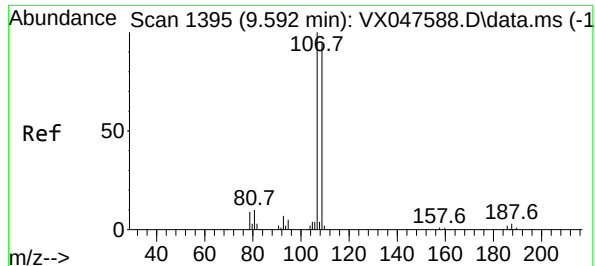
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#60
Dibromochloromethane
Concen: 19.897 ug/l
RT: 9.507 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:129 Resp: 54864
Ion Ratio Lower Upper
129 100
127 76.7 38.4 115.2





#61

1,2-Dibromoethane

Concen: 20.295 ug/l

RT: 9.592 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion:107 Resp: 4946

Ion Ratio Lower Upper

107 100

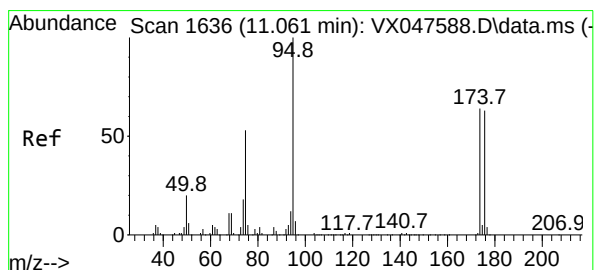
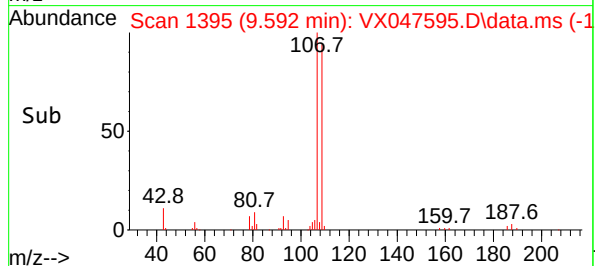
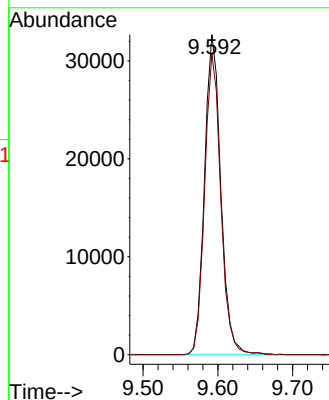
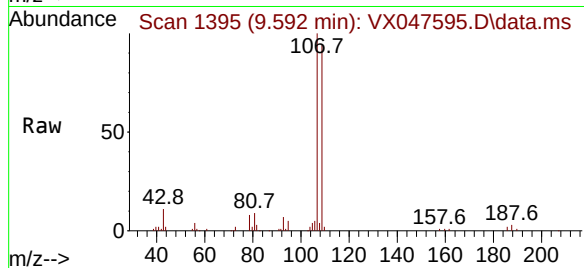
109 93.2 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#62

4-Bromofluorobenzene

Concen: 53.912 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

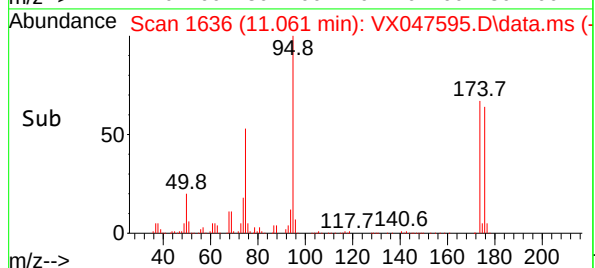
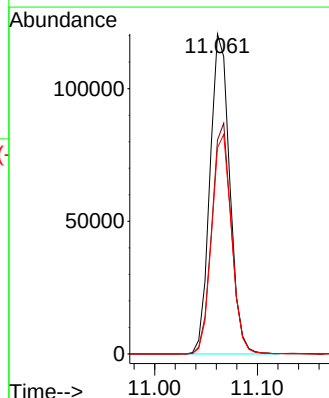
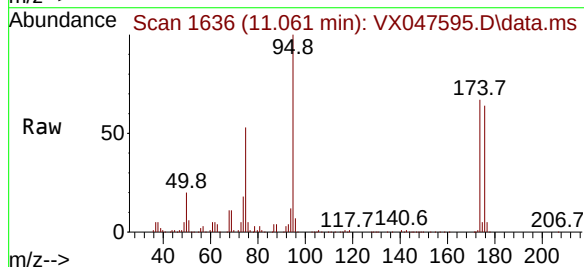
Tgt Ion: 95 Resp: 160691

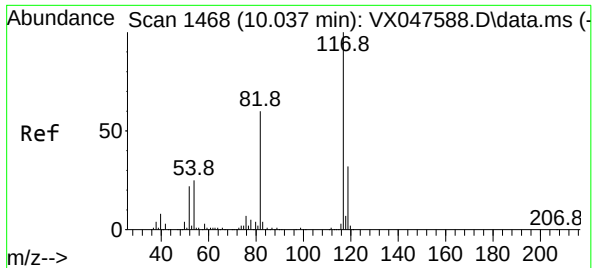
Ion Ratio Lower Upper

95 100

174 71.7 0.0 141.6

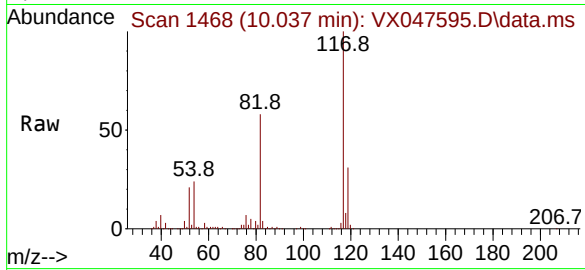
176 69.2 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

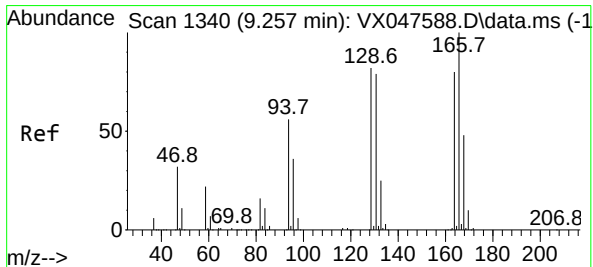
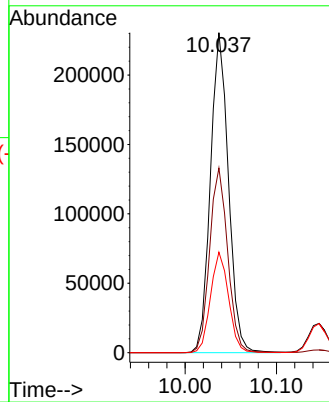
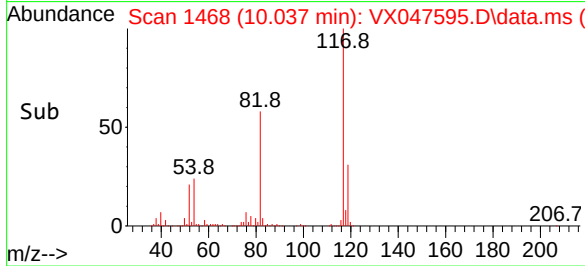
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion:117 Resp: 31547
Ion Ratio Lower Upper
117 100
82 57.7 47.8 71.6
119 31.4 25.2 37.8

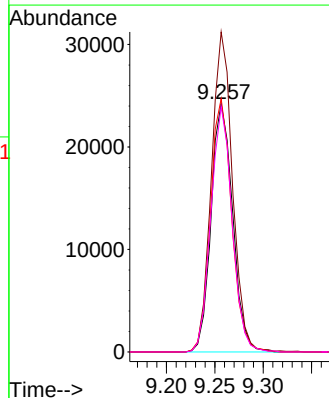
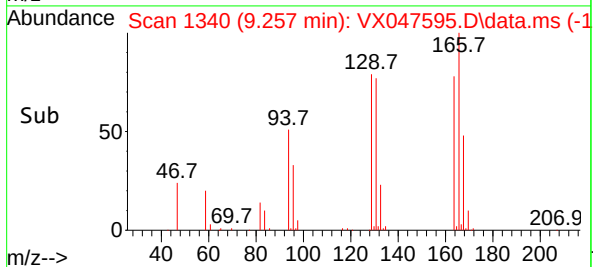
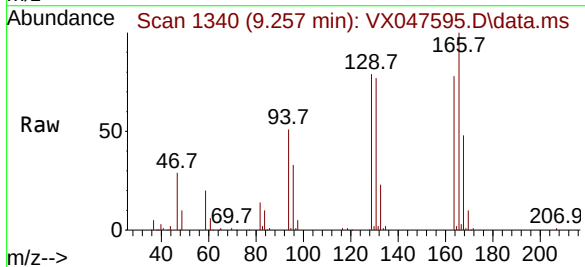
Manual Integrations
APPROVED

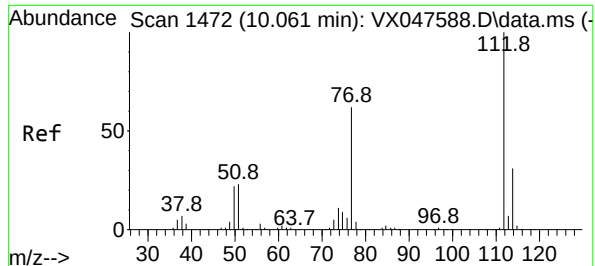
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#64
Tetrachloroethene
Concen: 18.285 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

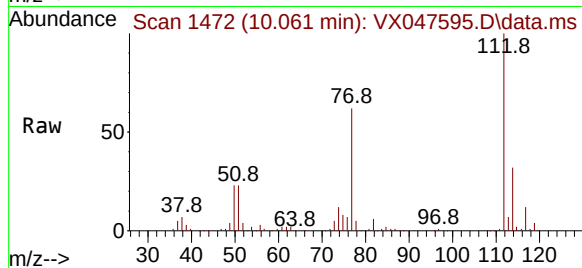
Tgt Ion:164 Resp: 37604
Ion Ratio Lower Upper
164 100
166 128.9 100.2 150.2
129 102.0 81.8 122.6
131 98.8 78.6 118.0





#65
Chlorobenzene
Concen: 18.515 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

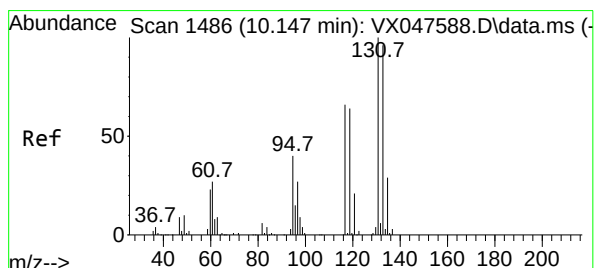
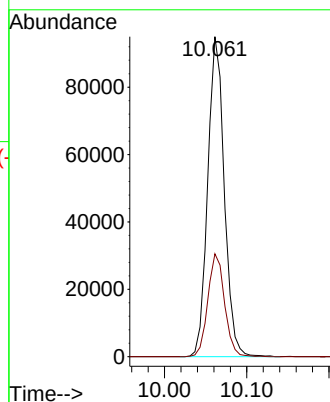
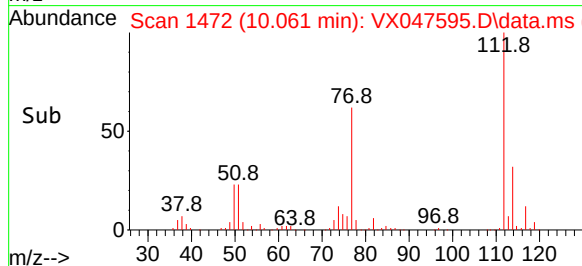
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



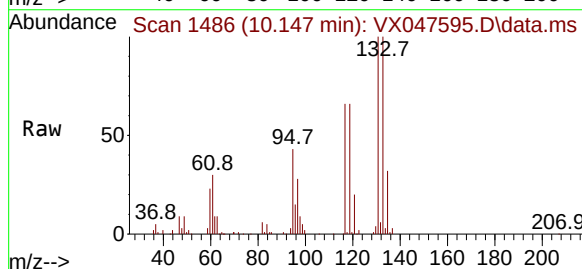
Tgt Ion:112 Resp: 132692
Ion Ratio Lower Upper
112 100
114 32.2 25.1 37.7

Manual Integrations
APPROVED

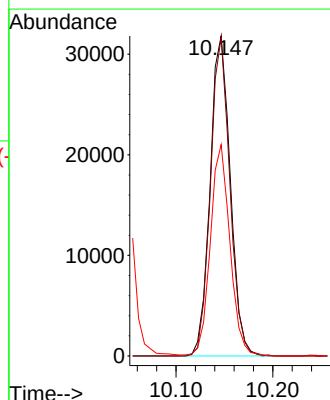
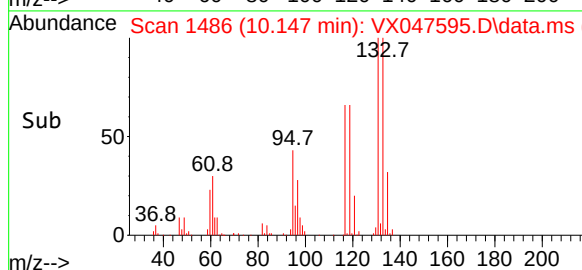
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

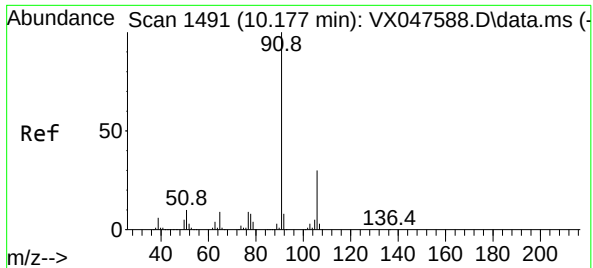


#66
1,1,1,2-Tetrachloroethane
Concen: 18.663 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21



Tgt Ion:131 Resp: 46156
Ion Ratio Lower Upper
131 100
133 95.8 47.3 142.0
119 64.2 32.0 96.0





#67

Ethyl Benzene

Concen: 18.657 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 91 Resp: 230715

Ion Ratio Lower Upper

91 100

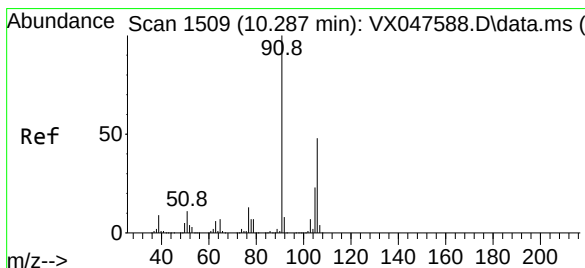
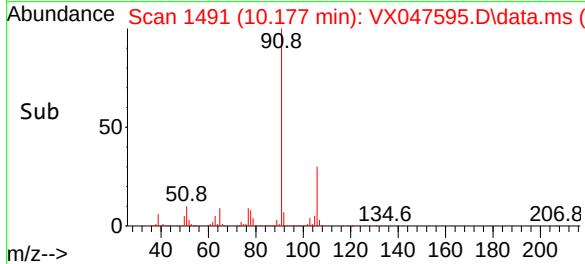
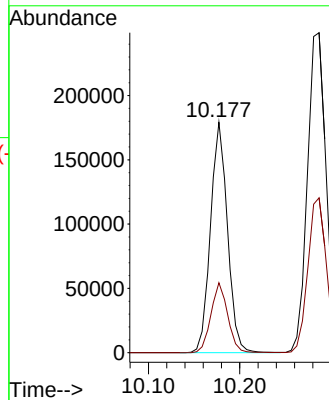
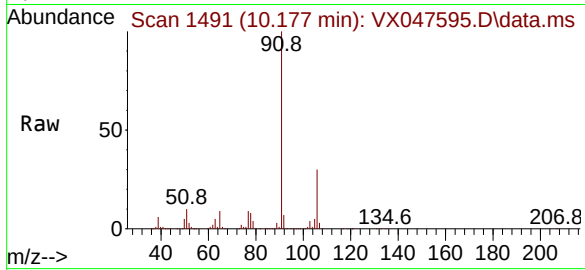
106 30.3 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 37.445 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VX047595.D

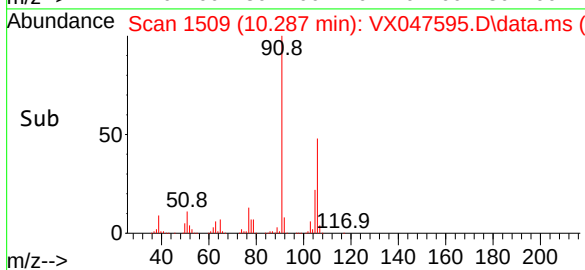
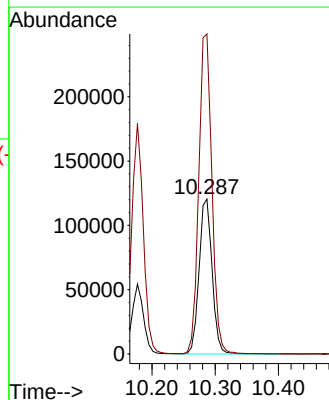
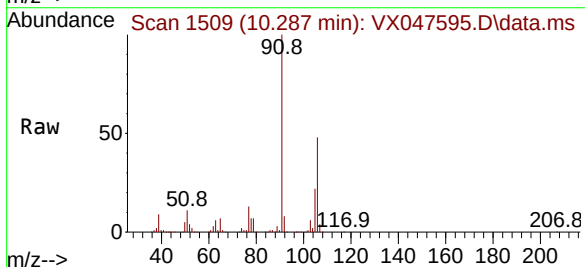
Acq: 16 Sep 2025 15:21

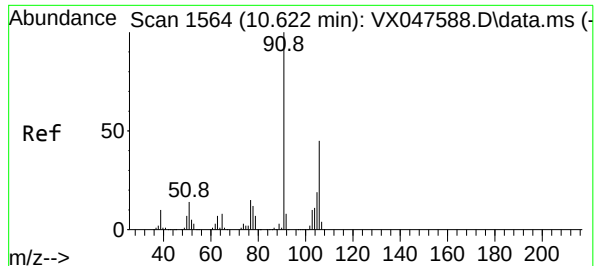
Tgt Ion:106 Resp: 172349

Ion Ratio Lower Upper

106 100

91 208.5 167.8 251.8





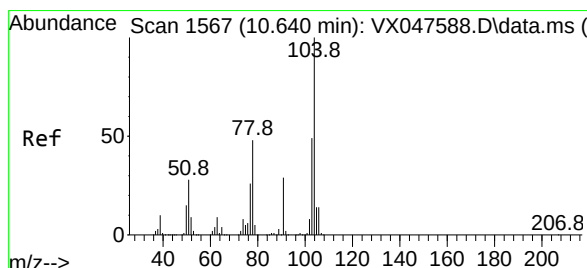
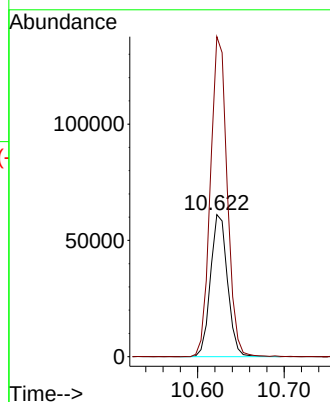
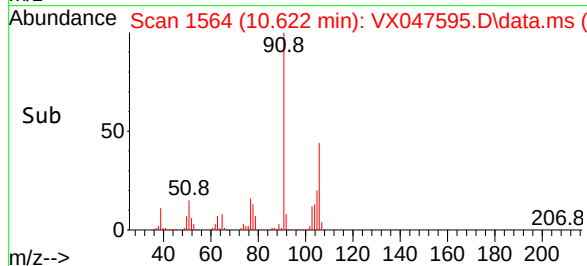
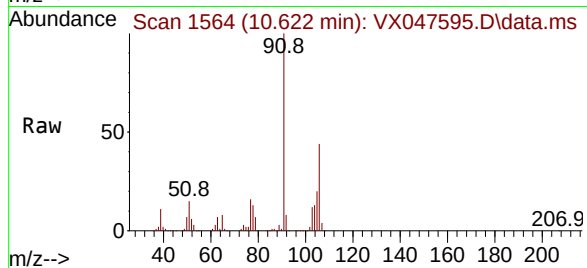
#69
o-Xylene
Concen: 18.710 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Tgt Ion:106 Resp: 83294
Ion Ratio Lower Upper
106 100
91 222.6 111.1 333.4

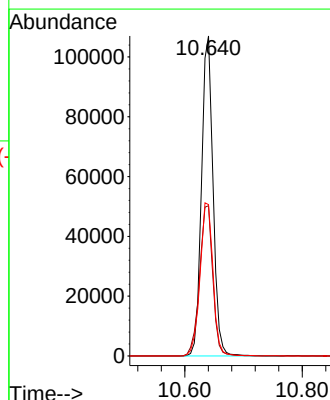
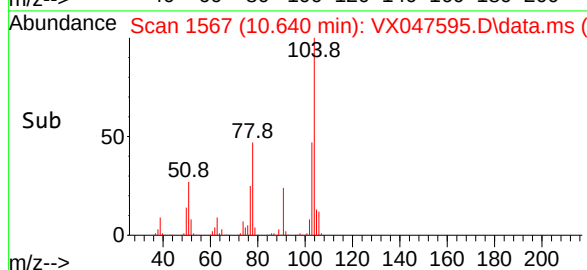
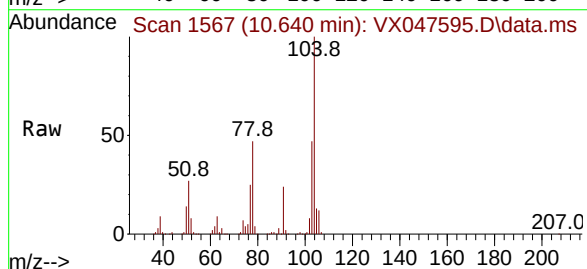
Manual Integrations
APPROVED

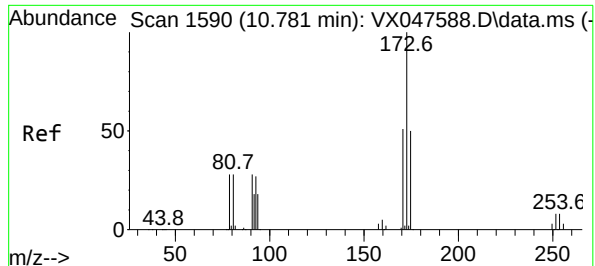
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 18.627 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

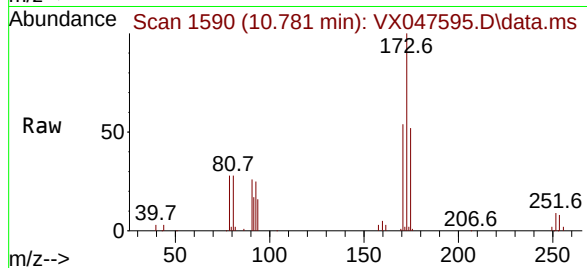
Tgt Ion:104 Resp: 145298
Ion Ratio Lower Upper
104 100
78 53.8 43.1 64.7
103 54.0 43.1 64.7





#71
Bromoform
Concen: 18.680 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

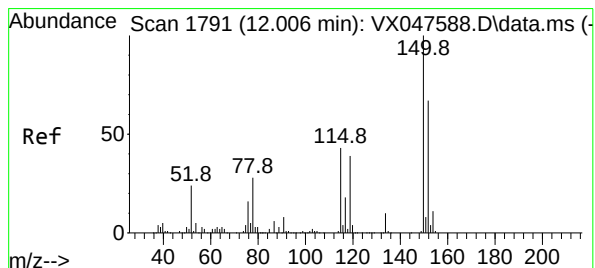
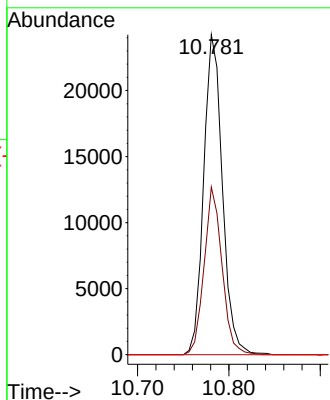
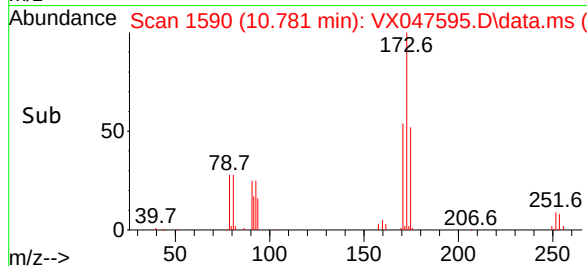
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



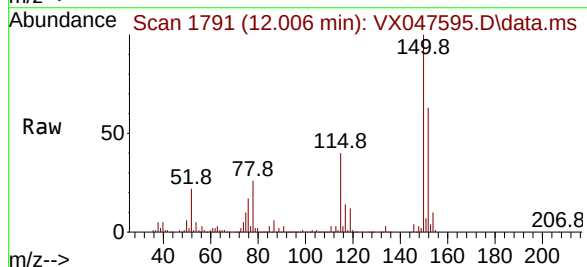
Tgt Ion:173 Resp: 34490
Ion Ratio Lower Upper
173 100
175 50.1 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

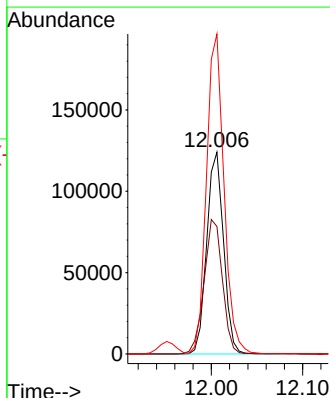
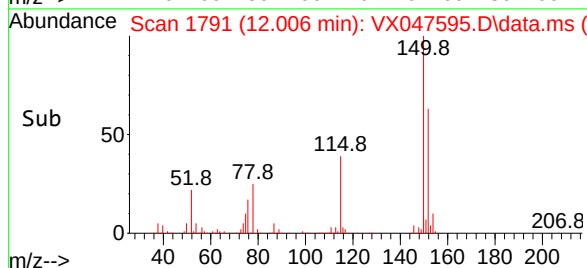
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

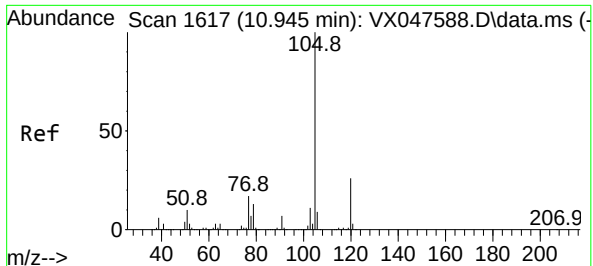


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21



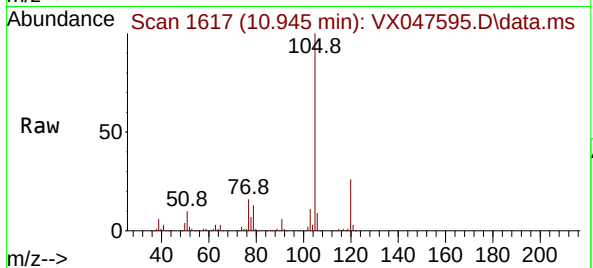
Tgt Ion:152 Resp: 158261
Ion Ratio Lower Upper
152 100
115 72.6 44.9 134.5
150 164.0 0.0 352.0





#73
Isopropylbenzene
Concen: 17.893 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

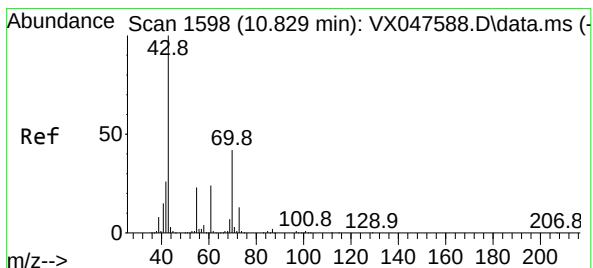
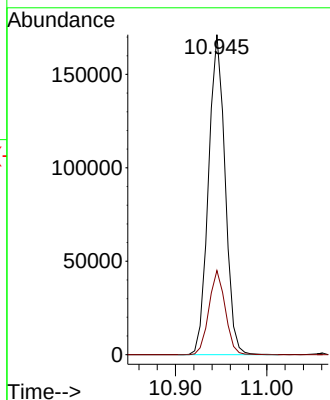
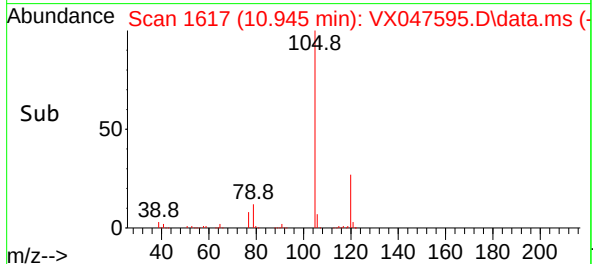
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 105 Resp: 215290
Ion Ratio Lower Upper
105 100
120 25.8 12.8 38.4

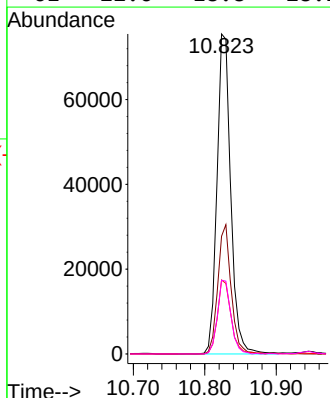
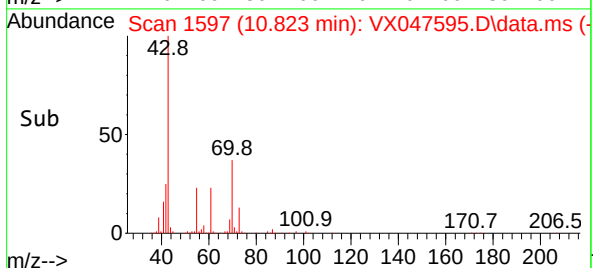
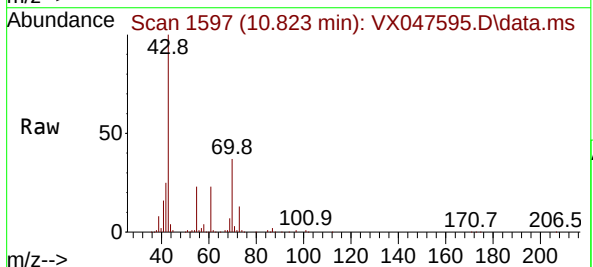
Manual Integrations
APPROVED

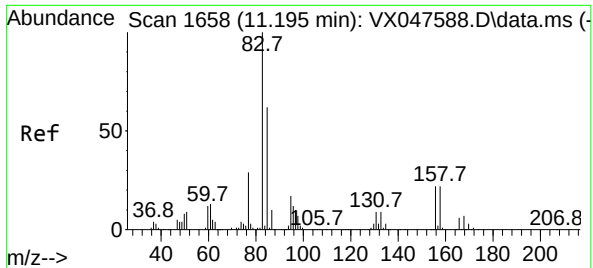
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 18.365 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 100764
Ion Ratio Lower Upper
43 100
70 39.4 32.0 48.0
55 22.8 18.9 28.3
61 22.6 18.8 28.2





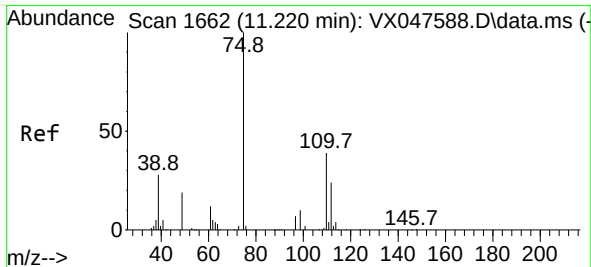
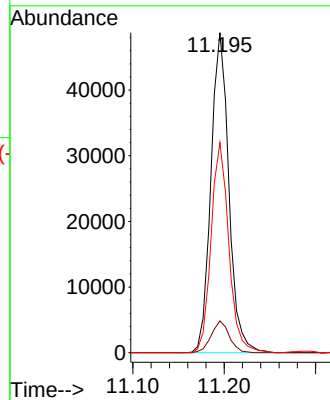
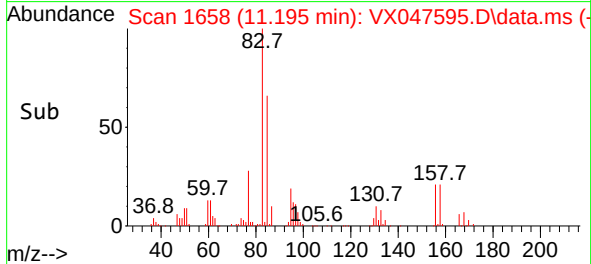
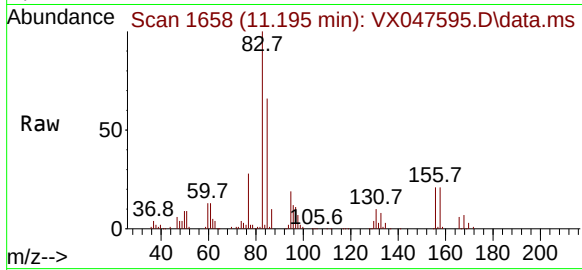
#75
1,1,2,2-Tetrachloroethane
Concen: 18.189 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Tgt Ion: 83 Resp: 6621
Ion Ratio Lower Upper
83 100
131 10.0 5.0 14.9
85 64.9 31.6 95.0

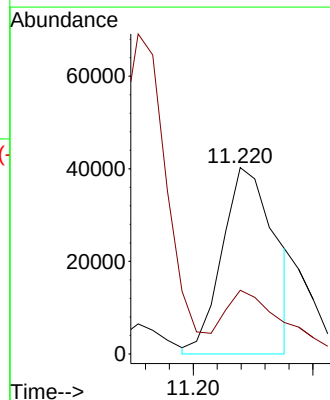
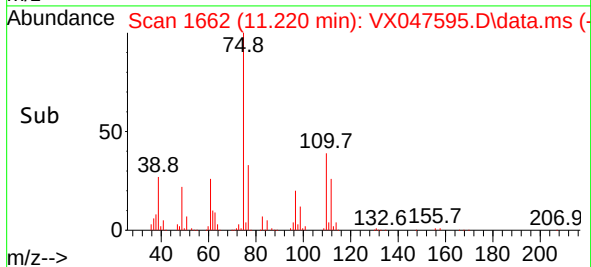
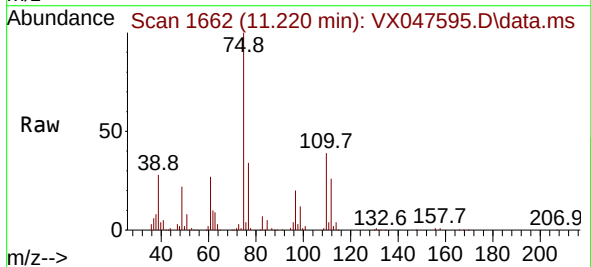
Manual Integrations
APPROVED

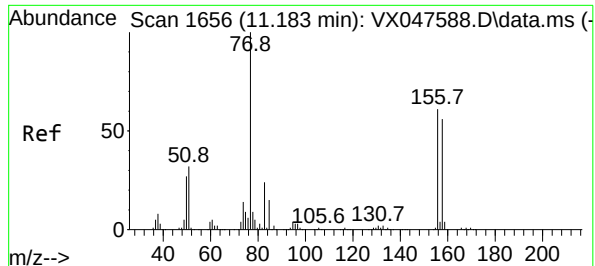
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 19.172 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 75 Resp: 61433
Ion Ratio Lower Upper
75 100
77 37.7 18.8 56.4





#77

Bromobenzene

Concen: 17.821 ug/l

RT: 11.183 min Scan# 1656

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion:156 Resp: 52810

Ion Ratio Lower Upper

156 100

77 181.2 89.7 269.1

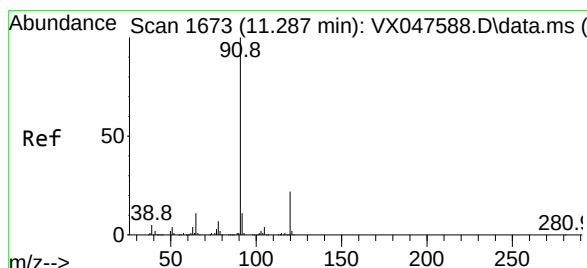
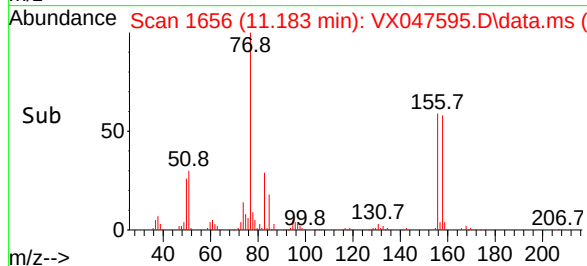
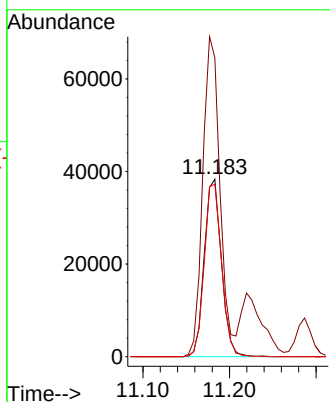
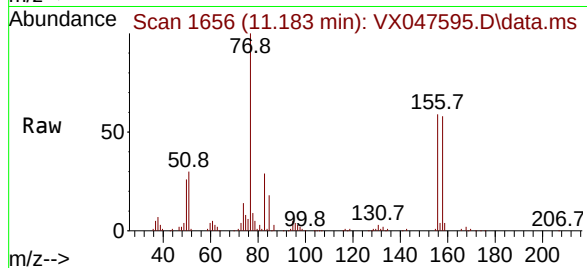
158 98.3 47.9 143.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#78

n-propylbenzene

Concen: 17.807 ug/l

RT: 11.287 min Scan# 1673

Delta R.T. 0.000 min

Lab File: VX047595.D

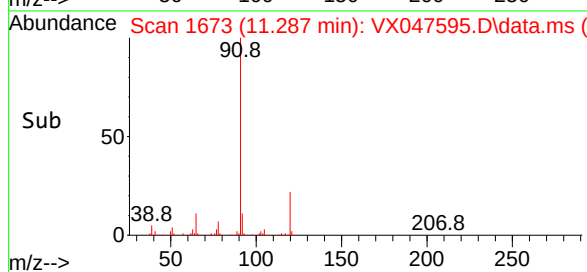
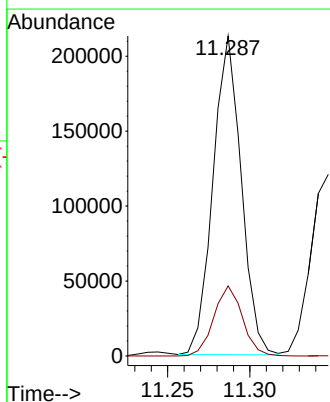
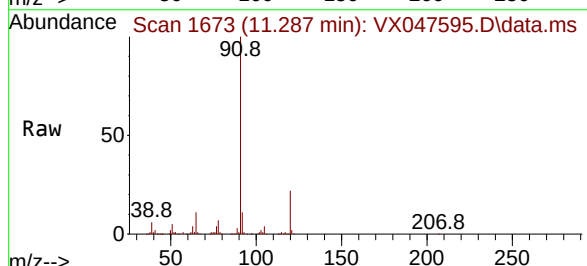
Acq: 16 Sep 2025 15:21

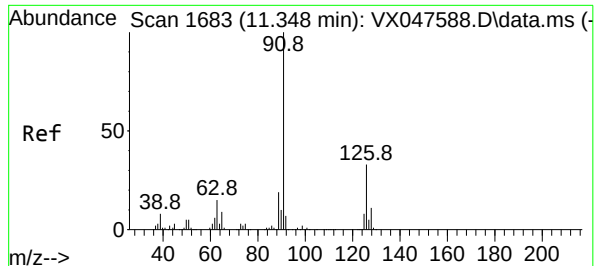
Tgt Ion: 91 Resp: 253278

Ion Ratio Lower Upper

91 100

120 22.3 11.1 33.1





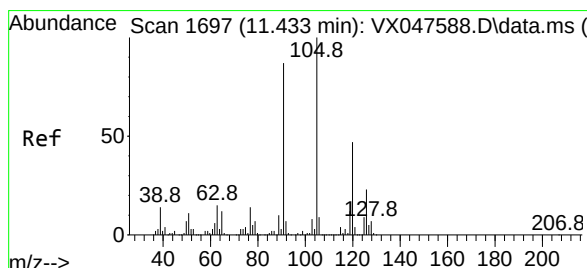
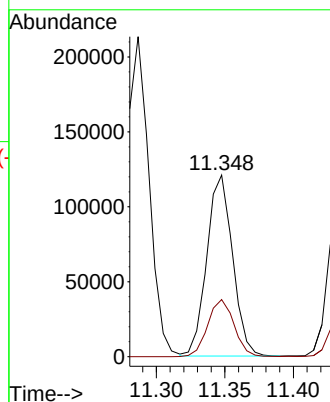
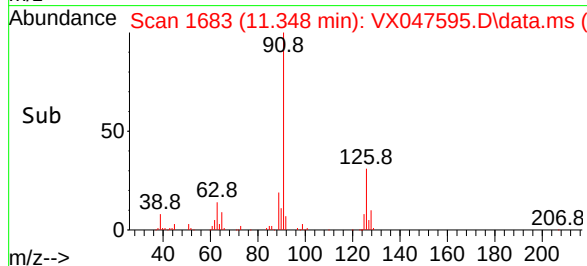
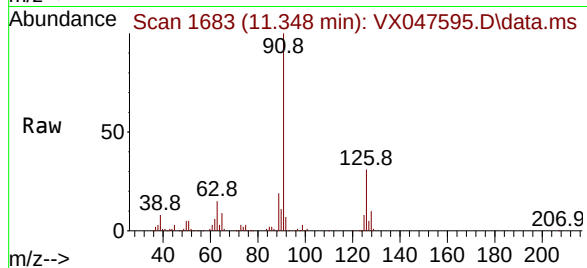
#79
2-Chlorotoluene
Concen: 18.122 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Tgt Ion: 91 Resp: 15786
Ion Ratio Lower Upper
91 100
126 32.2 16.1 48.3

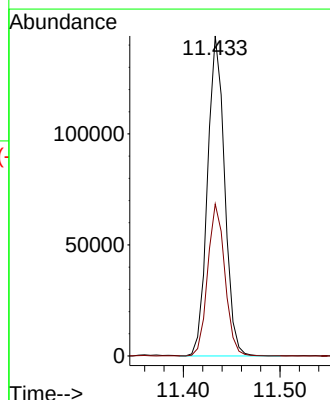
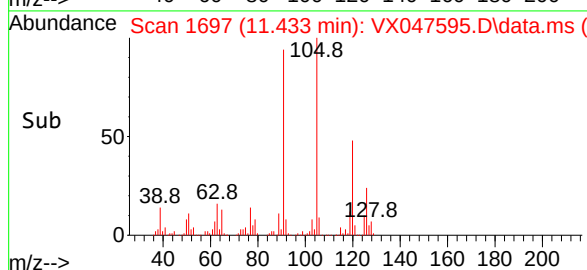
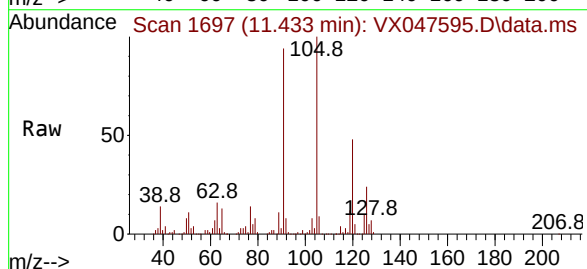
Manual Integrations
APPROVED

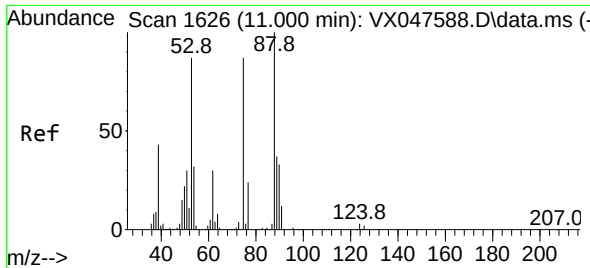
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#80
1,3,5-Trimethylbenzene
Concen: 17.974 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

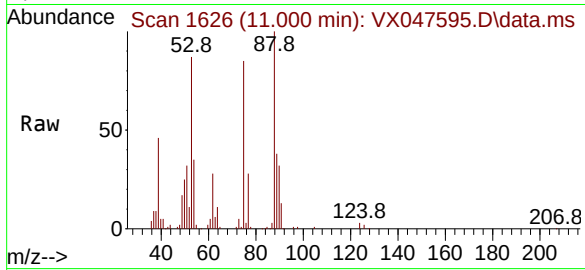
Tgt Ion:105 Resp: 177677
Ion Ratio Lower Upper
105 100
120 47.7 23.6 70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 16.391 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

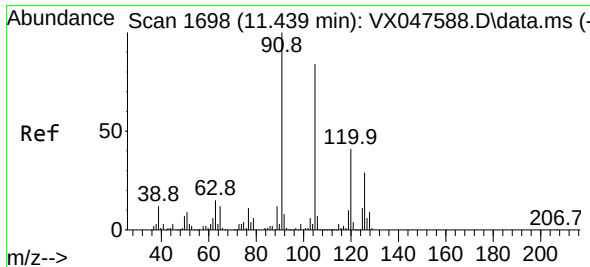
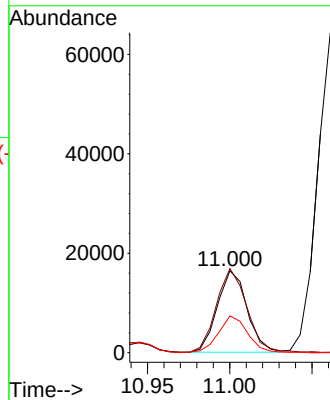
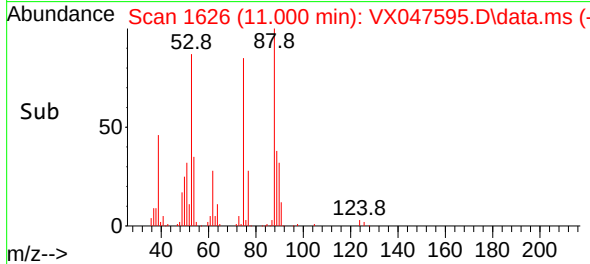
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01



Tgt Ion: 75 Resp: 2059
Ion Ratio Lower Upper
75 100
53 106.4 83.4 125.2
89 44.7 36.3 54.5

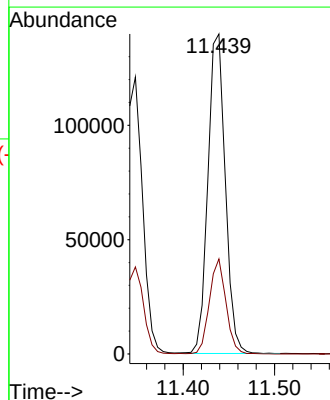
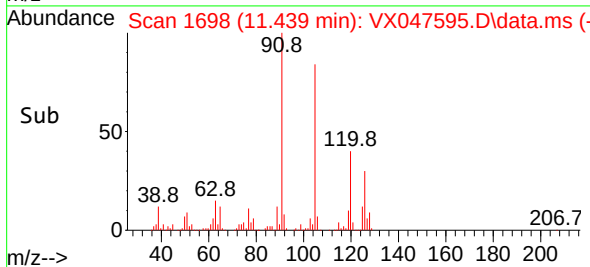
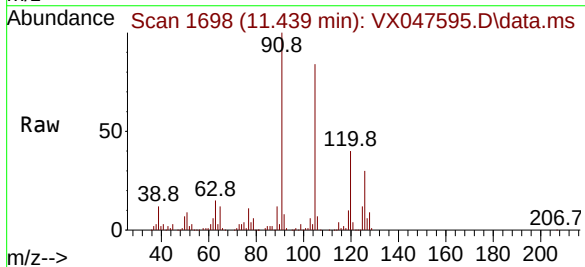
Manual Integrations
APPROVED

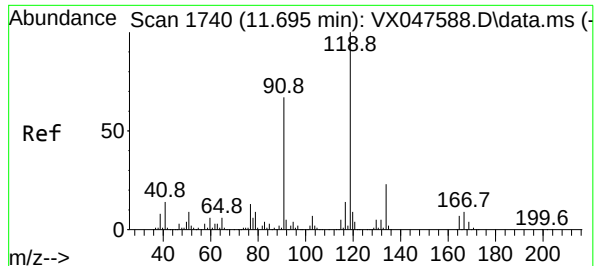
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 17.898 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 91 Resp: 184150
Ion Ratio Lower Upper
91 100
126 28.4 14.2 42.6





#83

tert-Butylbenzene

Concen: 17.527 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion:119 Resp: 17736

Ion Ratio Lower Upper

119 100

91 60.3 29.6 88.8

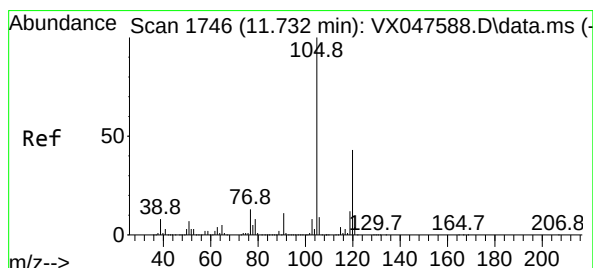
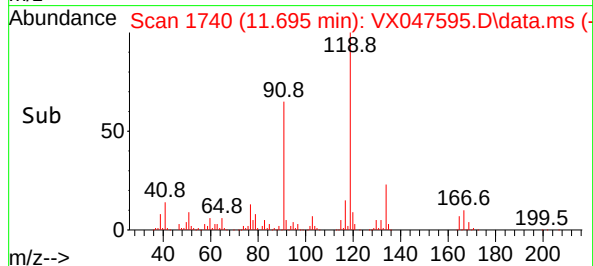
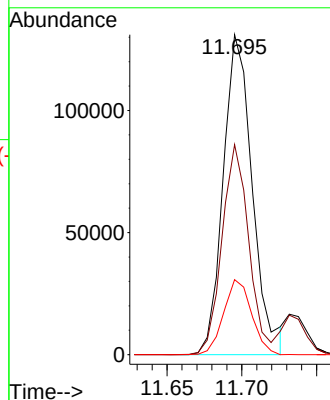
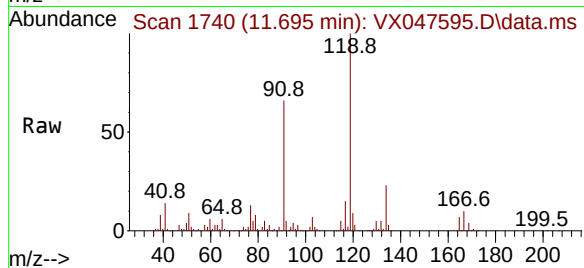
134 22.6 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 17.974 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. 0.000 min

