

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : NYCDDC SANTWOBR BROOKLYN BRIDGE BBMCR

**RU2 ENGINEERING, LLC
2 Melinda Drive**

**Monroe Township, NJ - 08831
Phone No: 732-261-2236**

**ORDER ID : Q1207
ATTENTION : Rutu Manani**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1207

Project ID : NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Client : RU2 Engineering, LLC

Lab Sample Number

Q1207-01
Q1207-02
Q1207-03
Q1207-04
Q1207-05
Q1207-06
Q1207-07
Q1207-08
Q1207-09
Q1207-10
Q1207-11
Q1207-12
Q1207-13
Q1207-14
Q1207-15
Q1207-16
Q1207-17
Q1207-18
Q1207-19
Q1207-20

Client Sample Number

JPP-2.1-012725
JPP-2.1-012725
JPP-2.1-012725
JPP-2.1-012725
JPP-5.1-012725
JPP-5.1-012725
JPP-5.1-012725
JPP-5.1-012725
JPP-4.5-012725
JPP-4.5-012725
JPP-4.5-012725
JPP-4.5-012725
JPP-16.2-012725
JPP-16.2-012725
JPP-16.2-012725
JPP-16.2-012725
JPP-20.2-012725
JPP-20.2-012725
JPP-20.2-012725
JPP-20.2-012725

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: 2/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

RU2 Engineering, LLC

Project Name: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Project # N/A

Chemtech Project # Q1207

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

20 Solid samples were received on 01/28/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for {VY0203SBSD01} with File ID: VY021030.D met criteria except for 2-Butanone[22%], 2-Hexanone[25%], 4-Methyl-2-Pentanone[23%], Methyl Acetate[23%] and Tert butyl alcohol[26%] due to difference in results of BS-BSD.

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1207

MATRIX: Solid

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . The RPD for {VY0203SBSD01} with File ID: VY021030.D met criteria except for 2- Butanone[22%], 2-Hexanone[25%], 4-Methyl-2-Pentanone[23%], Methyl Acetate[23%] and Tert butyl alcohol[26%] due to difference in results of BS-BSD.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

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

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.

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 #: Q1207

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 02/07/2025

LAB CHRONICLE

OrderID:	Q1207	OrderDate:	1/28/2025 11:40:00 AM
Client:	RU2 Engineering, LLC	Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	Location:	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1207-01	JPP-2.1-012725	SOIL	VOCMS Group1	8260D	01/27/25		02/03/25	01/28/25
Q1207-02	JPP-2.1-012725	TCLP	TCLP VOA	8260D	01/27/25		01/29/25	01/28/25
Q1207-05	JPP-5.1-012725	SOIL	VOCMS Group1	8260D	01/27/25		02/03/25	01/28/25
Q1207-06	JPP-5.1-012725	TCLP	TCLP VOA	8260D	01/27/25		01/29/25	01/28/25
Q1207-09	JPP-4.5-012725	SOIL	VOCMS Group1	8260D	01/27/25		02/03/25	01/28/25
Q1207-10	JPP-4.5-012725	TCLP	TCLP VOA	8260D	01/27/25		01/29/25	01/28/25
Q1207-13	JPP-16.2-012725	SOIL	VOCMS Group1	8260D	01/27/25		02/04/25	01/28/25
Q1207-14	JPP-16.2-012725	TCLP	TCLP VOA	8260D	01/27/25		01/29/25	01/28/25
Q1207-17	JPP-20.2-012725	SOIL	VOCMS Group1	8260D	01/27/25		02/04/25	01/28/25
Q1207-18	JPP-20.2-012725	TCLP	TCLP VOA	8260D	01/27/25		01/29/25	01/28/25