Lab File: VX047595.D

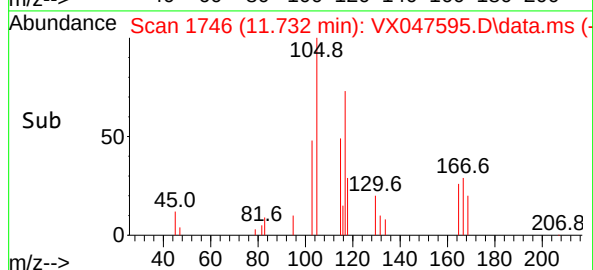
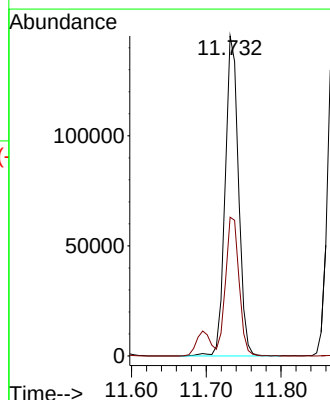
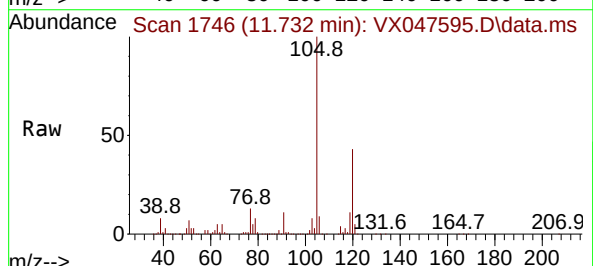
Acq: 16 Sep 2025 15:21

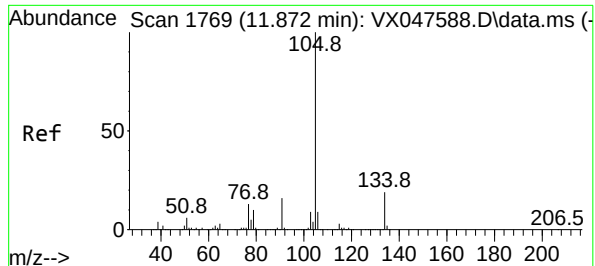
Tgt Ion:105 Resp: 180139

Ion Ratio Lower Upper

105 100

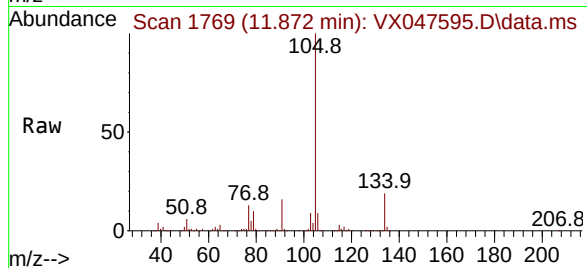
120 43.9 22.1 66.1





#85
 sec-Butylbenzene
 Concen: 17.908 ug/l
 RT: 11.872 min Scan# 1769
 Delta R.T. 0.000 min
 Lab File: VX047595.D
 Acq: 16 Sep 2025 15:21

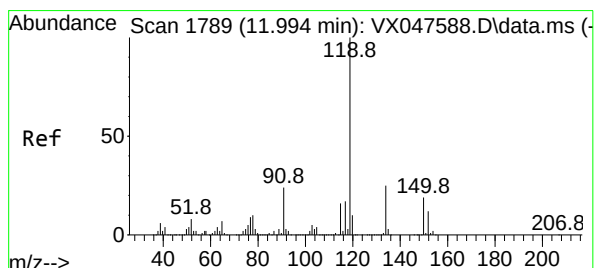
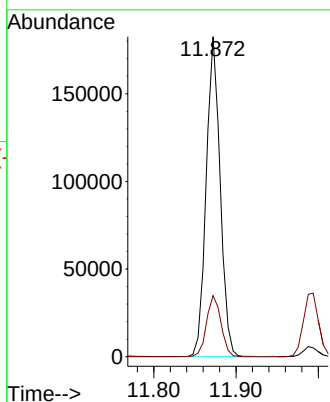
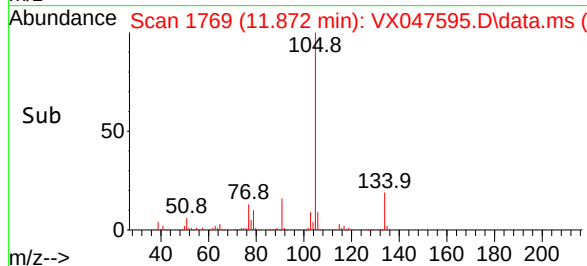
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBS01



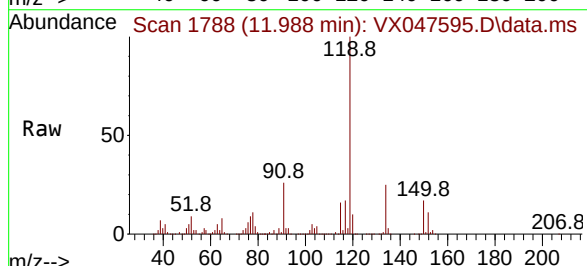
Tgt Ion:105 Resp: 215249
 Ion Ratio Lower Upper
 105 100
 134 19.7 9.8 29.5

Manual Integrations
 APPROVED

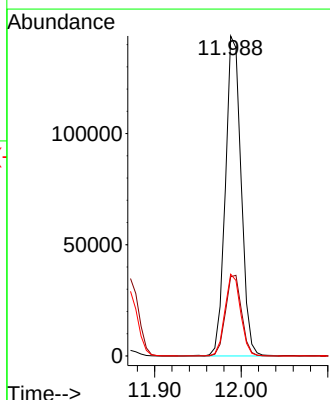
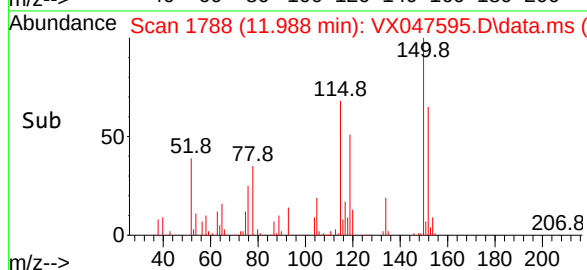
Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

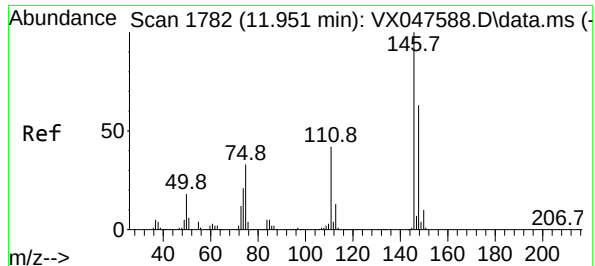


#86
 p-Isopropyltoluene
 Concen: 17.784 ug/l
 RT: 11.988 min Scan# 1788
 Delta R.T. -0.006 min
 Lab File: VX047595.D
 Acq: 16 Sep 2025 15:21



Tgt Ion:119 Resp: 180973
 Ion Ratio Lower Upper
 119 100
 134 25.8 12.6 37.8
 91 25.5 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 17.827 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

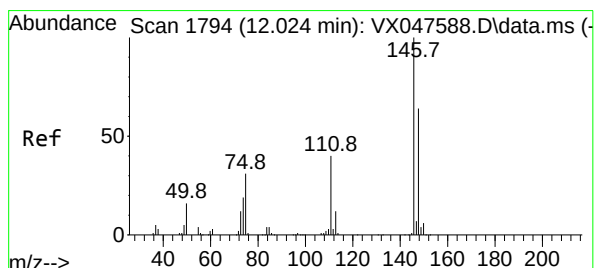
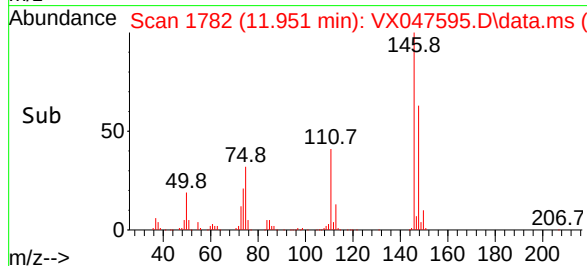
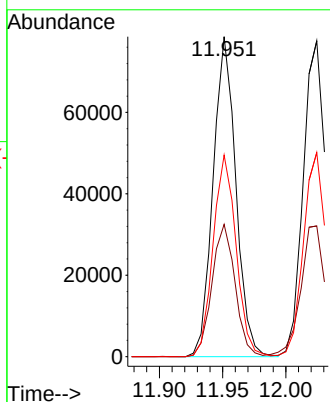
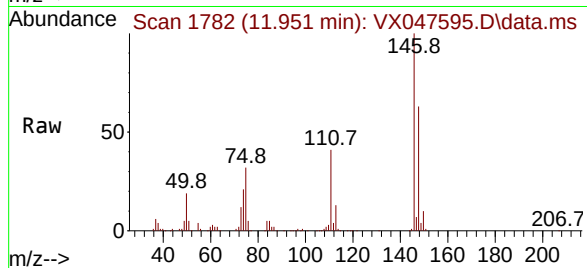
Tgt Ion:	146	Resp:	9812
Ion Ratio	Lower	Upper	
146	100		
111	42.1	21.5	64.5
148	63.7	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 17.505 ug/l

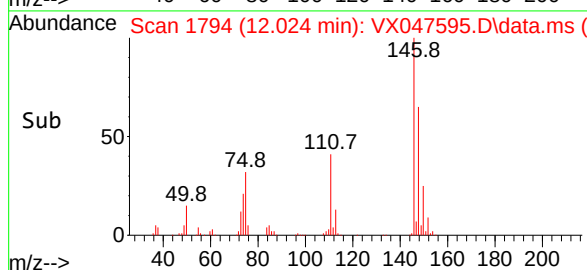
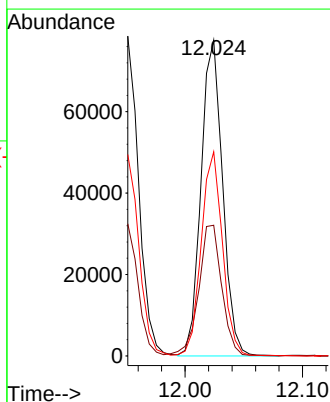
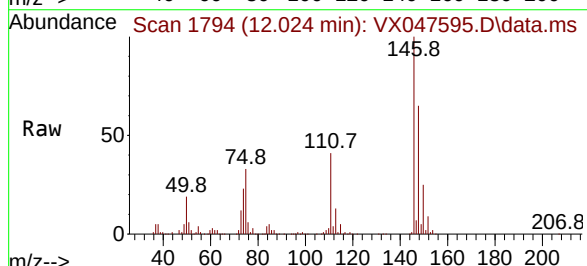
RT: 12.024 min Scan# 1794

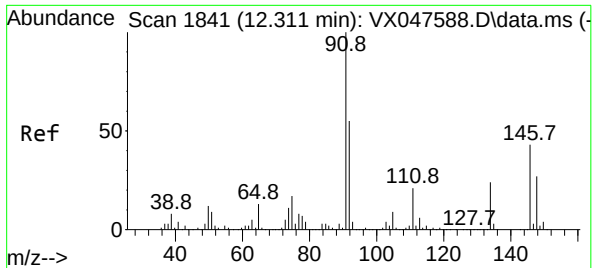
Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Tgt Ion:	146	Resp:	98890
Ion Ratio	Lower	Upper	
146	100		
111	44.2	20.8	62.4
148	64.0	31.7	95.1





#89

n-Butylbenzene

Concen: 17.988 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion: 91 Resp: 169374

Ion Ratio Lower Upper

91 100

92 53.2 27.6 82.7

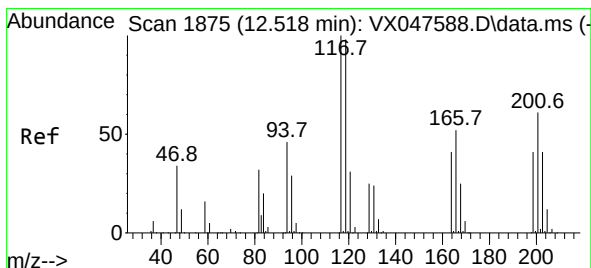
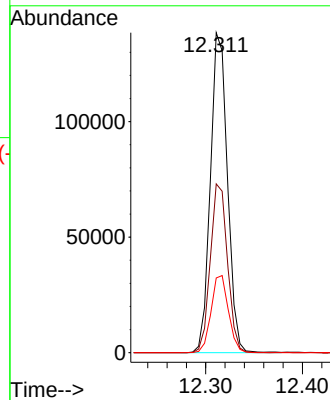
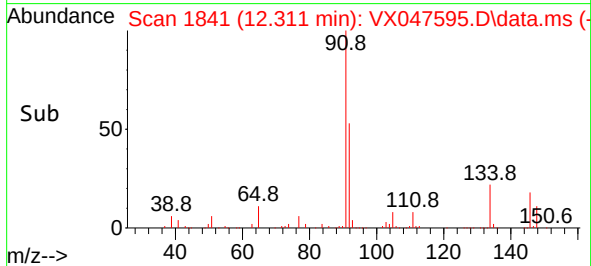
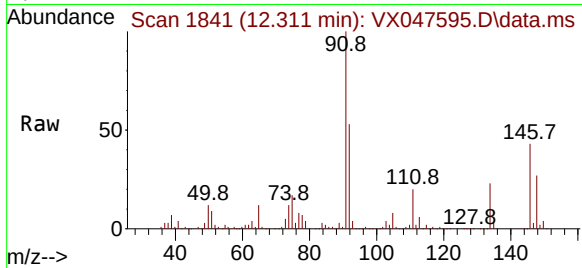
134 24.5 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 17.210 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VX047595.D

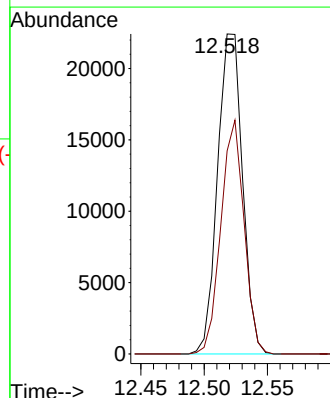
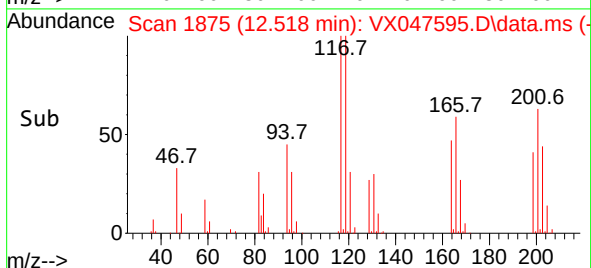
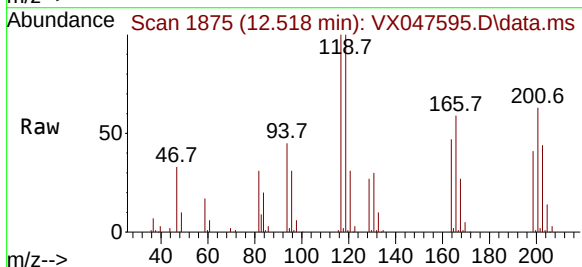
Acq: 16 Sep 2025 15:21

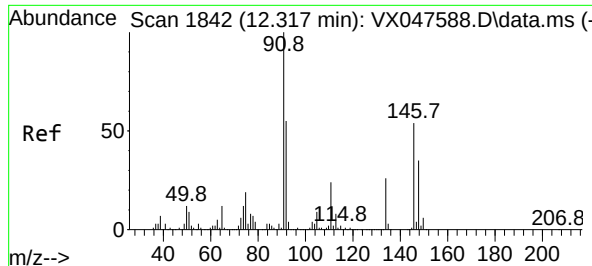
Tgt Ion:117 Resp: 30747

Ion Ratio Lower Upper

117 100

201 67.9 34.2 102.5





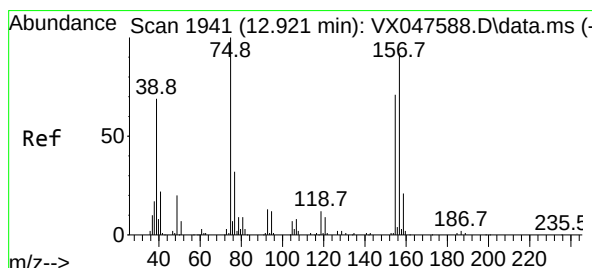
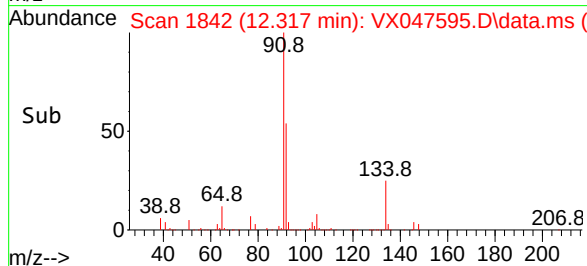
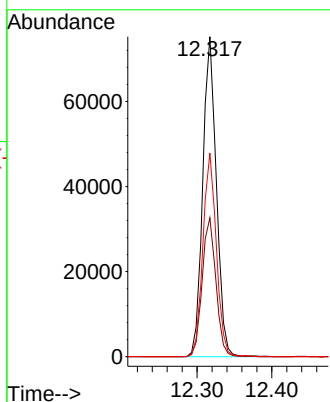
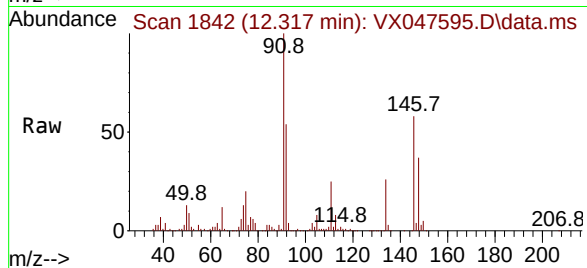
#91
1,2-Dichlorobenzene
Concen: 18.142 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Tgt Ion:146 Resp: 9513
Ion Ratio Lower Upper
146 100
111 43.8 22.2 66.6
148 62.9 31.8 95.4

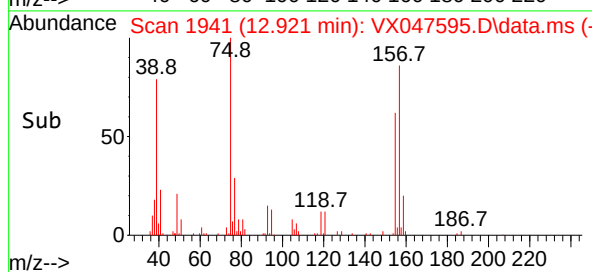
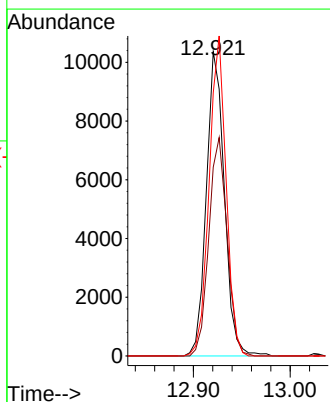
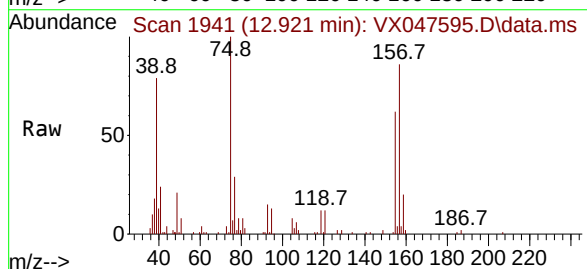
Manual Integrations
APPROVED

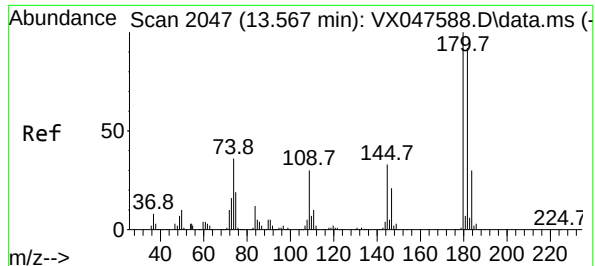
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.249 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 75 Resp: 13450
Ion Ratio Lower Upper
75 100
155 72.4 37.7 113.1
157 98.8 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 17.926 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

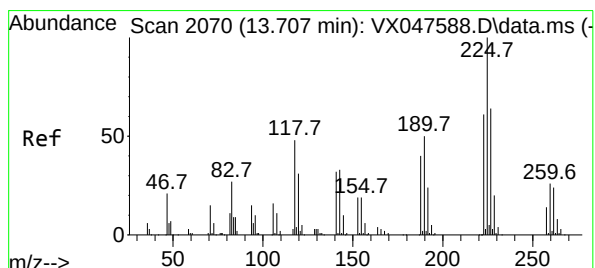
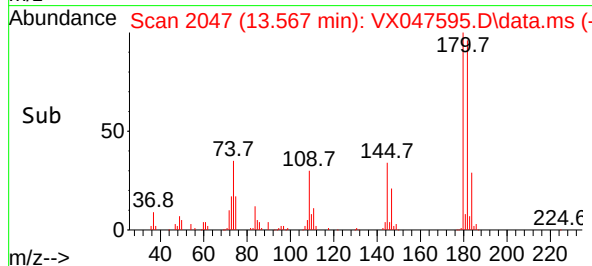
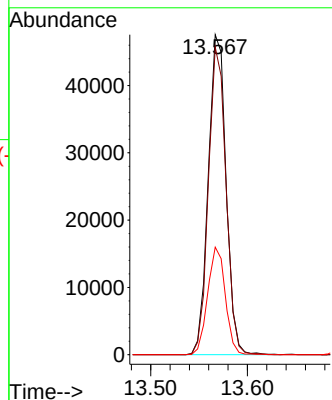
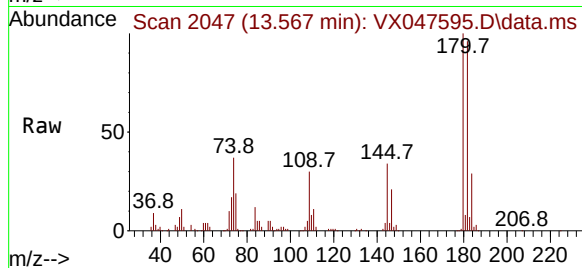
Tgt Ion:180	Resp:	6109
Ion Ratio	Lower	Upper
180	100	
182	94.5	46.6 139.8
145	33.3	16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 17.579 ug/l

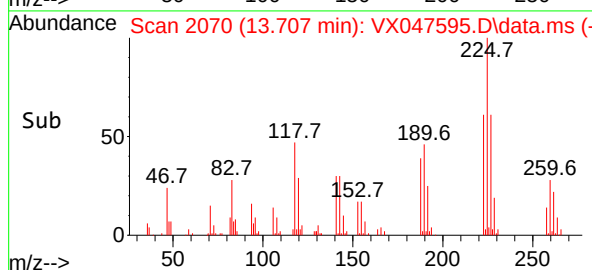
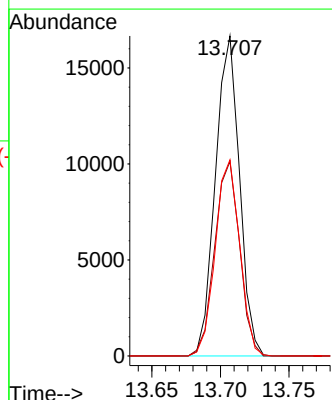
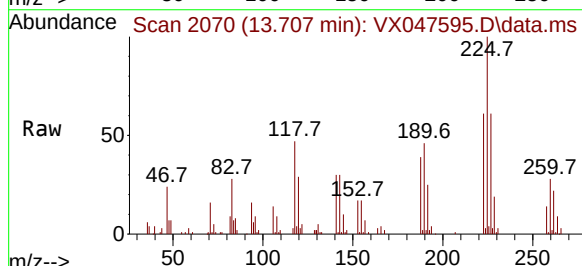
RT: 13.707 min Scan# 2070

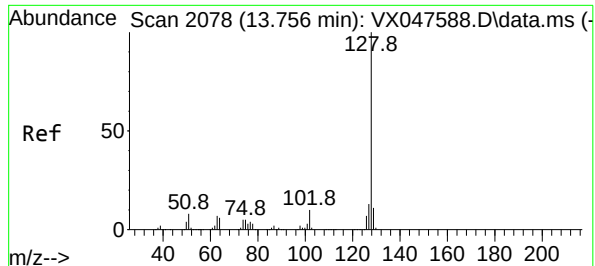
Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Tgt Ion:225	Resp:	20350
Ion Ratio	Lower	Upper
225	100	
223	62.8	31.7 95.1
227	62.2	32.0 96.0





#95

Naphthalene

Concen: 17.754 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBS01

Tgt Ion:128 Resp: 18425

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.2

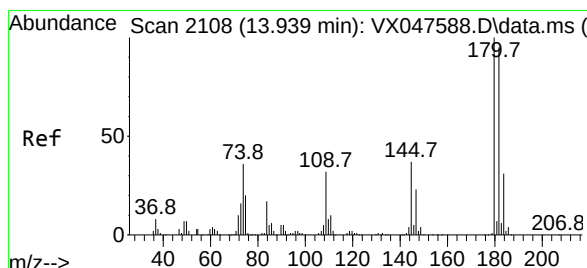
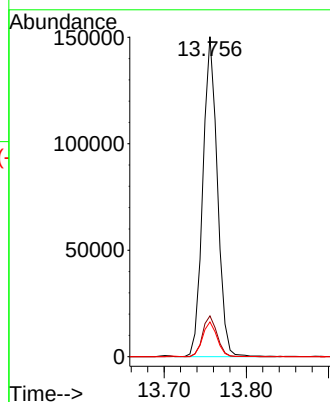
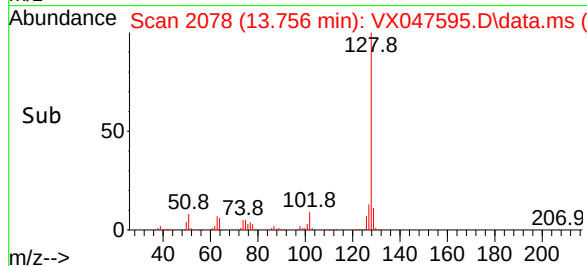
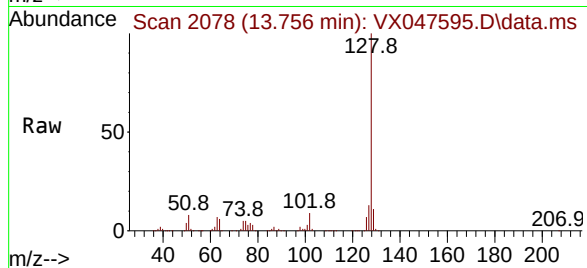
129 10.9 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#96

1,2,3-Trichlorobenzene

Concen: 17.758 ug/l

RT: 13.939 min Scan# 2108

Delta R.T. 0.000 min

Lab File: VX047595.D

Acq: 16 Sep 2025 15:21

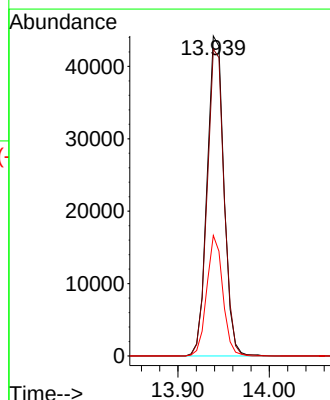
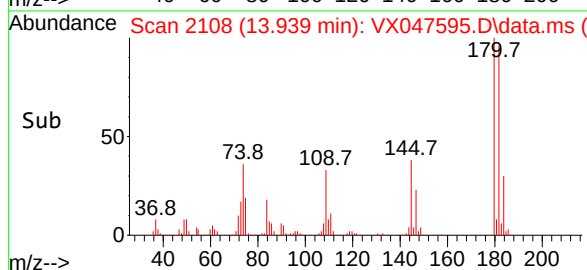
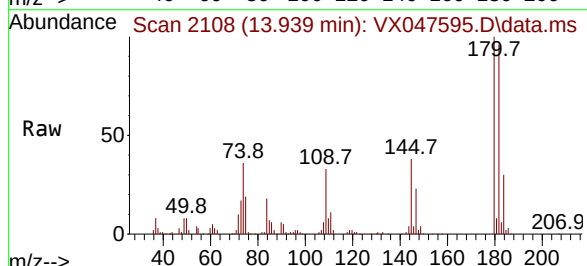
Tgt Ion:180 Resp: 56297

Ion Ratio Lower Upper

180 100

182 96.4 47.6 142.8

145 35.9 17.9 53.7



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VX0916WBSD01		SDG No.:	Q3015
Lab Sample ID:	VX0916WBSD01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047596.D	1	09/16/25 15:46	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.8		0.22	5.00	ug/L
74-87-3	Chloromethane	17.0		0.32	5.00	ug/L
75-01-4	Vinyl Chloride	18.3		0.26	5.00	ug/L
74-83-9	Bromomethane	20.0		1.40	5.00	ug/L
75-00-3	Chloroethane	18.6		0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	18.9		0.33	5.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	5.00	ug/L
107-02-8	Acrolein	95.1		7.10	25.0	ug/L
107-13-1	Acrylonitrile	110		0.83	25.0	ug/L
67-64-1	Acetone	82.6		1.50	25.0	ug/L
75-15-0	Carbon Disulfide	18.0		0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0		0.16	5.00	ug/L
75-09-2	Methylene Chloride	19.1		0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.23	5.00	ug/L
108-05-4	Vinyl Acetate	99.2		0.66	25.0	ug/L
75-34-3	1,1-Dichloroethane	19.5		0.23	5.00	ug/L
78-93-3	2-Butanone	98.8		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	5.00	ug/L
594-20-7	2,2-Dichloropropane	17.6		0.21	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.4		0.19	5.00	ug/L
74-97-5	Bromochloromethane	19.7		0.22	5.00	ug/L
67-66-3	Chloroform	20.0		0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.0		0.20	5.00	ug/L
563-58-6	1,1-Dichloropropene	19.5		0.15	5.00	ug/L
71-43-2	Benzene	19.5		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.22	5.00	ug/L
79-01-6	Trichloroethene	19.5		0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.20	5.00	ug/L
74-95-3	Dibromomethane	20.2		0.25	5.00	ug/L
75-27-4	Bromodichloromethane	19.9		0.22	5.00	ug/L

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	VX0916WBSD01		SDG No.:	Q3015
Lab Sample ID:	VX0916WBSD01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047596.D	1	09/16/25 15:46	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-10-1	4-Methyl-2-Pentanone	110		0.68	25.0	ug/L
108-88-3	Toluene	19.8		0.14	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.8		0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.3		0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.0		0.21	5.00	ug/L
142-28-9	1,3-Dichloropropane	20.6		0.19	5.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	85.5		0.30	25.0	ug/L
591-78-6	2-Hexanone	100		0.89	25.0	ug/L
124-48-1	Dibromochloromethane	20.1		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	20.6		0.15	5.00	ug/L
127-18-4	Tetrachloroethene	19.7		0.23	5.00	ug/L
108-90-7	Chlorobenzene	19.6		0.12	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	19.7		0.19	5.00	ug/L
67-72-1	Hexachloroethane	19.7		0.32	5.00	ug/L
100-41-4	Ethyl Benzene	19.8		0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	39.7		0.24	10.0	ug/L
1330-20-7	Total Xylenes	59.8		0.36	15.0	ug/L
95-47-6	o-Xylene	20.1		0.12	5.00	ug/L
100-42-5	Styrene	19.9		0.15	5.00	ug/L
75-25-2	Bromoform	20.2		0.19	5.00	ug/L
98-82-8	Isopropylbenzene	20.1		0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.4		0.26	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.6		0.35	5.00	ug/L
108-86-1	Bromobenzene	20.0		0.24	5.00	ug/L
103-65-1	n-propylbenzene	20.4		0.13	5.00	ug/L
95-49-8	2-Chlorotoluene	20.3		0.14	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.4		0.15	5.00	ug/L
106-43-4	4-Chlorotoluene	20.1		0.13	5.00	ug/L
98-06-6	tert-Butylbenzene	20.2		0.14	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.4		0.14	5.00	ug/L
135-98-8	sec-Butylbenzene	20.8		0.13	5.00	ug/L

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark			Date Collected:	
Project:	NJ Waste Water PT			Date Received:	
Client Sample ID:	VX0916WBSD01			SDG No.:	Q3015
Lab Sample ID:	VX0916WBSD01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047596.D	1	09/16/25 15:46	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	20.6		0.13	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.4		0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.8		0.19	5.00	ug/L
104-51-8	n-Butylbenzene	20.9		0.15	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.3		0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.2		0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.5		0.20	5.00	ug/L
87-68-3	Hexachlorobutadiene	21.5		0.30	5.00	ug/L
91-20-3	Naphthalene	20.5		0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.9		0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	182000	5.538			
540-36-3	1,4-Difluorobenzene	326000	6.745			
3114-55-4	Chlorobenzene-d5	291000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	139000	12.006			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047596.D
 Acq On : 16 Sep 2025 15:46
 Operator : JC/MD
 Sample : VX0916WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:50:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	181929	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	325791	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	290596	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	138945	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	143852	49.675	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	99.360%		
35) Dibromofluoromethane	5.373	113	110341	50.501	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.000%		
50) Toluene-d8	8.635	98	381352	50.441	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	100.880%		
62) 4-Bromofluorobenzene	11.061	95	143314	49.948	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.900%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	33541	17.804	ug/l	98
3) Chloromethane	1.301	50	42090	16.999	ug/l	99
4) Vinyl Chloride	1.380	62	44278	18.269	ug/l	99
5) Bromomethane	1.618	94	30788	20.033	ug/l	100
6) Chloroethane	1.697	64	30116	18.591	ug/l	100
7) Trichlorofluoromethane	1.898	101	68166	18.942	ug/l	98
8) Diethyl Ether	2.136	74	28743	19.525	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	41009	19.489	ug/l	97
10) Methyl Iodide	2.453	142	58682	17.881	ug/l	99
11) Tert butyl alcohol	2.941	59	33012	102.356	ug/l	99
12) 1,1-Dichloroethene	2.325	96	41456	19.179	ug/l	99
13) Acrolein	2.233	56	28260	95.085	ug/l	99
14) Allyl chloride	2.666	41	82879	18.581	ug/l	98
15) Acrylonitrile	3.056	53	125531	105.079	ug/l	98
16) Acetone	2.374	43	103981	82.582	ug/l	100
17) Carbon Disulfide	2.514	76	106786	18.046	ug/l	99
18) Methyl Acetate	2.697	43	62108	22.164	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	158142	20.042	ug/l	97
20) Methylene Chloride	2.788	84	50905	19.100	ug/l	91
21) trans-1,2-Dichloroethene	3.093	96	44282	19.029	ug/l	98
22) Diisopropyl ether	3.751	45	172494	19.955	ug/l	98
23) Vinyl Acetate	3.709	43	686393	99.213	ug/l	98
24) 1,1-Dichloroethane	3.605	63	89388	19.455	ug/l	98
25) 2-Butanone	4.538	43	155163	98.792	ug/l	100
26) 2,2-Dichloropropane	4.459	77	67250	17.608	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	55188	19.365	ug/l	99
28) Bromochloromethane	4.879	49	39542	19.714	ug/l	99
29) Tetrahydrofuran	4.983	42	100103	105.947	ug/l	99
30) Chloroform	5.074	83	92774	19.982	ug/l	98
31) Cyclohexane	5.458	56	74519	19.474	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	78616	19.963	ug/l	99
36) 1,1-Dichloropropene	5.678	75	62129	19.460	ug/l	100
37) Ethyl Acetate	4.696	43	65824	19.255	ug/l	99
38) Carbon Tetrachloride	5.666	117	67477	19.452	ug/l	97
39) Methylcyclohexane	7.367	83	71729	19.792	ug/l	98
40) Benzene	6.019	78	188914	19.482	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047596.D
 Acq On : 16 Sep 2025 15:46
 Operator : JC/MD
 Sample : VX0916WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:50:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	37973	21.517	ug/l	96
42) 1,2-Dichloroethane	6.068	62	72019	19.519	ug/l	100
43) Isopropyl Acetate	6.318	43	114850	20.485	ug/l	99
44) Trichloroethene	7.111	130	45822	19.545	ug/l	95
45) 1,2-Dichloropropane	7.409	63	49402	19.896	ug/l	98
46) Dibromomethane	7.568	93	36432	20.163	ug/l	100
47) Bromodichloromethane	7.806	83	74310	19.929	ug/l	98
48) Methyl methacrylate	7.678	41	57119	20.453	ug/l	99
49) 1,4-Dioxane	7.647	88	12568	445.313	ug/l	95
51) 4-Methyl-2-Pentanone	8.555	43	334554	107.626	ug/l	99
52) Toluene	8.702	92	118098	19.768	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	75376	19.819	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	78552	19.323	ug/l	100
55) 1,1,2-Trichloroethane	9.135	97	45960	19.951	ug/l	98
56) Ethyl methacrylate	9.098	69	75840	20.963	ug/l	97
57) 1,3-Dichloropropane	9.293	76	81467	20.586	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	134952	85.465	ug/l	100
59) 2-Hexanone	9.415	43	229946	102.998	ug/l	99
60) Dibromochloromethane	9.507	129	53277	20.072	ug/l	98
61) 1,2-Dibromoethane	9.592	107	48384	20.620	ug/l	99
64) Tetrachloroethene	9.257	164	37273	19.676	ug/l	98
65) Chlorobenzene	10.061	112	129302	19.586	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	44780	19.657	ug/l	99
67) Ethyl Benzene	10.177	91	225886	19.830	ug/l	100
68) m/p-Xylenes	10.287	106	168342	39.705	ug/l	99
69) o-Xylene	10.622	106	82454	20.107	ug/l	99
70) Styrene	10.640	104	143120	19.918	ug/l	99
71) Bromoform	10.781	173	34379	20.211	ug/l #	97
73) Isopropylbenzene	10.945	105	212387	20.106	ug/l	99
74) N-amyl acetate	10.823	43	101337	21.037	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	65156	20.387	ug/l	99
76) 1,2,3-Trichloropropane	11.220	75	52267m	18.579	ug/l	
77) Bromobenzene	11.183	156	51964	19.973	ug/l	99
78) n-propylbenzene	11.287	91	254737	20.400	ug/l	100
79) 2-Chlorotoluene	11.348	91	155389	20.317	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	177272	20.426	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	20638	18.708	ug/l	97
82) 4-Chlorotoluene	11.439	91	181551	20.099	ug/l	100
83) tert-Butylbenzene	11.695	119	179765	20.234	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	179835	20.438	ug/l	100
85) sec-Butylbenzene	11.872	105	219002	20.753	ug/l	100
86) p-Isopropyltoluene	11.994	119	183853	20.579	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	98732	20.431	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	98157	19.791	ug/l	99
89) n-Butylbenzene	12.311	91	172398	20.855	ug/l	99
90) Hexachloroethane	12.518	117	30936	19.723	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	93305	20.267	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	13089	20.228	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	61351	20.504	ug/l	99
94) Hexachlorobutadiene	13.707	225	21855	21.504	ug/l	99
95) Naphthalene	13.756	128	186510	20.470	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	58065	20.862	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047596.D
Acq On : 16 Sep 2025 15:46
Operator : JC/MD
Sample : VX0916WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:50:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

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

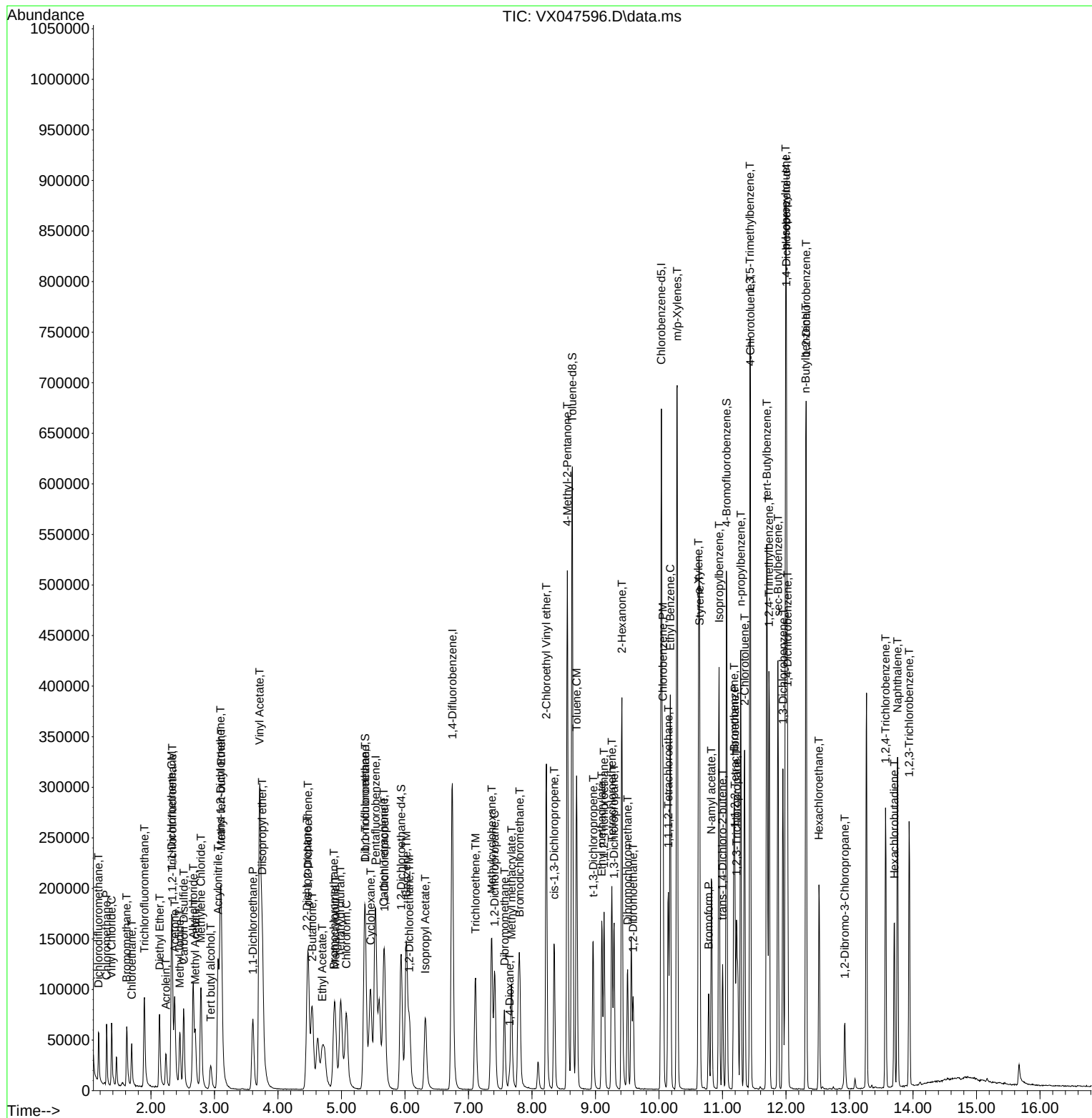
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\  
Data File : VX047596.D  
Acq On    : 16 Sep 2025 15:46  
Operator  : JC/MD  
Sample    : VX0916WBSD01  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 14 Sample Multiplier: 1
```

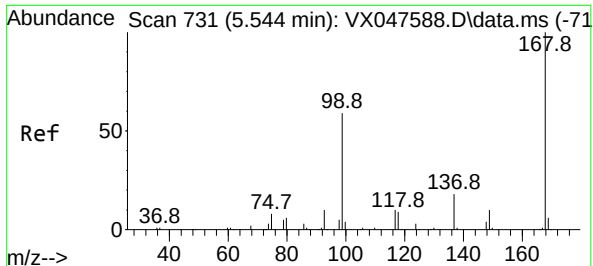
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:50:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration





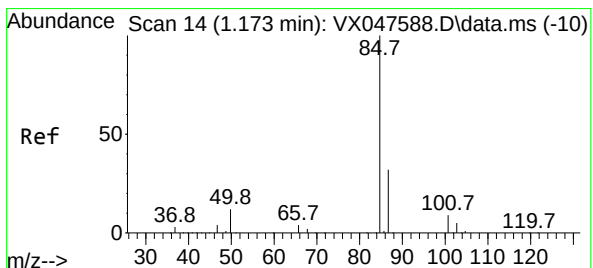
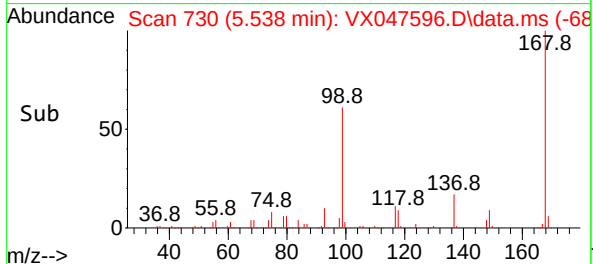
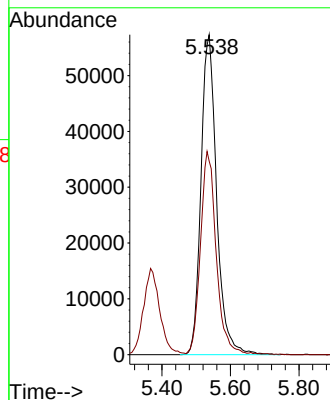
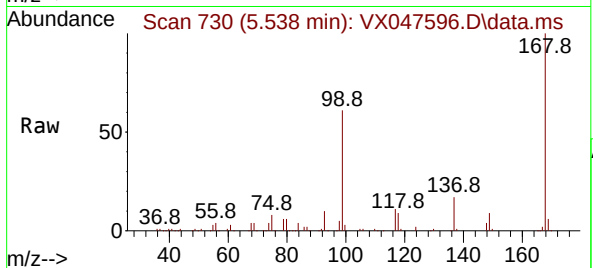
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Tgt Ion:168 Resp: 181929
Ion Ratio Lower Upper
168 100
99 60.3 48.8 73.2

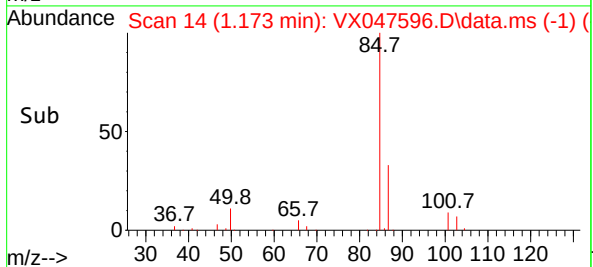
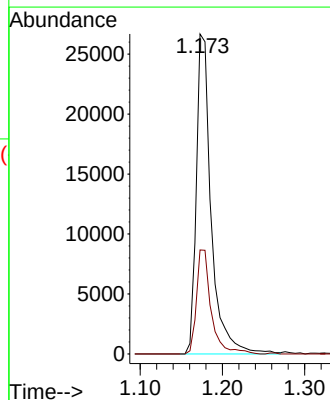
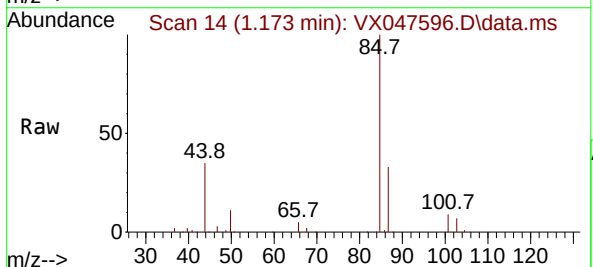
Manual Integrations
APPROVED

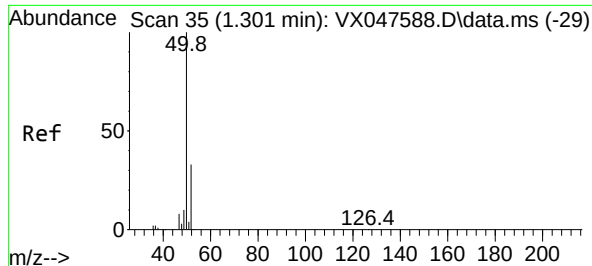
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 17.804 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

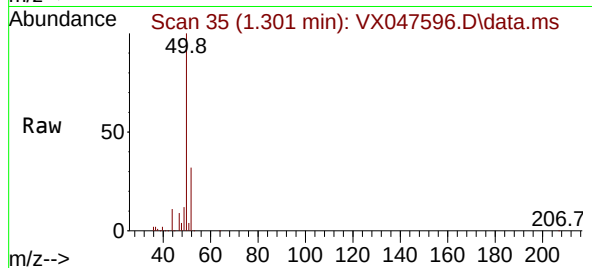
Tgt Ion: 85 Resp: 33541
Ion Ratio Lower Upper
85 100
87 32.5 15.8 47.3





#3
Chloromethane
Concen: 16.999 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

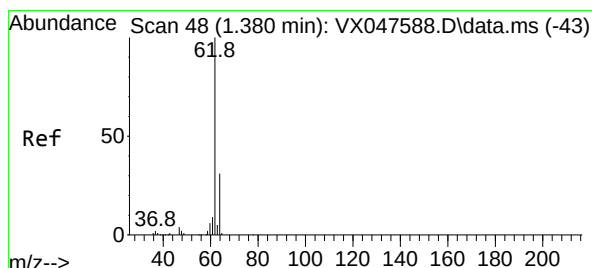
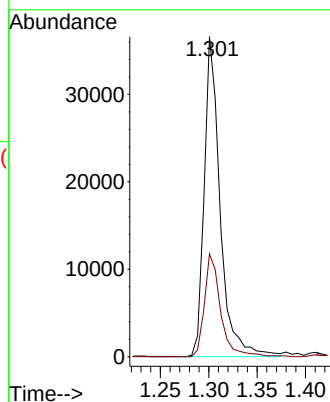
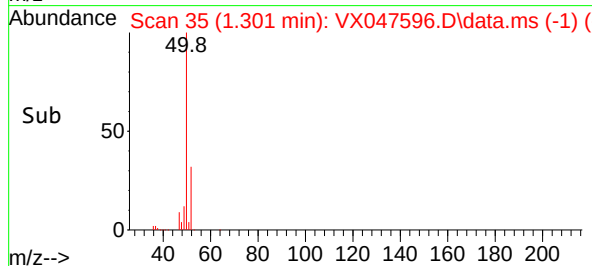
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



Tgt Ion: 50 Resp: 42090
Ion Ratio Lower Upper
50 100
52 32.2 26.1 39.1

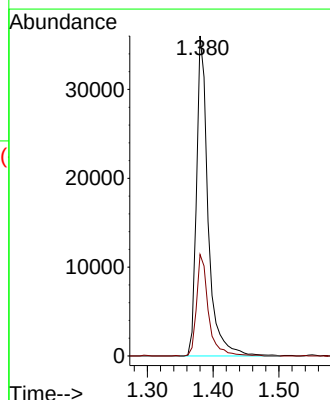
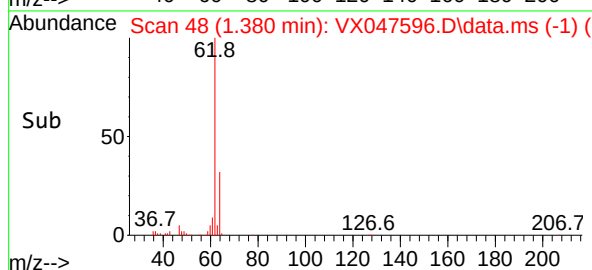
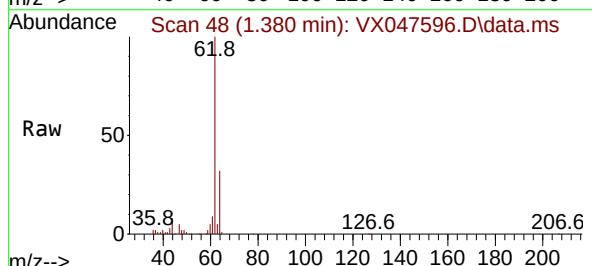
Manual Integrations
APPROVED

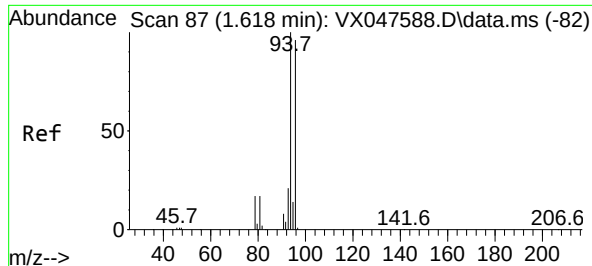
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 18.269 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

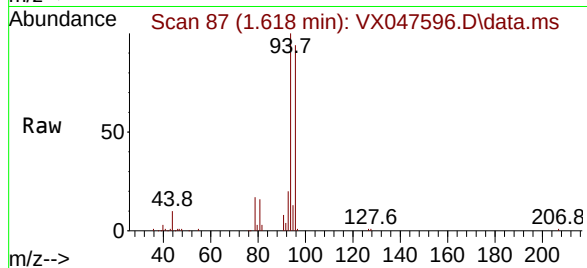
Tgt Ion: 62 Resp: 44278
Ion Ratio Lower Upper
62 100
64 31.7 24.9 37.3





#5
Bromomethane
Concen: 20.033 ug/l
RT: 1.618 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

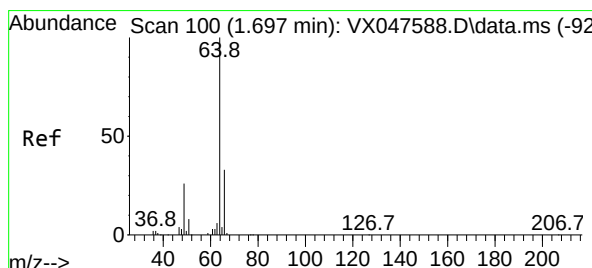
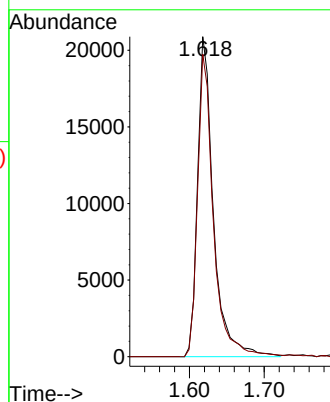
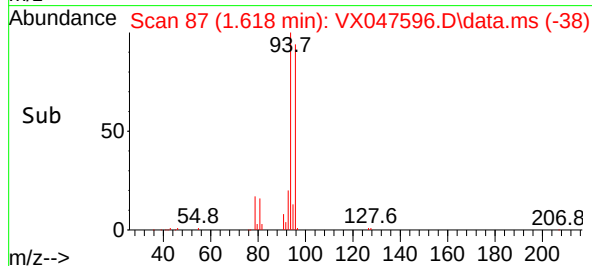
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



Tgt Ion: 94 Resp: 3078
Ion Ratio Lower Upper
94 100
96 95.7 76.6 115.0

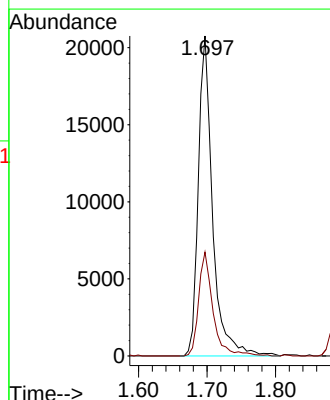
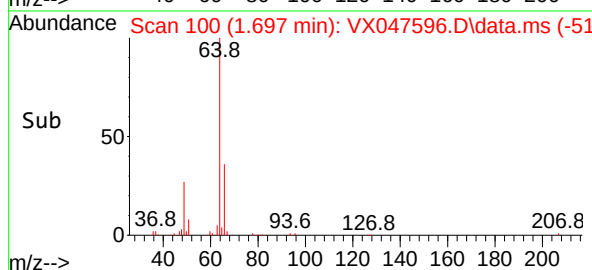
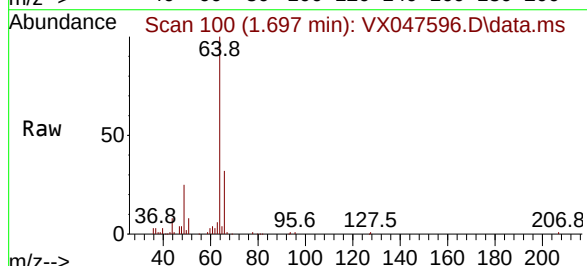
Manual Integrations
APPROVED

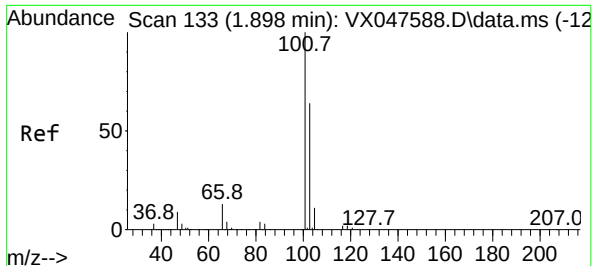
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 18.591 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

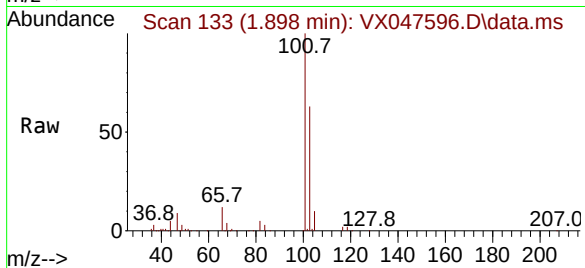
Tgt Ion: 64 Resp: 30116
Ion Ratio Lower Upper
64 100
66 32.5 26.1 39.1





#7
Trichlorofluoromethane
Concen: 18.942 ug/l
RT: 1.898 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

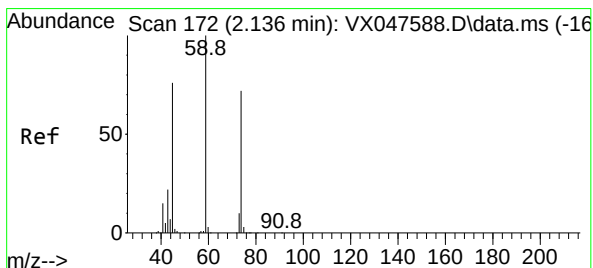
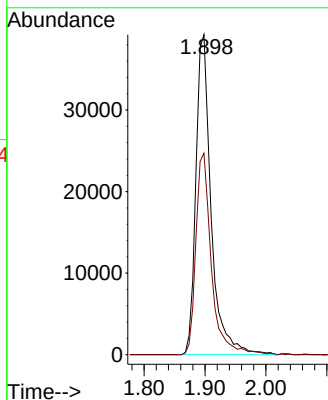
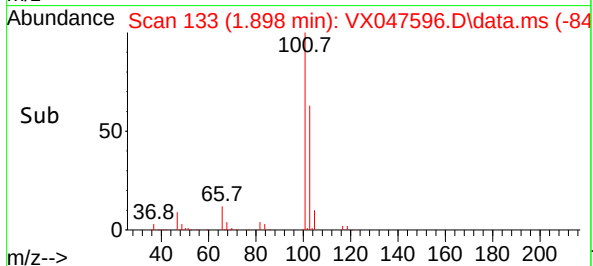
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



Tgt Ion:101 Resp: 6816
Ion Ratio Lower Upper
101 100
103 63.0 51.4 77.2

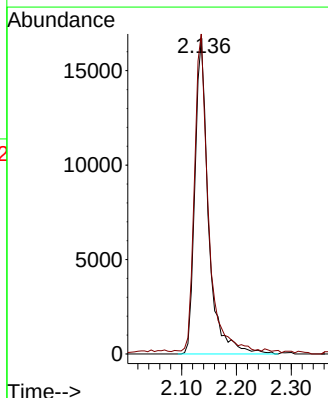
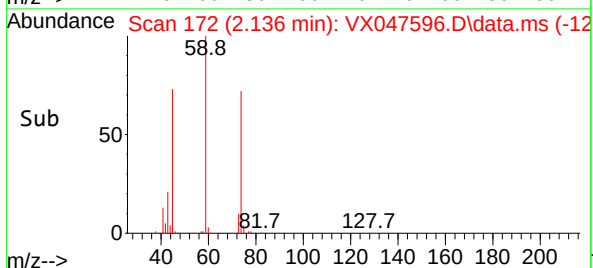
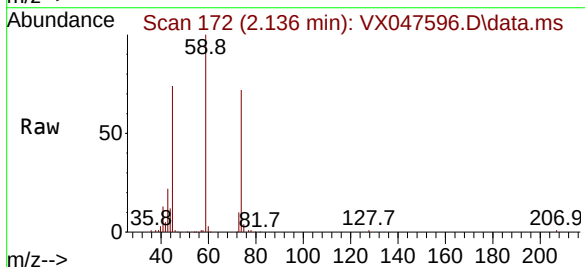
Manual Integrations
APPROVED

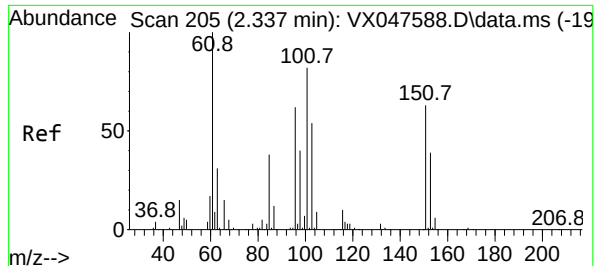
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 19.525 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 74 Resp: 28743
Ion Ratio Lower Upper
74 100
45 102.7 52.3 156.8





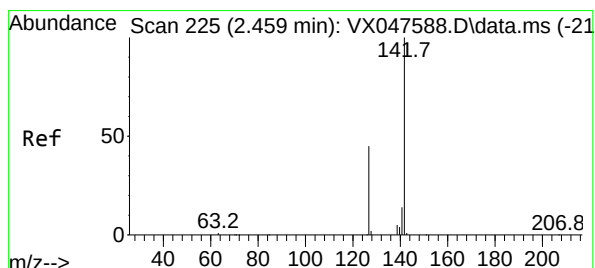
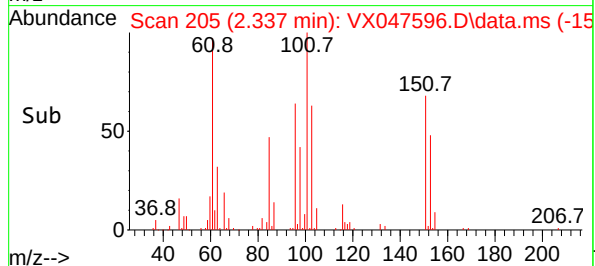
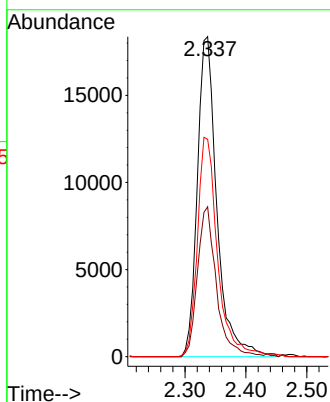
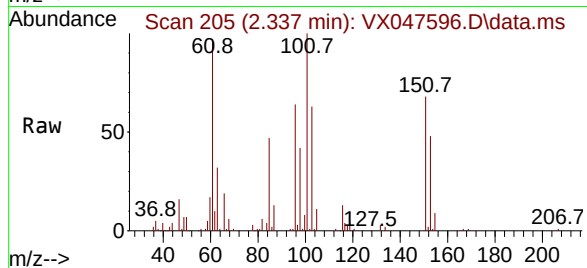
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.489 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Tgt Ion:101 Resp: 41009
Ion Ratio Lower Upper
101 100
85 45.5 35.5 53.3
151 70.8 59.4 89.0

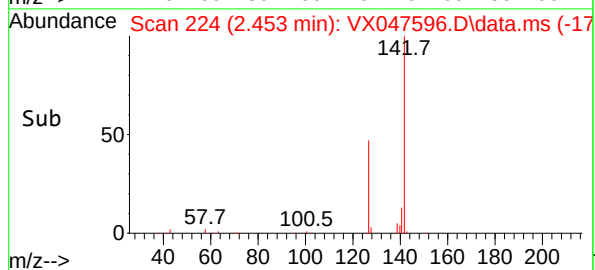
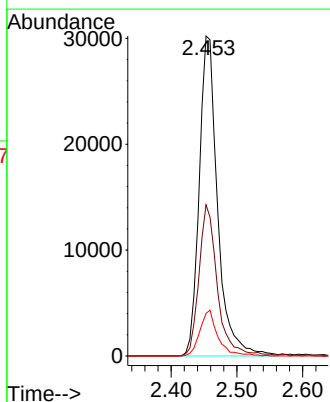
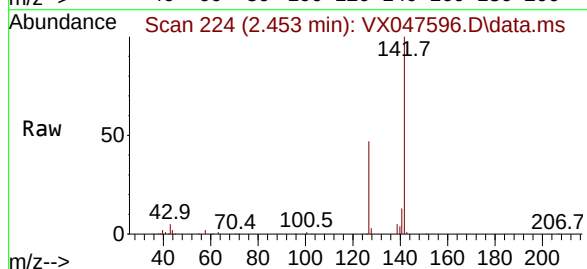
Manual Integrations
APPROVED

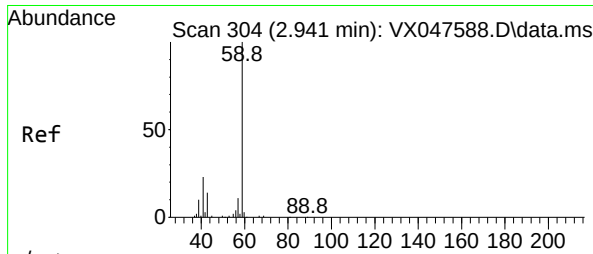
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#10
Methyl Iodide
Concen: 17.881 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:142 Resp: 58682
Ion Ratio Lower Upper
142 100
127 47.2 37.2 55.8
141 14.0 11.4 17.0





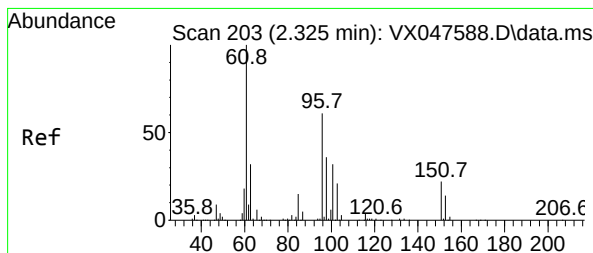
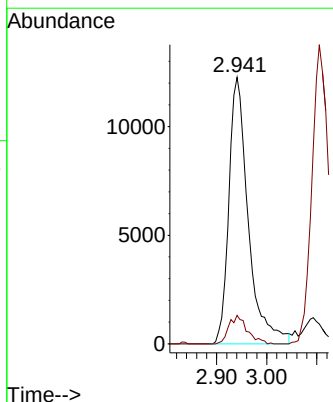
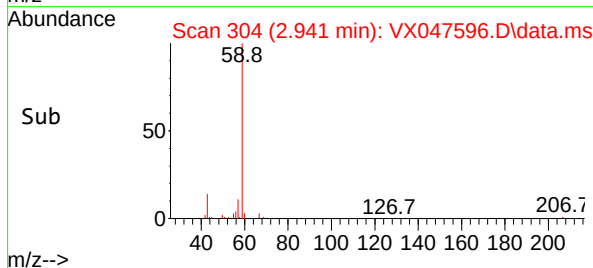
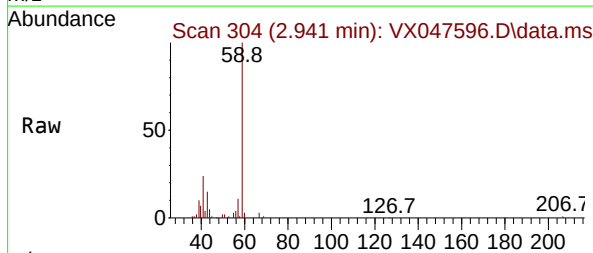
#11
Tert butyl alcohol
Concen: 102.356 ug/l
RT: 2.941 min Scan# 304
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Tgt Ion: 59 Resp: 3301
Ion Ratio Lower Upper
59 100
57 10.1 8.3 12.5

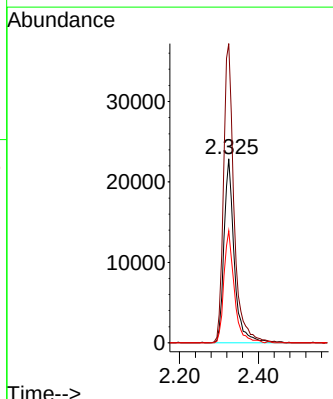
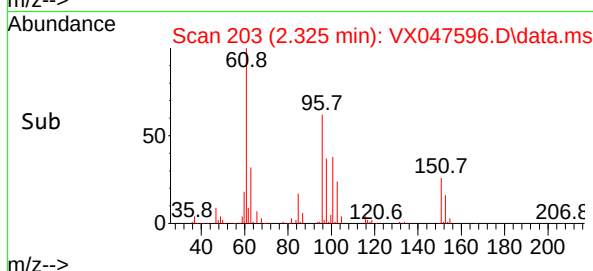
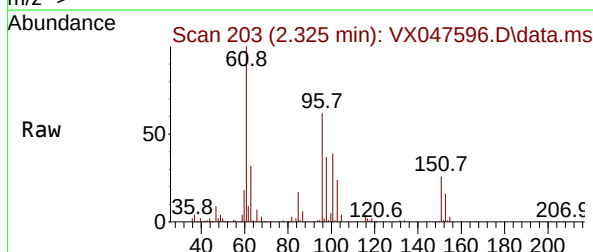
Manual Integrations
APPROVED

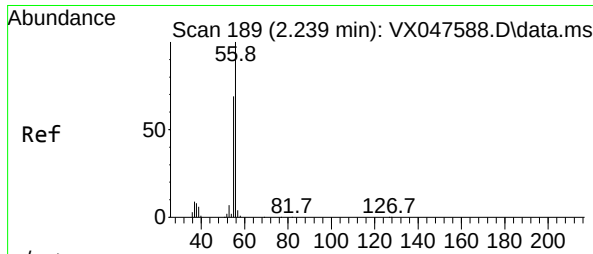
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#12
1,1-Dichloroethene
Concen: 19.179 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 96 Resp: 41456
Ion Ratio Lower Upper
96 100
61 162.6 131.0 196.6
98 60.8 47.7 71.5





#13

Acrolein

Concen: 95.085 ug/l

RT: 2.233 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 56 Resp: 2826

Ion Ratio Lower Upper

56 100

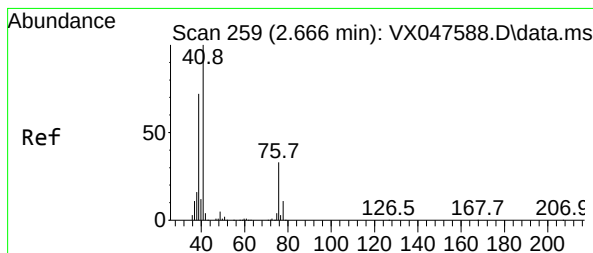
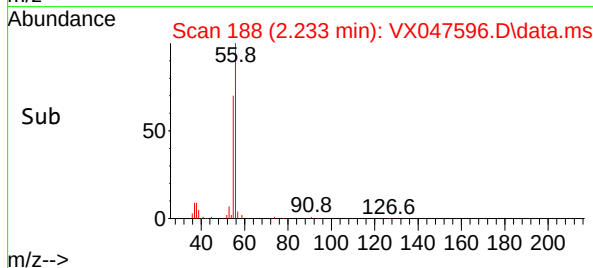
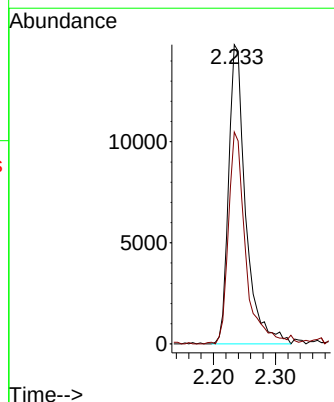
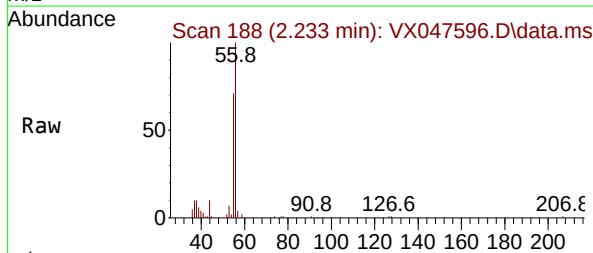
55 71.0 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 18.581 ug/l

RT: 2.666 min Scan# 259

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

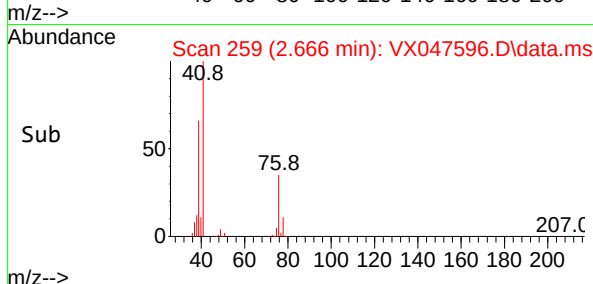
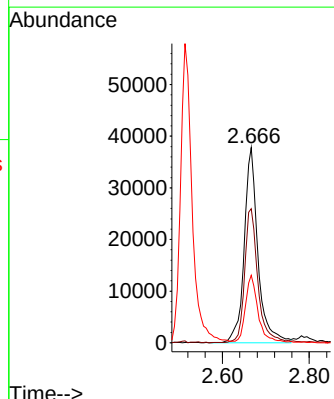
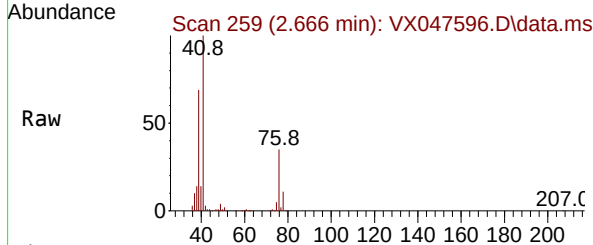
Tgt Ion: 41 Resp: 82879

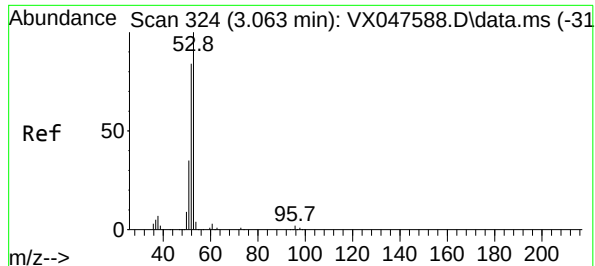
Ion Ratio Lower Upper

41 100

39 66.2 54.7 82.1

76 31.2 25.7 38.5





#15

Acrylonitrile

Concen: 105.079 ug/l

RT: 3.056 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 53 Resp: 12553

Ion Ratio Lower Upper

53 100

52 81.5 66.4 99.6

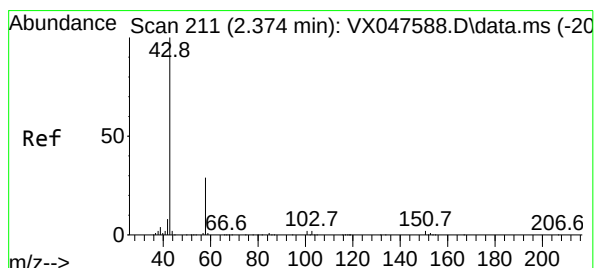
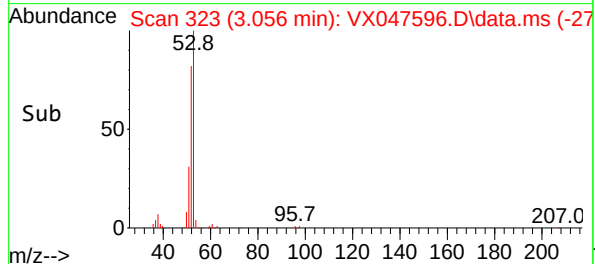
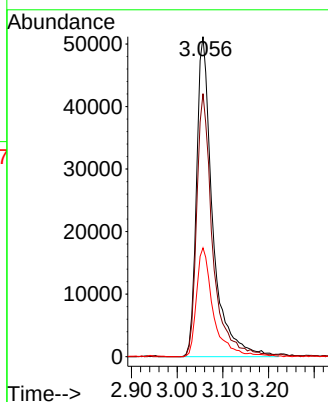
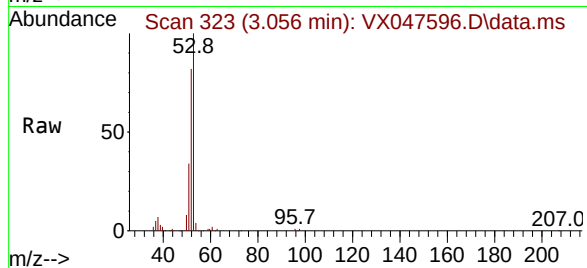
51 35.7 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 82.582 ug/l

RT: 2.374 min Scan# 211

Delta R.T. 0.000 min

Lab File: VX047596.D

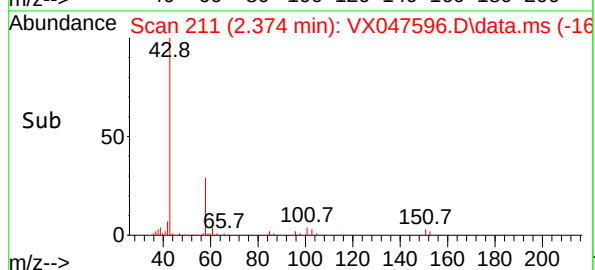
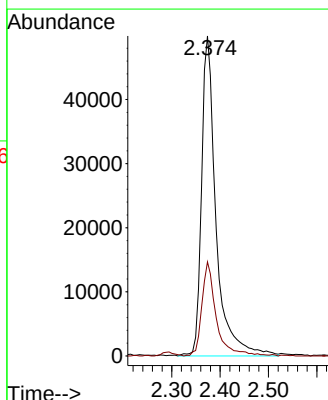
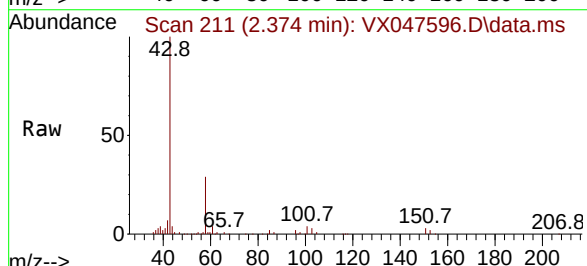
Acq: 16 Sep 2025 15:46

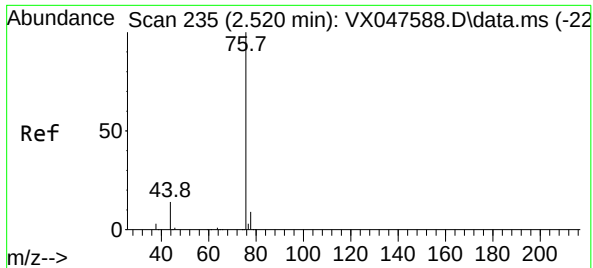
Tgt Ion: 43 Resp: 103981

Ion Ratio Lower Upper

43 100

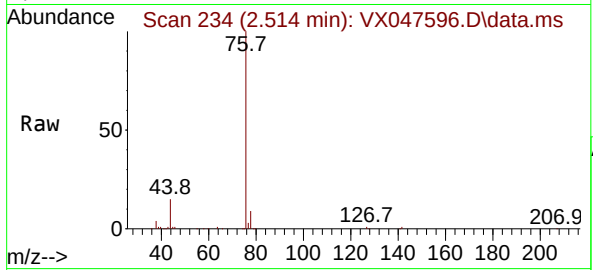
58 29.4 23.4 35.0





#17
Carbon Disulfide
Concen: 18.046 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

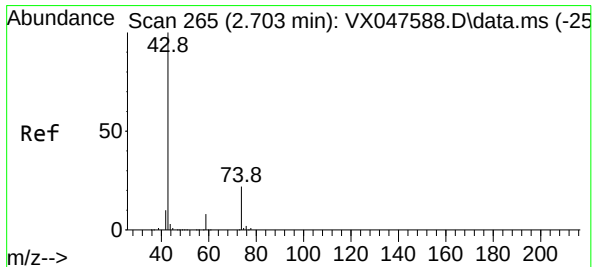
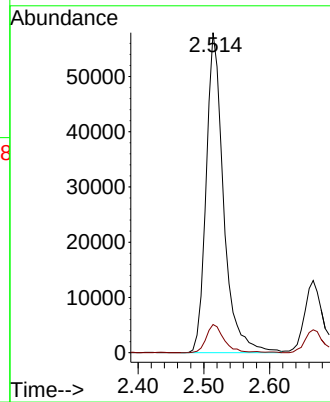
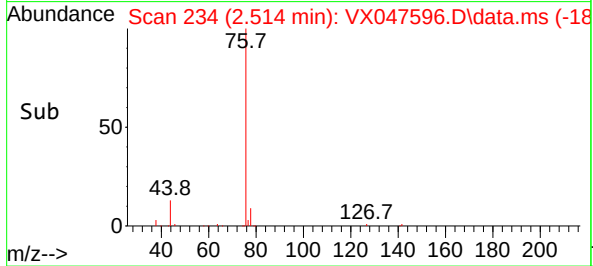
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



Tgt Ion: 76 Resp: 106780
Ion Ratio Lower Upper
76 100
78 8.8 6.8 10.2

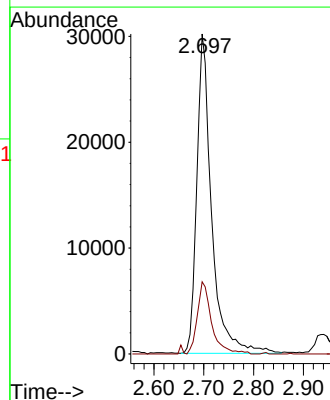
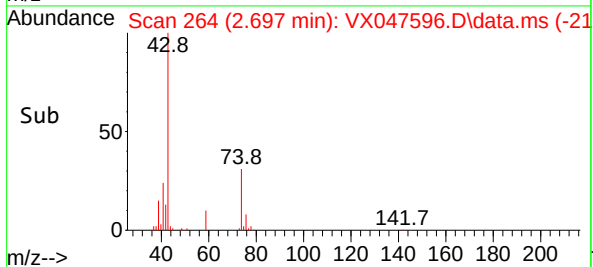
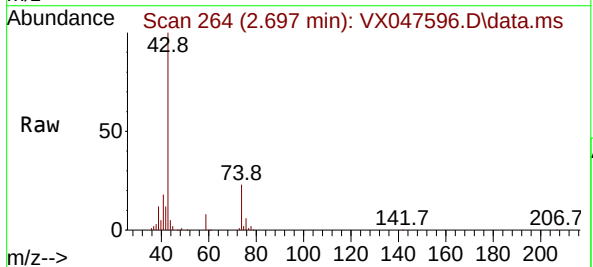
Manual Integrations
APPROVED

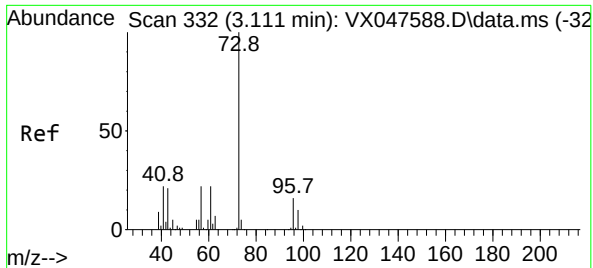
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#18
Methyl Acetate
Concen: 22.164 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

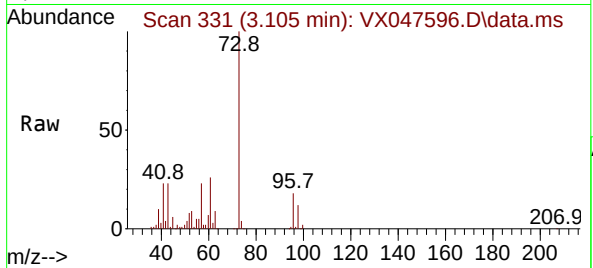
Tgt Ion: 43 Resp: 62108
Ion Ratio Lower Upper
43 100
74 21.9 17.4 26.2





#19
Methyl tert-butyl Ether
Concen: 20.042 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

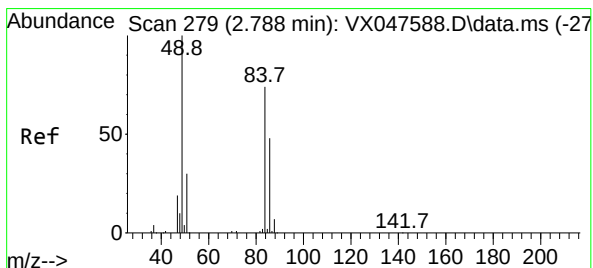
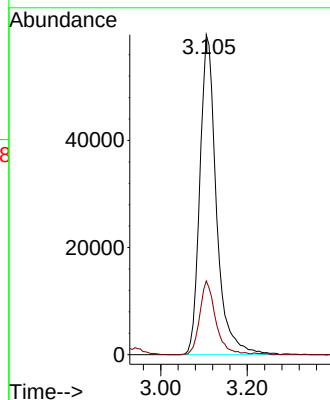
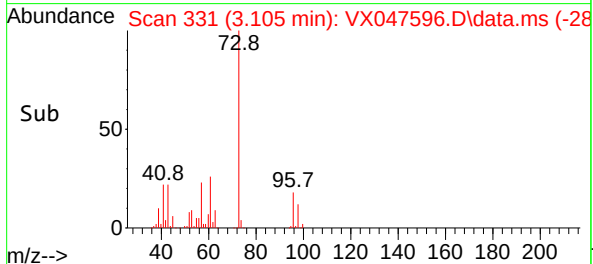
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



Tgt Ion: 73 Resp: 15814
Ion Ratio Lower Upper
73 100
57 23.1 17.4 26.2

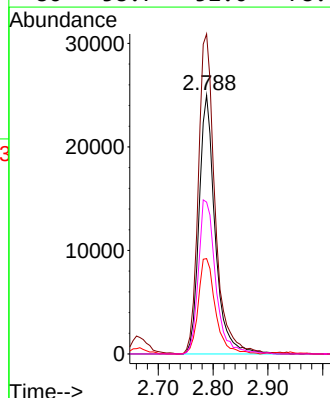
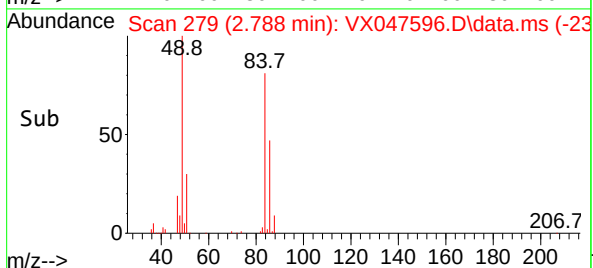
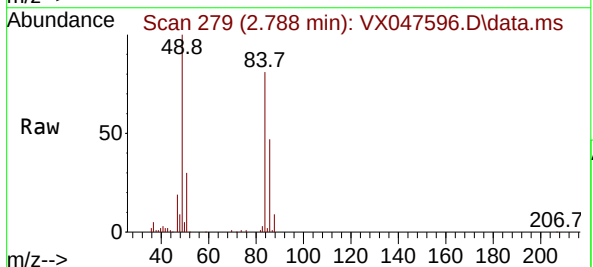
Manual Integrations
APPROVED

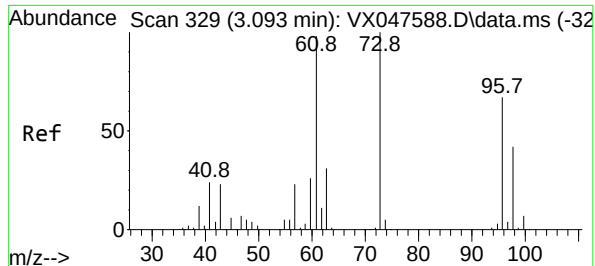
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#20
Methylene Chloride
Concen: 19.100 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 84 Resp: 50905
Ion Ratio Lower Upper
84 100
49 123.7 108.6 162.8
51 36.9 32.6 48.8
86 58.7 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 19.029 ug/l

RT: 3.093 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 96 Resp: 4428

Ion Ratio Lower Upper

96 100

61 143.7 116.2 174.2

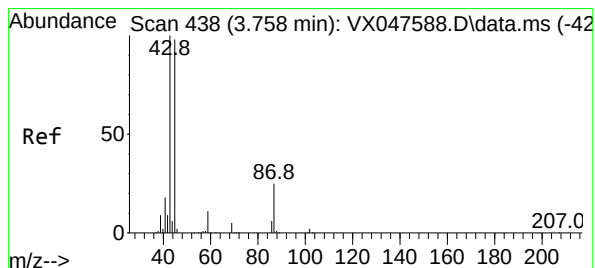
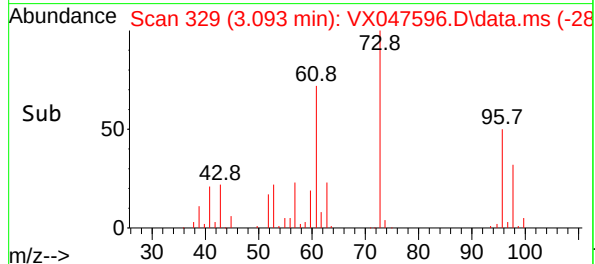
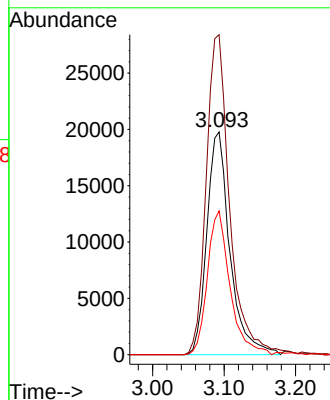
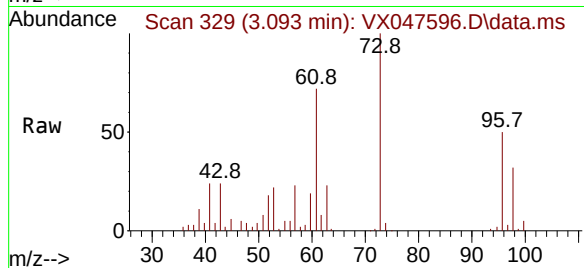
98 64.5 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#22

Diisopropyl ether

Concen: 19.955 ug/l

RT: 3.751 min Scan# 437

Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Tgt Ion: 45 Resp: 172494

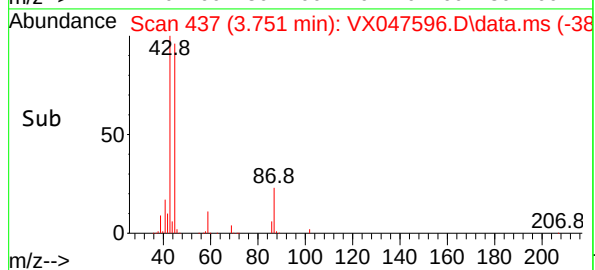
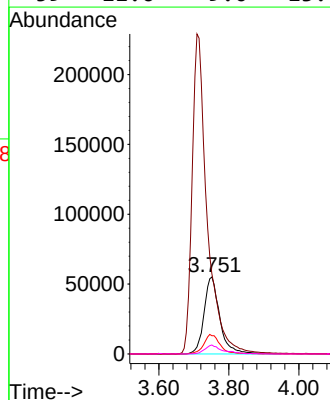
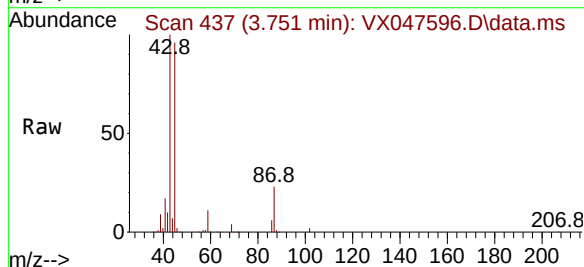
Ion Ratio Lower Upper

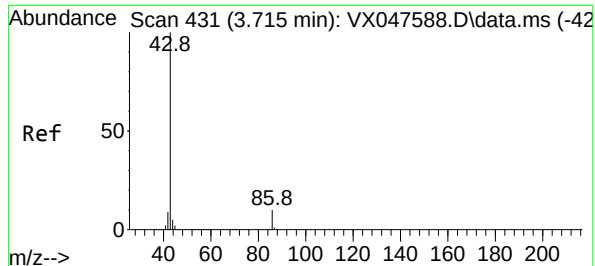
45 100

43 103.6 81.0 121.4

87 23.6 20.3 30.5

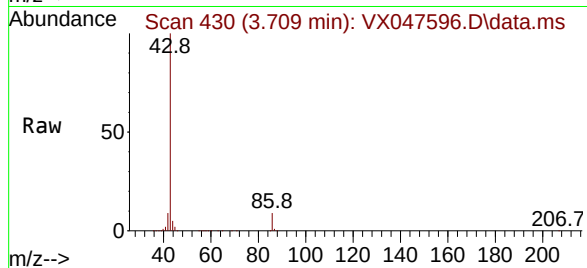
59 11.6 9.0 13.4





#23
Vinyl Acetate
Concen: 99.213 ug/l
RT: 3.709 min Scan# 413
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

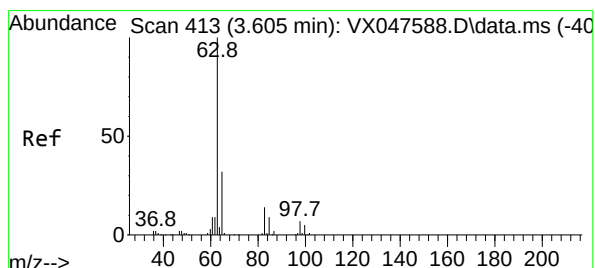
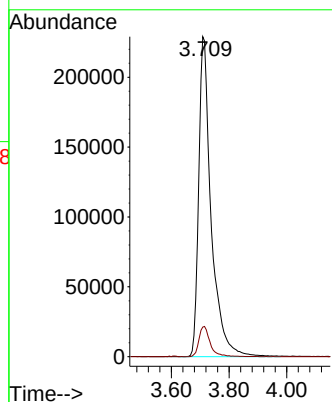
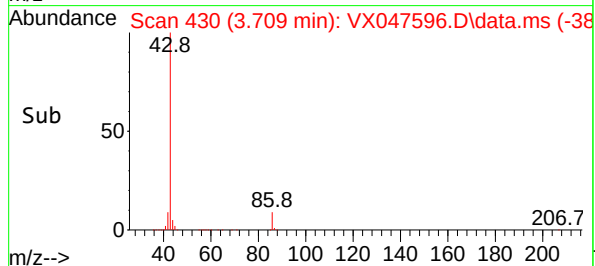
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



Tgt Ion: 43 Resp: 68639
Ion Ratio Lower Upper
43 100
86 9.2 7.8 11.8

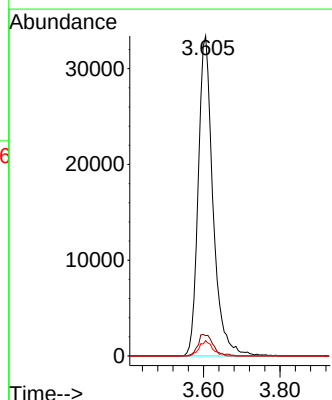
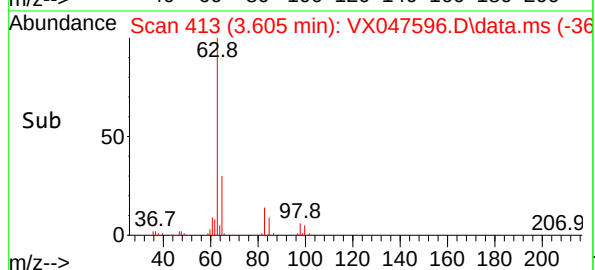
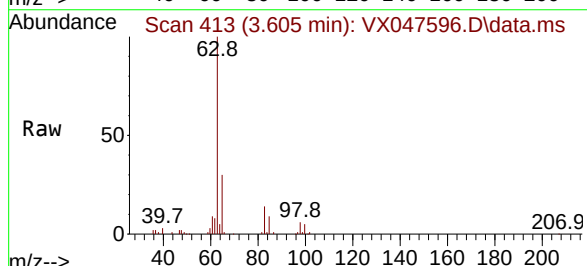
Manual Integrations
APPROVED

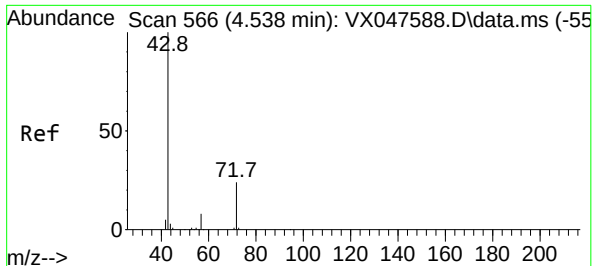
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#24
1,1-Dichloroethane
Concen: 19.455 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 63 Resp: 89388
Ion Ratio Lower Upper
63 100
98 6.4 3.8 11.2
100 4.8 2.3 6.9





#25

2-Butanone

Concen: 98.792 ug/l

RT: 4.538 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 43 Resp: 15516

Ion Ratio Lower Upper

43 100

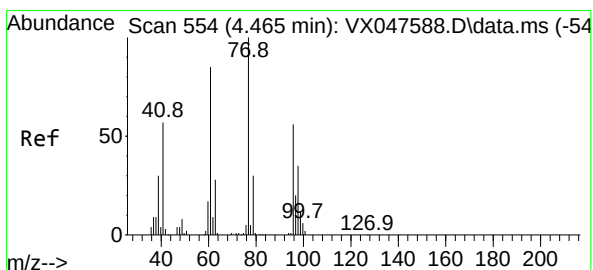
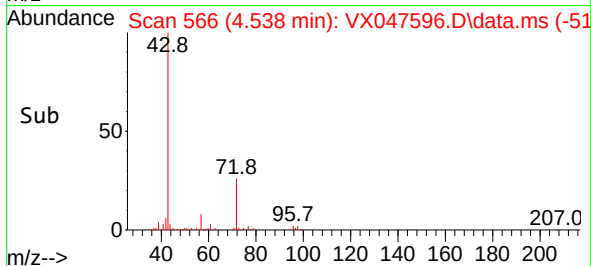
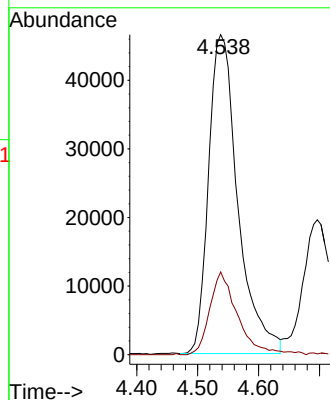
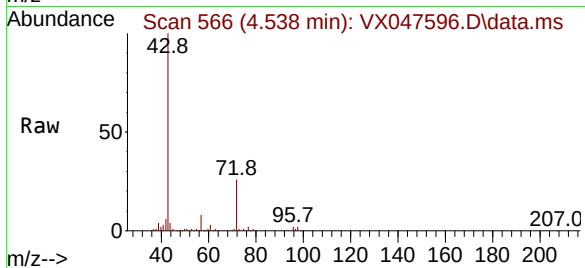
72 24.9 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 17.608 ug/l

RT: 4.459 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX047596.D

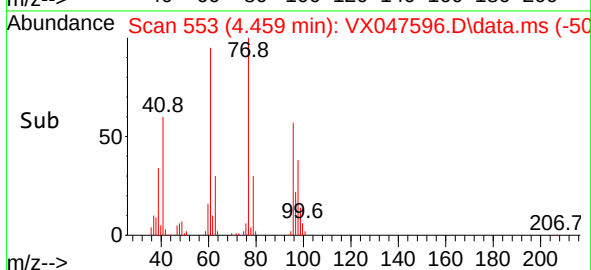
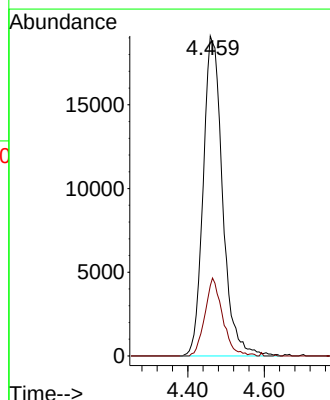
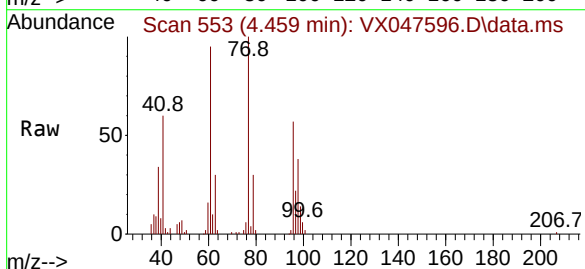
Acq: 16 Sep 2025 15:46

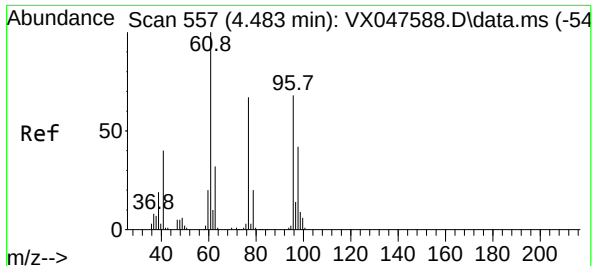
Tgt Ion: 77 Resp: 67250

Ion Ratio Lower Upper

77 100

97 22.3 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 19.365 ug/l

RT: 4.471 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

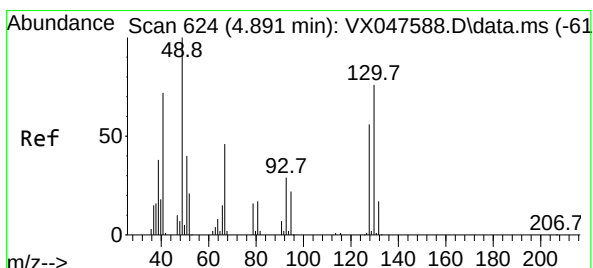
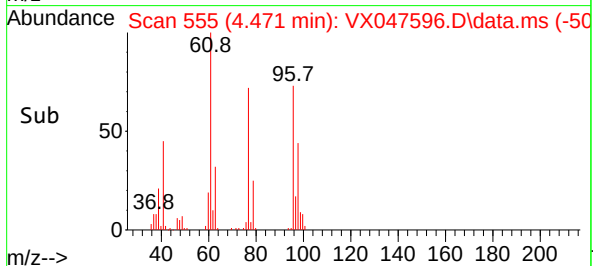
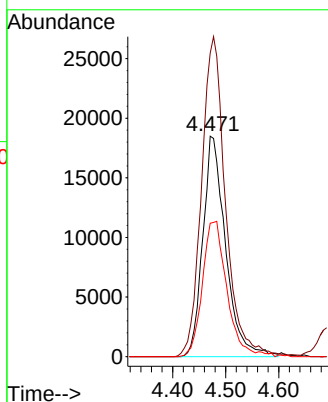
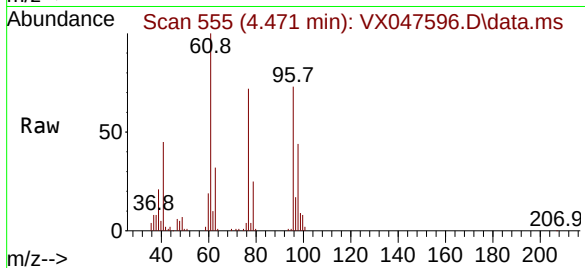
Tgt Ion:	96	Resp:	5518
Ion	Ratio	Lower	Upper
96	100		
61	152.7	0.0	303.2
98	66.1	0.0	127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 19.714 ug/l

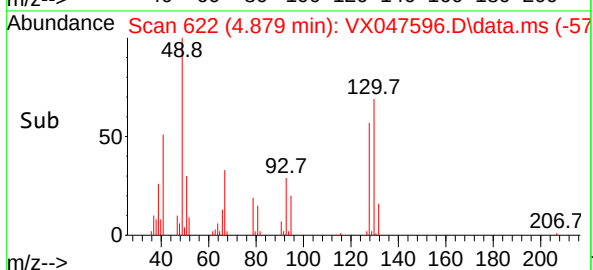
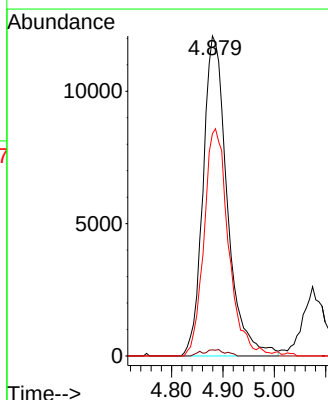
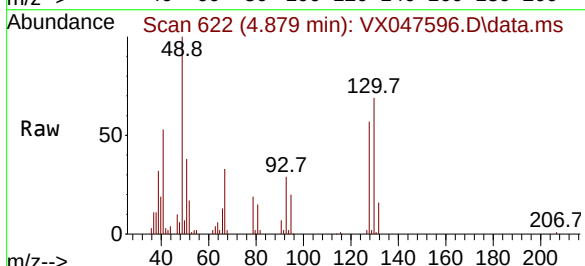
RT: 4.879 min Scan# 622

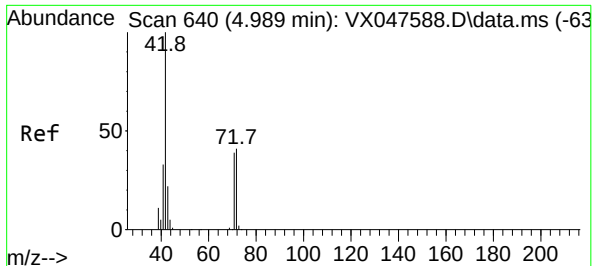
Delta R.T. -0.012 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Tgt Ion:	49	Resp:	39542
Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.2
130	71.7	57.8	86.8





#29

Tetrahydrofuran

Concen: 105.947 ug/l

RT: 4.983 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 42 Resp: 10010

Ion Ratio Lower Upper

42 100

72 42.4 34.2 51.2

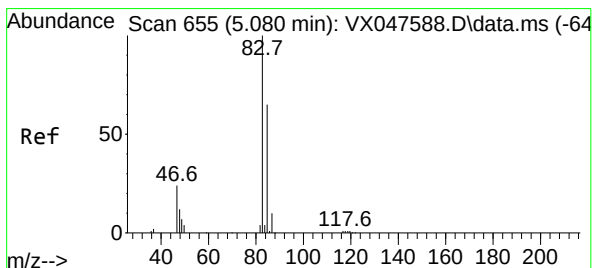
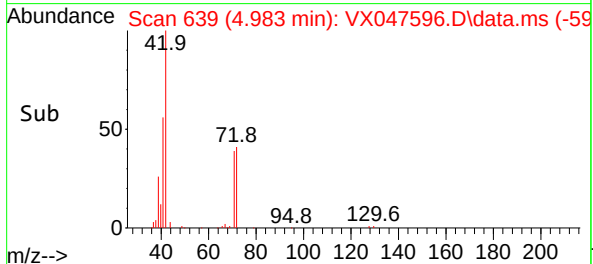
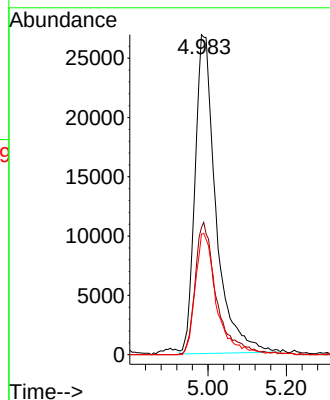
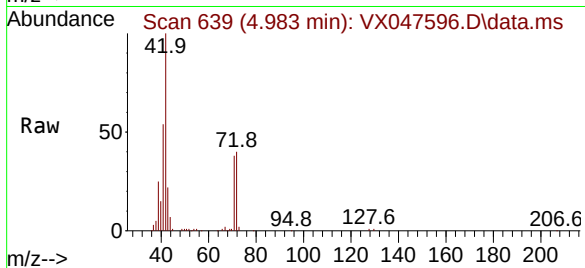
71 38.4 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 19.982 ug/l

RT: 5.074 min Scan# 654

Delta R.T. -0.006 min

Lab File: VX047596.D

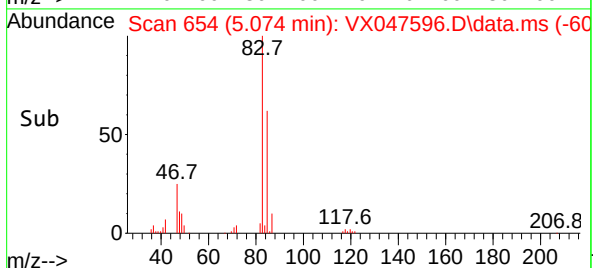
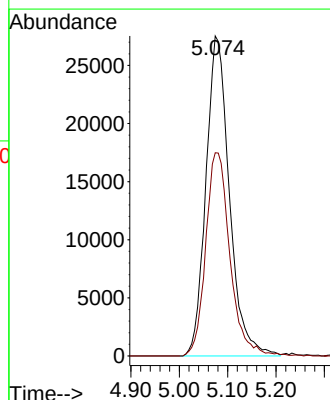
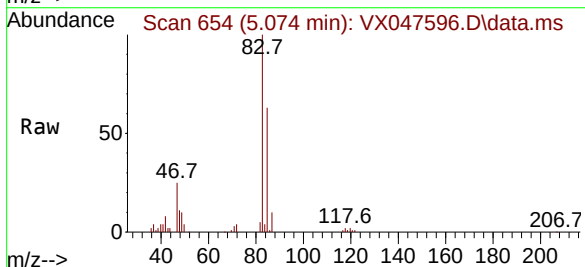
Acq: 16 Sep 2025 15:46

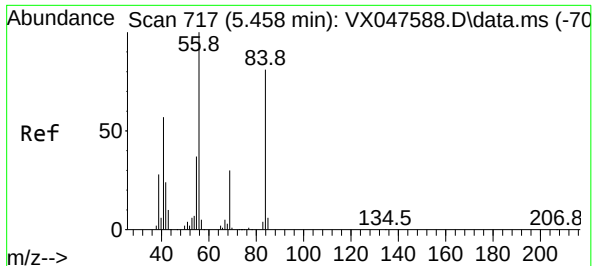
Tgt Ion: 83 Resp: 92774

Ion Ratio Lower Upper

83 100

85 63.5 51.8 77.6





#31

Cyclohexane

Concen: 19.474 ug/l

RT: 5.458 min Scan# 717

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 56 Resp: 74519

Ion Ratio Lower Upper

56 100

69 28.5 23.8 35.8

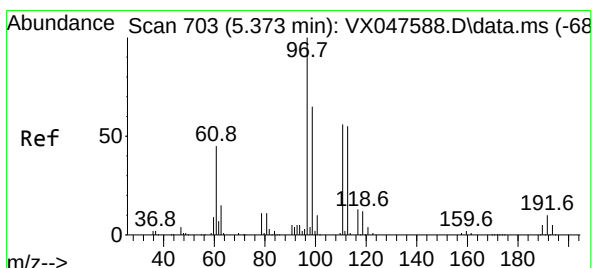
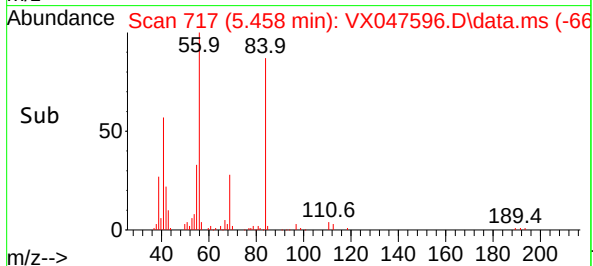
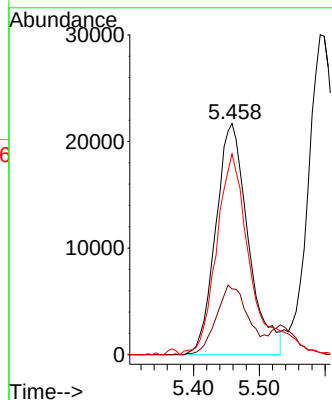
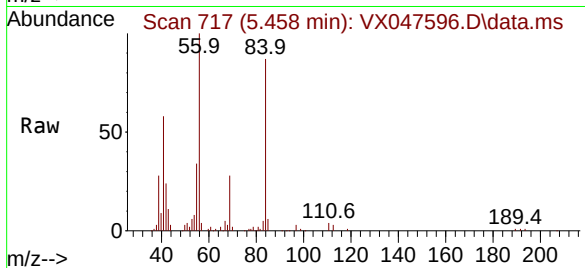
84 86.8 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#32

1,1,1-Trichloroethane

Concen: 19.963 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

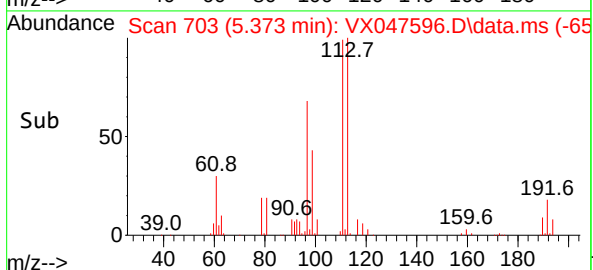
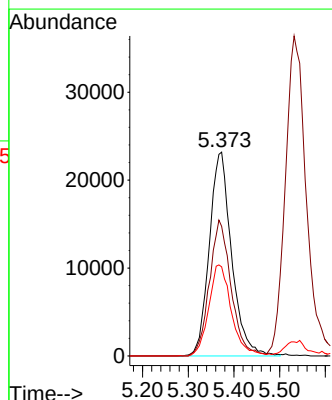
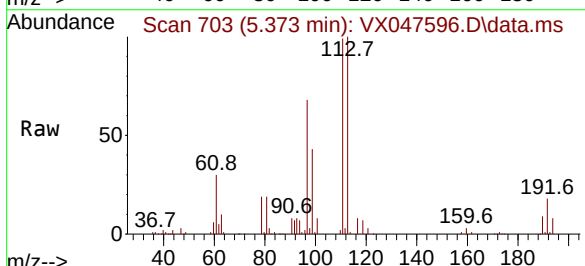
Tgt Ion: 97 Resp: 78616

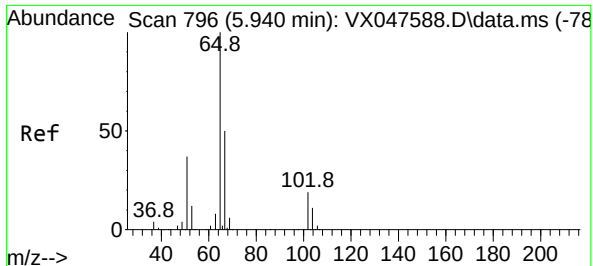
Ion Ratio Lower Upper

97 100

99 64.6 50.6 76.0

61 45.2 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 49.675 ug/l

RT: 5.940 min Scan# 796

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 65 Resp: 143852

Ion Ratio Lower Upper

65 100

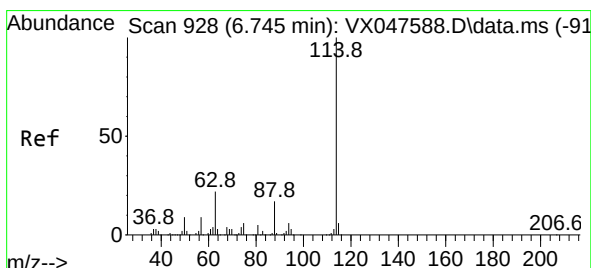
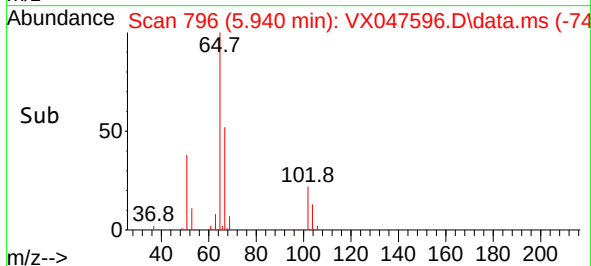
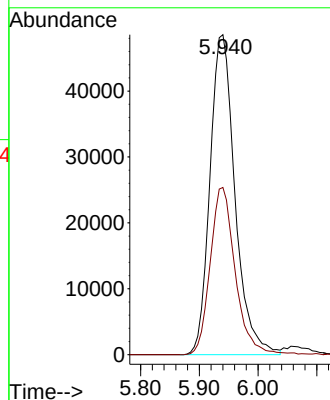
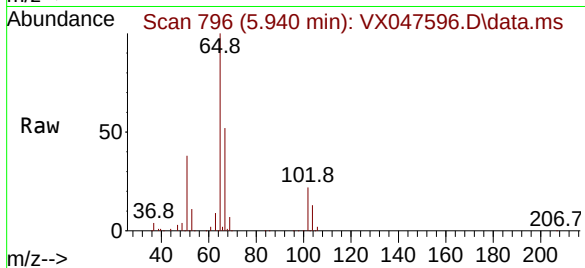
67 52.4 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

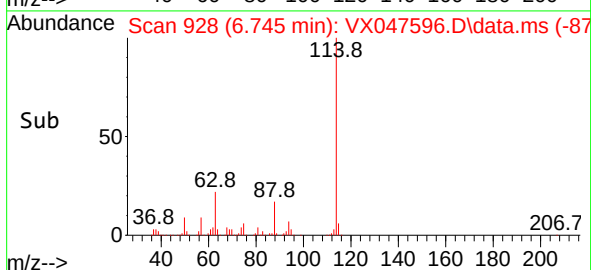
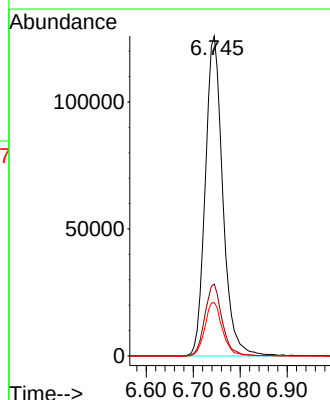
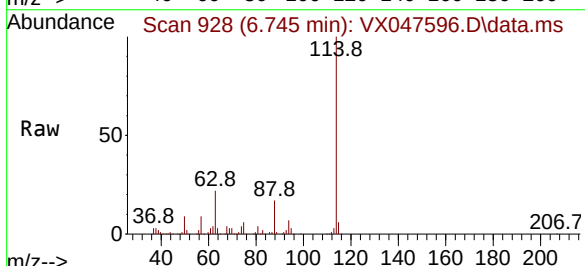
Tgt Ion:114 Resp: 325791

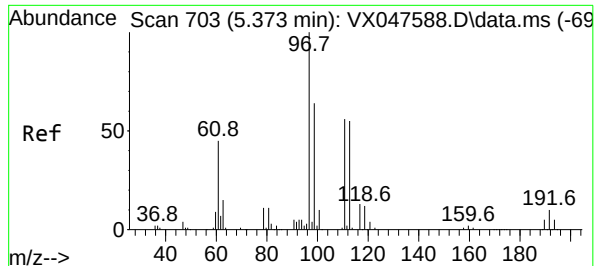
Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.0

88 16.7 0.0 34.2





#35

Dibromofluoromethane

Concen: 50.501 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion:113 Resp: 11034

Ion Ratio Lower Upper

113 100

111 102.7 80.9 121.3

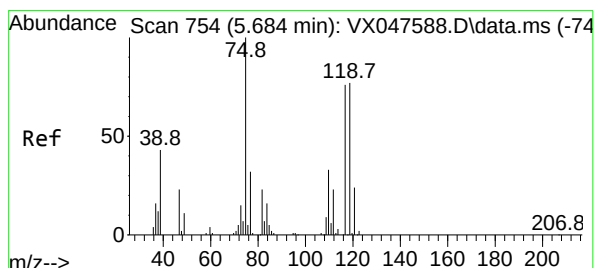
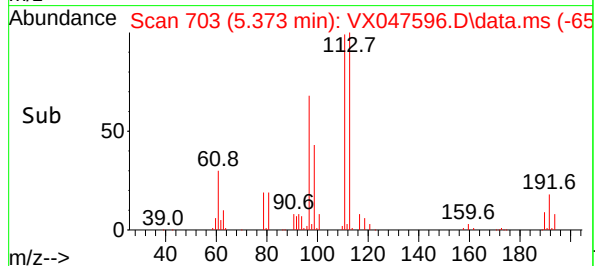
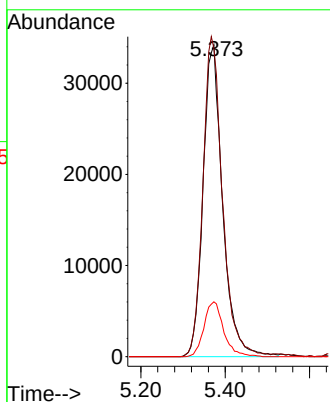
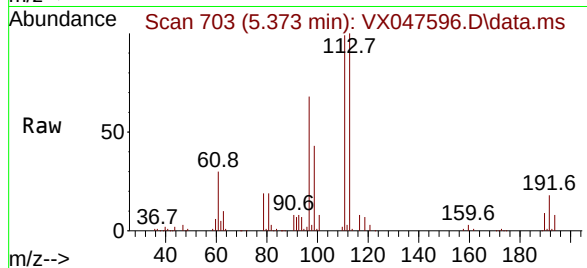
192 17.8 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 19.460 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

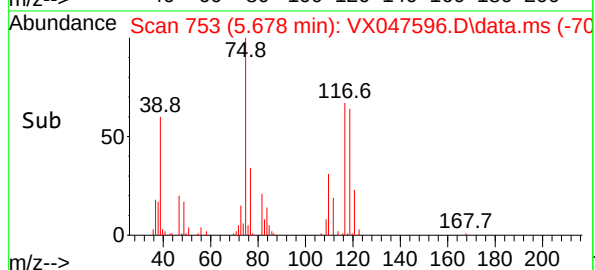
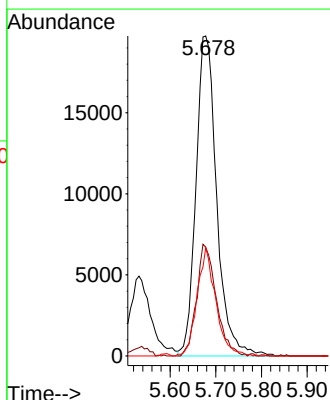
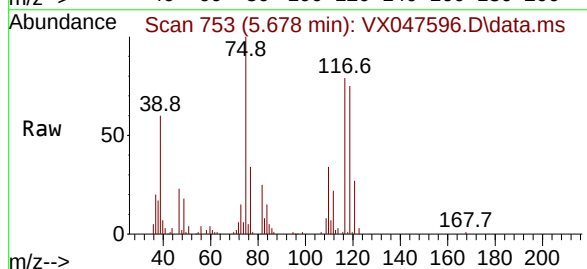
Tgt Ion: 75 Resp: 62129

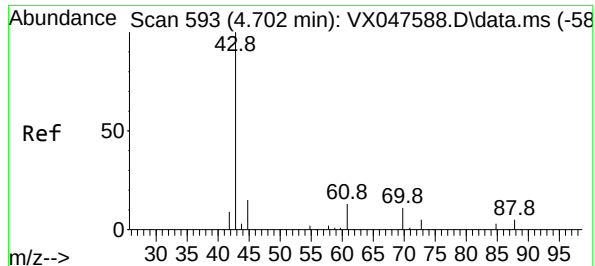
Ion Ratio Lower Upper

75 100

110 33.2 16.7 50.1

77 30.5 24.3 36.5





#37

Ethyl Acetate

Concen: 19.255 ug/l

RT: 4.696 min Scan# 592

Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

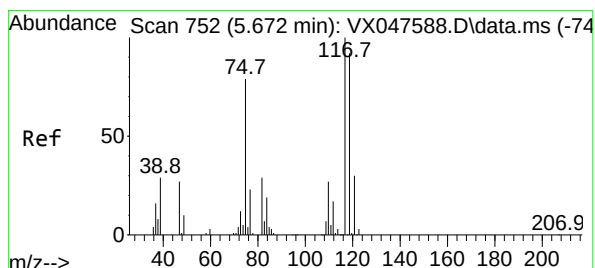
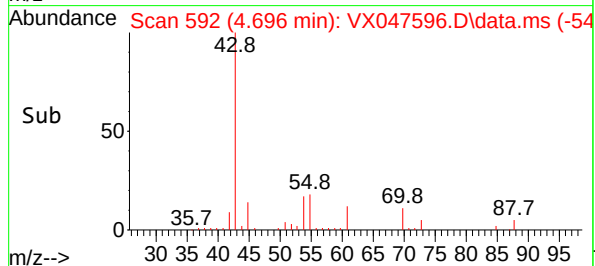
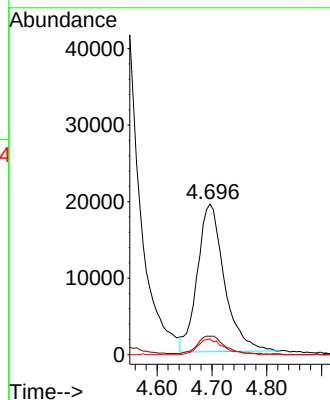
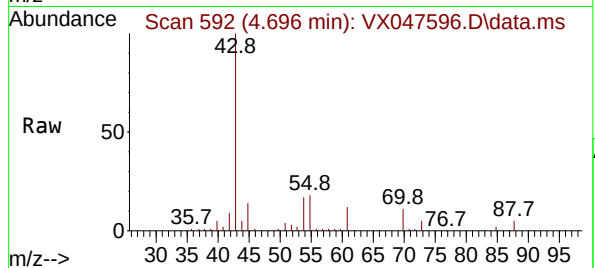
Tgt Ion:	43	Resp:	65824
Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	10.3	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 19.452 ug/l

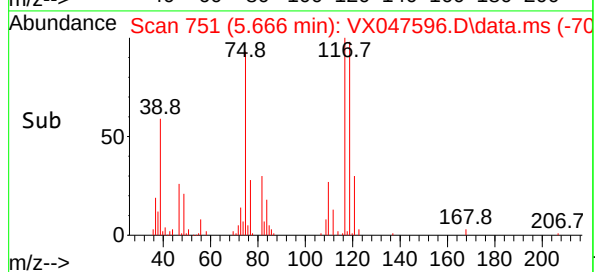
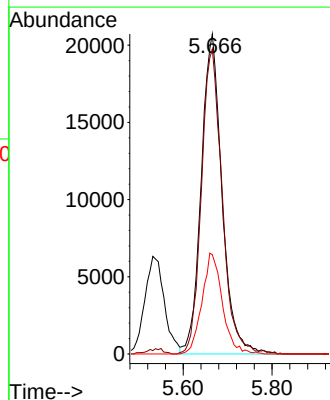
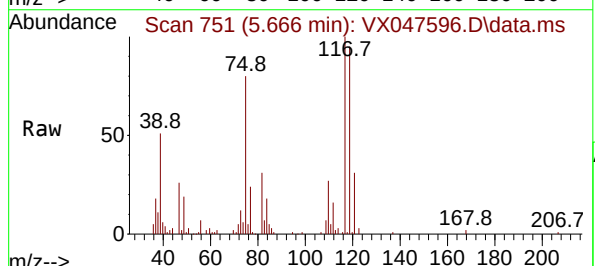
RT: 5.666 min Scan# 751

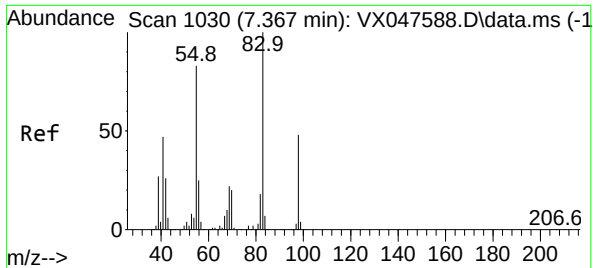
Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Tgt Ion:	117	Resp:	67477
Ion	Ratio	Lower	Upper
117	100		
119	95.0	73.4	110.2
121	31.0	23.8	35.6





#39

Methylcyclohexane

Concen: 19.792 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

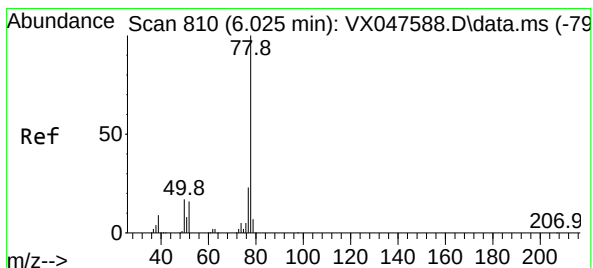
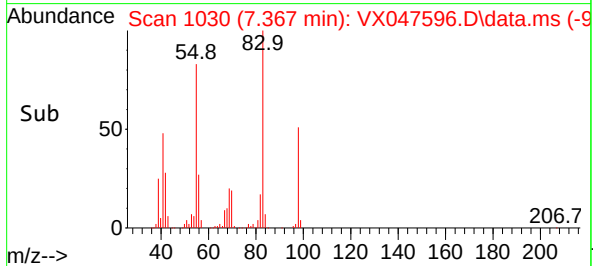
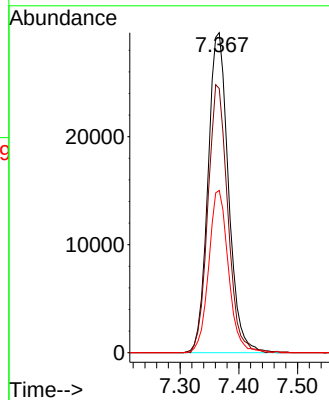
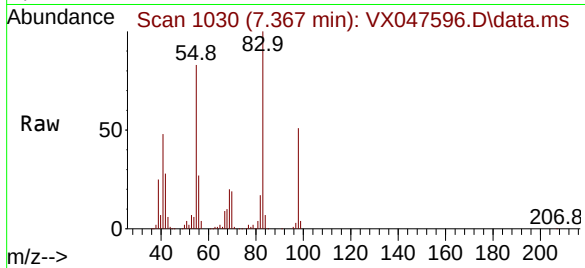
Tgt Ion:	83	Resp:	71729
Ion Ratio	Lower	Upper	
83	100		
55	82.6	66.4	99.6
98	50.7	38.1	57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 19.482 ug/l

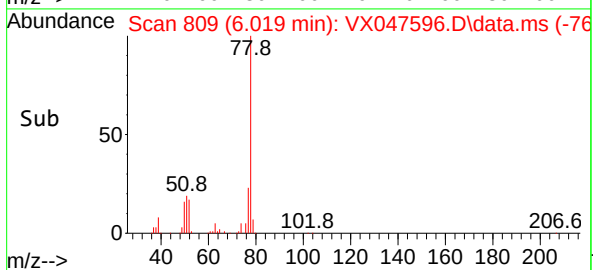
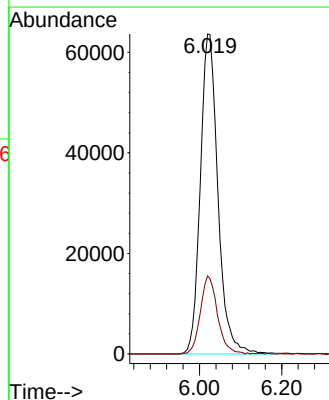
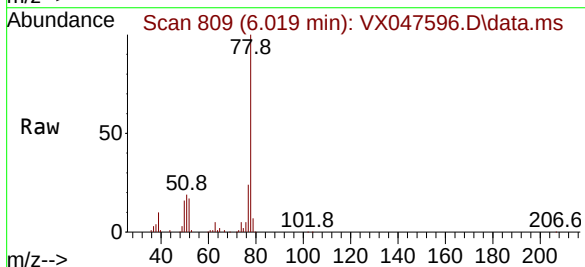
RT: 6.019 min Scan# 809

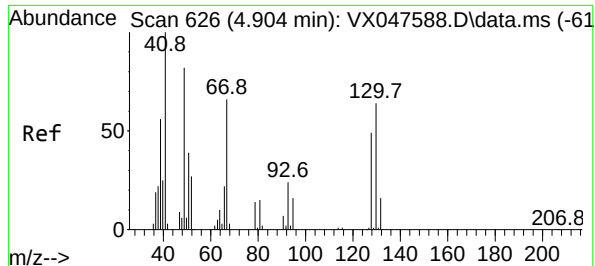
Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

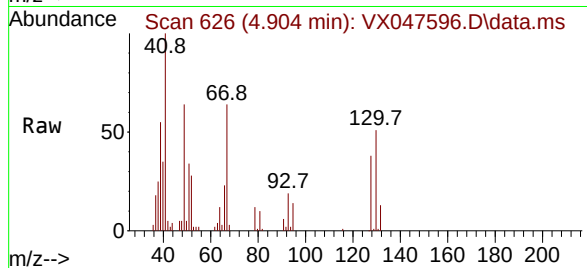
Tgt Ion:	78	Resp:	188914
Ion Ratio	Lower	Upper	
78	100		
77	24.4	18.8	28.2





#41
Methacrylonitrile
Concen: 21.517 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

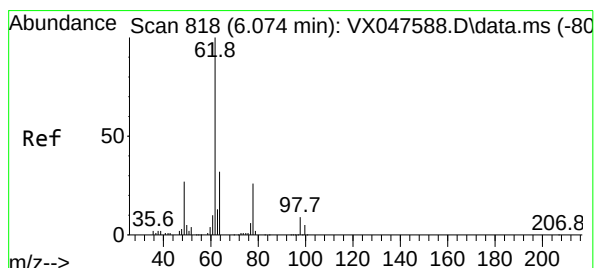
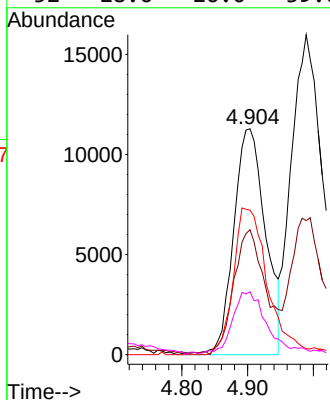
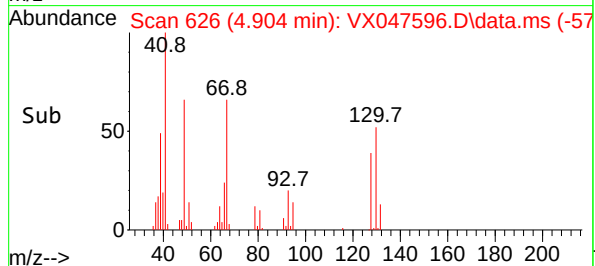
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



Tgt Ion: 41 Resp: 3797
Ion Ratio Lower Upper
41 100
39 52.6 43.3 64.9
67 69.4 58.6 87.8
52 28.6 26.0 39.0

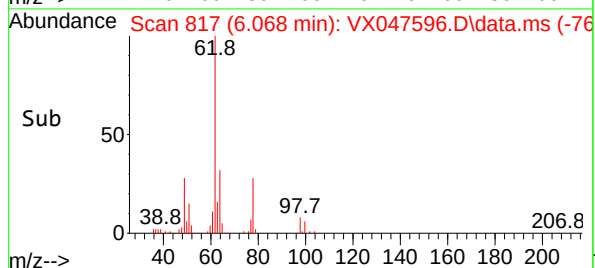
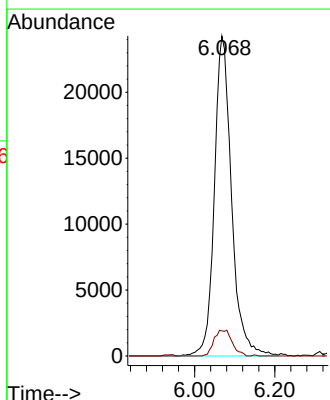
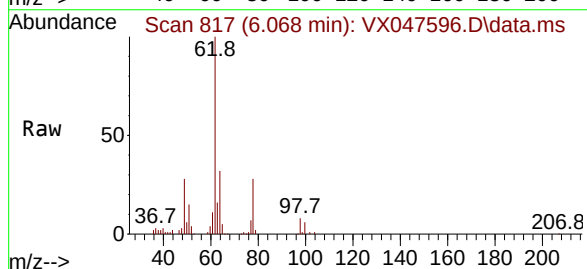
Manual Integrations
APPROVED

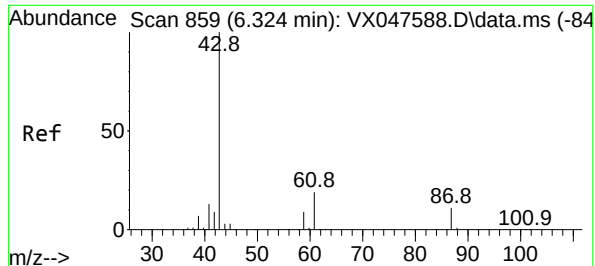
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#42
1,2-Dichloroethane
Concen: 19.519 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 62 Resp: 72019
Ion Ratio Lower Upper
62 100
98 8.5 0.0 17.0





#43

Isopropyl Acetate

Concen: 20.485 ug/l

RT: 6.318 min Scan# 858

Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 43 Resp: 114850

Ion Ratio Lower Upper

43 100

61 18.4

87 12.1

15.2

9.6

22.8

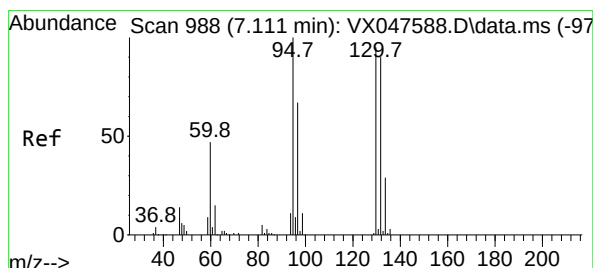
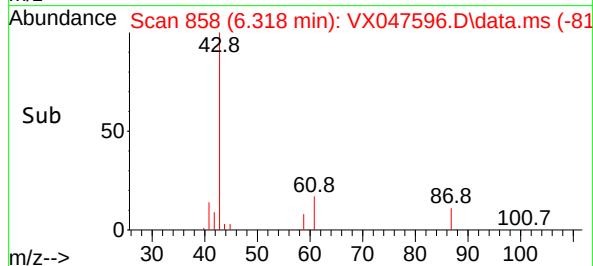
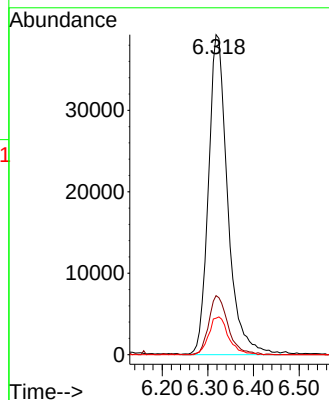
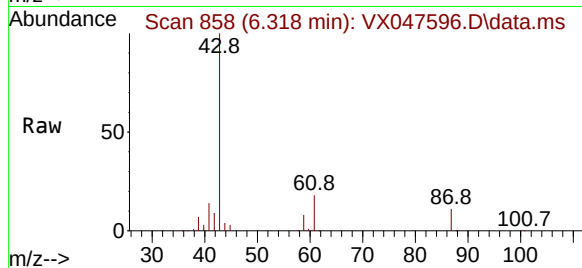
14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 19.545 ug/l

RT: 7.111 min Scan# 988

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Tgt Ion:130 Resp: 45822

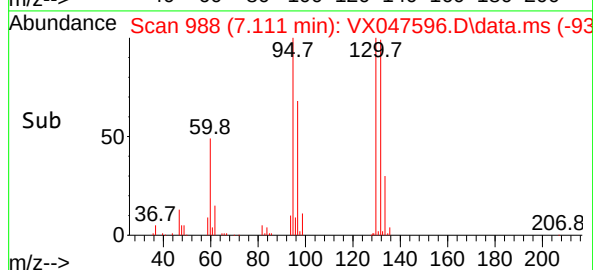
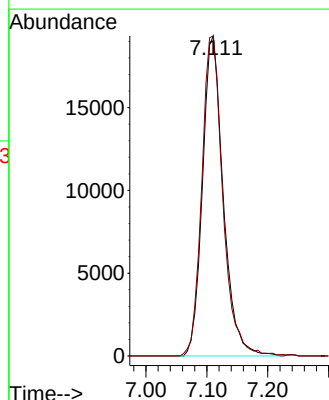
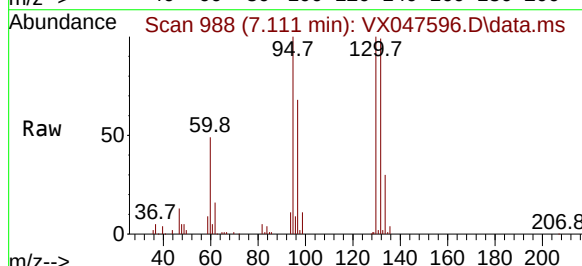
Ion Ratio Lower Upper

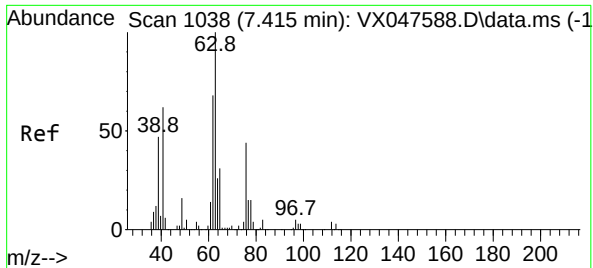
130 100

95 100.0

0.0

210.8





#45

1,2-Dichloropropane

Concen: 19.896 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 63 Resp: 4940

Ion Ratio Lower Upper

63 100

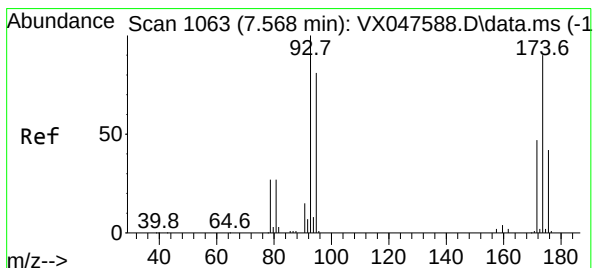
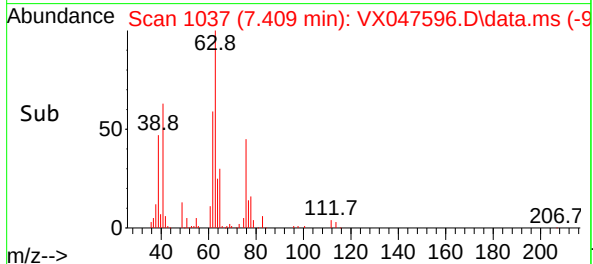
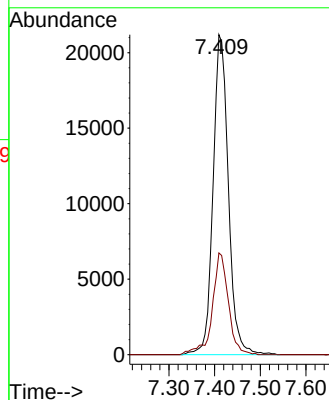
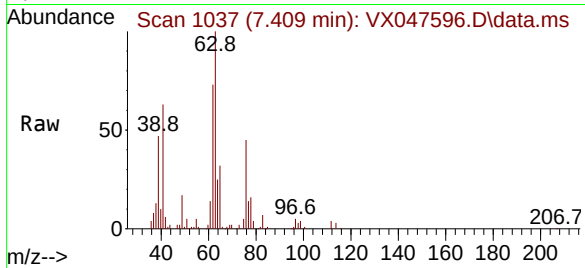
65 31.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 20.163 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

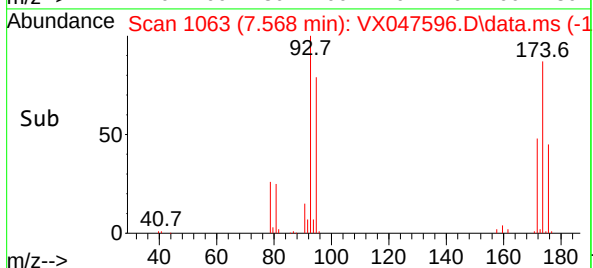
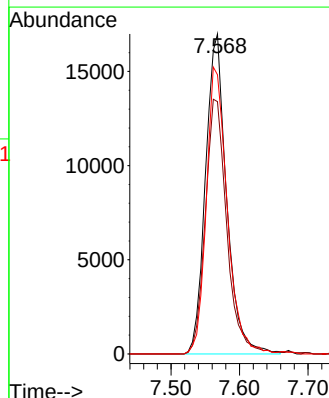
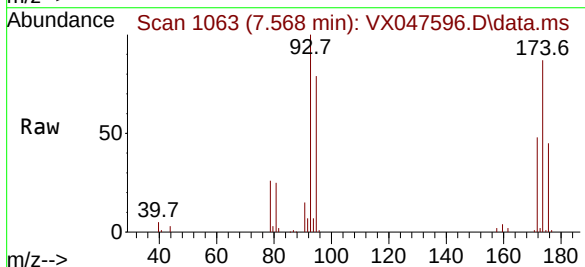
Tgt Ion: 93 Resp: 36432

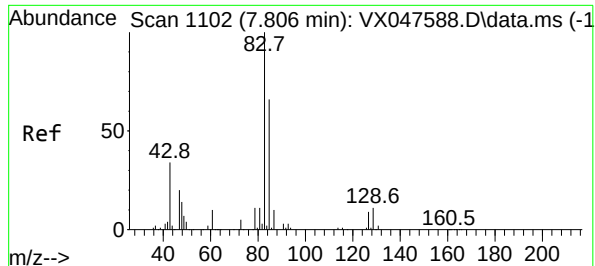
Ion Ratio Lower Upper

93 100

95 81.1 65.0 97.6

174 89.0 71.6 107.4





#47

Bromodichloromethane

Concen: 19.929 ug/l

RT: 7.806 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

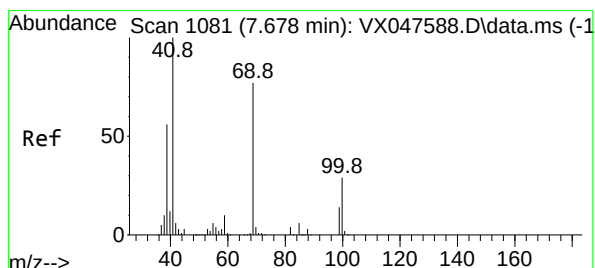
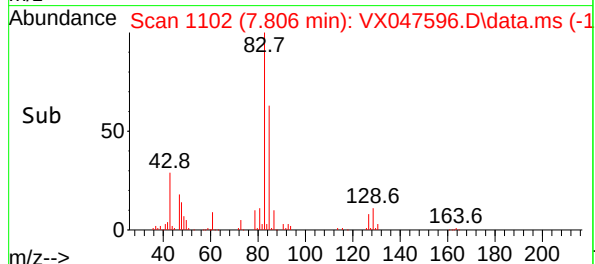
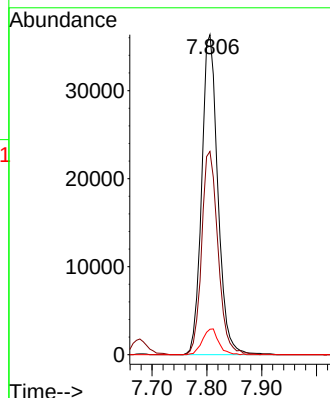
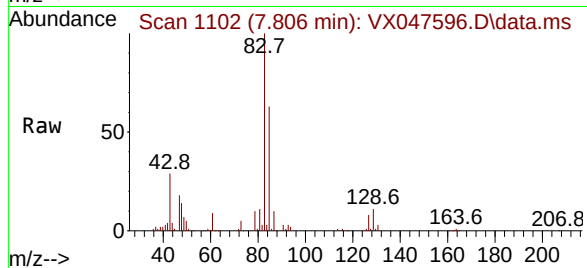
Tgt Ion:	83	Resp:	74310
Ion Ratio	Lower	Upper	
83	100		
85	63.5	52.5	78.7
127	8.9	6.9	10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 20.453 ug/l

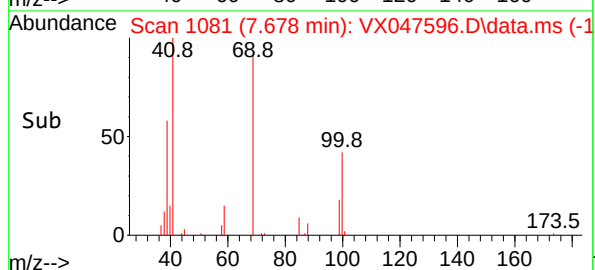
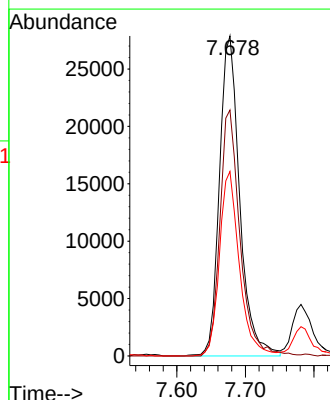
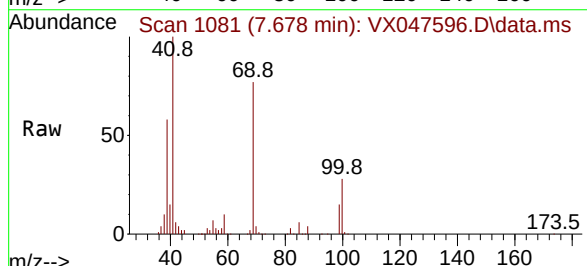
RT: 7.678 min Scan# 1081

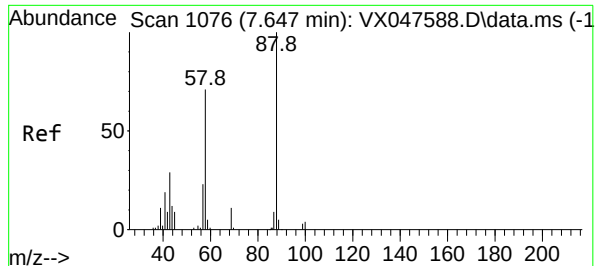
Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Tgt Ion:	41	Resp:	57119
Ion Ratio	Lower	Upper	
41	100		
69	76.3	61.4	92.2
39	56.8	45.8	68.6





#49

1,4-Dioxane

Concen: 445.313 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 88 Resp: 1256

Ion Ratio Lower Upper

88 100

43 42.4 30.2 45.2

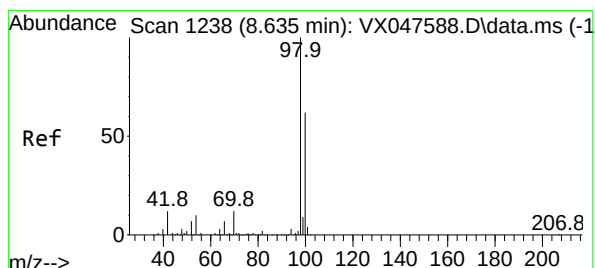
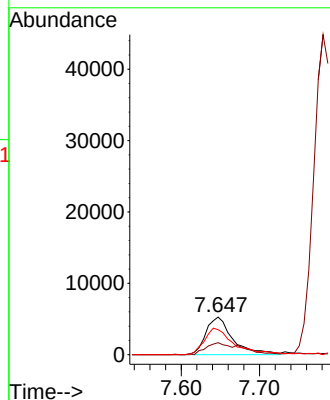
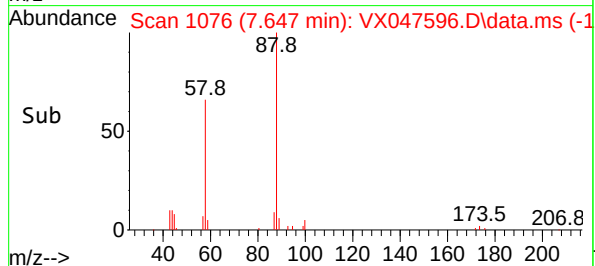
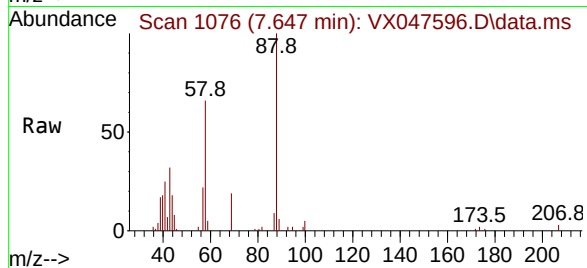
58 77.4 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 50.441 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VX047596.D

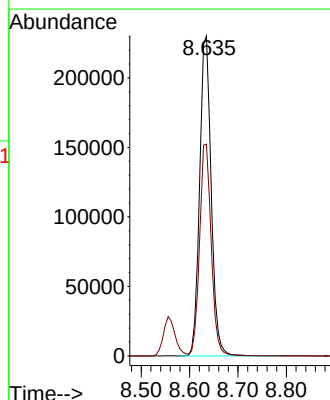
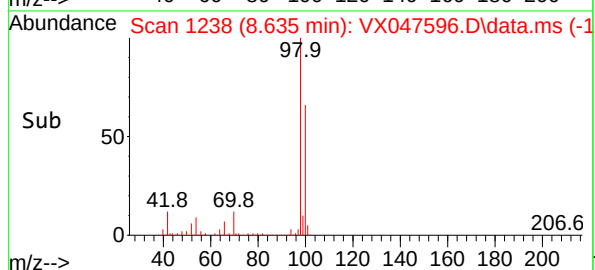
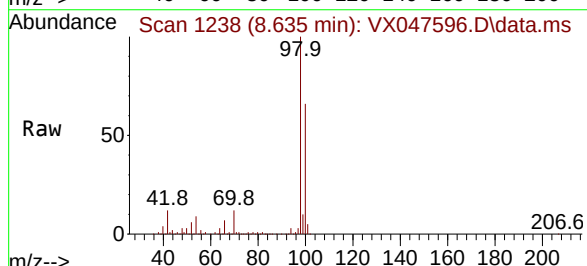
Acq: 16 Sep 2025 15:46

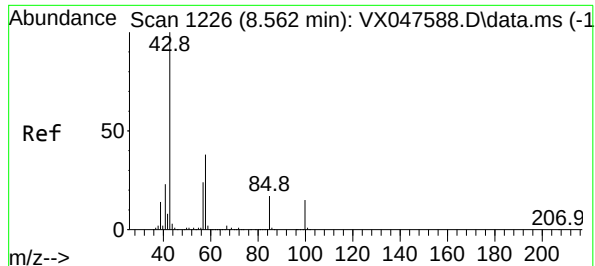
Tgt Ion: 98 Resp: 381352

Ion Ratio Lower Upper

98 100

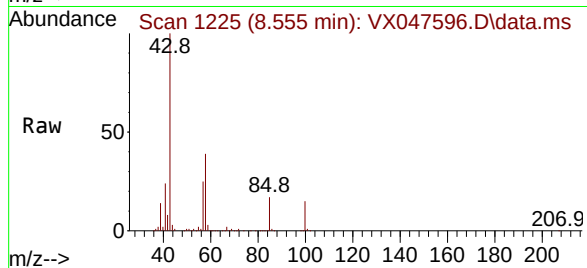
100 66.7 53.0 79.4





#51
4-Methyl-2-Pentanone
Concen: 107.626 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

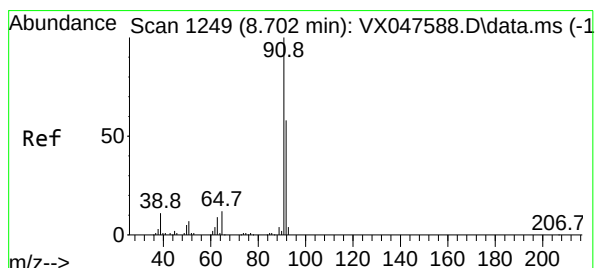
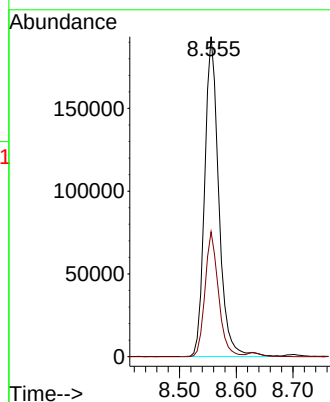
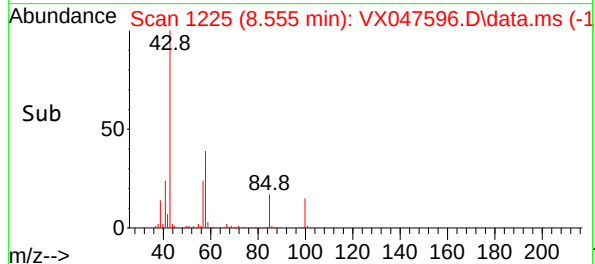
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



Tgt Ion: 43 Resp: 334554
Ion Ratio Lower Upper
43 100
58 37.2 30.3 45.5

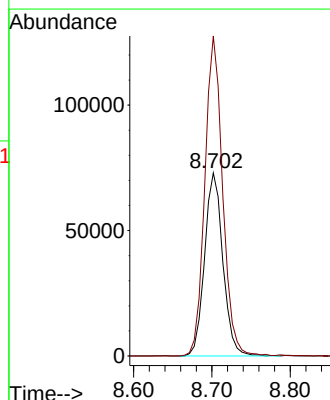
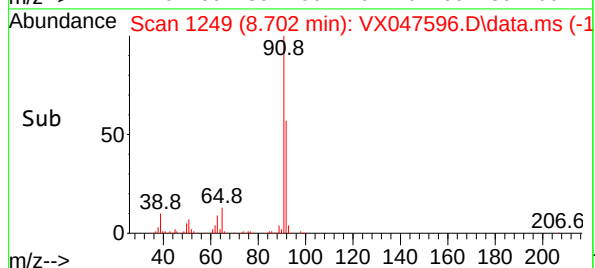
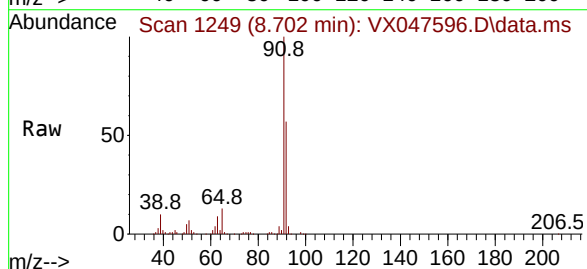
Manual Integrations
APPROVED

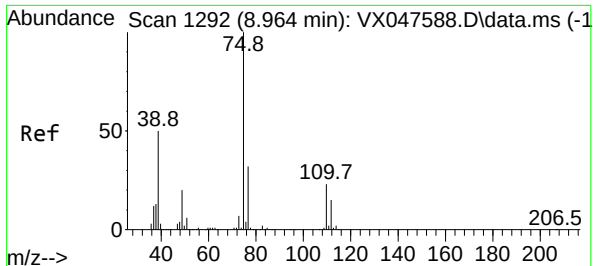
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 19.768 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 92 Resp: 118098
Ion Ratio Lower Upper
92 100
91 170.4 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 19.819 ug/l

RT: 8.964 min Scan# 1191

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 75 Resp: 75370

Ion Ratio Lower Upper

75 100

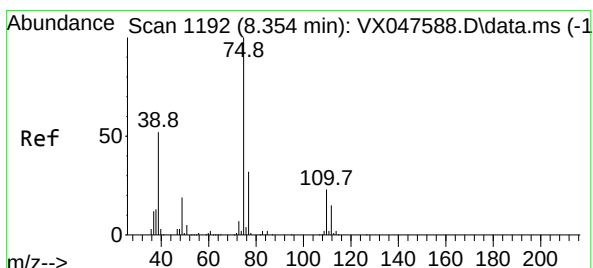
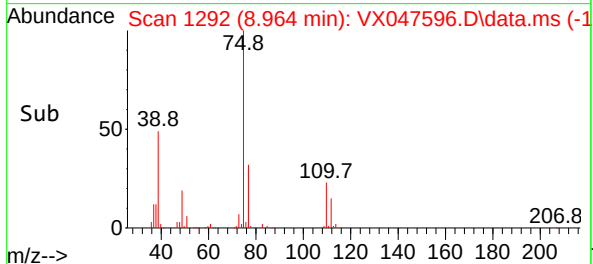
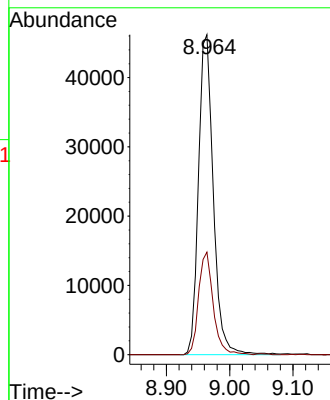
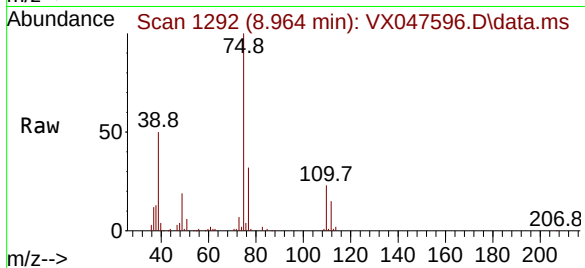
77 32.0 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 19.323 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

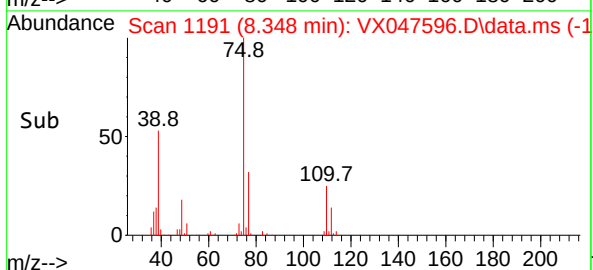
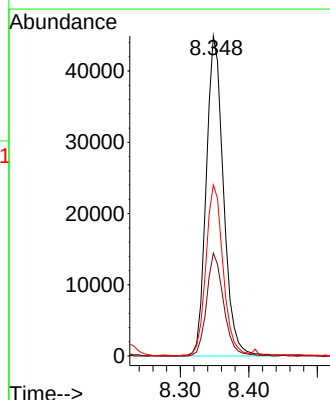
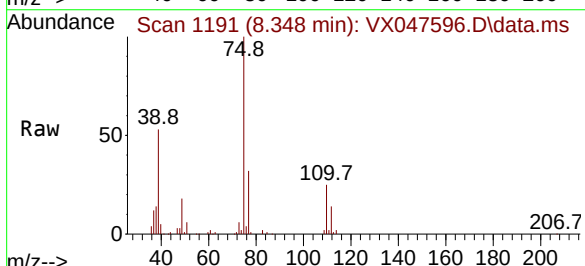
Tgt Ion: 75 Resp: 78552

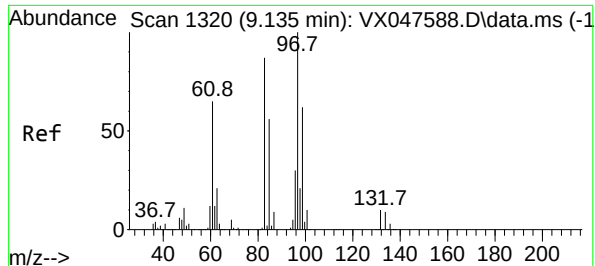
Ion Ratio Lower Upper

75 100

77 32.1 25.8 38.6

39 51.7 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 19.951 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 97 Resp: 45960

Ion Ratio Lower Upper

97 100

83 86.8 69.6 104.4

85 55.9 45.0 67.6

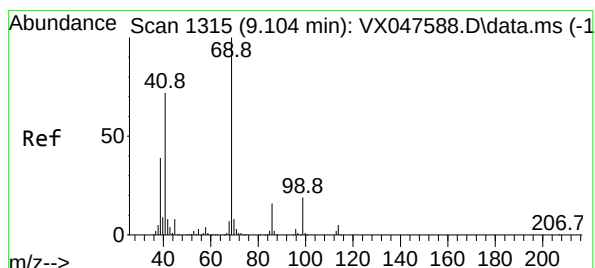
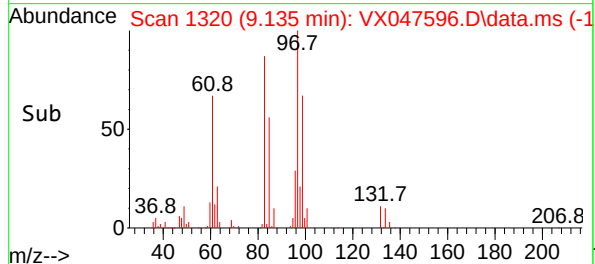
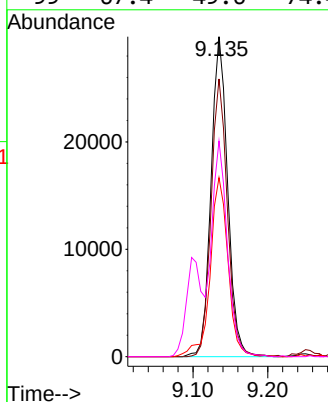
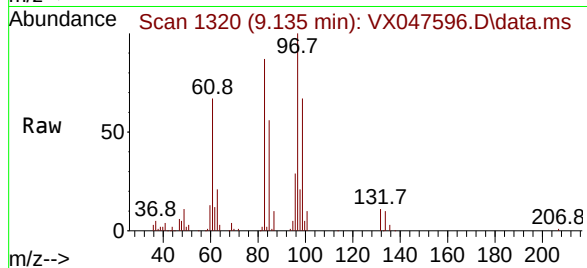
99 67.4 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 20.963 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

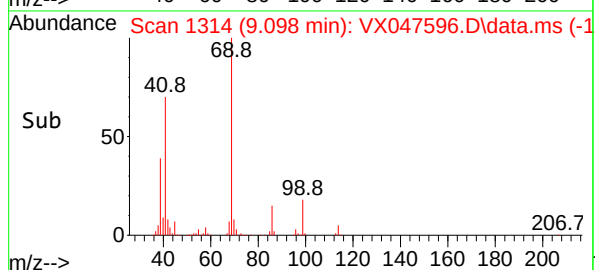
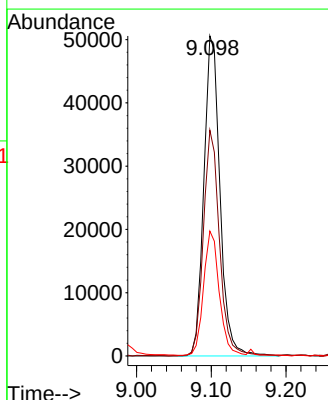
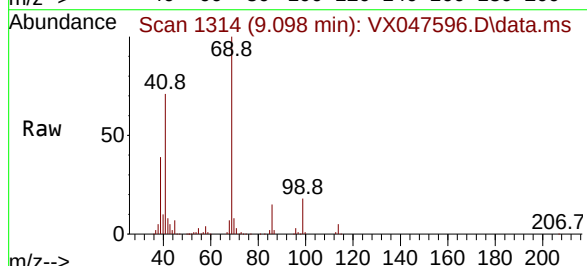
Tgt Ion: 69 Resp: 75840

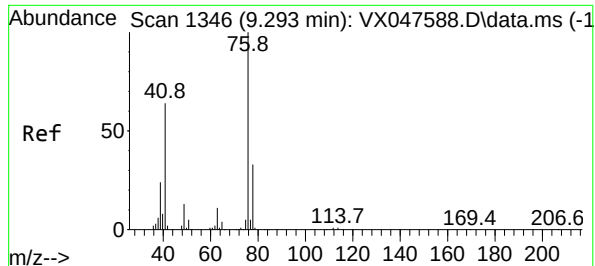
Ion Ratio Lower Upper

69 100

41 70.6 58.6 87.8

39 37.7 31.5 47.3





#57

1,3-Dichloropropane

Concen: 20.586 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 76 Resp: 8146

Ion Ratio Lower Upper

76 100

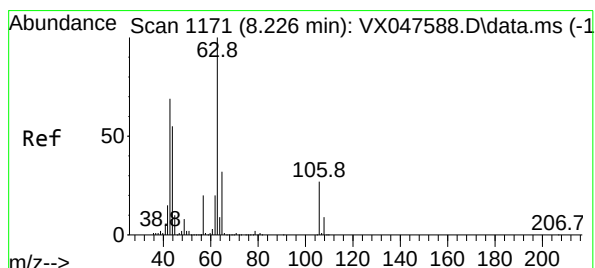
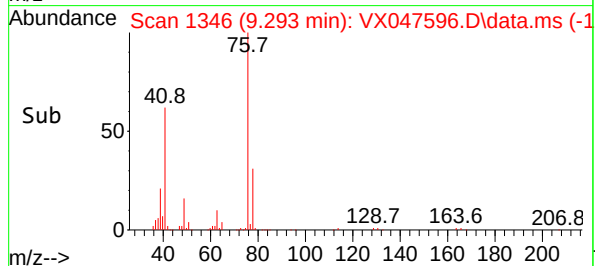
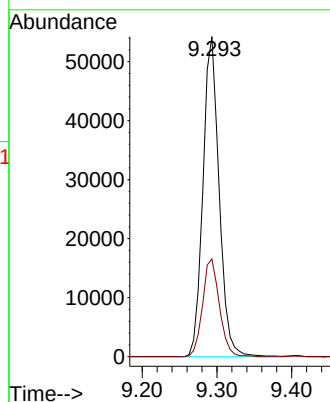
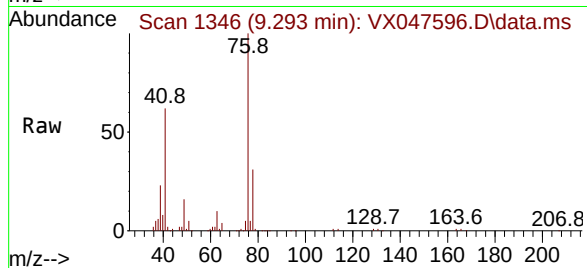
78 31.7 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 85.465 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047596.D

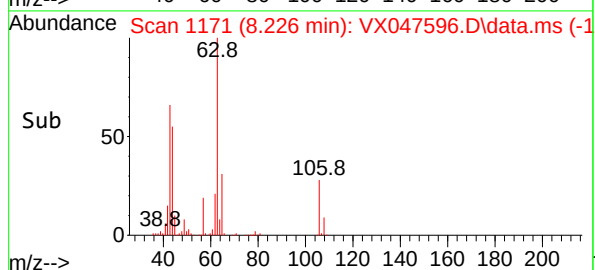
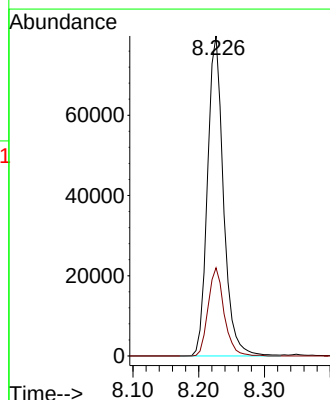
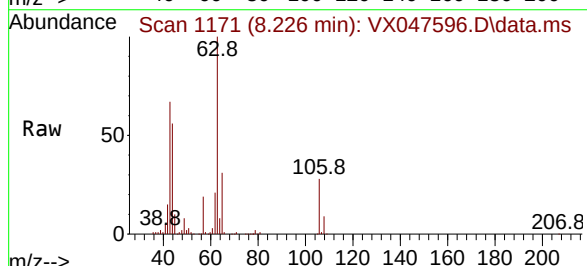
Acq: 16 Sep 2025 15:46

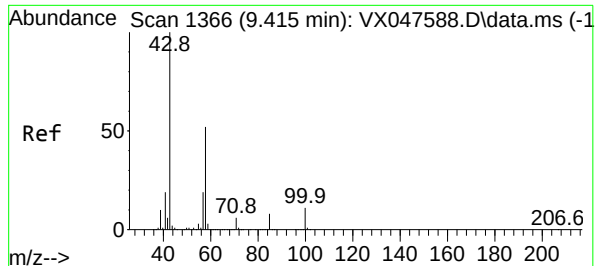
Tgt Ion: 63 Resp: 134952

Ion Ratio Lower Upper

63 100

106 27.5 21.9 32.9





#59

2-Hexanone

Concen: 102.998 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 43 Resp: 229940

Ion Ratio Lower Upper

43 100

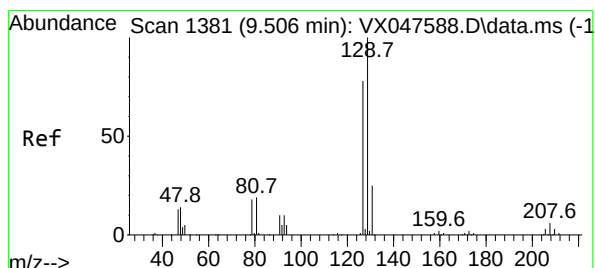
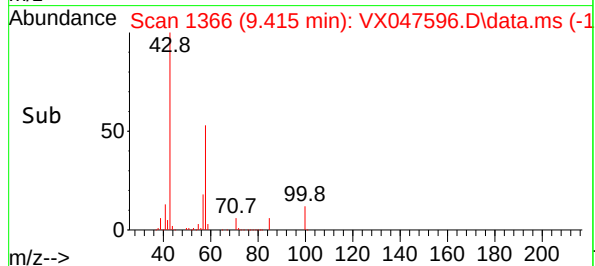
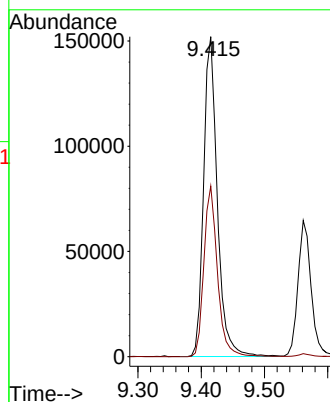
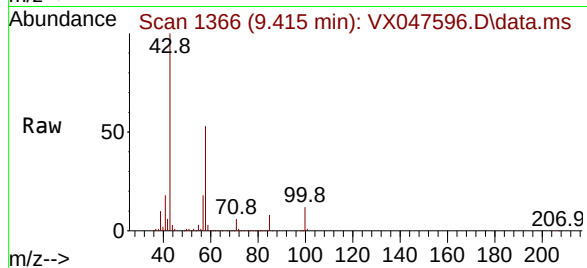
58 52.8 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 20.072 ug/l

RT: 9.507 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VX047596.D

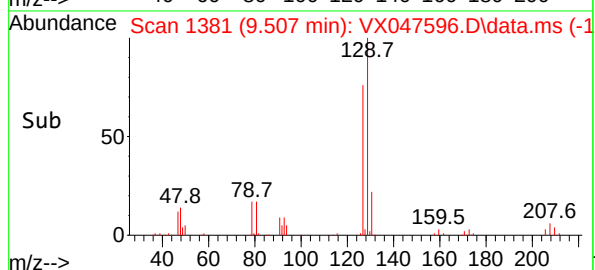
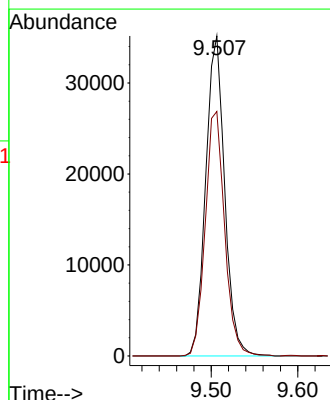
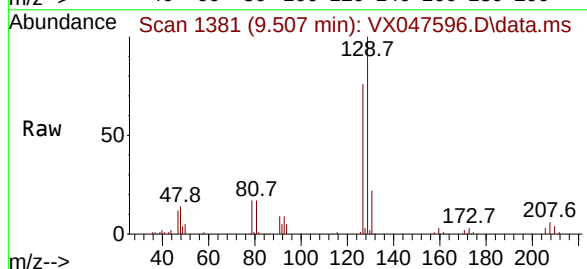
Acq: 16 Sep 2025 15:46

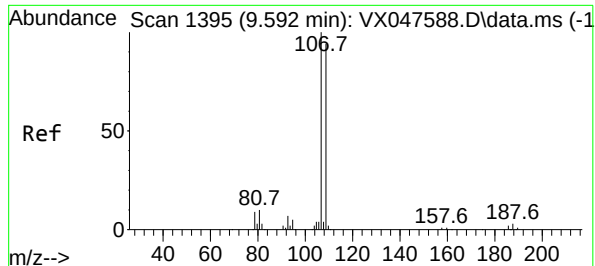
Tgt Ion:129 Resp: 53277

Ion Ratio Lower Upper

129 100

127 78.5 38.4 115.2





#61

1,2-Dibromoethane

Concen: 20.620 ug/l

RT: 9.592 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion:107 Resp: 48384

Ion Ratio Lower Upper

107 100

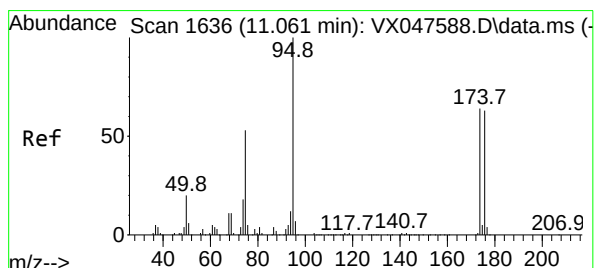
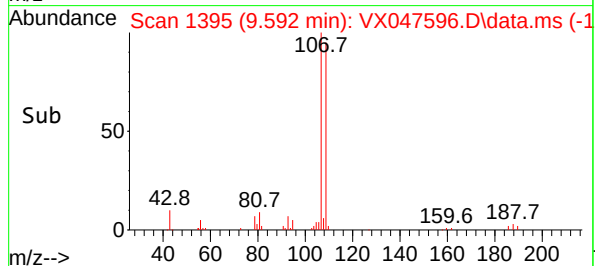
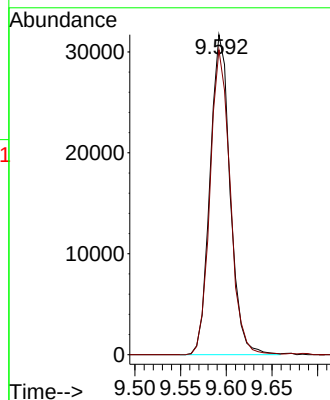
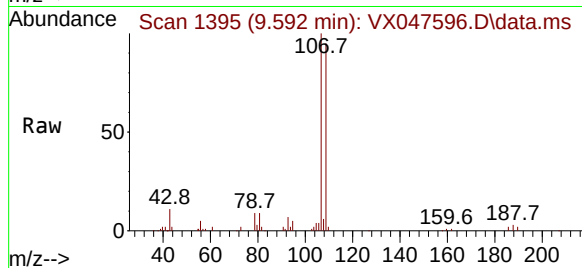
109 95.4 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#62

4-Bromofluorobenzene

Concen: 49.948 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

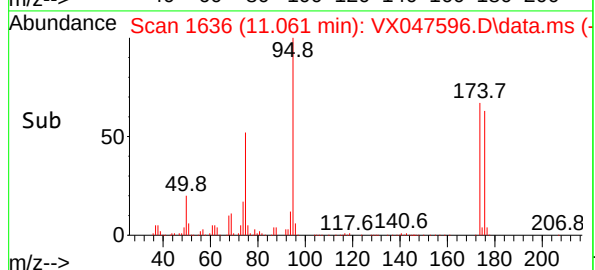
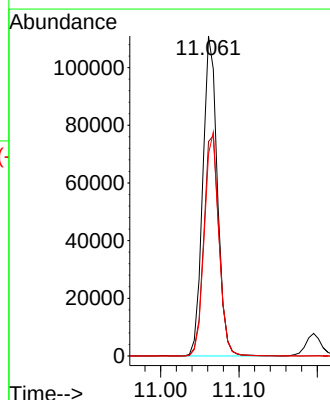
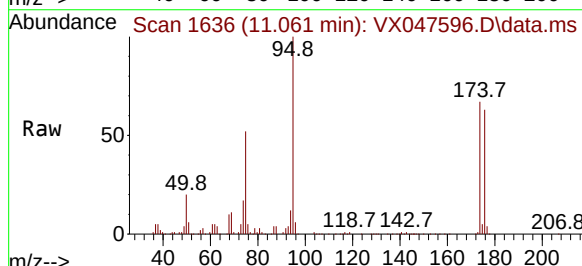
Tgt Ion: 95 Resp: 143314

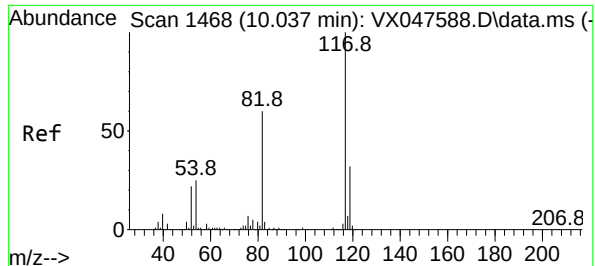
Ion Ratio Lower Upper

95 100

174 71.6 0.0 141.6

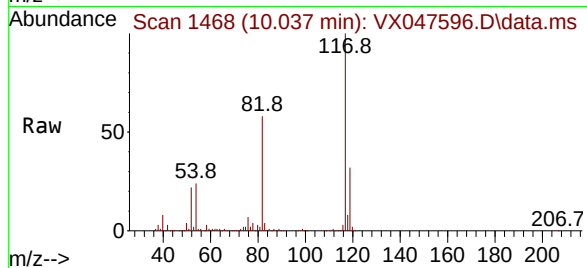
176 69.7 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

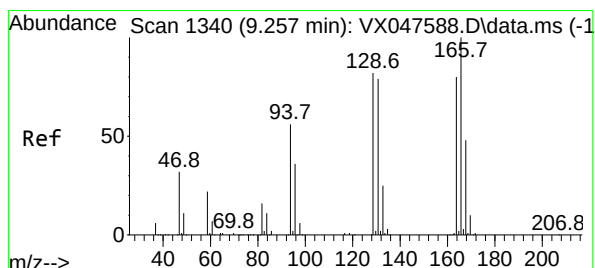
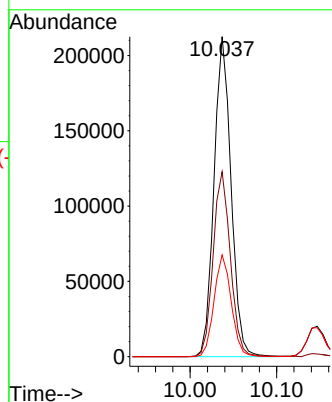
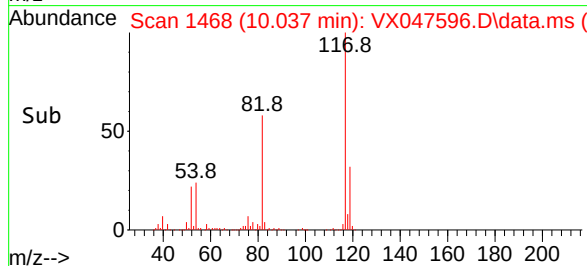
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



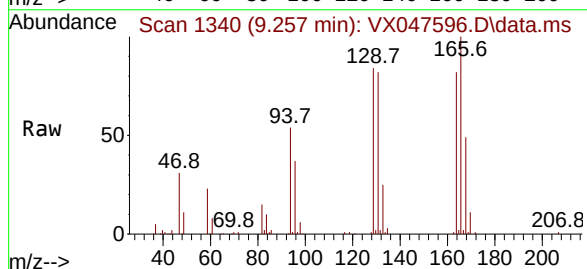
Tgt Ion:117 Resp: 290590
Ion Ratio Lower Upper
117 100
82 57.8 47.8 71.6
119 31.8 25.2 37.8

Manual Integrations
APPROVED

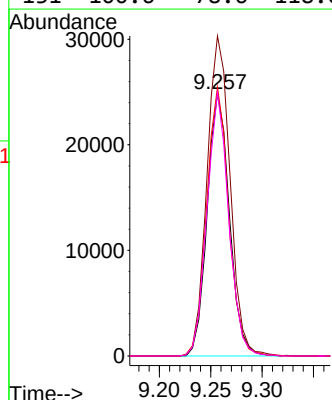
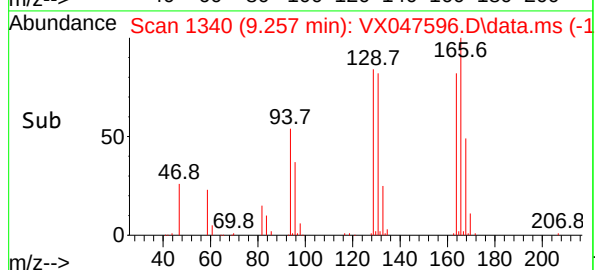
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

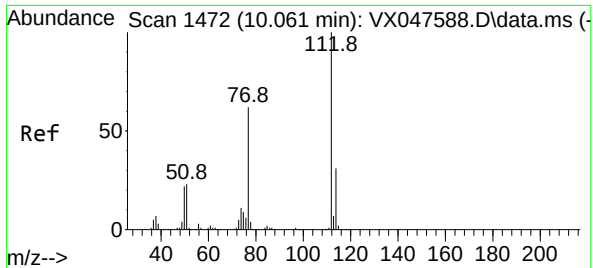


#64
Tetrachloroethene
Concen: 19.676 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46



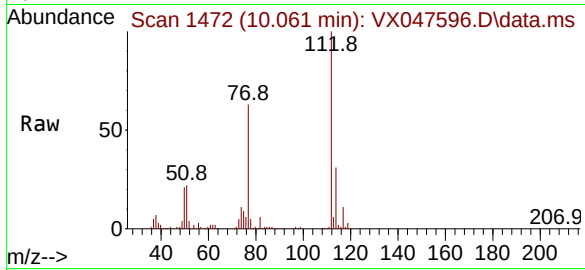
Tgt Ion:164 Resp: 37273
Ion Ratio Lower Upper
164 100
166 122.3 100.2 150.2
129 102.7 81.8 122.6
131 100.6 78.6 118.0





#65
Chlorobenzene
Concen: 19.586 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

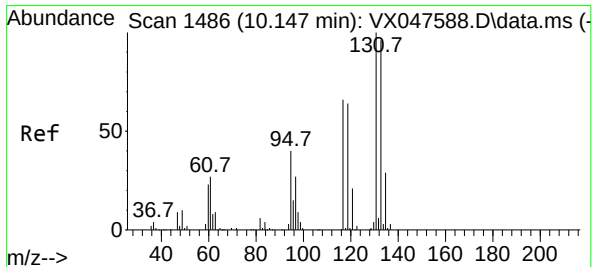
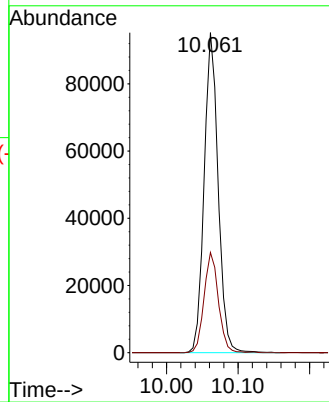
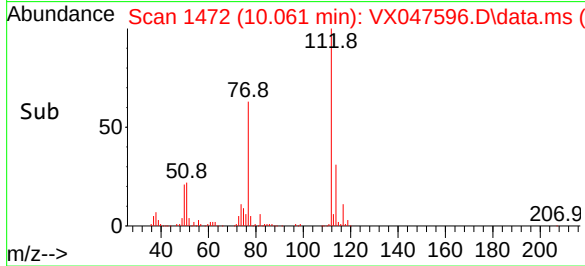
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



Tgt Ion:112 Resp: 12930
Ion Ratio Lower Upper
112 100
114 31.3 25.1 37.7

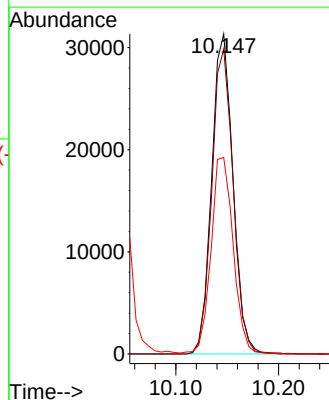
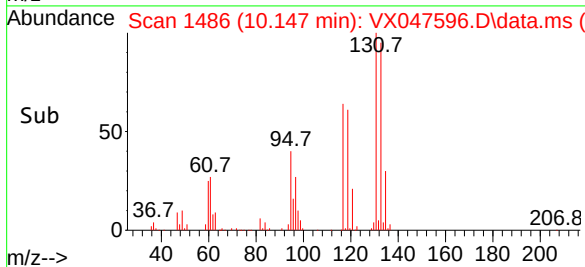
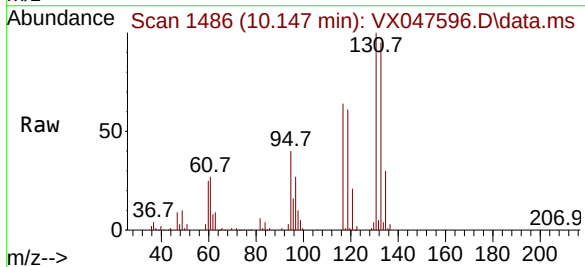
Manual Integrations
APPROVED

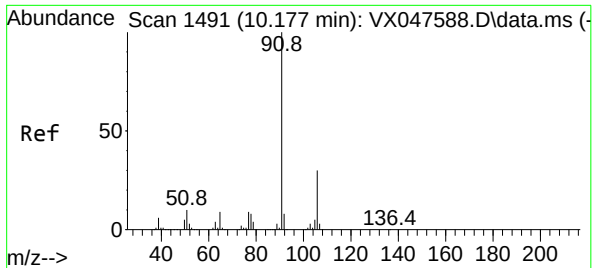
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.657 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:131 Resp: 44780
Ion Ratio Lower Upper
131 100
133 96.5 47.3 142.0
119 64.4 32.0 96.0





#67

Ethyl Benzene

Concen: 19.830 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 91 Resp: 225880

Ion Ratio Lower Upper

91 100

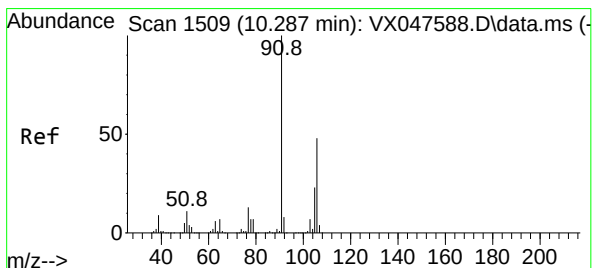
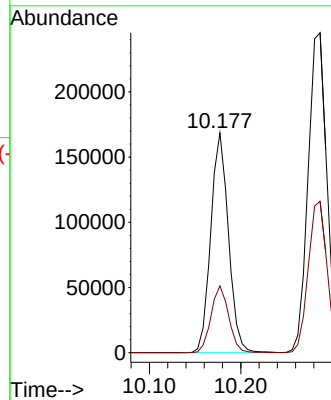
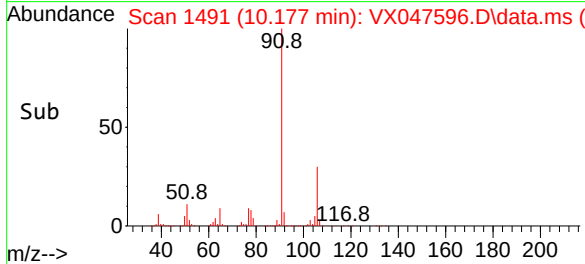
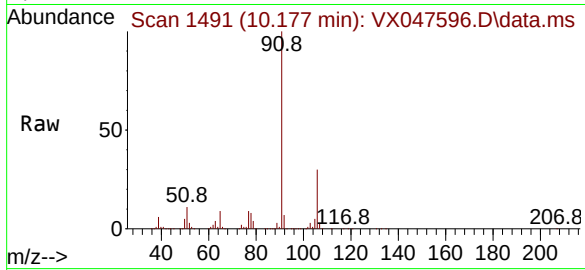
106 30.4 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 39.705 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VX047596.D

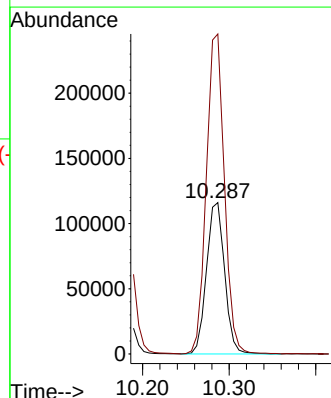
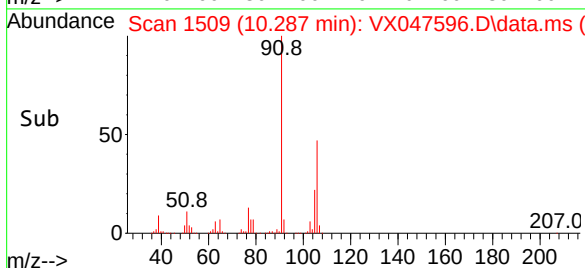
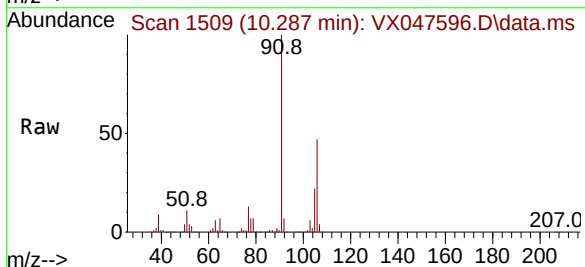
Acq: 16 Sep 2025 15:46

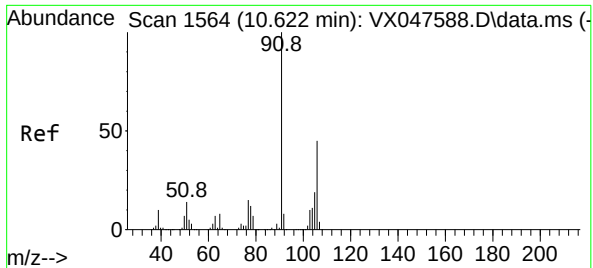
Tgt Ion:106 Resp: 168342

Ion Ratio Lower Upper

106 100

91 211.1 167.8 251.8





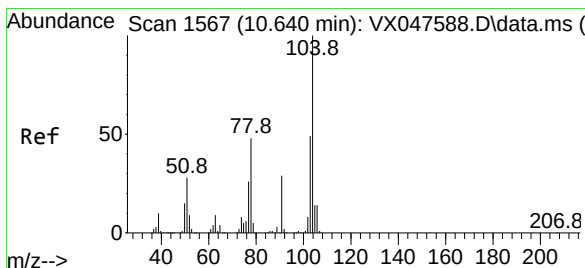
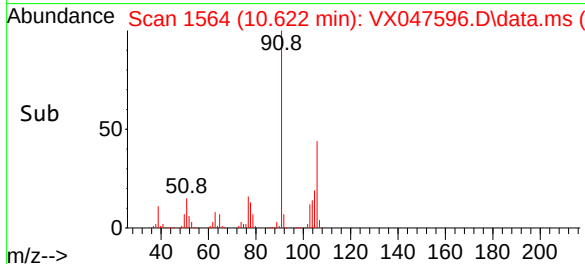
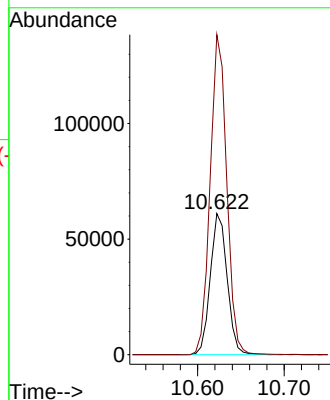
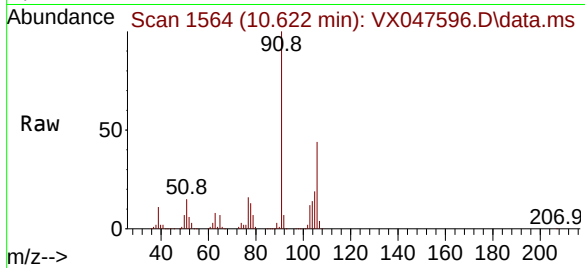
#69
o-Xylene
Concen: 20.107 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Tgt Ion:106 Resp: 82454
Ion Ratio Lower Upper
106 100
91 223.4 111.1 333.4

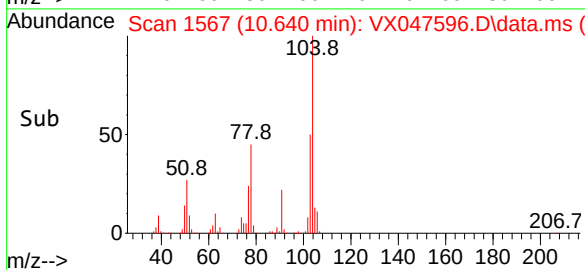
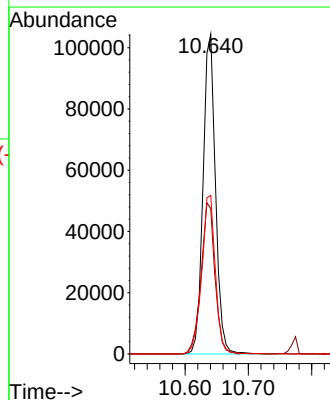
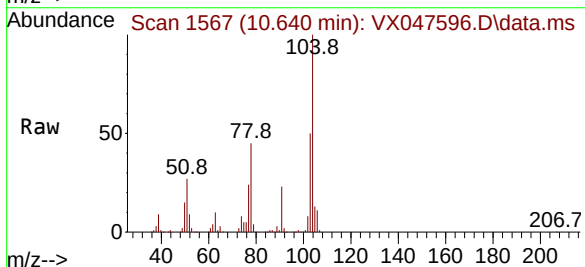
Manual Integrations
APPROVED

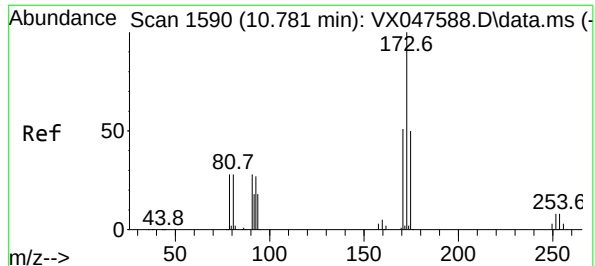
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 19.918 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