Hit Summary Sheet
SW-846

SDG No.: Q1207
Client: RU2 Engineering, LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	JPP-4.5-012725							
Q1207-09	JPP-4.5-012725	SOIL	Acetone	22.6	J	7.50	29.9	ug/Kg
			Total Voc :			22.6		
Q1207-09	JPP-4.5-012725	SOIL	Tetrahydrofuran	* 17.8	J	6.30	29.9	ug/Kg
			Total Tics :			17.8		
			Total Concentration:			40.4		



QC SUMMARY

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Surrogate Summary

SDG No.: **Q1207**

Client: **RU2 Engineering, LLC**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1207-01	JPP-2.1-012725	1,2-Dichloroethane-d4	50	56.1	112	50	163
		Dibromofluoromethane	50	52.6	105	54	147
		Toluene-d8	50	49.3	99	58	134
		4-Bromofluorobenzene	50	44.7	89	29	146
Q1207-05	JPP-5.1-012725	1,2-Dichloroethane-d4	50	58.8	118	50	163
		Dibromofluoromethane	50	51.5	103	54	147
		Toluene-d8	50	49.8	100	58	134
		4-Bromofluorobenzene	50	48.9	98	29	146
Q1207-09	JPP-4.5-012725	1,2-Dichloroethane-d4	50	61.5	123	50	163
		Dibromofluoromethane	50	53.1	106	54	147
		Toluene-d8	50	49.6	99	58	134
		4-Bromofluorobenzene	50	48.9	98	29	146
Q1207-13	JPP-16.2-012725	1,2-Dichloroethane-d4	50	58.8	118	50	163
		Dibromofluoromethane	50	51.3	103	54	147
		Toluene-d8	50	50.0	100	58	134
		4-Bromofluorobenzene	50	49.1	98	29	146
Q1207-17	JPP-20.2-012725	1,2-Dichloroethane-d4	50	61.0	122	50	163
		Dibromofluoromethane	50	52.0	104	54	147
		Toluene-d8	50	49.7	99	58	134
		4-Bromofluorobenzene	50	48.6	97	29	146
VY0203SBL01	VY0203SBL01	1,2-Dichloroethane-d4	50	50.6	101	50	163
		Dibromofluoromethane	50	49.4	99	54	147
		Toluene-d8	50	47.8	96	58	134
		4-Bromofluorobenzene	50	43.4	87	29	146
VY0203SBS01	VY0203SBS01	1,2-Dichloroethane-d4	50	45.9	92	50	163
		Dibromofluoromethane	50	48.8	98	54	147
		Toluene-d8	50	50.2	100	58	134
		4-Bromofluorobenzene	50	49.7	99	29	146
VY0203SBSD01	VY0203SBSD01	1,2-Dichloroethane-d4	50	49.0	98	50	163
		Dibromofluoromethane	50	48.3	97	54	147
		Toluene-d8	50	50.2	100	58	134
		4-Bromofluorobenzene	50	49.7	99	29	146
VY0204SBL01	VY0204SBL01	1,2-Dichloroethane-d4	50	57.4	115	50	163
		Dibromofluoromethane	50	51.6	103	54	147
		Toluene-d8	50	49.8	100	58	134
		4-Bromofluorobenzene	50	47.5	95	29	146
VY0204SBS01	VY0204SBS01	1,2-Dichloroethane-d4	50	44.3	89	50	163
		Dibromofluoromethane	50	44.6	89	54	147
		Toluene-d8	50	45.4	91	58	134
		4-Bromofluorobenzene	50	45.0	90	29	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021029.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0203SBS01	Dichlorodifluoromethane	20	18.1	ug/Kg	91			64	136	
	Chloromethane	20	18.2	ug/Kg	91			70	130	
	Vinyl chloride	20	17.8	ug/Kg	89			72	129	
	Bromomethane	20	18.3	ug/Kg	92			58	141	
	Chloroethane	20	17.5	ug/Kg	88			69	130	
	Trichlorofluoromethane	20	18.1	ug/Kg	91			69	134	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/Kg	93			81	123	
	Tert butyl alcohol	100	91.7	ug/Kg	92			24	175	
	1,1-Dichloroethene	20	18.0	ug/Kg	90			79	121	
	Acetone	100	83.7	ug/Kg	84			60	131	
	Carbon disulfide	20	17.7	ug/Kg	89			45	154	
	Methyl tert-butyl Ether	20	16.1	ug/Kg	81			77	129	
	Methyl Acetate	20	15.4	ug/Kg	77			69	149	
	Methylene Chloride	20	17.1	ug/Kg	86			56	174	
	trans-1,2-Dichloroethene	20	17.9	ug/Kg	90			80	123	
	1,1-Dichloroethane	20	17.6	ug/Kg	88			82	123	
	Cyclohexane	20	17.8	ug/Kg	89			76	122	
	2-Butanone	100	78.6	ug/Kg	79			69	131	
	Carbon Tetrachloride	20	18.0	ug/Kg	90			76	129	
	cis-1,2-Dichloroethene	20	17.4	ug/Kg	87			82	123	
	Bromochloromethane	20	16.4	ug/Kg	82			80	127	
	Chloroform	20	17.5	ug/Kg	88			82	125	
	1,1,1-Trichloroethane	20	18.1	ug/Kg	91			80	126	
	Methylcyclohexane	20	18.5	ug/Kg	93			77	123	
	Benzene	20	18.1	ug/Kg	91			84	121	
	1,2-Dichloroethane	20	16.9	ug/Kg	85			81	126	
	Trichloroethene	20	18.1	ug/Kg	91			83	122	
	1,2-Dichloropropane	20	17.6	ug/Kg	88			83	122	
	Bromodichloromethane	20	17.2	ug/Kg	86			82	123	
	4-Methyl-2-Pentanone	100	79.4	ug/Kg	79			70	135	
	Toluene	20	18.1	ug/Kg	91			83	122	
	t-1,3-Dichloropropene	20	17.1	ug/Kg	86			78	124	
	cis-1,3-Dichloropropene	20	17.5	ug/Kg	88			81	122	
	1,1,2-Trichloroethane	20	16.7	ug/Kg	84			82	125	
	2-Hexanone	100	76.7	ug/Kg	77			66	138	
	Dibromochloromethane	20	16.5	ug/Kg	83			79	125	
	1,2-Dibromoethane	20	16.7	ug/Kg	84			80	125	
	Tetrachloroethene	20	18.7	ug/Kg	94			83	125	
	Chlorobenzene	20	17.7	ug/Kg	89			84	122	
	Ethyl Benzene	20	18.5	ug/Kg	93			82	124	
	m/p-Xylenes	40	37.2	ug/Kg	93			83	124	
	o-Xylene	20	18.2	ug/Kg	91			83	123	
	Styrene	20	18.2	ug/Kg	91			82	124	
	Bromoform	20	17.0	ug/Kg	85			75	127	
	Isopropylbenzene	20	18.7	ug/Kg	94			82	124	
	1,1,2,2-Tetrachloroethane	20	16.4	ug/Kg	82			77	127	
	1,3-Dichlorobenzene	20	18.2	ug/Kg	91			83	122	
	1,4-Dichlorobenzene	20	17.9	ug/Kg	90			84	121	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021029.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0203SBS01	1,2-Dichlorobenzene	20	17.5	ug/Kg	88			83	124	
	1,2-Dibromo-3-Chloropropane	20	16.6	ug/Kg	83			66	134	
	1,2,4-Trichlorobenzene	20	17.5	ug/Kg	88			78	127	
	1,2,3-Trichlorobenzene	20	17.3	ug/Kg	86			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021030.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0203SBSD01	Dichlorodifluoromethane	20	19.5	ug/Kg	98	7		64	136	20
	Chloromethane	20	19.0	ug/Kg	95	4		70	130	20
	Vinyl chloride	20	18.7	ug/Kg	94	5		72	129	20