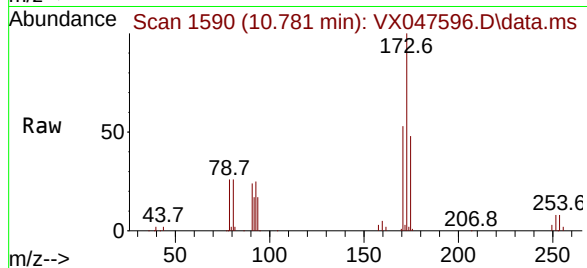
Tgt Ion:104 Resp: 143120
Ion Ratio Lower Upper
104 100
78 52.8 43.1 64.7
103 54.4 43.1 64.7





#71
Bromoform
Concen: 20.211 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

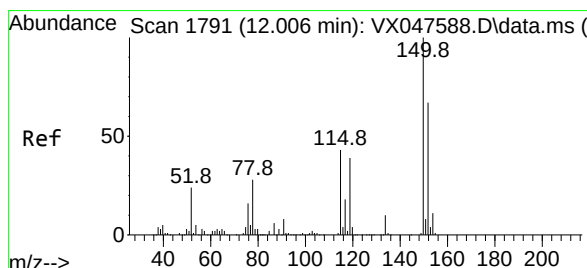
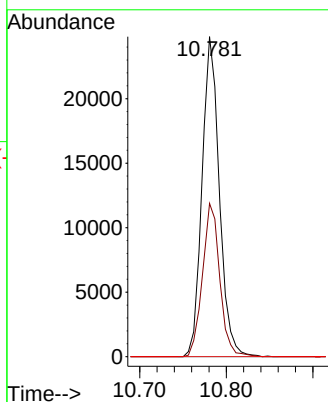
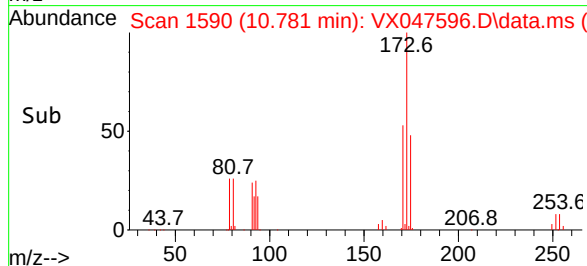
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



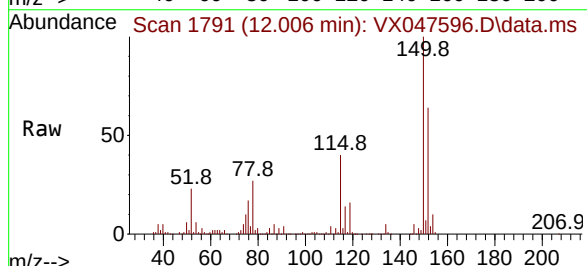
Tgt Ion:173 Resp: 34379
Ion Ratio Lower Upper
173 100
175 48.0 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

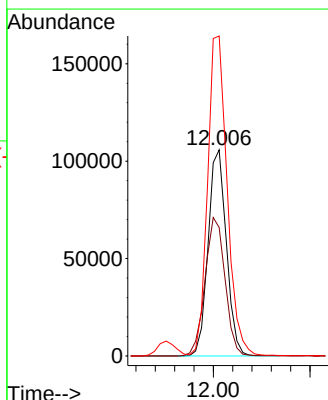
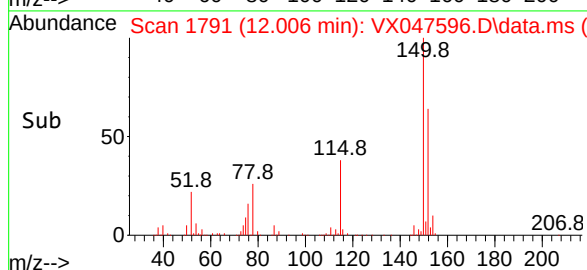
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

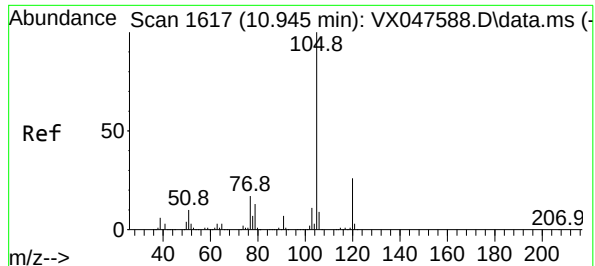


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46



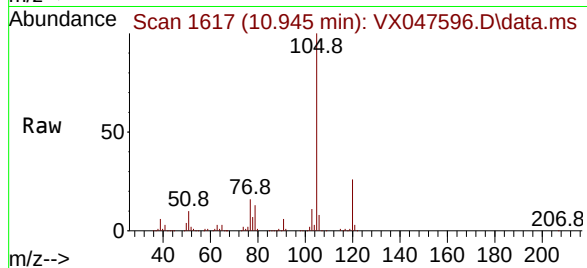
Tgt Ion:152 Resp: 138945
Ion Ratio Lower Upper
152 100
115 73.8 44.9 134.5
150 166.8 0.0 352.0





#73
Isopropylbenzene
Concen: 20.106 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

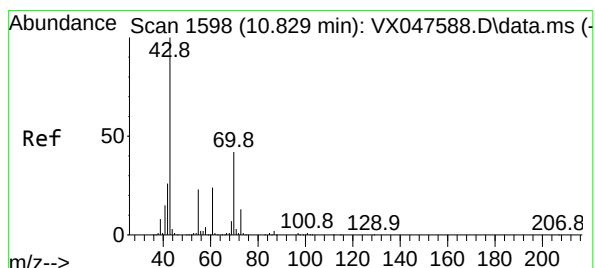
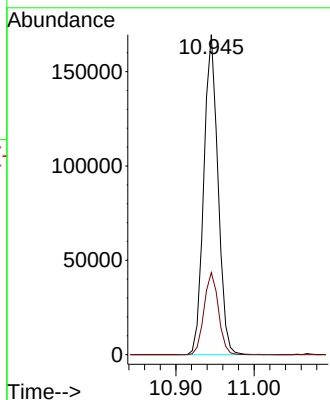
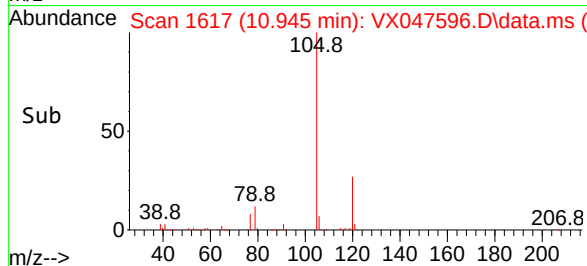
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



Tgt Ion:105 Resp: 21238
Ion Ratio Lower Upper
105 100
120 26.0 12.8 38.4

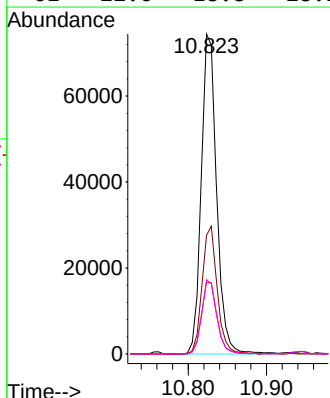
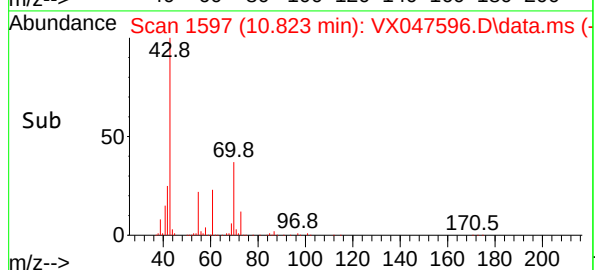
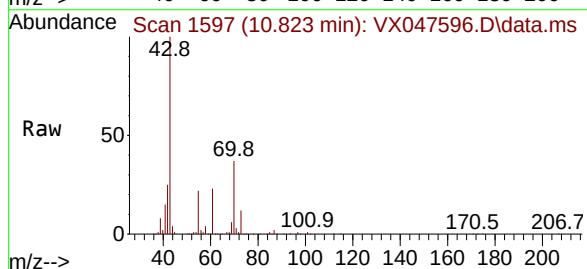
Manual Integrations
APPROVED

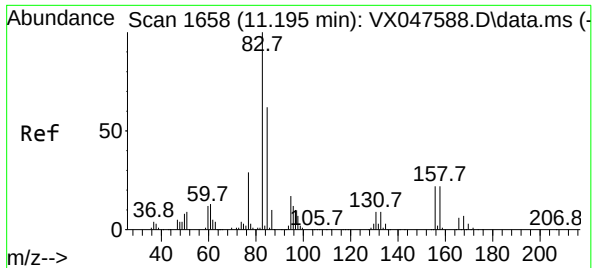
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 21.037 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 43 Resp: 101337
Ion Ratio Lower Upper
43 100
70 39.1 32.0 48.0
55 23.0 18.9 28.3
61 22.6 18.8 28.2





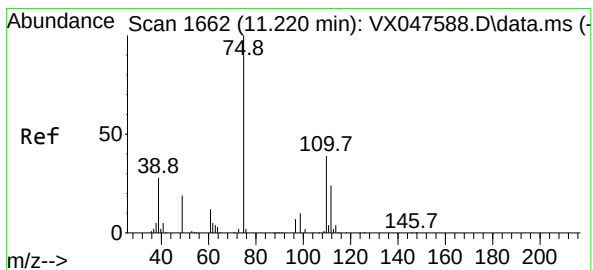
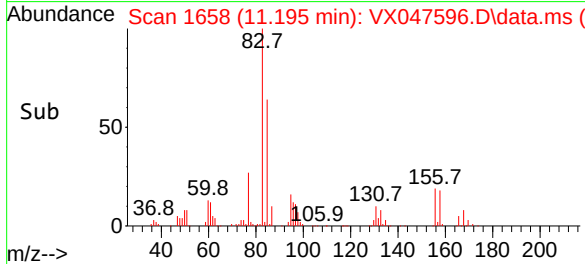
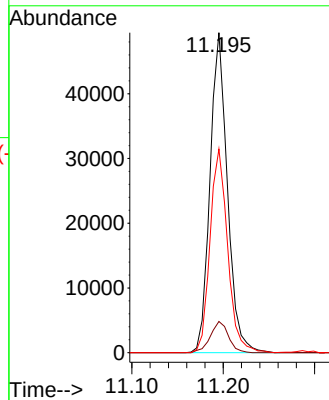
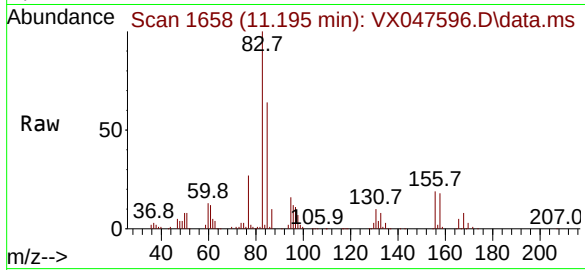
#75
1,1,2,2-Tetrachloroethane
Concen: 20.387 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Tgt Ion: 83 Resp: 65150
Ion Ratio Lower Upper
83 100
131 10.1 5.0 14.9
85 64.5 31.6 95.0

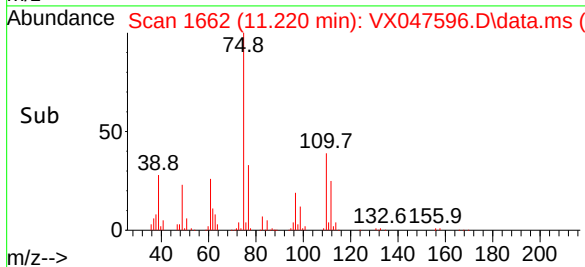
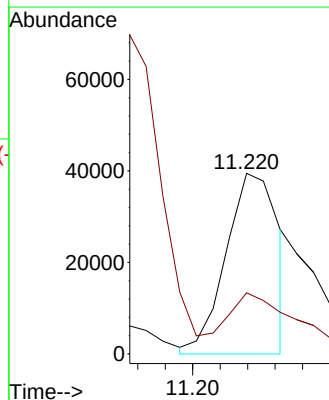
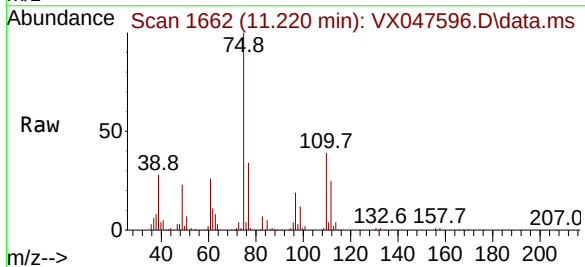
Manual Integrations
APPROVED

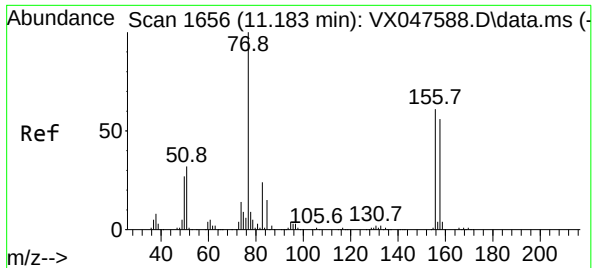
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 18.579 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 75 Resp: 52267
Ion Ratio Lower Upper
75 100
77 43.3 18.8 56.4





#77

Bromobenzene

Concen: 19.973 ug/l

RT: 11.183 min Scan# 1656

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

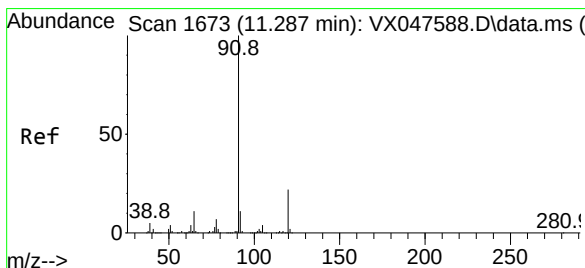
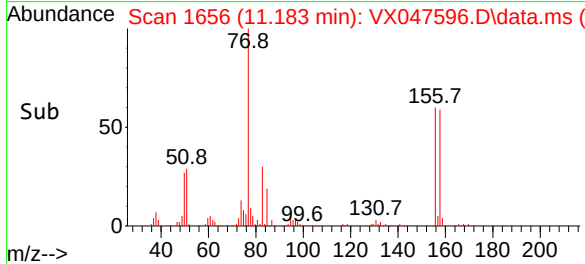
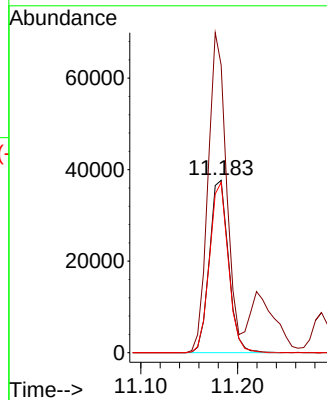
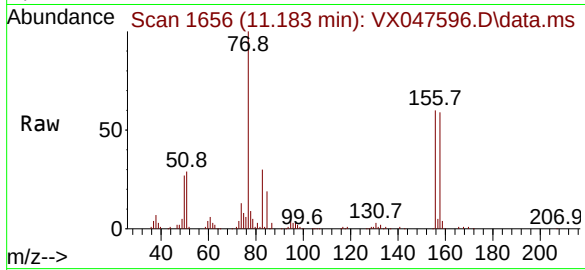
Tgt Ion:	156	Resp:	51964
Ion Ratio	Lower	Upper	
156	100		
77	177.5	89.7	269.1
158	97.1	47.9	143.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#78

n-propylbenzene

Concen: 20.400 ug/l

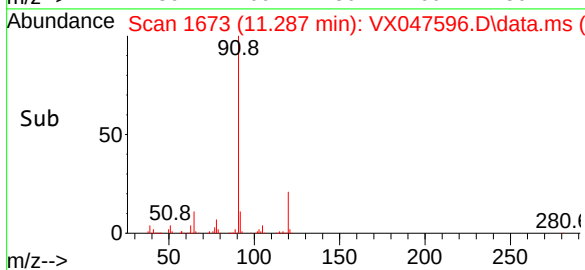
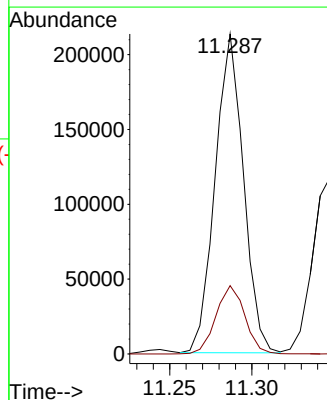
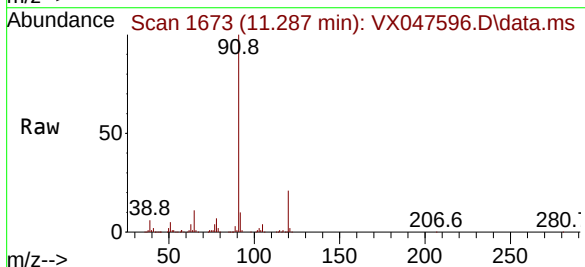
RT: 11.287 min Scan# 1673

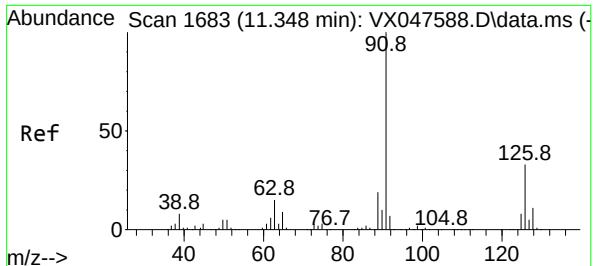
Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

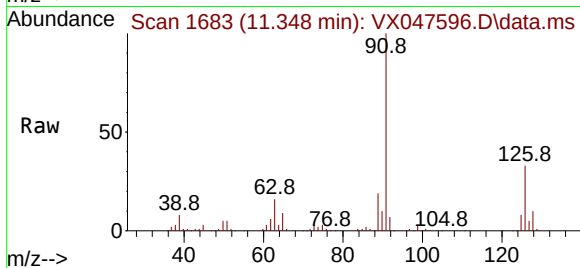
Tgt Ion:	91	Resp:	254737
Ion Ratio	Lower	Upper	
91	100		
120	21.9	11.1	33.1





#79
2-Chlorotoluene
Concen: 20.317 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

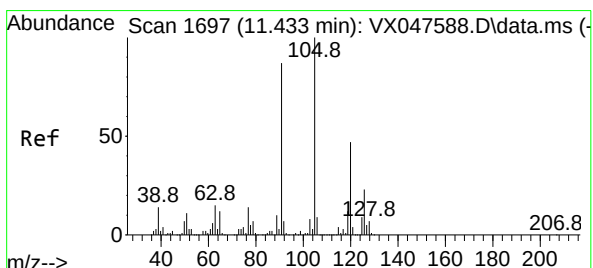
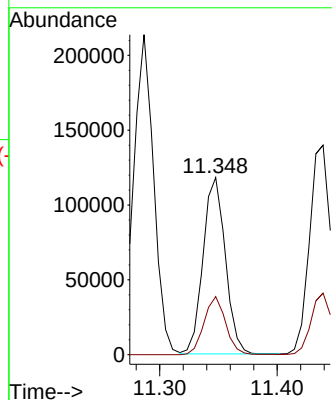
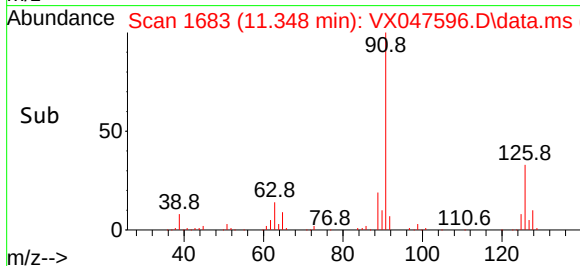
Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01



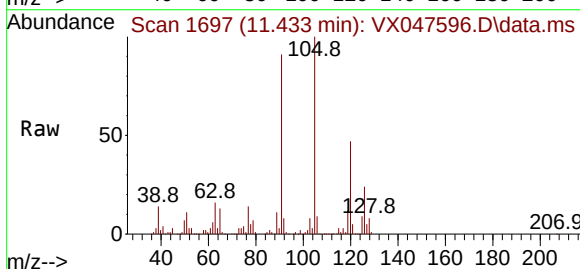
Tgt Ion: 91 Resp: 155389
Ion Ratio Lower Upper
91 100
126 32.0 16.1 48.3

Manual Integrations
APPROVED

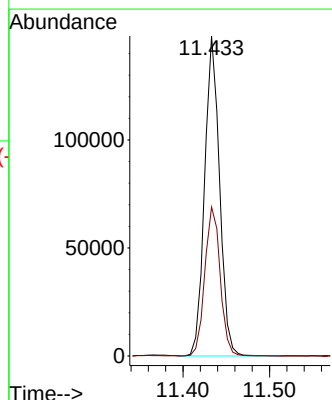
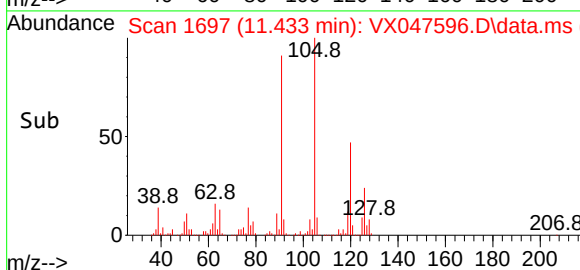
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

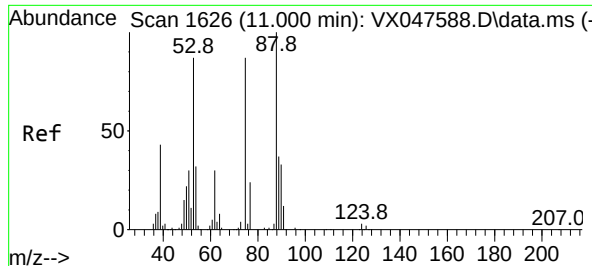


#80
1,3,5-Trimethylbenzene
Concen: 20.426 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46



Tgt Ion:105 Resp: 177272
Ion Ratio Lower Upper
105 100
120 47.9 23.6 70.8





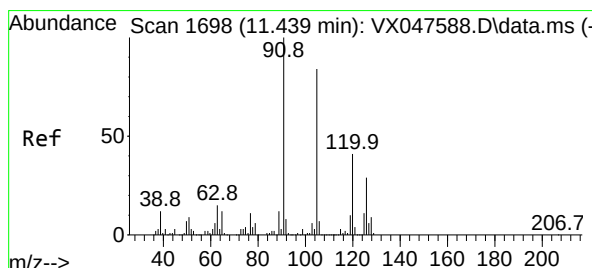
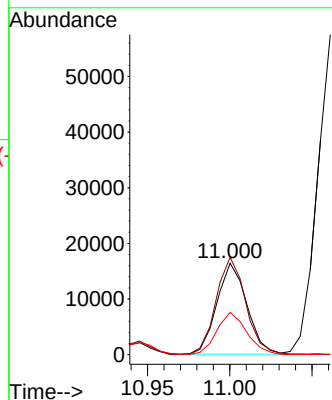
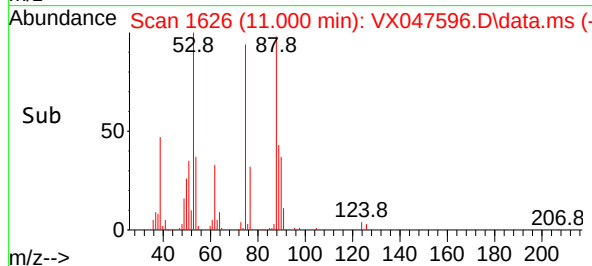
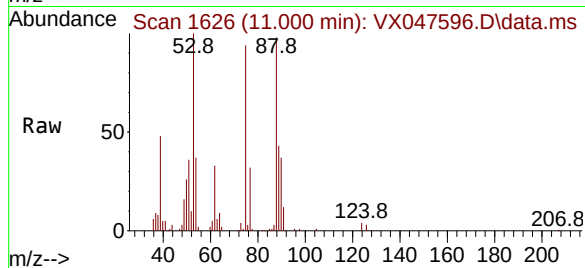
#81
trans-1,4-Dichloro-2-butene
Concen: 18.708 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Tgt Ion: 75 Resp: 20638
Ion Ratio Lower Upper
75 100
53 107.3 83.4 125.2
89 46.8 36.3 54.5

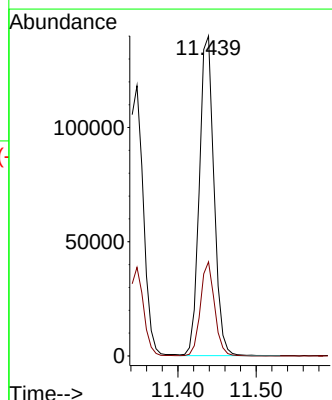
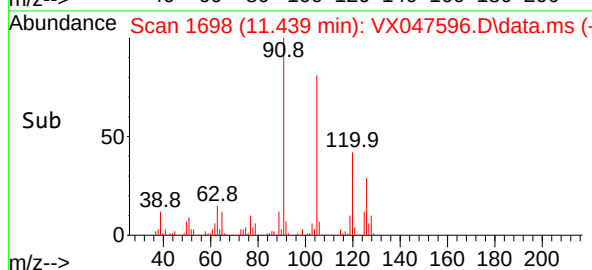
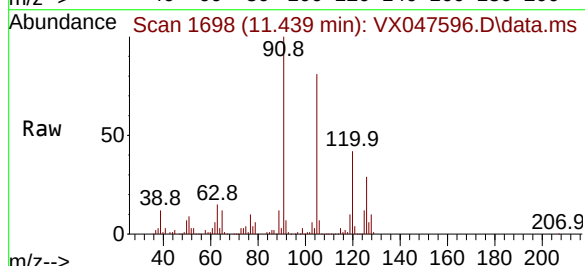
Manual Integrations
APPROVED

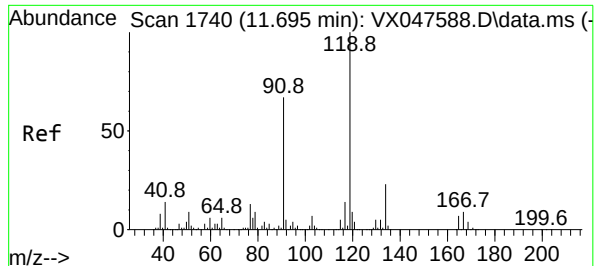
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 20.099 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 91 Resp: 181551
Ion Ratio Lower Upper
91 100
126 28.6 14.2 42.6





#83

tert-Butylbenzene

Concen: 20.234 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion:119 Resp: 17976

Ion Ratio Lower Upper

119 100

91 59.4 29.6 88.8

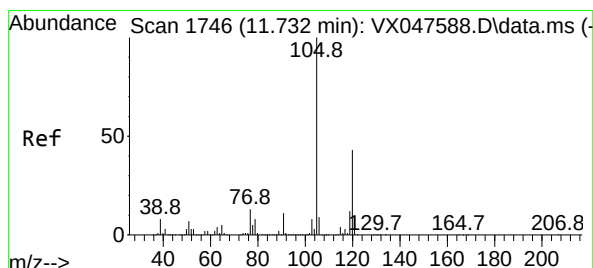
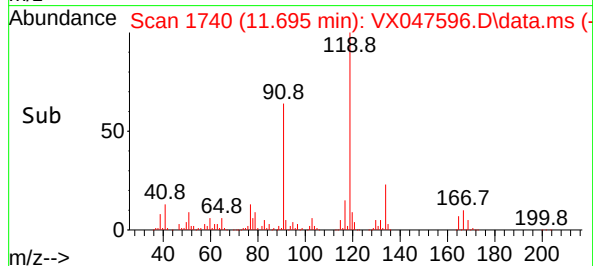
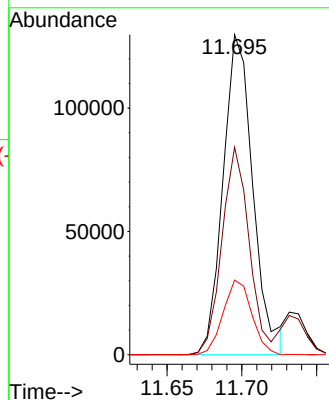
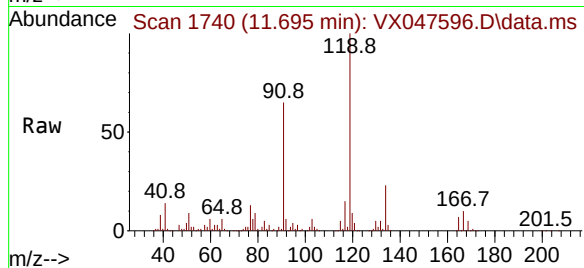
134 22.4 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 20.438 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. 0.000 min

Lab File: VX047596.D

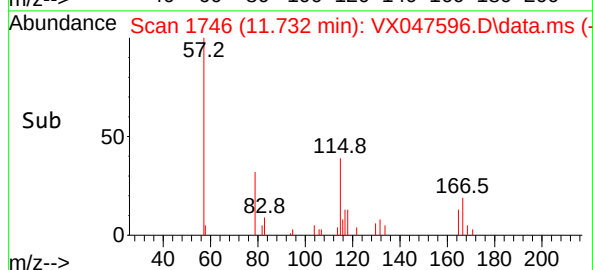
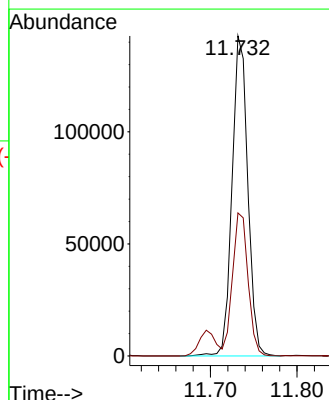
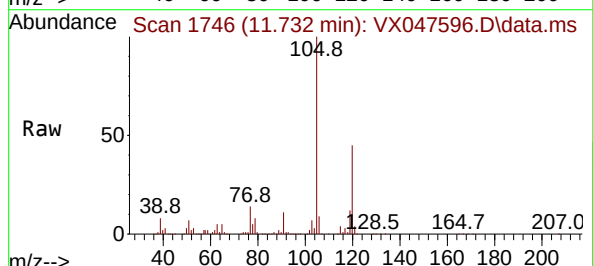
Acq: 16 Sep 2025 15:46

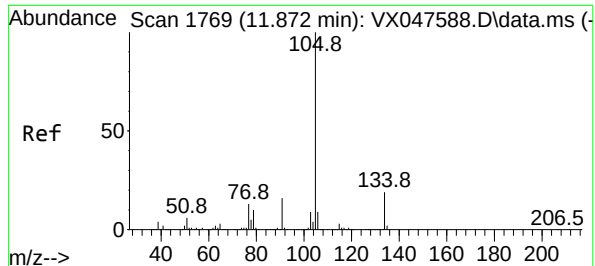
Tgt Ion:105 Resp: 179835

Ion Ratio Lower Upper

105 100

120 44.1 22.1 66.1





#85

sec-Butylbenzene

Concen: 20.753 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion:105 Resp: 21900

Ion Ratio Lower Upper

105 100

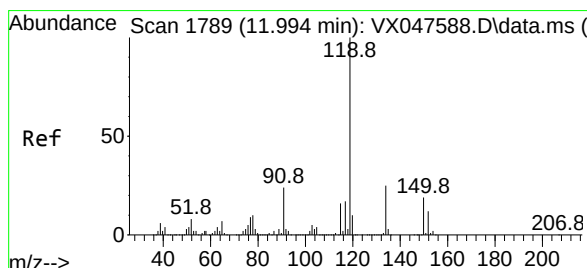
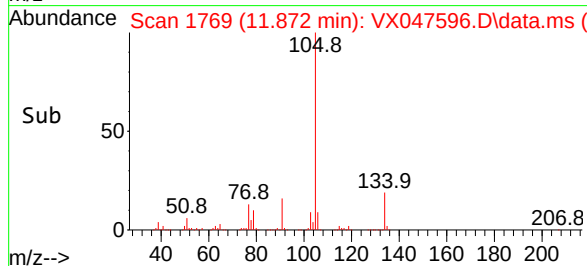
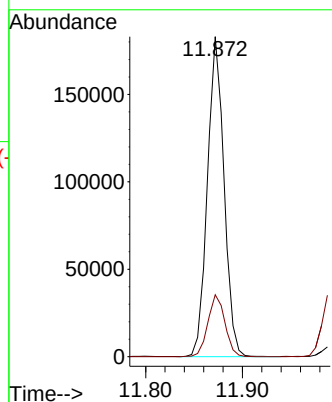
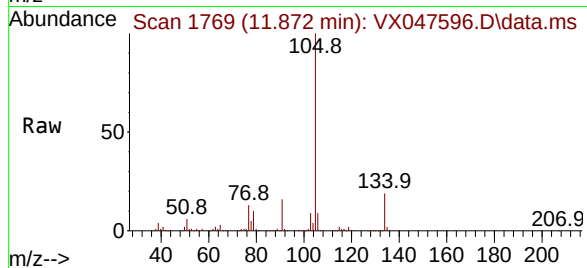
134 19.8 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#86

p-Isopropyltoluene

Concen: 20.579 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

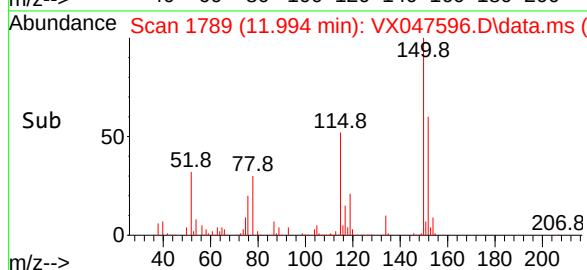
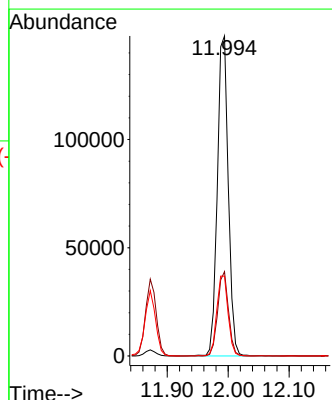
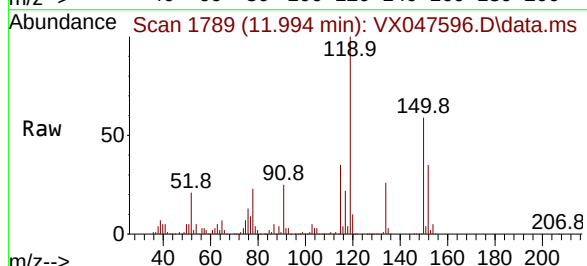
Tgt Ion:119 Resp: 183853

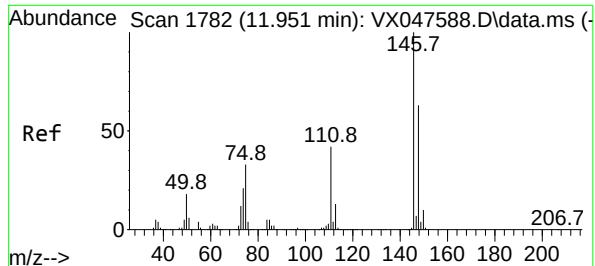
Ion Ratio Lower Upper

119 100

134 25.9 12.6 37.8

91 26.0 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 20.431 ug/l

RT: 11.951 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion:146 Resp: 98732

Ion Ratio Lower Upper

146 100

111 42.4 21.5 64.5

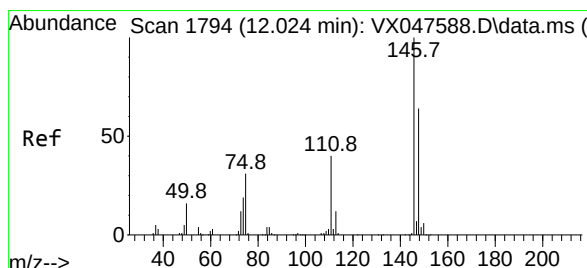
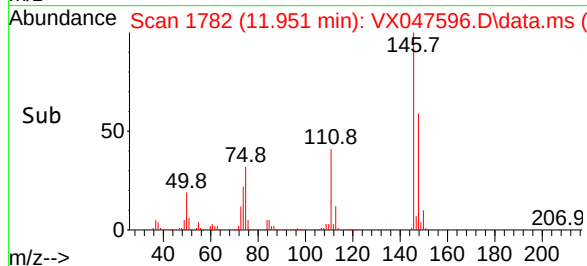
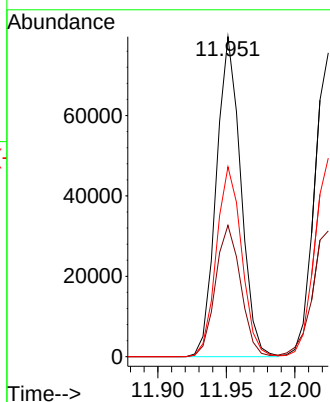
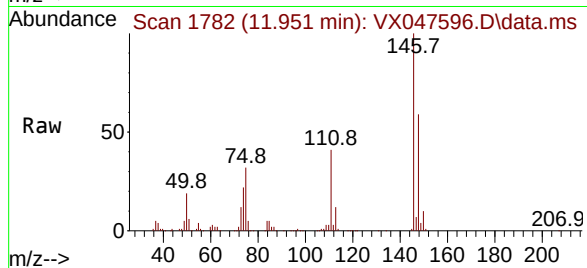
148 61.4 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 19.791 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

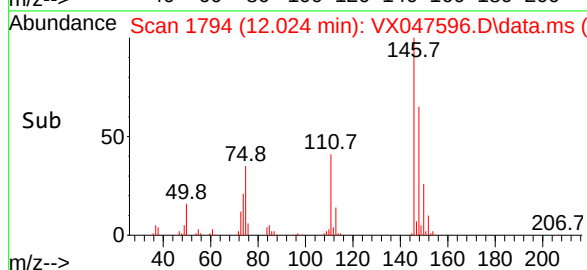
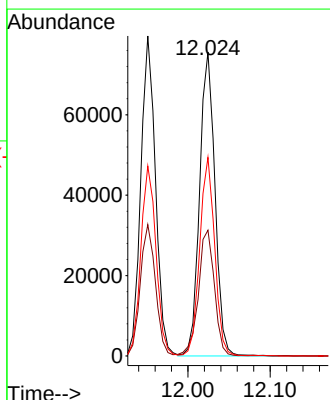
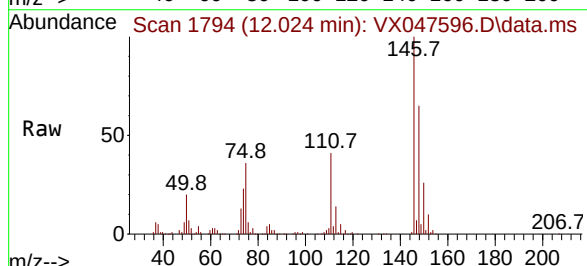
Tgt Ion:146 Resp: 98157

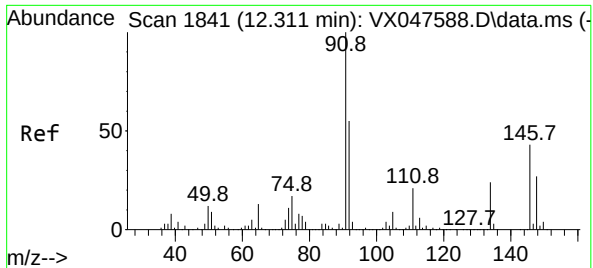
Ion Ratio Lower Upper

146 100

111 43.4 20.8 62.4

148 63.6 31.7 95.1





#89

n-Butylbenzene

Concen: 20.855 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion: 91 Resp: 172398

Ion Ratio Lower Upper

91 100

92 54.0 27.6 82.7

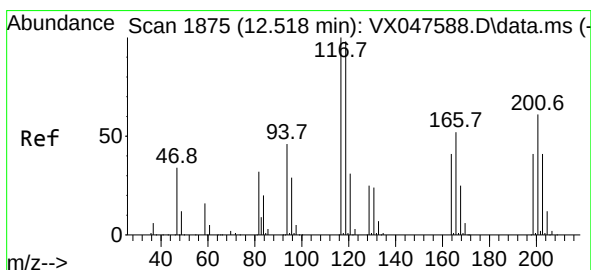
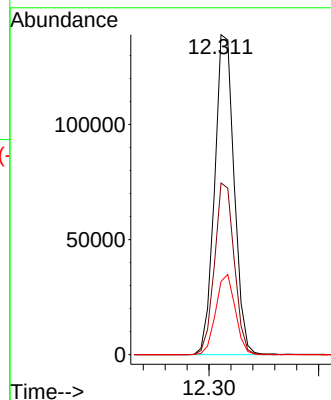
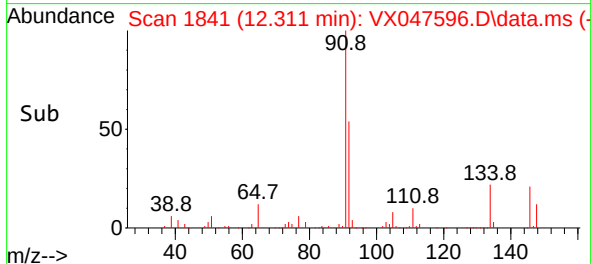
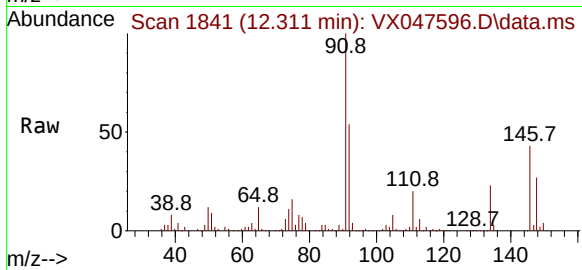
134 25.0 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 19.723 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VX047596.D

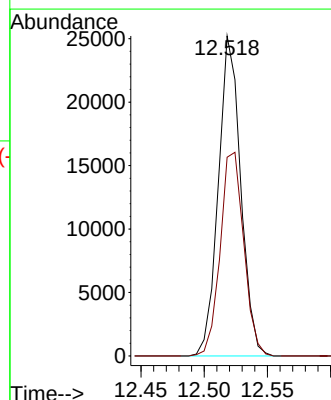
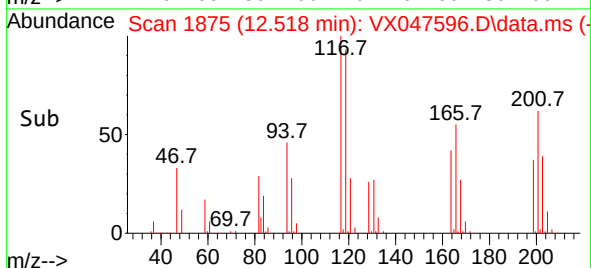
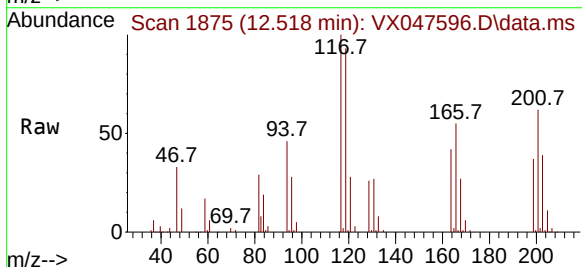
Acq: 16 Sep 2025 15:46

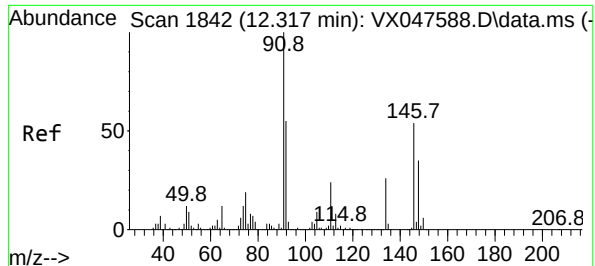
Tgt Ion:117 Resp: 30936

Ion Ratio Lower Upper

117 100

201 67.1 34.2 102.5





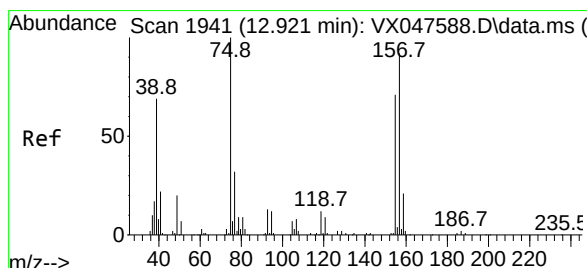
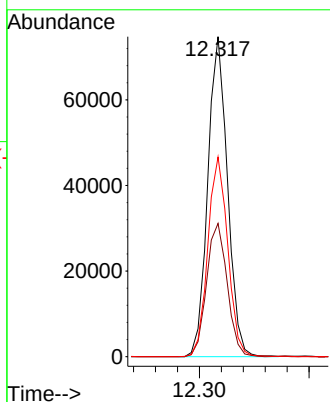
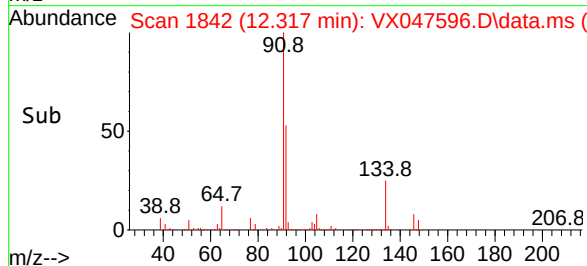
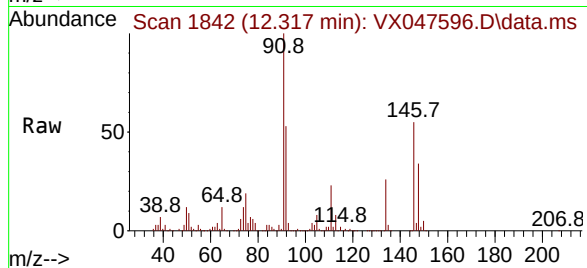
#91
1,2-Dichlorobenzene
Concen: 20.267 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Tgt Ion:146 Resp: 9330
Ion Ratio Lower Upper
146 100
111 43.6 22.2 66.6
148 63.3 31.8 95.4

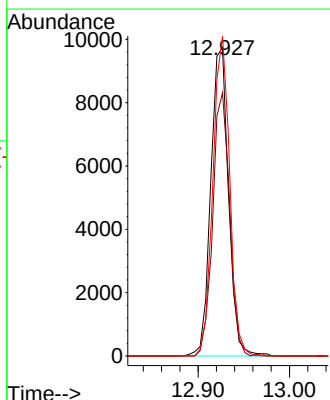
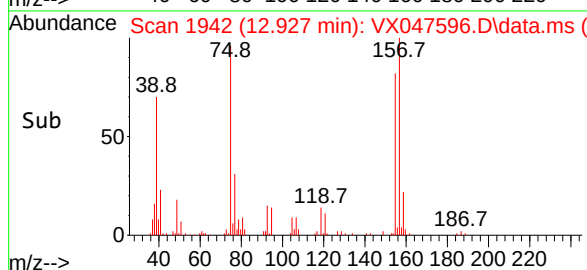
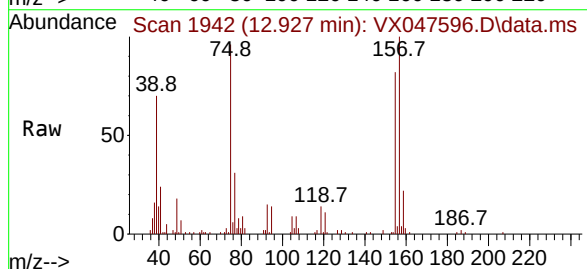
Manual Integrations
APPROVED

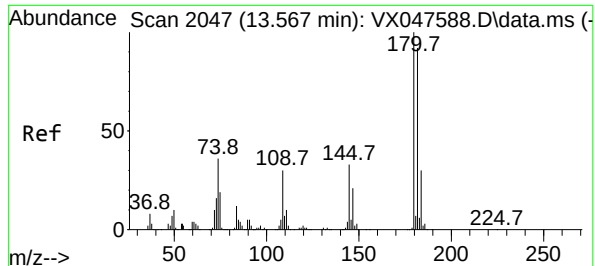
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.228 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 75 Resp: 13089
Ion Ratio Lower Upper
75 100
155 81.5 37.7 113.1
157 98.2 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 20.504 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion:180 Resp: 6135

Ion Ratio Lower Upper

180 100

182 94.7 46.6 139.8

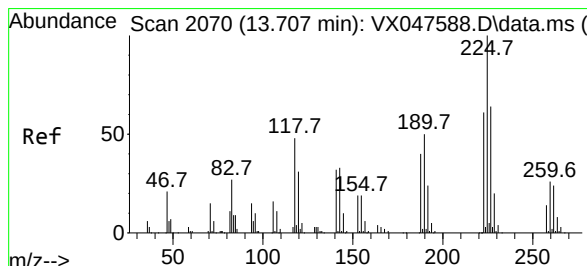
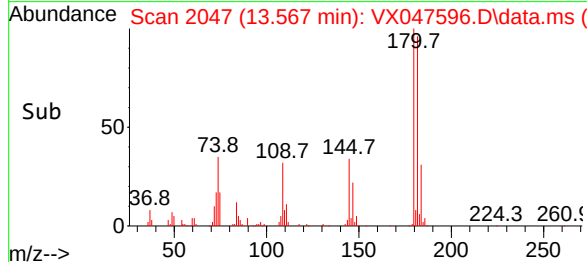
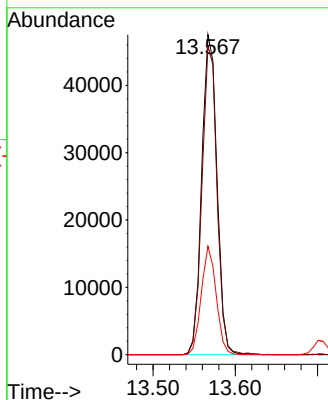
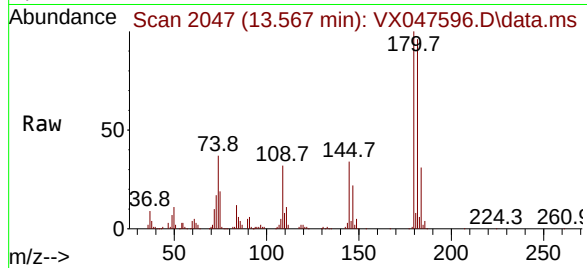
145 33.1 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 21.504 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

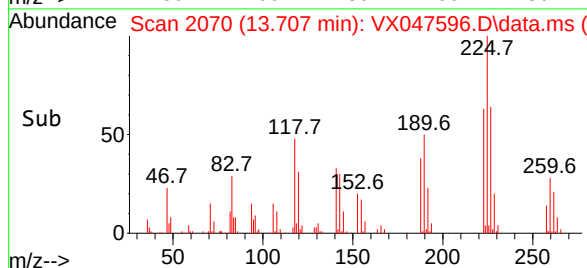
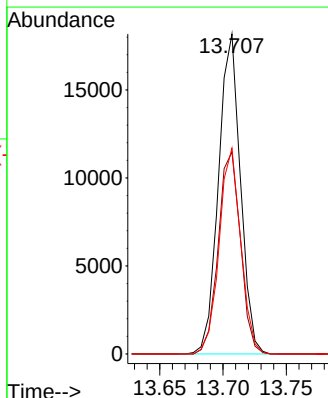
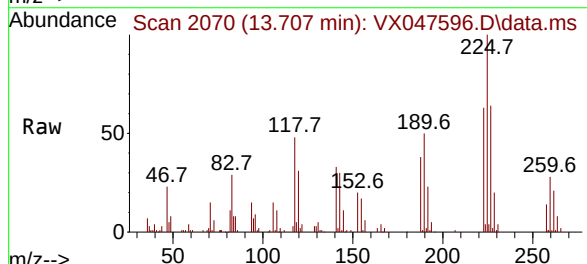
Tgt Ion:225 Resp: 21855

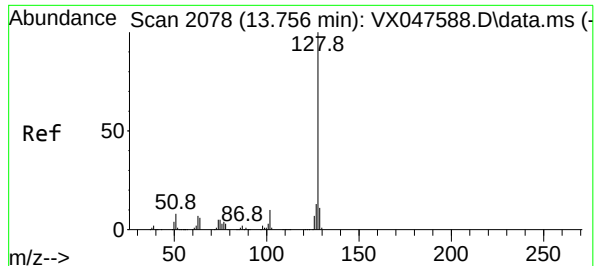
Ion Ratio Lower Upper

225 100

223 63.9 31.7 95.1

227 63.2 32.0 96.0





#95

Naphthalene

Concen: 20.470 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

Instrument :

MSVOA_X

ClientSampleId :

VX0916WBSD01

Tgt Ion:128 Resp: 186510

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

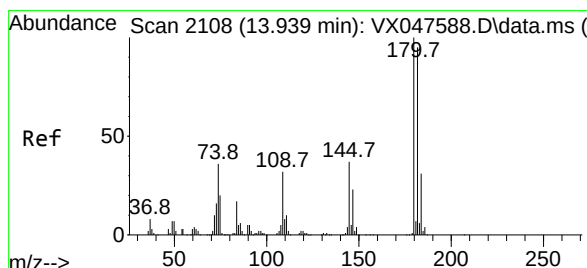
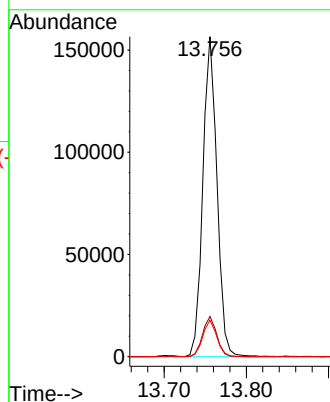
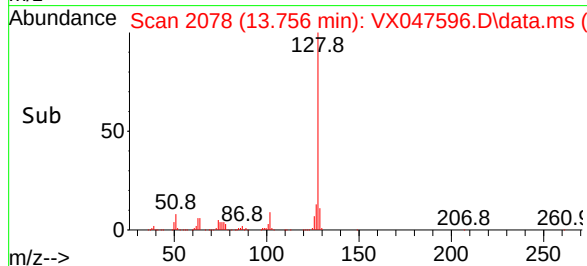
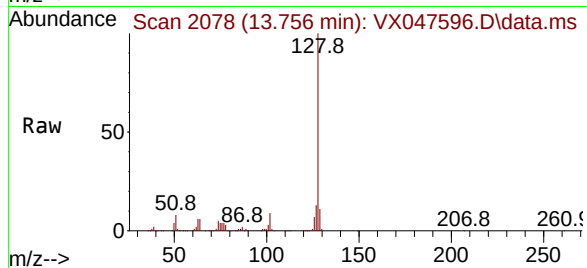
129 11.3 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#96

1,2,3-Trichlorobenzene

Concen: 20.862 ug/l

RT: 13.939 min Scan# 2108

Delta R.T. 0.000 min

Lab File: VX047596.D

Acq: 16 Sep 2025 15:46

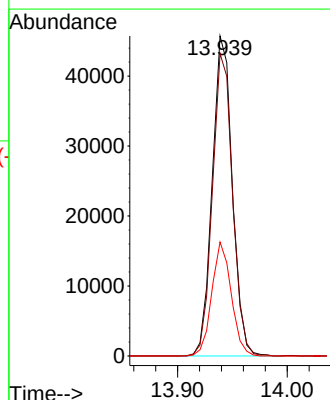
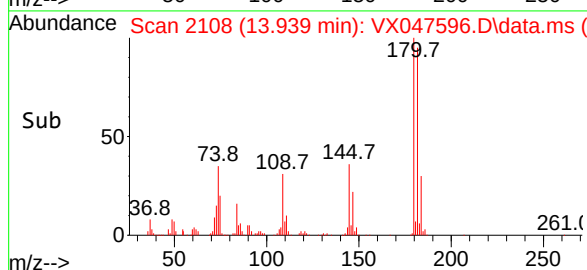
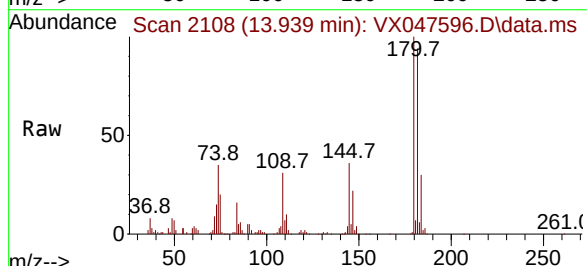
Tgt Ion:180 Resp: 58065

Ion Ratio Lower Upper

180 100

182 94.6 47.6 142.8

145 34.5 17.9 53.7



Manual Integration Report

Sequence:	vx091625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VX047585.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDIC001	VX047585.D	1,4-Dichlorobenzene	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDIC001	VX047585.D	1,4-Dioxane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDIC005	VX047586.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:50 AM	MMDadoda	9/18/2025 3:22:12 PM	Peak Integrated by Software
VSTDIC020	VX047587.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:57 AM	MMDadoda	9/18/2025 3:22:15 PM	Peak Integrated by Software
VSTDIC050	VX047588.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:01 AM	MMDadoda	9/18/2025 3:22:17 PM	Peak Integrated by Software
VSTDIC100	VX047589.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:06 AM	MMDadoda	9/18/2025 3:22:20 PM	Peak Integrated by Software
VSTDIC150	VX047590.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:11 AM	MMDadoda	9/18/2025 3:22:24 PM	Peak Integrated by Software
VSTDICV050	VX047592.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:15 AM	MMDadoda	9/18/2025 3:22:26 PM	Peak Integrated by Software
VX0916WBS01	VX047595.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:20 AM	MMDadoda	9/18/2025 3:22:48 PM	Peak Integrated by Software
VX0916WBSD01	VX047596.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:29 AM	MMDadoda	9/18/2025 3:22:28 PM	Peak Integrated by Software
Q3015-01	VX047597.D	1,3-Dichlorobenzene	MMDadoda	9/23/2025 6:26:50 AM	SAM	9/23/2025 6:27:15 AM	Peak Integrated by Software
Q3015-01	VX047597.D	Bromochloromethane	MMDadoda	9/23/2025 6:26:50 AM	SAM	9/23/2025 6:27:15 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vx091625

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047599.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:34 AM	MMDadoda	9/18/2025 3:22:31 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:22:52 PM
SubDirectory	VX091625	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135487		
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494		
CCC	VP135488		
Internal Standard/PEM			
ICV/I.BLK	VP135495		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047584.D	16 Sep 2025 08:56	JC/MD	Ok
2	VSTDIC001	VX047585.D	16 Sep 2025 09:23	JC/MD	Ok,M
3	VSTDIC005	VX047586.D	16 Sep 2025 10:16	JC/MD	Ok,M
4	VSTDIC020	VX047587.D	16 Sep 2025 10:37	JC/MD	Ok,M
5	VSTDIC050	VX047588.D	16 Sep 2025 10:58	JC/MD	Ok,M
6	VSTDIC100	VX047589.D	16 Sep 2025 11:40	JC/MD	Ok,M
7	VSTDIC150	VX047590.D	16 Sep 2025 12:01	JC/MD	Ok,M
8	IBLK	VX047591.D	16 Sep 2025 12:22	JC/MD	Ok
9	VSTDICV050	VX047592.D	16 Sep 2025 13:35	JC/MD	Ok,M
10	VX0916MBL01	VX047593.D	16 Sep 2025 14:03	JC/MD	Ok
11	VX0916WBL01	VX047594.D	16 Sep 2025 14:53	JC/MD	Ok
12	VX0916WBS01	VX047595.D	16 Sep 2025 15:21	JC/MD	Ok,M
13	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46	JC/MD	Ok,M
14	Q3015-01	VX047597.D	16 Sep 2025 16:07	JC/MD	Ok,M
15	VIBLK	VX047598.D	16 Sep 2025 16:30	JC/MD	Ok
16	VSTDIC050	VX047599.D	16 Sep 2025 16:51	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM
Supervise By	Maresh Dadoda	Supervise On	9/18/2025 3:22:52 PM
SubDirectory	VX091625	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135487		
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494		
CCC	VP135488		
Internal Standard/PEM			
ICV/I.BLK	VP135495		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047584.D	16 Sep 2025 08:56		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX047585.D	16 Sep 2025 09:23		JC/MD	Ok,M