	Bromomethane	20	19.2	ug/Kg	96	4		58	141	20
	Chloroethane	20	18.9	ug/Kg	95	8		69	130	20
	Trichlorofluoromethane	20	19.3	ug/Kg	97	6		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/Kg	99	6		81	123	20
	Tert butyl alcohol	100	120	ug/Kg	120	26	*	24	175	20
	1,1-Dichloroethene	20	19.6	ug/Kg	98	9		79	121	20
	Acetone	100	97.7	ug/Kg	98	15		60	131	20
	Carbon disulfide	20	18.9	ug/Kg	95	7		45	154	20
	Methyl tert-butyl Ether	20	19.6	ug/Kg	98	19		77	129	20
	Methyl Acetate	20	19.3	ug/Kg	97	23	*	69	149	20
	Methylene Chloride	20	19.3	ug/Kg	97	12		56	174	20
	trans-1,2-Dichloroethene	20	18.9	ug/Kg	95	5		80	123	20
	1,1-Dichloroethane	20	18.7	ug/Kg	94	7		82	123	20
	Cyclohexane	20	19.5	ug/Kg	98	10		76	122	20
	2-Butanone	100	99.3	ug/Kg	99	22	*	69	131	20
	Carbon Tetrachloride	20	19.2	ug/Kg	96	6		76	129	20
	cis-1,2-Dichloroethene	20	19.0	ug/Kg	95	9		82	123	20
	Bromochloromethane	20	18.1	ug/Kg	91	10		80	127	20
	Chloroform	20	19.2	ug/Kg	96	9		82	125	20
	1,1,1-Trichloroethane	20	19.4	ug/Kg	97	6		80	126	20
	Methylcyclohexane	20	19.7	ug/Kg	99	6		77	123	20
	Benzene	20	19.4	ug/Kg	97	6		84	121	20
	1,2-Dichloroethane	20	19.3	ug/Kg	97	13		81	126	20
	Trichloroethene	20	19.3	ug/Kg	97	6		83	122	20
	1,2-Dichloropropane	20	19.5	ug/Kg	98	11		83	122	20
	Bromodichloromethane	20	18.9	ug/Kg	95	10		82	123	20
	4-Methyl-2-Pentanone	100	99.9	ug/Kg	100	23	*	70	135	20
	Toluene	20	19.8	ug/Kg	99	8		83	122	20
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98	13		78	124	20
	cis-1,3-Dichloropropene	20	19.2	ug/Kg	96	9		81	122	20
	1,1,2-Trichloroethane	20	19.3	ug/Kg	97	14		82	125	20
	2-Hexanone	100	99.3	ug/Kg	99	25	*	66	138	20
	Dibromochloromethane	20	19.2	ug/Kg	96	15		79	125	20
	1,2-Dibromoethane	20	19.0	ug/Kg	95	12		80	125	20
	Tetrachloroethene	20	19.9	ug/Kg	100	6		83	125	20
	Chlorobenzene	20	19.7	ug/Kg	99	11		84	122	20
	Ethyl Benzene	20	19.9	ug/Kg	100	7		82	124	20
	m/p-Xylenes	40	40.2	ug/Kg	101	8		83	124	20
	o-Xylene	20	19.8	ug/Kg	99	8		83	123	20
	Styrene	20	20.1	ug/Kg	101	10		82	124	20
	Bromoform	20	20.0	ug/Kg	100	16		75	127	20
	Isopropylbenzene	20	19.5	ug/Kg	98	4		82	124	20
	1,1,2,2-Tetrachloroethane	20	19.2	ug/Kg	96	16		77	127	20
	1,3-Dichlorobenzene	20	19.5	ug/Kg	98	7		83	122	20
	1,4-Dichlorobenzene	20	19.3	ug/Kg	97	7		84	121	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021030.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0203SBSD01	1,2-Dichlorobenzene	20	19.3	ug/Kg	97	10		83	124	20
	1,2-Dibromo-3-Chloropropane	20	18.9	ug/Kg	95	13		66	134	20
	1,2,4-Trichlorobenzene	20	18.9	ug/Kg	95	8		78	127	20
	1,2,3-Trichlorobenzene	20	19.3	ug/Kg	97	12		70	137	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021048.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0204SBS01	Dichlorodifluoromethane	20	18.7	ug/Kg	94			64	136	