3	VSTDIC005	VSTDIC005	VX047586.D	16 Sep 2025 10:16	QR-58	JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX047587.D	16 Sep 2025 10:37		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX047588.D	16 Sep 2025 10:58		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX047589.D	16 Sep 2025 11:40		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX047590.D	16 Sep 2025 12:01		JC/MD	Ok,M
8	IBLK	IBLK	VX047591.D	16 Sep 2025 12:22		JC/MD	Ok
9	VSTDICV050	ICVVX091625	VX047592.D	16 Sep 2025 13:35		JC/MD	Ok,M
10	VX0916MBL01	VX0916MBL01	VX047593.D	16 Sep 2025 14:03		JC/MD	Ok
11	VX0916WBL01	VX0916WBL01	VX047594.D	16 Sep 2025 14:53		JC/MD	Ok
12	VX0916WBS01	VX0916WBS01	VX047595.D	16 Sep 2025 15:21		JC/MD	Ok,M
13	VX0916WBSD01	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46		JC/MD	Ok,M
14	Q3015-01	WP0925-PT-VOA-WP	VX047597.D	16 Sep 2025 16:07		JC/MD	Ok,M
15	VIBLK	VIBLK	VX047598.D	16 Sep 2025 16:30		JC/MD	Ok
16	VSTDIC050	VSTDIC050EC	VX047599.D	16 Sep 2025 16:51		JC/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q3015

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: vx091625,

Standard ID :

VP134142,VP134145,VP134149,VP134151,VP134263,VP134742,VP134933,VP134935,VP134956,VP134957,VP135059,VP135061,VP135123,VP135480,VP135482,VP135484,VP135487,VP135488,VP135489,VP135490,VP135491,VP135492,VP135493,VP135494,VP135495,

Chemical ID :

V12968,V13391,V13450,V13583,V13584,V13823,V14129,V14182,V14290,V14444,V14446,V14507,V14508,V14529,V14530,V14625,V14626,V14629,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14702,V14705,V14716,V14745,V14751,V14795,V14806,V14807,V14843,V14906,V14921,V14929,V14974,V14996,V15066,V15067,V15068,V15069,V15070,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>
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
253	8260 Working STD (BCM)-First source, 20PPM	VP134145	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 0.50000ml of V14675 + 49.50000ml of V14929 = 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>
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025
<u>FROM</u>	1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1812	8260 Working Std(2-CVE)-100ppm	VP134151	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025
<u>FROM</u>	0.25000ml of V14639 + 24.75000ml of V14929 = 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>
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP134263	06/11/2025	11/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/12/2025

FROM 0.60000ml of V13584 + 1.00000ml of V13583 + 18.40000ml of V14921 = Final Quantity: 20.000 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>
262	8260 Working STD (BCM)-Second source, 100PPM	VP134742	07/14/2025	01/07/2026	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/23/2025

FROM 1.00000ml of V12968 + 9.00000ml of V14629 = Final Quantity: 10.000 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	VP134933	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/19/2025

FROM 0.40000ml of V14906 + 24.60000ml of V14625 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1738	8260 surrogate 20 ppm	VP134935	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/06/2025

FROM 0.02000ml of V14906 + 24.99000ml of V14625 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP134956	08/01/2025	11/09/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/06/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14626 = 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>
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
245	8260 Calibration Working STD Mix-First source, 20PPM	VP135061	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025
<u>FROM</u> 17.50000ml of V14625 + 2.50000ml of VP135059 = Final Quantity: 20.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP135123	08/14/2025	09/30/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 08/19/2025
<u>FROM</u>	0.16000ml of V13450 + 0.40000ml of V14996 + 0.80000ml of V13823 + 0.80000ml of V14129 + 0.80000ml of V14182 + 0.80000ml of V14795 + 0.80000ml of V14974 + 4.24000ml of V14625 = Final Quantity: 10.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135480	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/19/2025
<u>FROM</u> 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = 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>
180	8260 Working STD (Acrolein)-First source, 100PPM	VP135482	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/19/2025

FROM 17.50000ml of V14625 + 2.50000ml of VP135480 = Final Quantity: 20.000 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>
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP135484	09/16/2025	10/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/19/2025

FROM 0.60000ml of V15070 + 1.00000ml of V15069 + 8.40000ml of V14625 = Final Quantity: 10.000 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>
589	BFB TUNE CHECK	VP135487	09/16/2025	09/17/2025	John Carlone	None	None	Maresh Dadoda
								09/19/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = 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	VP135488	09/16/2025	09/17/2025	John Carlone	None	None	Maresh Dadoda
								09/19/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135480 = 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>
334	1 PPB ICC, 8260-Water	VP135489	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.98200ml of W3112 + 0.00200ml of VP134145 + 0.00200ml of VP134151 + 0.00200ml of VP134935 + 0.00200ml of VP135061 + 0.00200ml of VP135482 + 0.00800ml of VP134956 = Final Quantity: 40.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
335	5 PPB ICC, 8260-Water	VP135490	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.94200ml of W3112 + 0.00800ml of VP134956 + 0.01000ml of VP134145 + 0.01000ml of VP134151 + 0.01000ml of VP134935 + 0.01000ml of VP135061 + 0.01000ml of VP135482 = 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>
337	20 PPB ICC, 8260-Water	VP135491	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.97000ml of W3112 + 0.00200ml of VP134142 + 0.00200ml of VP134933 + 0.00500ml of VP134149 + 0.00500ml of VP135059 + 0.00500ml of VP135480 + 0.00800ml of VP134956 = 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>
380	50 PPB ICC, 8260-Water	VP135492	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135480 = 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>
381	100 PPB ICC, 8260-Water	VP135493	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.89700ml of W3112 + 0.00800ml of VP134956 + 0.01000ml of VP134142 + 0.01000ml of VP134933 + 0.02500ml of VP134149 + 0.02500ml of VP135059 + 0.02500ml of VP135480 = Final Quantity: 40.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
382	150 PPB ICC, 8260-Water	VP135494	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.84950ml of W3112 + 0.00800ml of VP134956 + 0.01500ml of VP134142 + 0.01500ml of VP134933 + 0.03750ml of VP134149 + 0.03750ml of VP135059 + 0.03750ml of VP135480 = 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>
385	50 PPB ICV, 8260-Water	VP135495	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025
<u>FROM</u> 39.92950ml of W3112 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134263 + 0.01250ml of VP135123 + 0.01250ml of VP135484 + 0.02000ml of VP134742 = Final Quantity: 40.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/14/2026	07/14/2025 / SAM	07/06/2022 / SAM	V12968

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	11/15/2025	05/15/2025 / SAM	01/23/2023 / SAM	V13450

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13583

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13584

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0197644	02/14/2026	08/14/2025 / SAM	05/31/2023 / SAM	V13823

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	02/14/2026	08/14/2025 / SAM	01/17/2024 / SAM	V14129

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	02/14/2026	08/14/2025 / SAM	02/20/2024 / SAM	V14182

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14444

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	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14446

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	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14507

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14508

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	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14529

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	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14530

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)	2310762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	2310762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	2310762004	01/09/2026	07/07/2025 / SAM	11/26/2024 / SAM	V14629

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14702

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14705

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14716

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14745

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	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220563	12/23/2025	06/23/2025 / SAM	01/08/2025 / SAM	V14795

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	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14806

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	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14807

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	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

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)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0220531	02/14/2026	08/14/2025 / SAM	05/19/2025 / SAM	V14974

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	A0220242	01/25/2026	07/25/2025 / SAM	06/02/2023 / SAM	V14996

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15066

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15067

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)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15068

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091325	10/13/2025	09/16/2025 / sam	09/16/2025 / sam	V15069

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091325	10/13/2025	09/16/2025 / sam	09/16/2025 / sam	V15070

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance



CERTIFIED WEIGHT REPORT

Part Number: **95319**
Lot Number: **011624**
Description: **Revised Additions Mix**

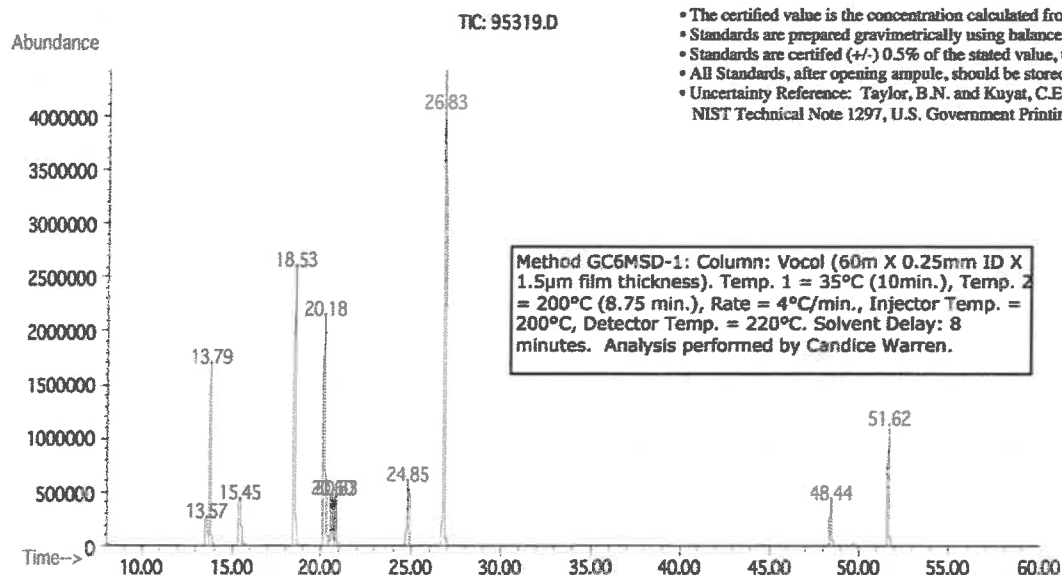
Solvent(s): **Lot#**
Methanol EH471-US

Expiration Date: **011627**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **Varied**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **100.0**
5E-05 Balance Uncertainty
0.021 Flask Uncertainty

		011624
Formulated By:	Prashant Chauhan	DATE
		011624
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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).

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021524**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: BUTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

		021524
Formulated By:	Mario Luis	DATE
		021524
Reviewed By:	Pedro L. Rentes	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

														SDS Information		
														(Solvent Safety Info. On Attached pg.)		
Compound	(RM#)	Lot	Dr.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	CAS#	OSHA PEL (TWA)	LD50
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc. (µg/mL)	(+/-) (µg/mL)			
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2450mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102398	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8h)	or-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21080	2000.2	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP8041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-5	N/A	N/A
6. Diethyl ether	(0153)	JK18CASA000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	061826PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-83-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8716V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm (28mg/m3/8h) (skin)	or-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8h)	or-rat 2450mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	128-98-7	1 ppm (3mg/m3/8h) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	96-33-3	10 ppm (35mg/m3/8h) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8h)	or-rat 787mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8h) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20670	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	78-13-1	1000 ppm (7600mg/m3/8h)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-60-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 800mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-36-4	1 ppm (4mg/m3/8h)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.8mg/m3/8h)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-06-3	N/A	or-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8h) (final)	or-rat 262mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8h)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8h)	or-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8h)	or-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8h)	or-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	ure-mus 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8h)	or-rat 62mg/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 (45mg/m3/8h) (skin)	or-rat 836mg/kg