	Chloromethane	20	18.1	ug/Kg	91			70	130	
	Vinyl chloride	20	17.9	ug/Kg	90			72	129	
	Bromomethane	20	17.8	ug/Kg	89			58	141	
	Chloroethane	20	17.7	ug/Kg	89			69	130	
	Trichlorofluoromethane	20	18.1	ug/Kg	91			69	134	
	1,1,2-Trichlorotrifluoroethane	20	18.9	ug/Kg	95			81	123	
	Tert butyl alcohol	100	97.5	ug/Kg	98			24	175	
	1,1-Dichloroethene	20	18.1	ug/Kg	91			79	121	
	Acetone	100	95.3	ug/Kg	95			60	131	
	Carbon disulfide	20	17.7	ug/Kg	89			45	154	
	Methyl tert-butyl Ether	20	17.8	ug/Kg	89			77	129	
	Methyl Acetate	20	18.0	ug/Kg	90			69	149	
	Methylene Chloride	20	18.3	ug/Kg	92			56	174	
	trans-1,2-Dichloroethene	20	17.9	ug/Kg	90			80	123	
	1,1-Dichloroethane	20	18.6	ug/Kg	93			82	123	
	Cyclohexane	20	18.5	ug/Kg	93			76	122	
	2-Butanone	100	92.2	ug/Kg	92			69	131	
	Carbon Tetrachloride	20	18.8	ug/Kg	94			76	129	
	cis-1,2-Dichloroethene	20	18.3	ug/Kg	92			82	123	
	Bromochloromethane	20	19.9	ug/Kg	100			80	127	
	Chloroform	20	18.5	ug/Kg	93			82	125	
	1,1,1-Trichloroethane	20	18.9	ug/Kg	95			80	126	
	Methylcyclohexane	20	18.4	ug/Kg	92			77	123	
	Benzene	20	18.5	ug/Kg	93			84	121	
	1,2-Dichloroethane	20	18.1	ug/Kg	91			81	126	
	Trichloroethene	20	18.6	ug/Kg	93			83	122	
	1,2-Dichloropropane	20	19.1	ug/Kg	96			83	122	
	Bromodichloromethane	20	18.6	ug/Kg	93			82	123	
	4-Methyl-2-Pentanone	100	92.4	ug/Kg	92			70	135	
	Toluene	20	18.9	ug/Kg	95			83	122	
	t-1,3-Dichloropropene	20	18.2	ug/Kg	91			78	124	
	cis-1,3-Dichloropropene	20	18.6	ug/Kg	93			81	122	
	1,1,2-Trichloroethane	20	18.4	ug/Kg	92			82	125	
	2-Hexanone	100	90.8	ug/Kg	91			66	138	
	Dibromochloromethane	20	18.3	ug/Kg	92			79	125	
	1,2-Dibromoethane	20	17.8	ug/Kg	89			80	125	
	Tetrachloroethene	20	18.9	ug/Kg	95			83	125	
	Chlorobenzene	20	18.6	ug/Kg	93			84	122	
	Ethyl Benzene	20	18.7	ug/Kg	94			82	124	
	m/p-Xylenes	40	37.8	ug/Kg	95			83	124	
	o-Xylene	20	18.6	ug/Kg	93			83	123	
	Styrene	20	18.8	ug/Kg	94			82	124	
	Bromoform	20	18.6	ug/Kg	93			75	127	
	Isopropylbenzene	20	17.7	ug/Kg	89			82	124	
	1,1,2,2-Tetrachloroethane	20	17.4	ug/Kg	87			77	127	
	1,3-Dichlorobenzene	20	17.9	ug/Kg	90			83	122	
	1,4-Dichlorobenzene	20	18.3	ug/Kg	92			84	121	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021048.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0204SBS01	1,2-Dichlorobenzene	20	18.2	ug/Kg	91			83	124	
	1,2-Dibromo-3-Chloropropane	20	16.3	ug/Kg	81			66	134	
	1,2,4-Trichlorobenzene	20	18.3	ug/Kg	92			78	127	
	1,2,3-Trichlorobenzene	20	17.8	ug/Kg	89			70	137	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0203SBL01