43. Trichloroethane	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8h)	or-mus 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8h)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat 2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-8	N/A	or-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1300mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	95-63-6	N/A	or-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	or-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8h)	or-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-6	N/A	or-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8h)	or-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-5	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA</						

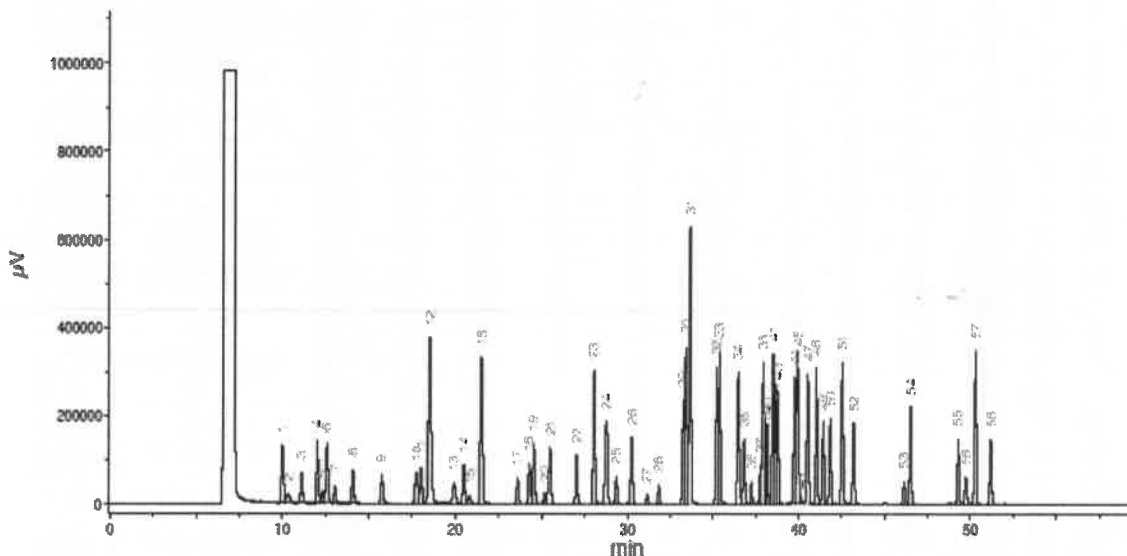


Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocool 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.34
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	22.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,2-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,2-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.18
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.39
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.72
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.32
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16



Ree 03117/24

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#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(K049)	Lot	DR	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)	Uncertainty	(+/-) (µg/mL)	CASE	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 2450mg/kg	
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	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	0.21056	0.21069	2001.1	8.5	1478-11-5	NA	N/A	
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	NA	N/A	
6. Diethyl ether	(0153)	IK18CASA000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	NA	N/A	
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	NA	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 76mg/kg	
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 2460mg/kg	
10. Methacrylonitrile	(0472)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg	
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg	
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg	
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg	
14. 2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg	
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	NA	N/A	
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	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	NA	or-rat 915mg/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	NA	or-rat 848mg/kg	
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	158-59-2	NA	N/A	
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	158-60-5	NA	N/A	
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 1235mg/kg	
22. 1,1-Dichloroethane	32261	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	20.4	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg	
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	58-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.4	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg	
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg	
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	74-95-3	NA	N/A	
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	75-34-3	100 ppm	or-rat 108mg/kg	
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	NA	N/A	
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.8	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	40018.5	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-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	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	108-93-4	20 ppm (8H)	or-rat 108mg/kg	
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg	
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	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	NA	or-mus 3600mg/kg	
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	NA	N/A	
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	NA	N/A	
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	NA	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 82mg/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	830-20-6	NA	or-rat 670mg/kg	
42. 1,1,2-Trichloroethane	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	
43. Trichloroethene	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg	
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg	
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/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 4894mg/kg	
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	NA	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	104-51-8	NA	N/A	
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg	
50. Naphthalene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	NA	or-rat 4750mg/kg	
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	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	1999.8	22.9	108-88-3	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	1999.7	22.9	87-81-6	NA	or-mus 1390mg/kg	
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	NA	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	108-87-8	NA	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	108-38-3	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	1999.8	22.9	98-06-6	NA	N/A	
60. Chlorobenzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	NA	N/A	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2240mg/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 2290mg/kg	
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	NA	or-rat 3900mg	

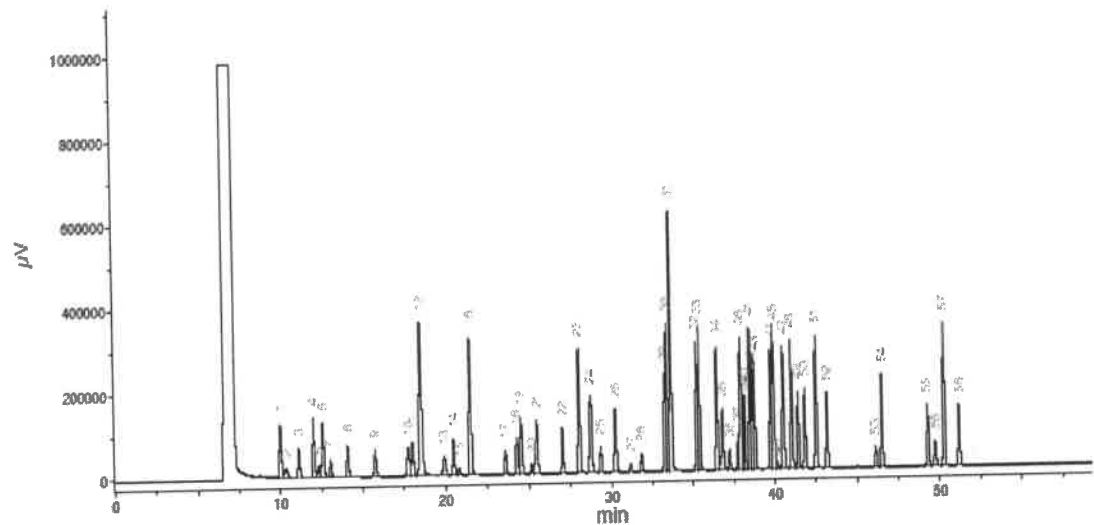


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methoxyvinylbenzene/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethene	28.03
23	Toluene	28.73
24	Ethyl methacrylate/trans-1,2-Dichloroethene	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	33.06
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.70
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
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, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	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)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ree 03117/24

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#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KME) Part Number	Lot Number	Dir. Factor	Initial Vol. (mL)	Initial Conc. (µg/mL)	Nominal Conc. (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc. (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
														CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	0324	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	0325	102366	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	0.21056	0.21069	2001.1	8.5	1478-11-6	N/A	N/A
5. trans-1,4-Dichloro-2-butene	0486	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	0153	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	0381	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	0489	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	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 3460mg/kg
10. Methacrylonitrile	0442	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	1075	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	0404	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	0228	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	0461	HG002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Pentachloroethane	0460	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	0474	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	NA	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.4	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-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	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	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 106mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/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-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40005.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	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	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	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	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	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	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-mus 1062mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or-rat

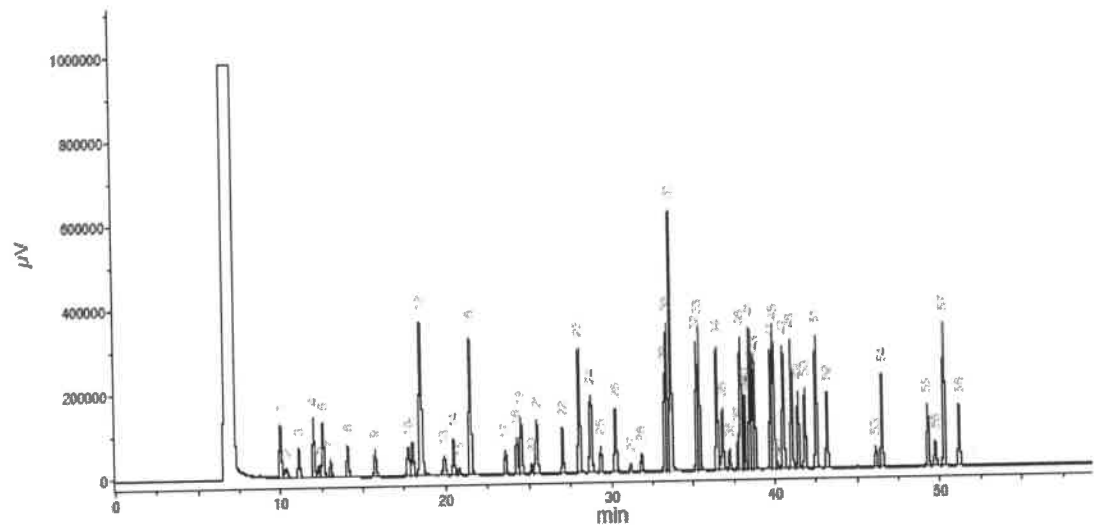


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methoxyvinylbenzene/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2-Pentene	27.07
22	cis-1,2-Dichloroethene	28.03
23	Toluene	28.73
24	Ethyl methacrylate/trans-1,2-Dichloroethene	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	33.06
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.70
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.58
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.26
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
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, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	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)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified 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: **Acrolein**Solvent(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

<i>Justin Dippold</i>		091424
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		091424
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	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.

Abundance TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- 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 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water Lot#
072324Q

<i>Justin Dippold</i>		091424
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		091424
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

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.

Abundance TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **111722**
Description: **2-Chloroethyl vinyl ether**

Solvent(s): **Methanol**
Lot#: **EB679-US**

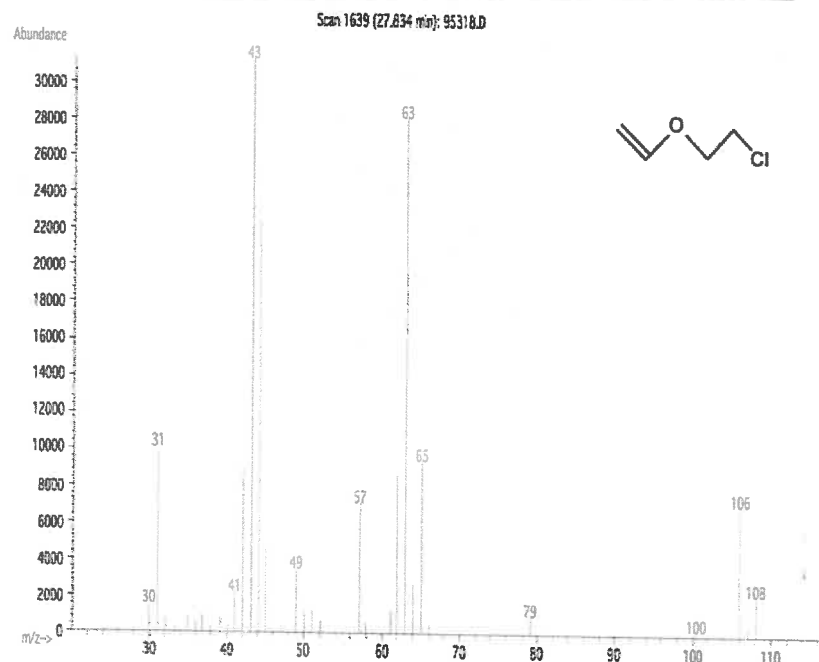
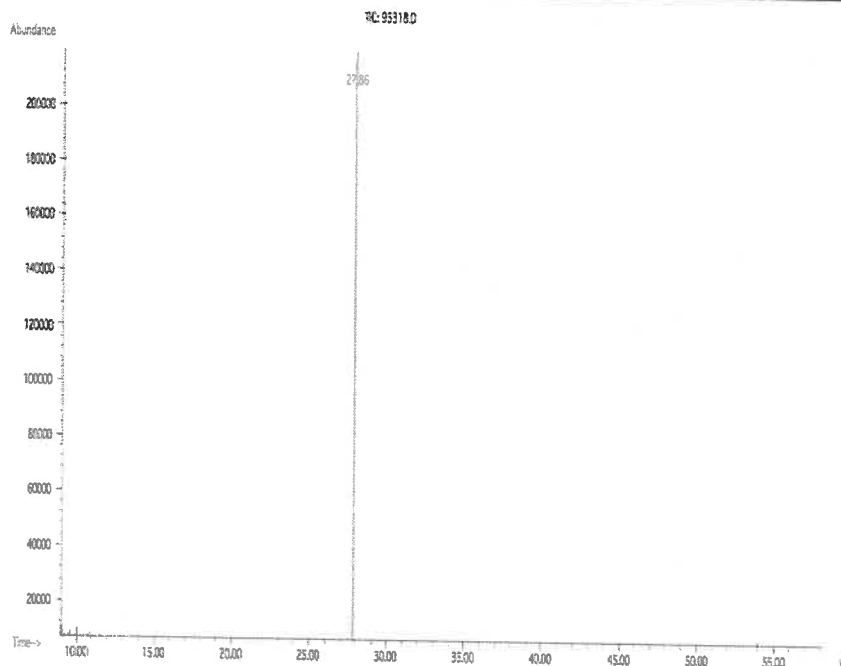
Expiration Date: **111725**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **111722**
Description: **2-Chloroethyl vinyl ether**

Solvent(s): **Methanol**
Lot#: **EB679-US**

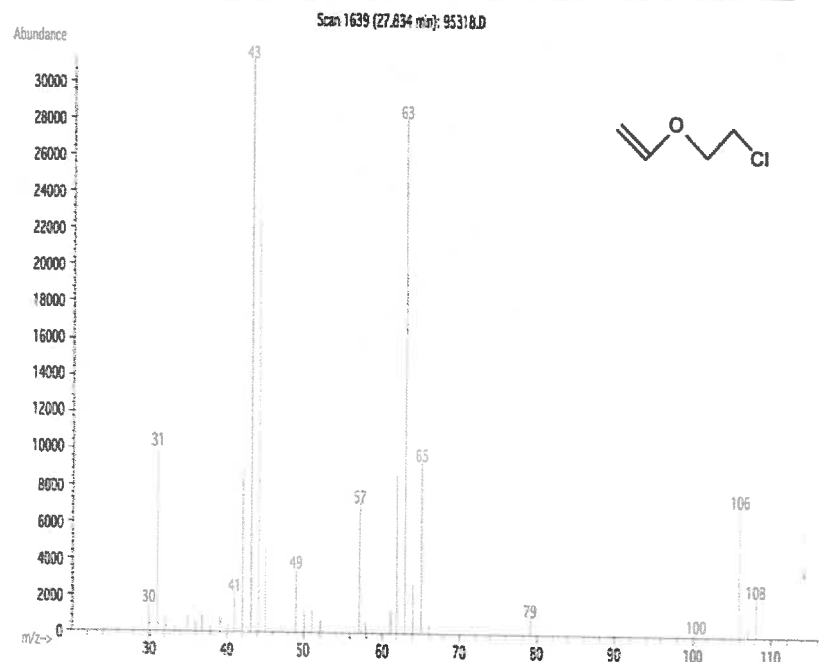
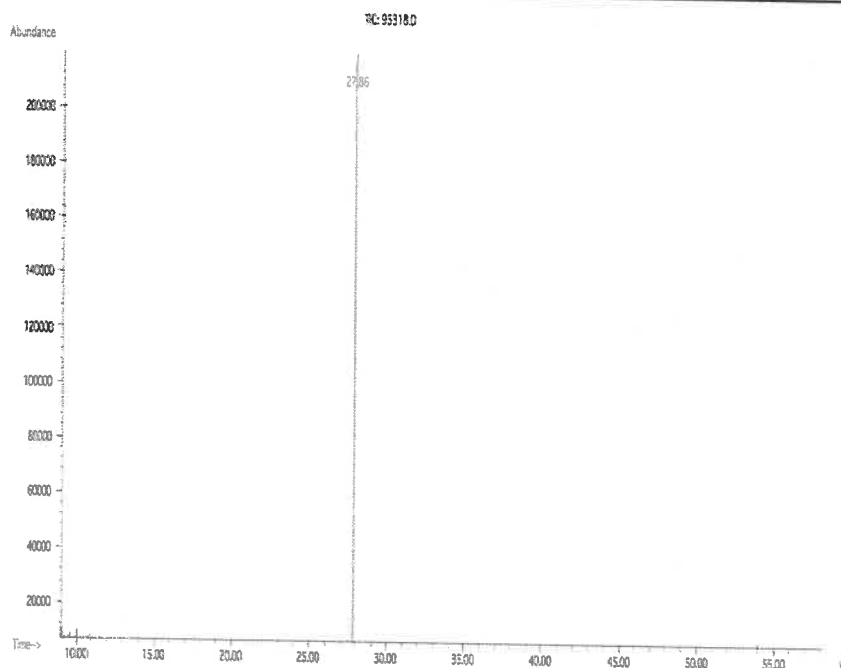
Expiration Date: **111725**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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**

See 1216124
20 vial
✓ 14630 to
✓ 14649

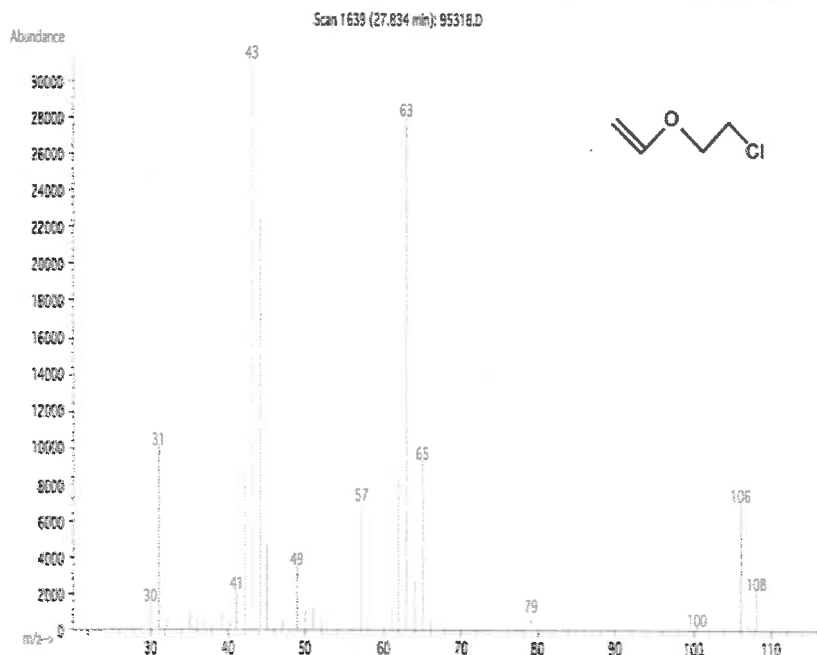
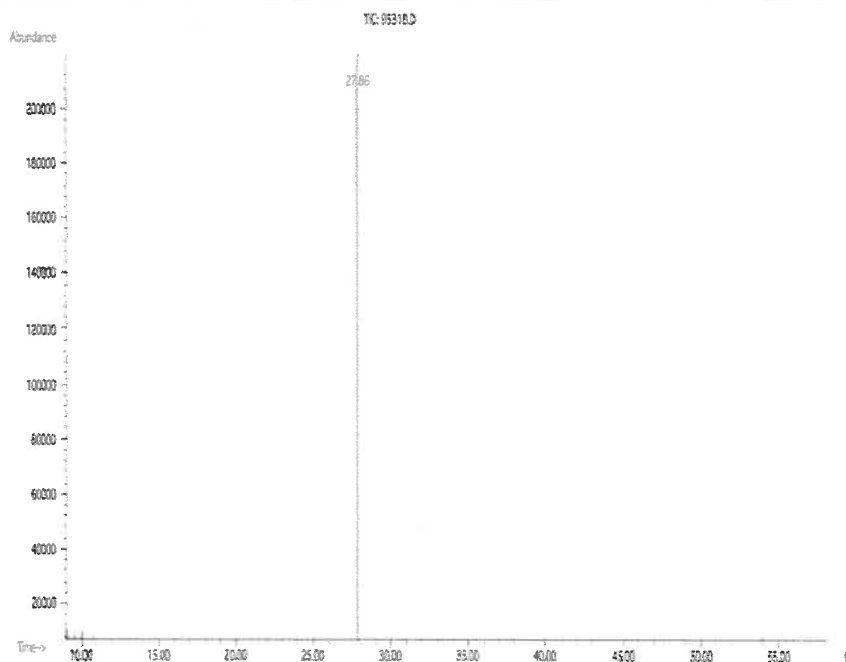
Weight(s) shown below were combined and diluted to (mL): **50.0**

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

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).

GHS/OSHA Compliant

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rosotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

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

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

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.

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.

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).

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.

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**

See 1216124
20 vial
✓ 14630 to
✓ 14649

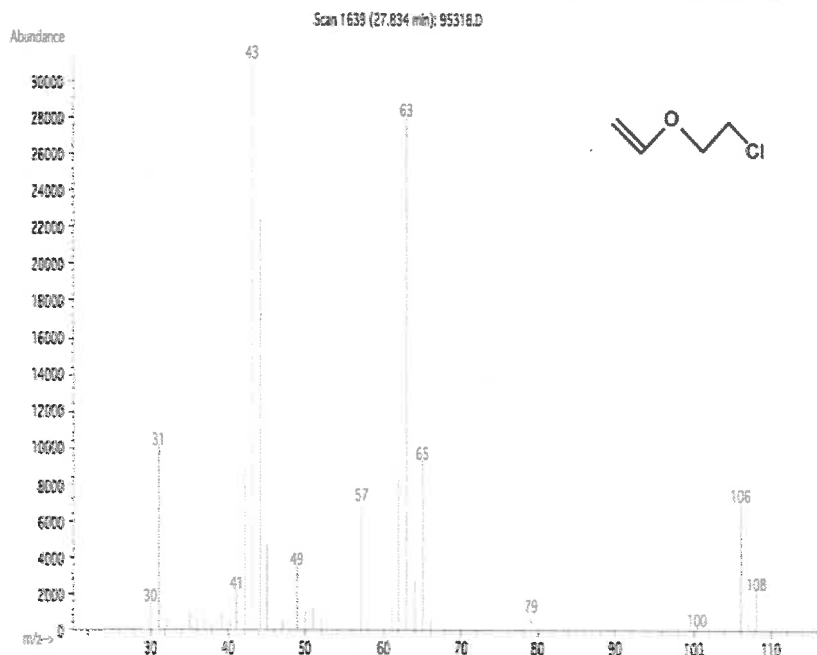
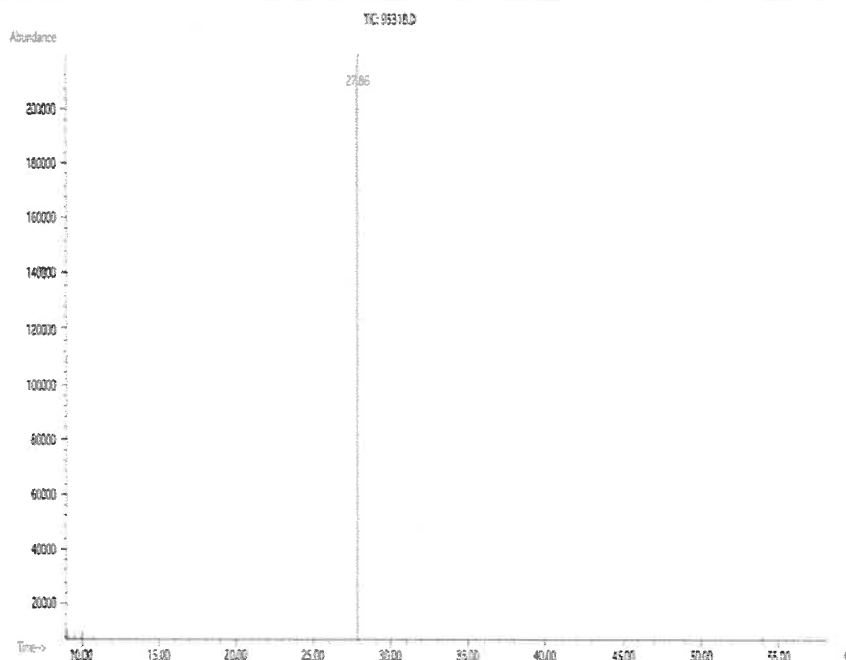
Weight(s) shown below were combined and diluted to (mL): **50.0**

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

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	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: **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**

See 1216124
20 vial
✓ 14630 to
✓ 14649

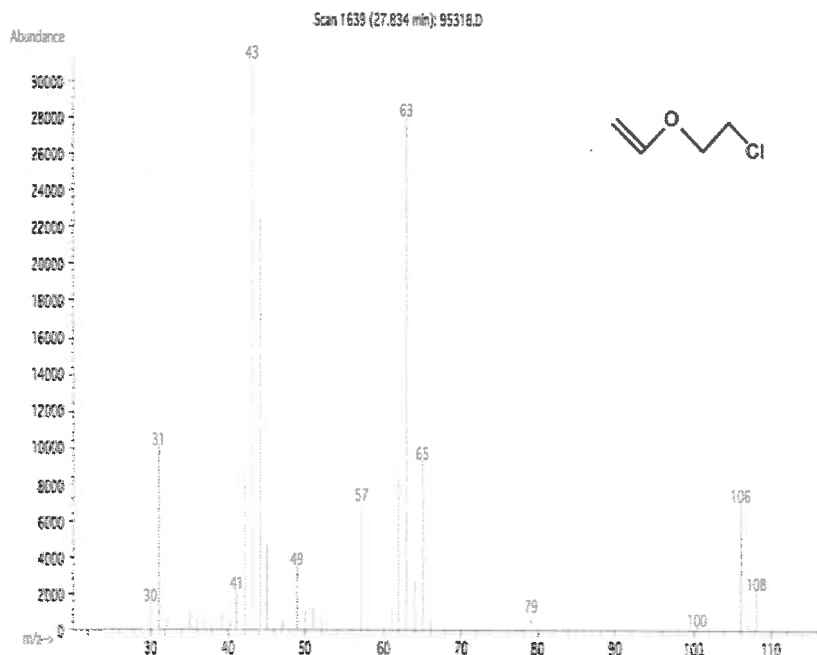
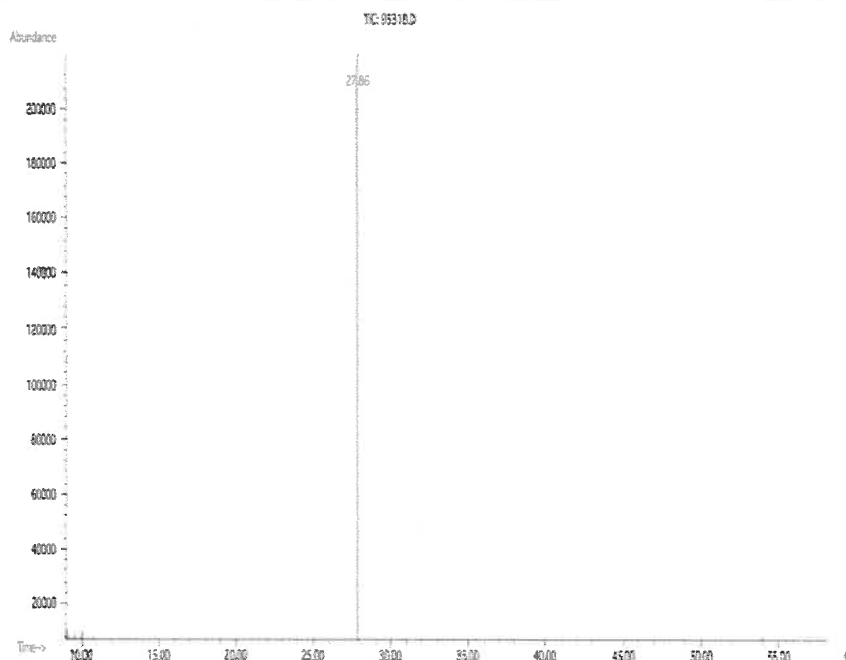
Weight(s) shown below were combined and diluted to (mL): **50.0**

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

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).

GHS/OSHA Compliant

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rosotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

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

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.

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.

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.

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).

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.

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: **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**

See 1216124
20 vial
✓ 14630 to
✓ 14649

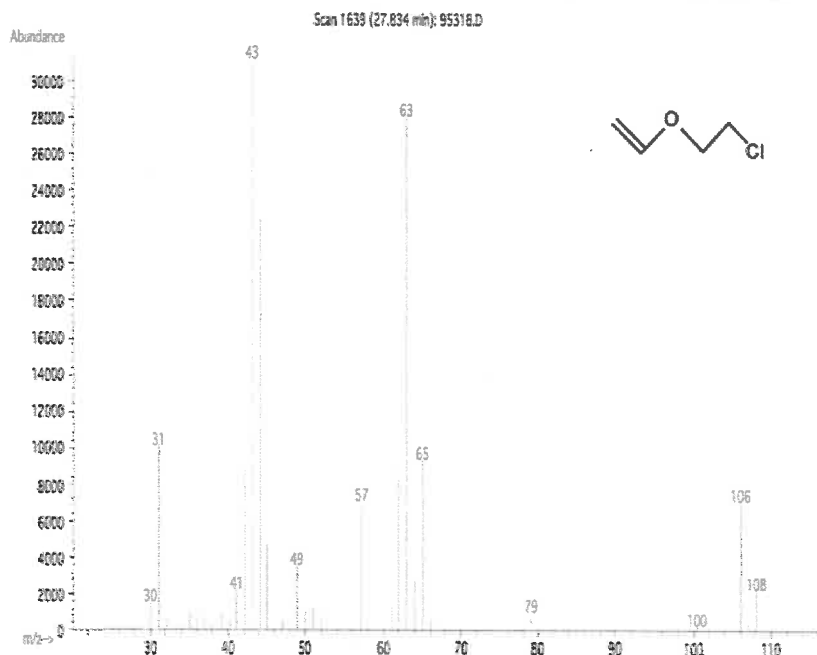
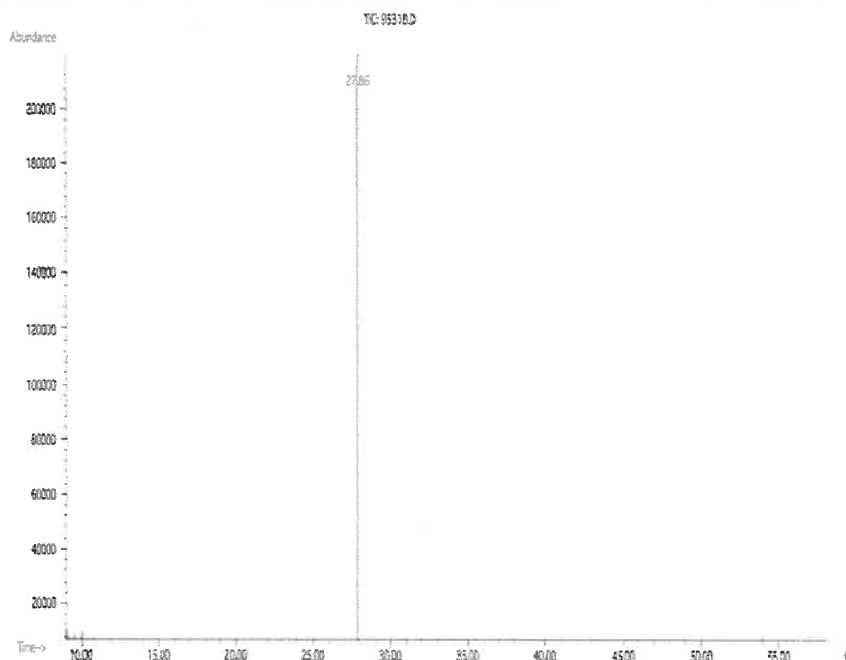
Weight(s) shown below were combined and diluted to (mL): **50.0**

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

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	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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0191703
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : November 30, 2025 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot 101619K21F-1)	50,122.0 µg/mL	 +/- 293.4753 µg/mL Gravimetric +/- 1,073.6797 µg/mL Unstressed +/- 1,104.8612 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

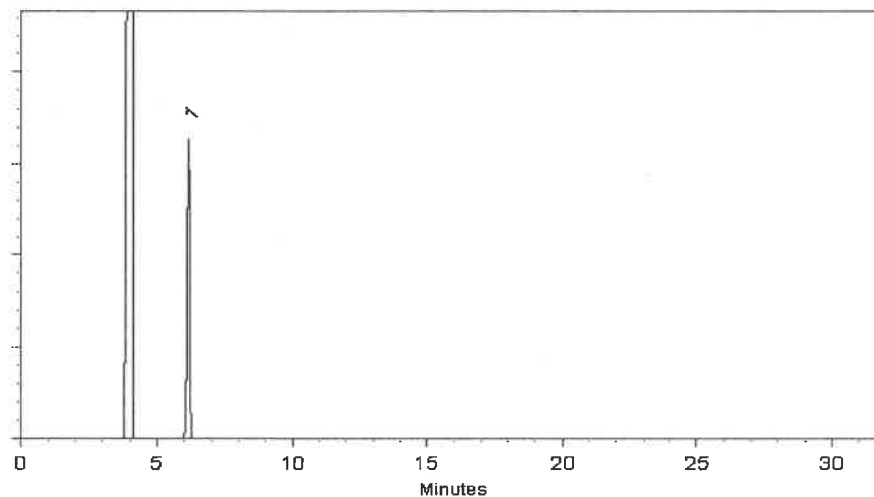
200°C

Det. Temp:

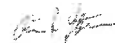
250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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:

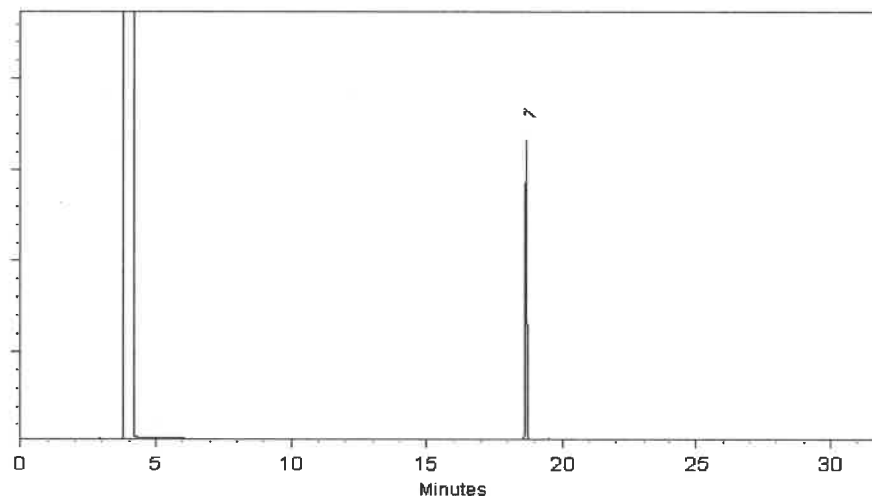
FID

Split Vent:

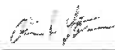
40 ml/min

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.



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. : 30042 **Lot No.:** A0197644

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2030 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

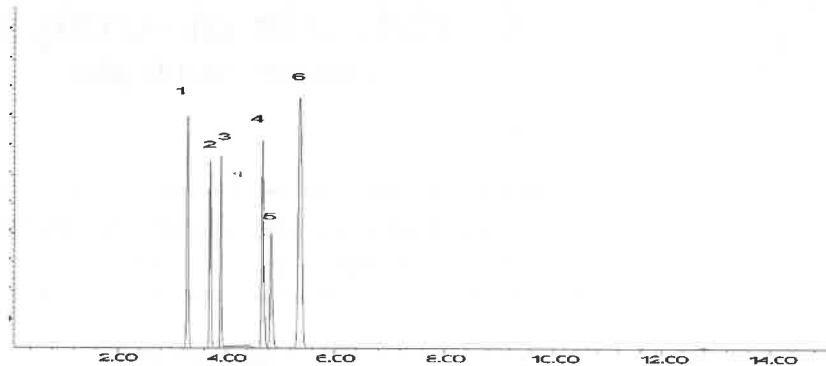
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

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. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

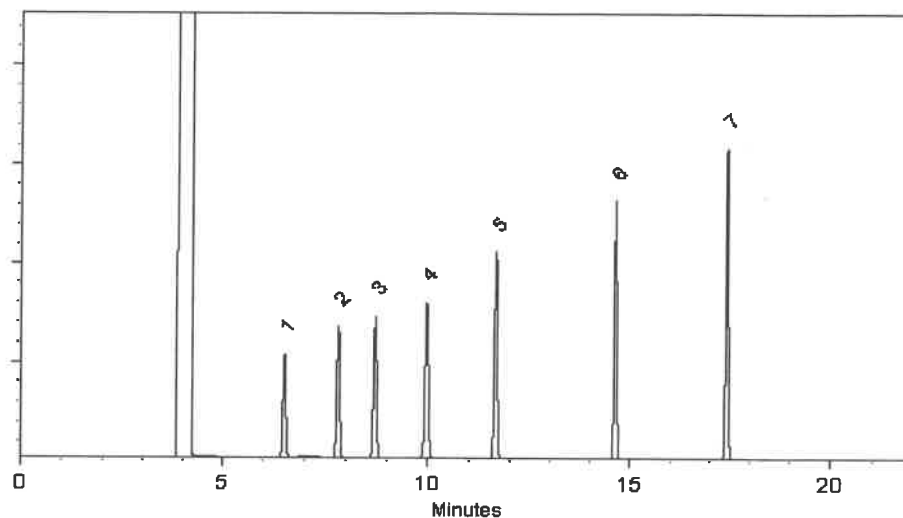
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

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. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

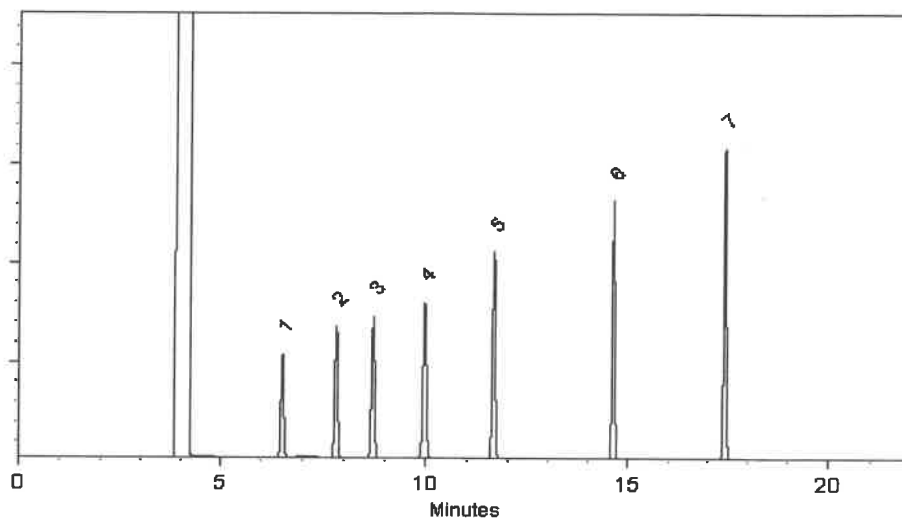
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

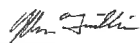
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

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 Review of L&P, Apr 16, 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
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 12/17/24
30 v. 4
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:

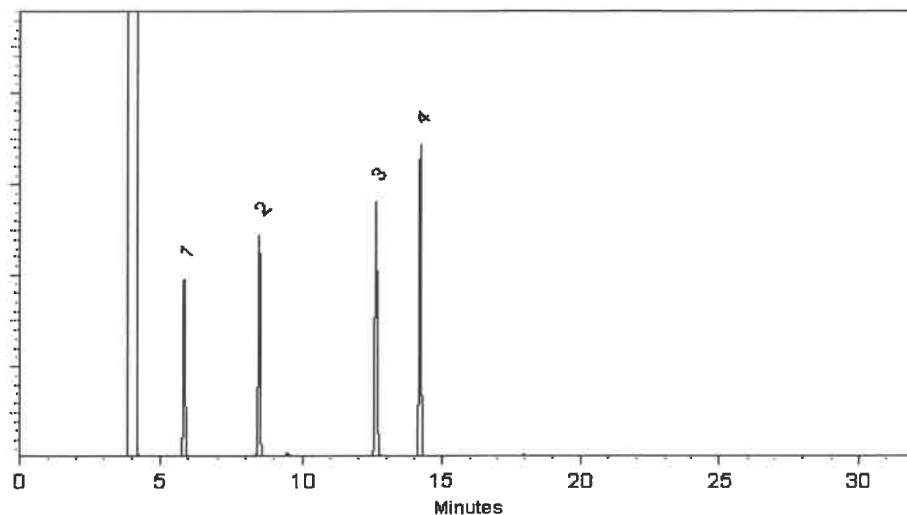
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

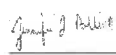


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
- 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

www.restek.com

Dec 12/17/24
30 v. 4
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:

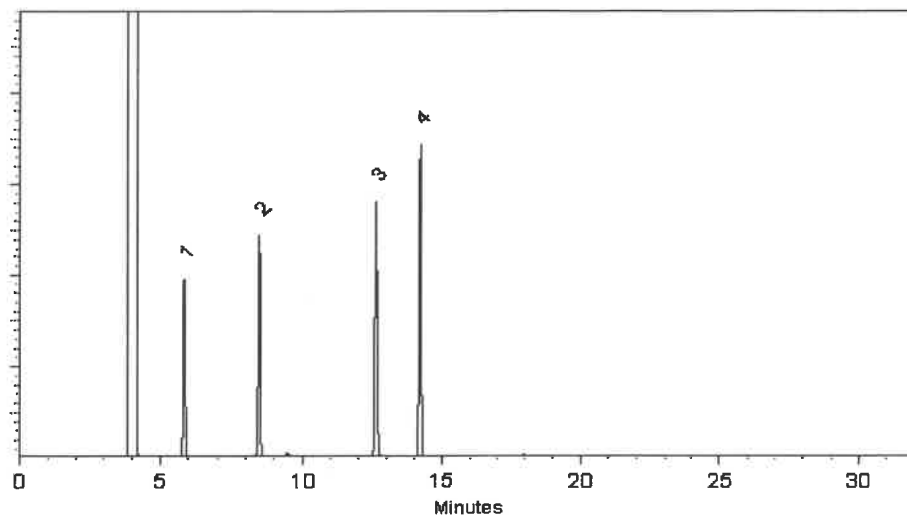
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

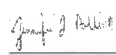


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
- 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

www.restek.com

Dec 12/17/24
30 v. 4
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:

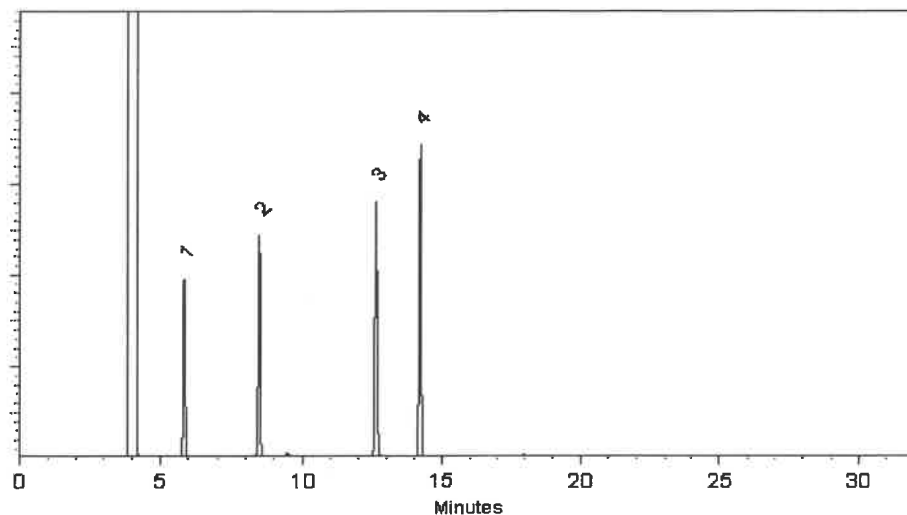
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

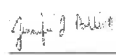


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
- 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

www.restek.com

10 vial.
CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667-5

V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

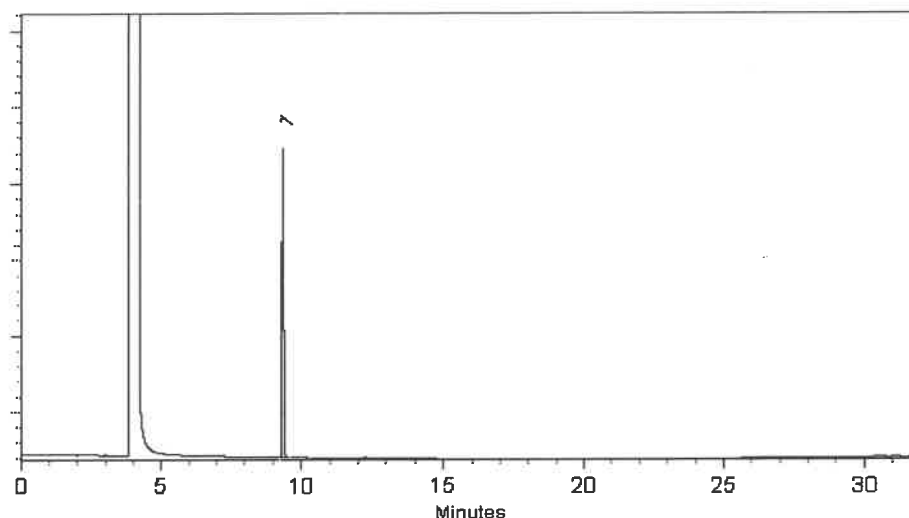
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

www.restek.com

10 vial.
Dec: 12/09/24
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14667-5
V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

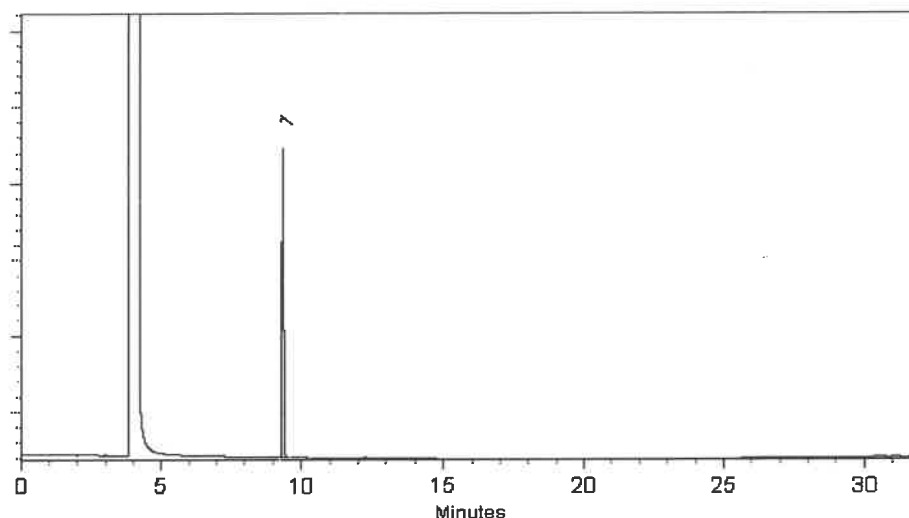
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

www.restek.com

10 vial.
CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667-5

V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

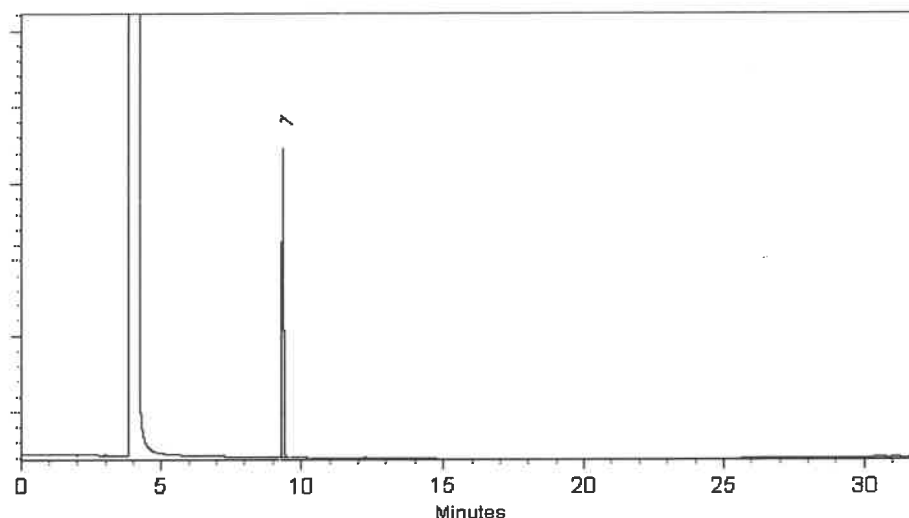
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

www.restek.com

10 vial.
CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24
Certificate of Analysis
chromatographic plus
V14667-5
V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

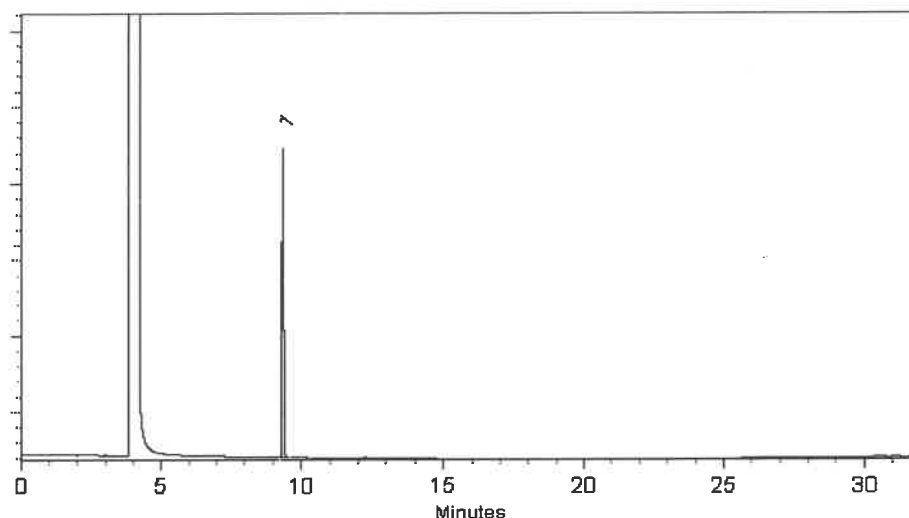
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

www.restek.com

Rec 12/17/24
CERTIFIED REFERENCE MATERIAL

30 ml
Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

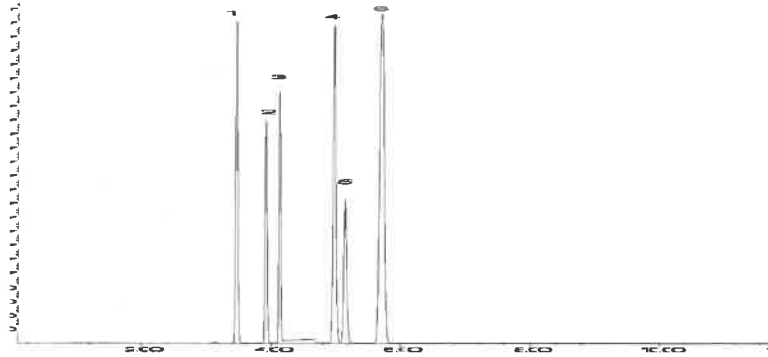
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24
CERTIFIED REFERENCE MATERIAL

30 ml
Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

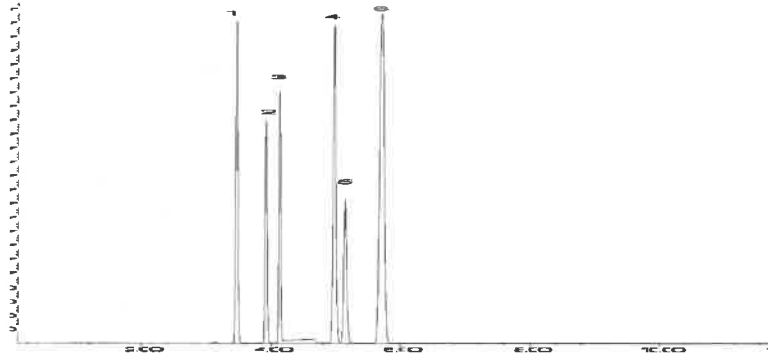
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 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:

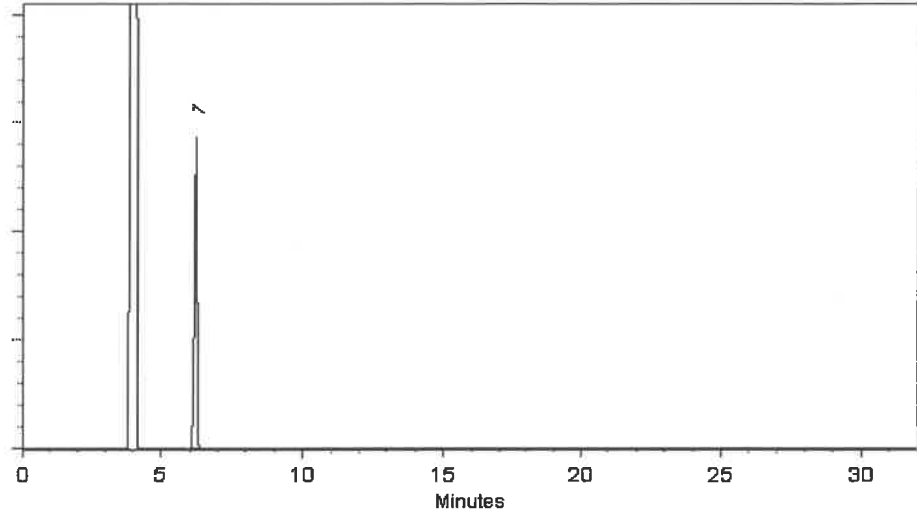
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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.

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:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

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:

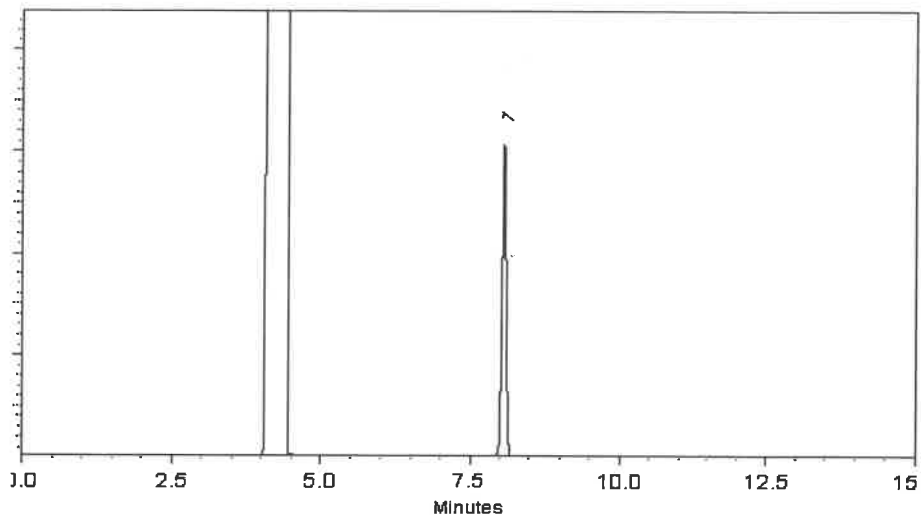
FID

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

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:

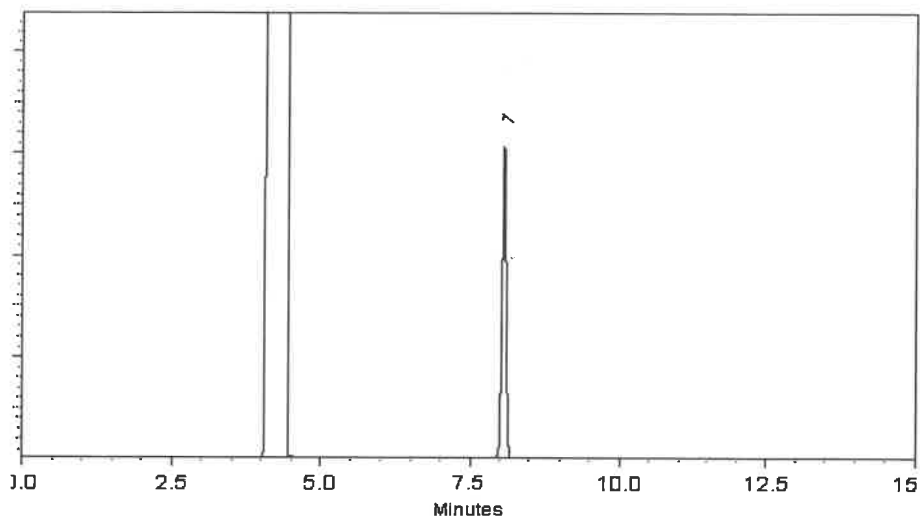
FID

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

www.restek.com

10 vol Rec 01/08/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

✓ 14793 to 14802



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0220563
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,060.0 µg/mL	+/- 278.5905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

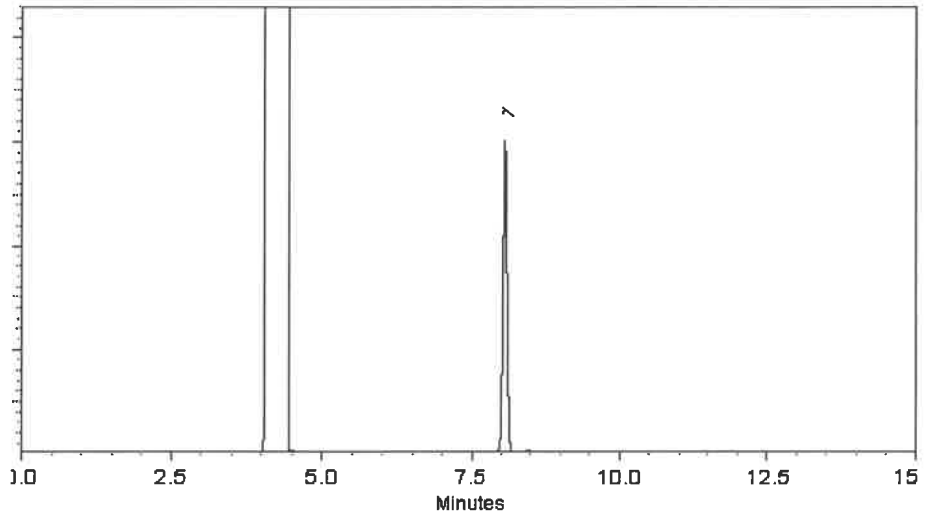
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

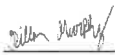


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024

Balance Serial # B345965662


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Poffus at 7:11 am, Jan 03, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial
Dec 03/31/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric

V14904 to V14913



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federlino - Operations Tech I

Date Mixed: 27-Mar-2025

Balance: B251644995



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

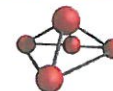
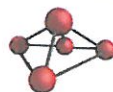
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



CERTIFIED WEIGHT REPORT

Part Number: **70046**
Lot Number: **070122**
Description: **Bromochloromethane**

Solvent: **Methanol**
Lot#: **EC592-US**

<i>Gabriel Helland</i>		070122
Formulated By:	Gabriel Helland	DATE
<i>Pedro L. Rentas</i>		070122
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 070127

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

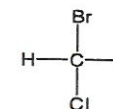
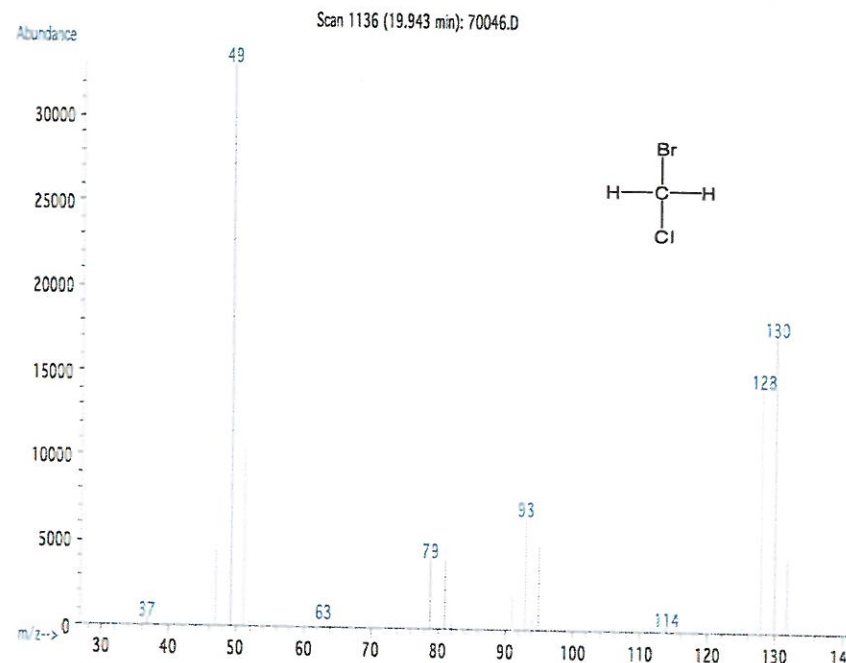
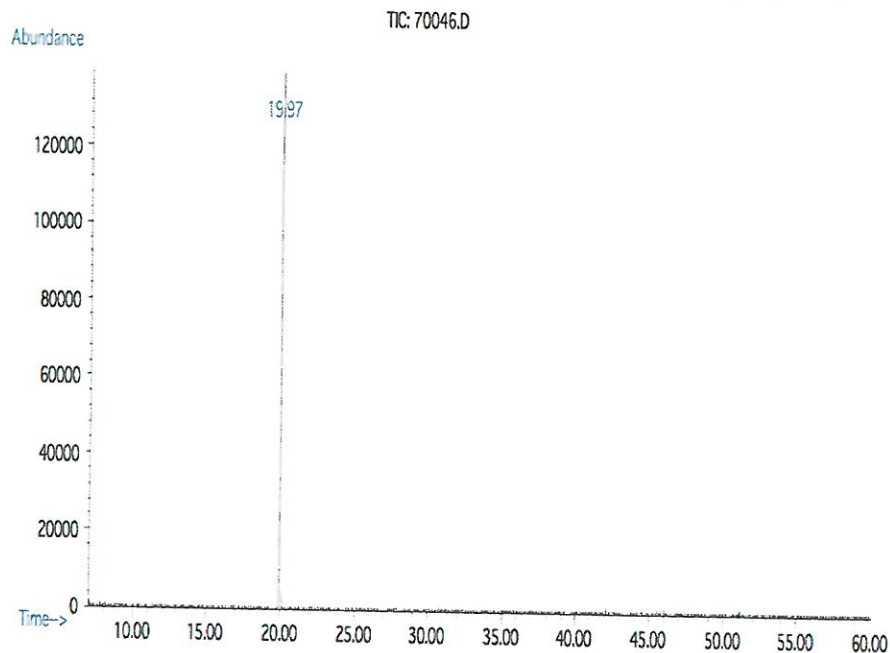
5E-05 Balance Uncertainty

0.0002 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 25.0

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m ³ /8H)	ori-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
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 Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor[™]



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
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 Croak
Director Quality Operations, Bioscience Production



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 05/19/25
CERTIFIED REFERENCE MATERIAL
10 vial

Certificate of Analysis

chromatographic plus

✓ 14971 to 14980



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.:** A0220531
Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,018.7 µg/mL	+/- 69.7744
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,014.7 µg/mL	+/- 69.6361
3	Ethyl acetate	141-78-6	SHBR4534	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,010.7 µg/mL	+/- 69.4979
5	Propyl acetate	109-60-4	P8XLN	99%	2,017.3 µg/mL	+/- 69.7283
6	Butyl acetate	123-86-4	SHBR2024	99%	2,010.7 µg/mL	+/- 69.4979
7	Amyl acetate	628-63-7	BCBT7442	99%	2,017.3 µg/mL	+/- 69.7283

* 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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

REC 06/02/25
15 V141
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

V14996 to V15010



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.:** A0220242

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 : March 31, 2028 **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	SHBR5966	99%	5,033.8 µg/mL	+/- 173.9449
2	2-Butanone (MEK)	78-93-3	SHBQ9020	99%	5,011.4 µg/mL	+/- 173.1708
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBR0467	99%	5,043.0 µg/mL	+/- 174.2628
4	2-Hexanone	591-78-6	MKCV1997	99%	5,028.8 µg/mL	+/- 173.7721

* 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:

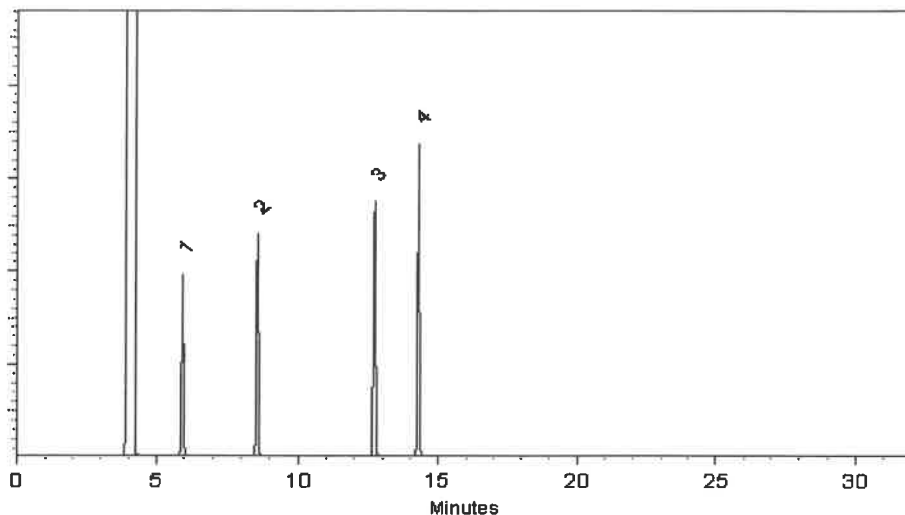
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 17-Dec-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s):
Water
Lot#: 041725Q

091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

Expiration Date: 101525

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

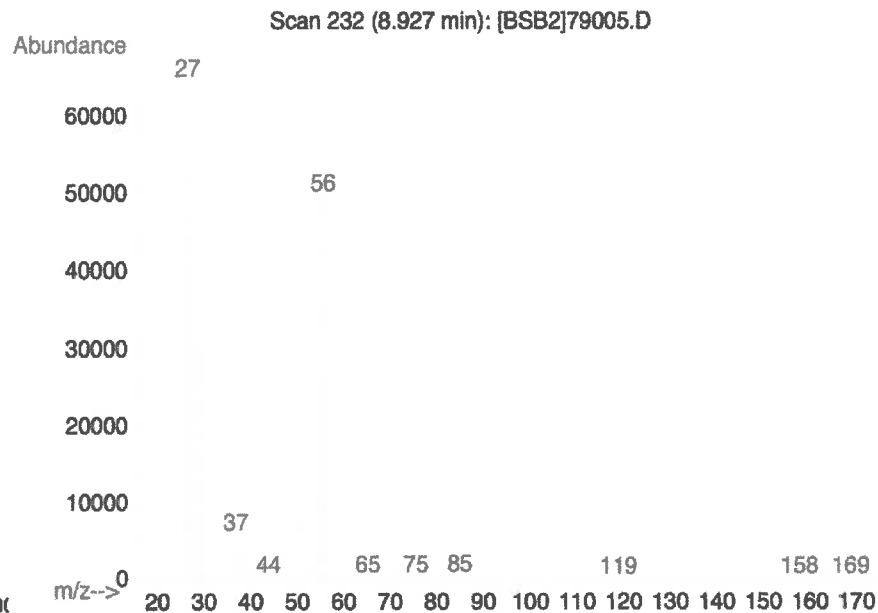
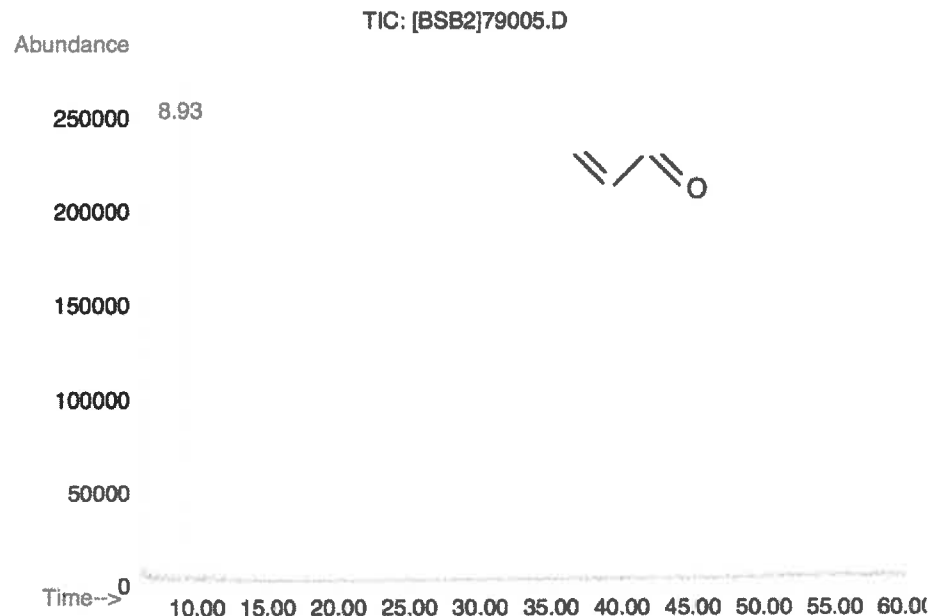
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

V15064 to
V15068

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	0.05186	0.05176	5009.9	52.6	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s):
Water Lot# 041725Q

Expiration Date: 101525

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

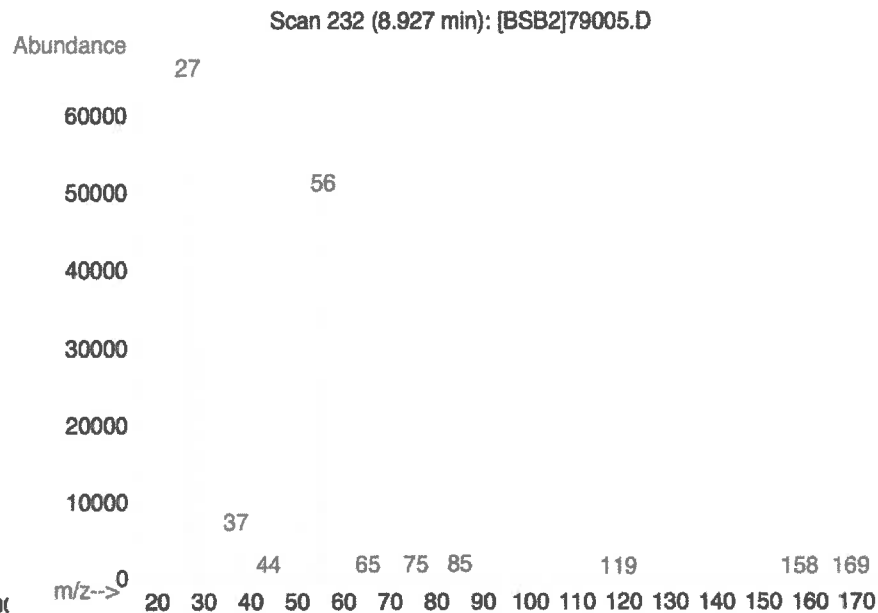
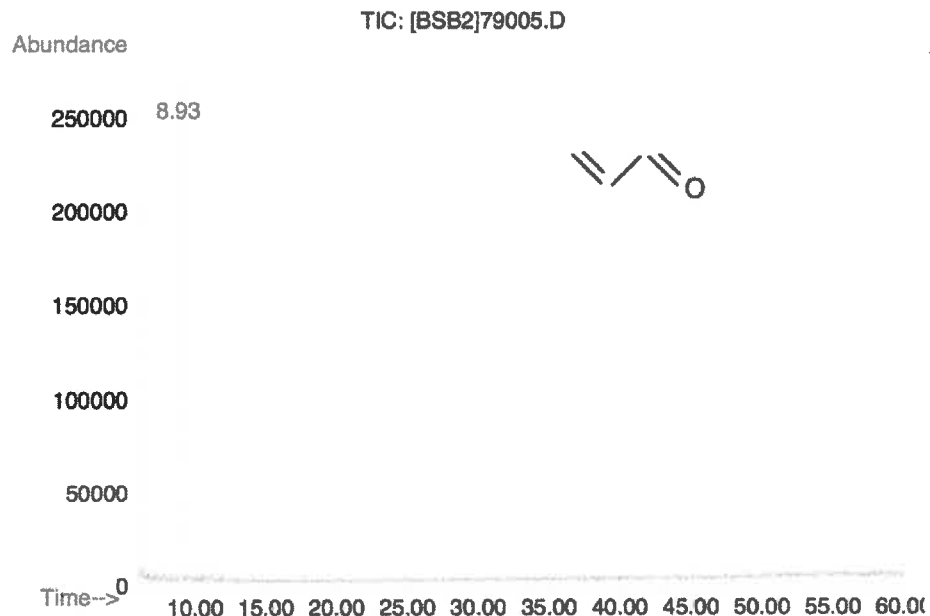
0.001 Flask Uncertainty

091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

V15064 to
V15068

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	0.05176	5009.9	52.6	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s):
Water Lot# 041725Q

Expiration Date: 101525

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

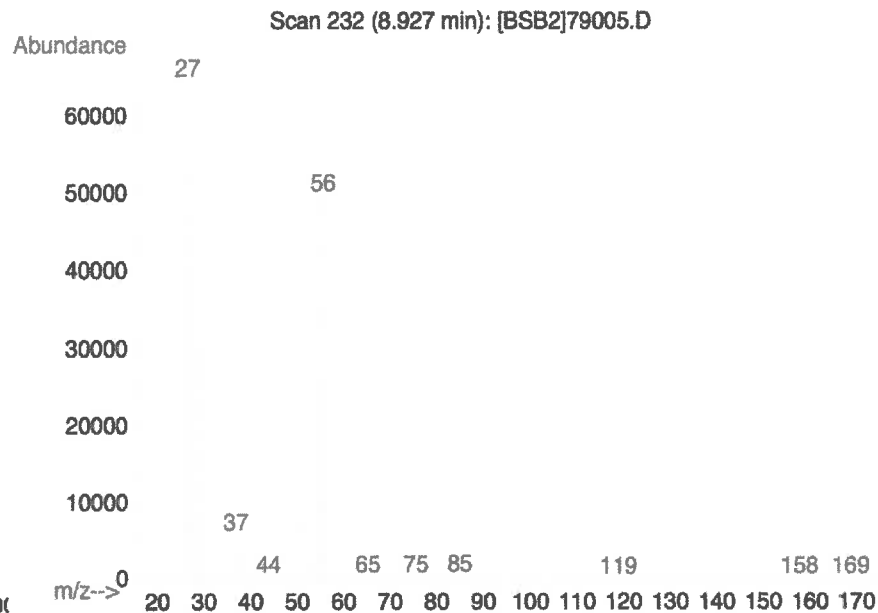
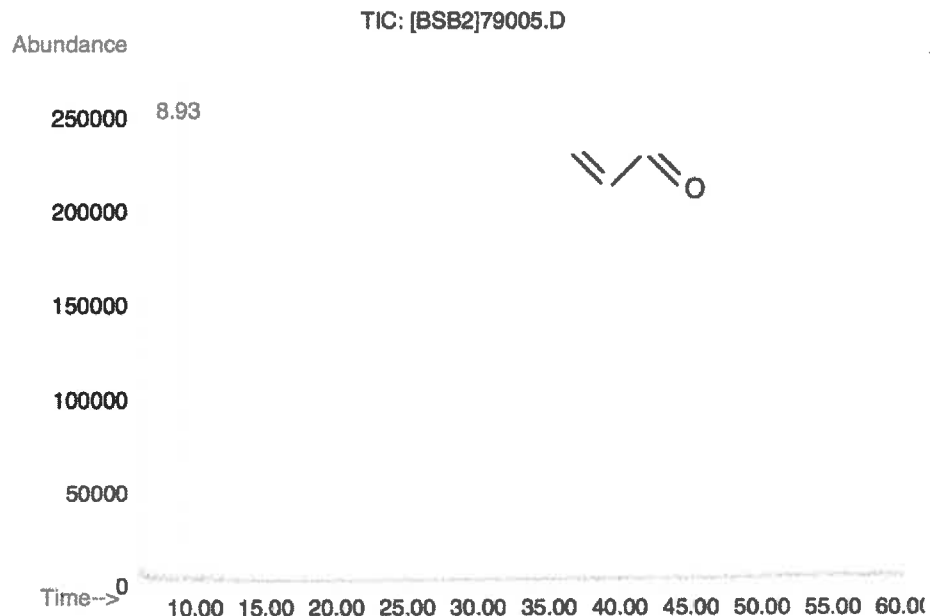
0.001 Flask Uncertainty

091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

V15064 to
V15068

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	0.05186	0.05176	5009.9	52.6	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Rec 09/16/25 23.121



CERTIFIED WEIGHT REPORT

Part Number: 91980
 Lot Number: 091325
 Description: Acrolein

Solvent(s):
 Water

Lot#
 041725Q

Expiration Date: 101325

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

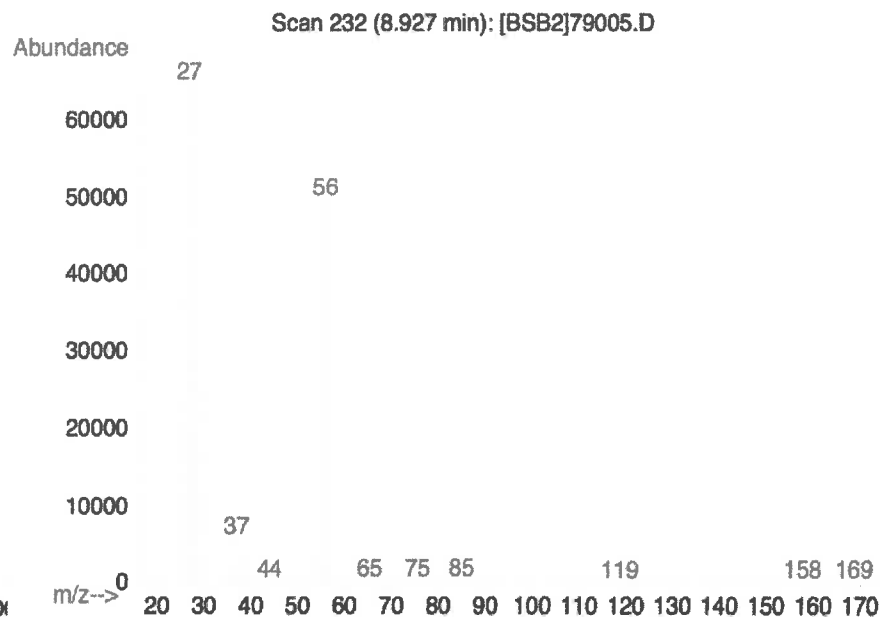
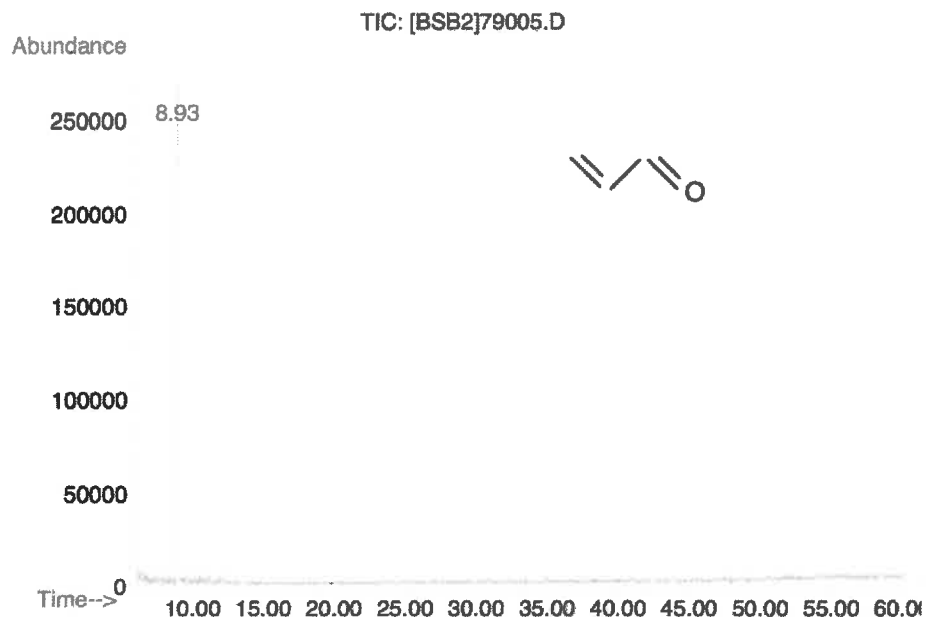
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

		091325
Formulated By:	Justin Dippold	DATE
		091325
Reviewed By:	Pedro L. Rentas	DATE

V15069
 V15070

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	103755R02H	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Rec 09/16/25 23.121



CERTIFIED WEIGHT REPORT

Part Number: **91980**
 Lot Number: **091325**
 Description: **Acrolein**

Solvent(s):
 Water

Lot#
 041725Q

Expiration Date: 101325

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

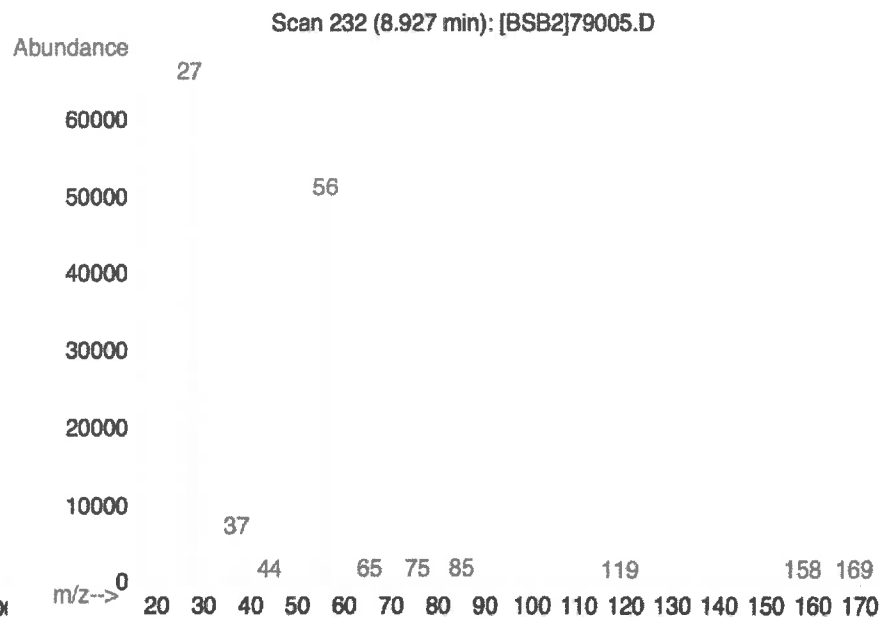
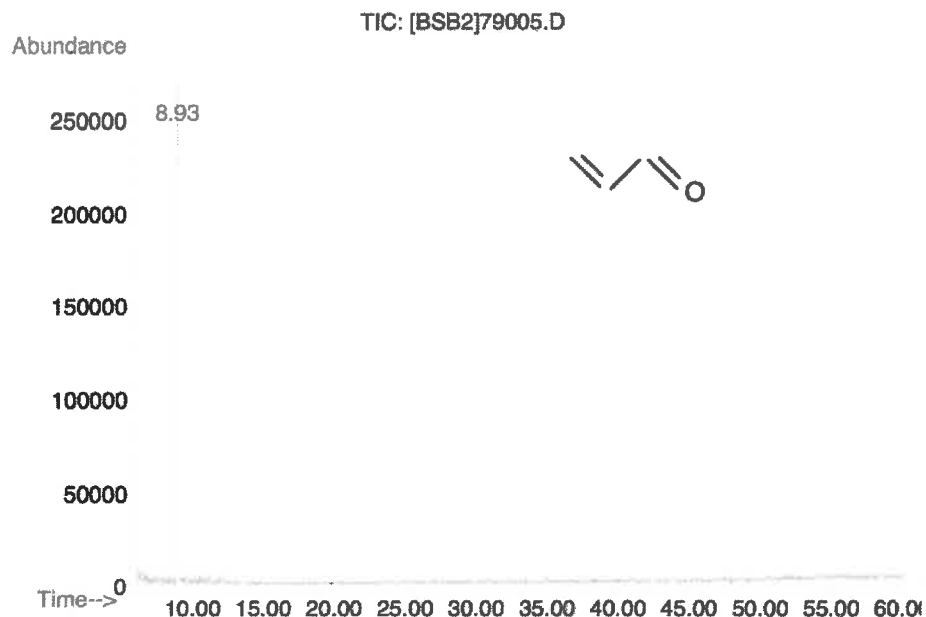
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

		091325
Formulated By:	Justin Dippold	DATE
		091325
Reviewed By:	Pedro L. Rentas	DATE

V15069
 V15070

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	103755R02H	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsandsale

Date	Order #
09/02/2025	333290



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: *ST* 9/4/2025
9:25

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0925	8270-04
1	1	0	PT-HG-WP	WP Mercury	WP0925	8270-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0925	8270-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0925	8270-06
1	1	0	PT-DEM-WP	WP Demand	WP0925	8270-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0925	8270-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0925	8270-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-SOL-WP	WP Solids	WP0925	8270-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0925	8270-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0925	8270-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0925	8270-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0925	8270-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0925	8270-13
1	1	0	PT-PH-WP	WP pH	WP0925	8270-15
1	1	0	PT-CN-WP	WP Cyanide	WP0925	8270-14

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Date	Order #
09/02/2025	333290



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/4/2025
9:25

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-PHEN-WP	WP Phenolics	WP0925	8270-16
1	1	0	PT-S2-WP	WP Sulfide	WP0925	8270-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0925	8270-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0925	8270-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0925	8270-20
1	1	0	PT-SIO2-WP	WP Silica	WP0925	8270-21
1	1	0	PT-COL-WP	WP Color	WP0925	8270-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0925	8270-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0925	8270-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0925	8270-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0925	8270-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0925	8270-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0925	8270-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0925	8270-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0925	8270-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R41815	R41815-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R41815	R41815-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R41815	R41815-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R41815	R41815-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R41815	R41815-98



phenova®
Certified Reference Materials

A Phenomenex®
Company

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsandsale

Date	Order #
09/05/2025	340092



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ

9/9/2025 12:20

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R41854	R41854-108

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312