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207

SAS No.: Q1207 SDG NO.: Q1207

Lab File ID: VY021028.D

Lab Sample ID: VY0203SBL01

Date Analyzed: 02/03/2025

Time Analyzed: 14:13

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0203SBS01	VY0203SBS01	VY021029.D	02/03/2025
VY0203SBSD01	VY0203SBSD01	VY021030.D	02/03/2025
JPP-2.1-012725	Q1207-01	VY021041.D	02/03/2025
JPP-5.1-012725	Q1207-05	VY021042.D	02/03/2025
JPP-4.5-012725	Q1207-09	VY021043.D	02/03/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0204SBL01

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207

SAS No.: Q1207 SDG NO.: Q1207

Lab File ID: VY021047.D

Lab Sample ID: VY0204SBL01

Date Analyzed: 02/04/2025

Time Analyzed: 10:15

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0204SBS01	VY0204SBS01	VY021048.D	02/04/2025
JPP-20.2-012725	Q1207-17	VY021051.D	02/04/2025
JPP-16.2-012725	Q1207-13	VY021052.D	02/04/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207
Lab File ID: VY021019.D BFB Injection Date: 02/03/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:51
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.3
75	30.0 - 60.0% of mass 95	49
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	89.7
175	5.0 - 9.0% of mass 174	7 (7.8) 1
176	95.0 - 101.0% of mass 174	87 (97) 1
177	5.0 - 9.0% of mass 176	5.9 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY021020.D	02/03/2025	10:35
VSTDIC010	VSTDIC010	VY021021.D	02/03/2025	10:57
VSTDIC020	VSTDIC020	VY021022.D	02/03/2025	11:20
VSTDIC050	VSTDIC050	VY021023.D	02/03/2025	11:43
VSTDIC100	VSTDIC100	VY021024.D	02/03/2025	12:21
VSTDIC150	VSTDIC150	VY021025.D	02/03/2025	12:44
VY0203SBL01	VY0203SBL01	VY021028.D	02/03/2025	14:13
VY0203SBS01	VY0203SBS01	VY021029.D	02/03/2025	14:55
VY0203SBSD01	VY0203SBSD01	VY021030.D	02/03/2025	15:17
JPP-2.1-012725	Q1207-01	VY021041.D	02/03/2025	19:44
JPP-5.1-012725	Q1207-05	VY021042.D	02/03/2025	20:08
JPP-4.5-012725	Q1207-09	VY021043.D	02/03/2025	20:31



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207
Lab File ID: VY021045.D BFB Injection Date: 02/04/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:16
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.3
75	30.0 - 60.0% of mass 95	55.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.3 (1.5) 1
174	50.0 - 100.0% of mass 95	88.1
175	5.0 - 9.0% of mass 174	7 (7.9) 1
176	95.0 - 101.0% of mass 174	84.8 (96.1) 1
177	5.0 - 9.0% of mass 176	5.3 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021046.D	02/04/2025	09:47
VY0204SBL01	VY0204SBL01	VY021047.D	02/04/2025	10:15
VY0204SBS01	VY0204SBS01	VY021048.D	02/04/2025	10:52
JPP-20.2-012725	Q1207-17	VY021051.D	02/04/2025	12:19
JPP-16.2-012725	Q1207-13	VY021052.D	02/04/2025	12:42

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207
Lab File ID: VY021023.D Date Analyzed: 02/03/2025
Instrument ID: MSVOA_Y Time Analyzed: 11:43
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	185055	7.71	285755	8.62	250150	11.42
UPPER LIMIT	370110	8.213	571510	9.122	500300	11.92
LOWER LIMIT	92527.5	7.213	142878	8.122	125075	10.92
EPA SAMPLE NO.						
JPP-2.1-012725	114628	7.71	206985	8.62	183953	11.42
JPP-5.1-012725	166979	7.71	314925	8.62	290112	11.42
JPP-4.5-012725	150159	7.71	279067	8.62	254825	11.42
VY0203SBL01	159750	7.71	285727	8.62	240190	11.42
VY0203SBS01	208053	7.71	315310	8.62	265413	11.42
VY0203SBSD01	203811	7.71	313701	8.62	262239	11.42

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207
Lab File ID: VY021023.D Date Analyzed: 02/03/2025
Instrument ID: MSVOA_Y Time Analyzed: 11:43
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	121069	13.353				
UPPER LIMIT	242138	13.853				
LOWER LIMIT	60534.5	12.853				
EPA SAMPLE NO.						
JPP-2.1-012725	69823	13.35				
JPP-5.1-012725	120538	13.35				
JPP-4.5-012725	103960	13.35				
VY0203SBL01	89793	13.35				
VY0203SBS01	127785	13.35				
VY0203SBSD01	128240	13.35				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207
Lab File ID: VY021046.D Date Analyzed: 02/04/2025
Instrument ID: MSVOA_Y Time Analyzed: 09:47
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	154178	7.71	233780	8.62	206737	11.42
UPPER LIMIT	308356	8.213	467560	9.115	413474	11.92
LOWER LIMIT	77089	7.213	116890	8.115	103369	10.92
EPA SAMPLE NO.						
JPP-16.2-012725	164435	7.71	308184	8.62	283566	11.42
JPP-20.2-012725	167108	7.71	314248	8.62	289240	11.41
VY0204SBL01	173019	7.71	321305	8.62	292351	11.42
VY0204SBS01	159738	7.71	247448	8.62	212473	11.42

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207
Lab File ID: VY021046.D Date Analyzed: 02/04/2025
Instrument ID: MSVOA_Y Time Analyzed: 09:47
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	102470	13.352				
UPPER LIMIT	204940	13.852				
LOWER LIMIT	51235	12.852				
EPA SAMPLE NO.						
JPP-16.2-012725	116417	13.35				
JPP-20.2-012725	116962	13.35				
VY0204SBL01	114535	13.35				
VY0204SBS01	108974	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-2.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.8
Sample Wt/Vol:	5.02 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021041.D	1		02/03/25 19:44	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.70	U	1.90	5.70	ug/Kg
74-87-3	Chloromethane	5.70	U	1.30	5.70	ug/Kg
75-01-4	Vinyl Chloride	5.70	U	0.88	5.70	ug/Kg
74-83-9	Bromomethane	5.70	U	1.20	5.70	ug/Kg
75-00-3	Chloroethane	5.70	U	1.20	5.70	ug/Kg
75-69-4	Trichlorofluoromethane	5.70	U	1.00	5.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.70	U	1.20	5.70	ug/Kg
75-65-0	Tert butyl alcohol	28.7	U	17.9	28.7	ug/Kg
75-35-4	1,1-Dichloroethene	5.70	U	0.90	5.70	ug/Kg
67-64-1	Acetone	28.7	U	7.20	28.7	ug/Kg
75-15-0	Carbon Disulfide	5.70	U	1.50	5.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.70	U	0.77	5.70	ug/Kg
79-20-9	Methyl Acetate	5.70	U	2.10	5.70	ug/Kg
75-09-2	Methylene Chloride	11.5	U	3.90	11.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.70	U	0.96	5.70	ug/Kg
75-34-3	1,1-Dichloroethane	5.70	U	0.72	5.70	ug/Kg
110-82-7	Cyclohexane	5.70	U	0.79	5.70	ug/Kg
78-93-3	2-Butanone	28.7	U	6.50	28.7	ug/Kg
56-23-5	Carbon Tetrachloride	5.70	U	1.00	5.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.70	U	0.70	5.70	ug/Kg
74-97-5	Bromochloromethane	5.70	U	2.80	5.70	ug/Kg
67-66-3	Chloroform	5.70	U	0.77	5.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.70	U	0.90	5.70	ug/Kg
108-87-2	Methylcyclohexane	5.70	U	1.00	5.70	ug/Kg
71-43-2	Benzene	5.70	U	0.83	5.70	ug/Kg
107-06-2	1,2-Dichloroethane	5.70	U	0.70	5.70	ug/Kg
79-01-6	Trichloroethene	5.70	U	0.86	5.70	ug/Kg
78-87-5	1,2-Dichloropropane	5.70	U	0.76	5.70	ug/Kg
75-27-4	Bromodichloromethane	5.70	U	0.64	5.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	28.7	U	5.00	28.7	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	01/27/25	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	01/28/25	
Client Sample ID:	JPP-2.1-012725		SDG No.:	Q1207	
Lab Sample ID:	Q1207-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	86.8	
Sample Wt/Vol:	5.02	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021041.D	1		02/03/25 19:44	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	5.70	U	0.77	5.70	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.70	U	0.69	5.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.70	U	0.65	5.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.70	U	0.96	5.70	ug/Kg
591-78-6	2-Hexanone	28.7	U	5.50	28.7	ug/Kg
124-48-1	Dibromochloromethane	5.70	U	0.75	5.70	ug/Kg
106-93-4	1,2-Dibromoethane	5.70	U	0.91	5.70	ug/Kg
127-18-4	Tetrachloroethene	5.70	U	1.00	5.70	ug/Kg
108-90-7	Chlorobenzene	5.70	U	0.85	5.70	ug/Kg
100-41-4	Ethyl Benzene	5.70	U	0.71	5.70	ug/Kg
179601-23-1	m/p-Xylenes	11.5	U	1.50	11.5	ug/Kg
95-47-6	o-Xylene	5.70	U	0.80	5.70	ug/Kg
100-42-5	Styrene	5.70	U	0.69	5.70	ug/Kg
75-25-2	Bromoform	5.70	U	0.93	5.70	ug/Kg
98-82-8	Isopropylbenzene	5.70	U	0.77	5.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.70	U	1.30	5.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.70	U	0.85	5.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.70	U	0.92	5.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.70	U	0.68	5.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.70	U	1.80	5.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.70	U	0.91	5.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.70	U	0.90	5.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.1		50 - 163	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		54 - 147	105%	SPK: 50
2037-26-5	Toluene-d8	49.3		58 - 134	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		29 - 146	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	115000	7.707			
540-36-3	1,4-Difluorobenzene	207000	8.616			
3114-55-4	Chlorobenzene-d5	184000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	69800	13.353			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-2.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.8
Sample Wt/Vol:	5.02 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021041.D	1		02/03/25 19:44	VY020325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021041.D
Acq On : 03 Feb 2025 19:44
Operator : SY/MD
Sample : Q1207-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-2.1-012725

Quant Time: Feb 04 00:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	114628	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	206985	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	183953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	69823	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	65909	56.119	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	112.240%
35) Dibromofluoromethane	7.634	113	69718	52.558	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.120%
50) Toluene-d8	10.109	98	248922	49.291	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.580%
62) 4-Bromofluorobenzene	12.408	95	73745	44.698	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	89.400%

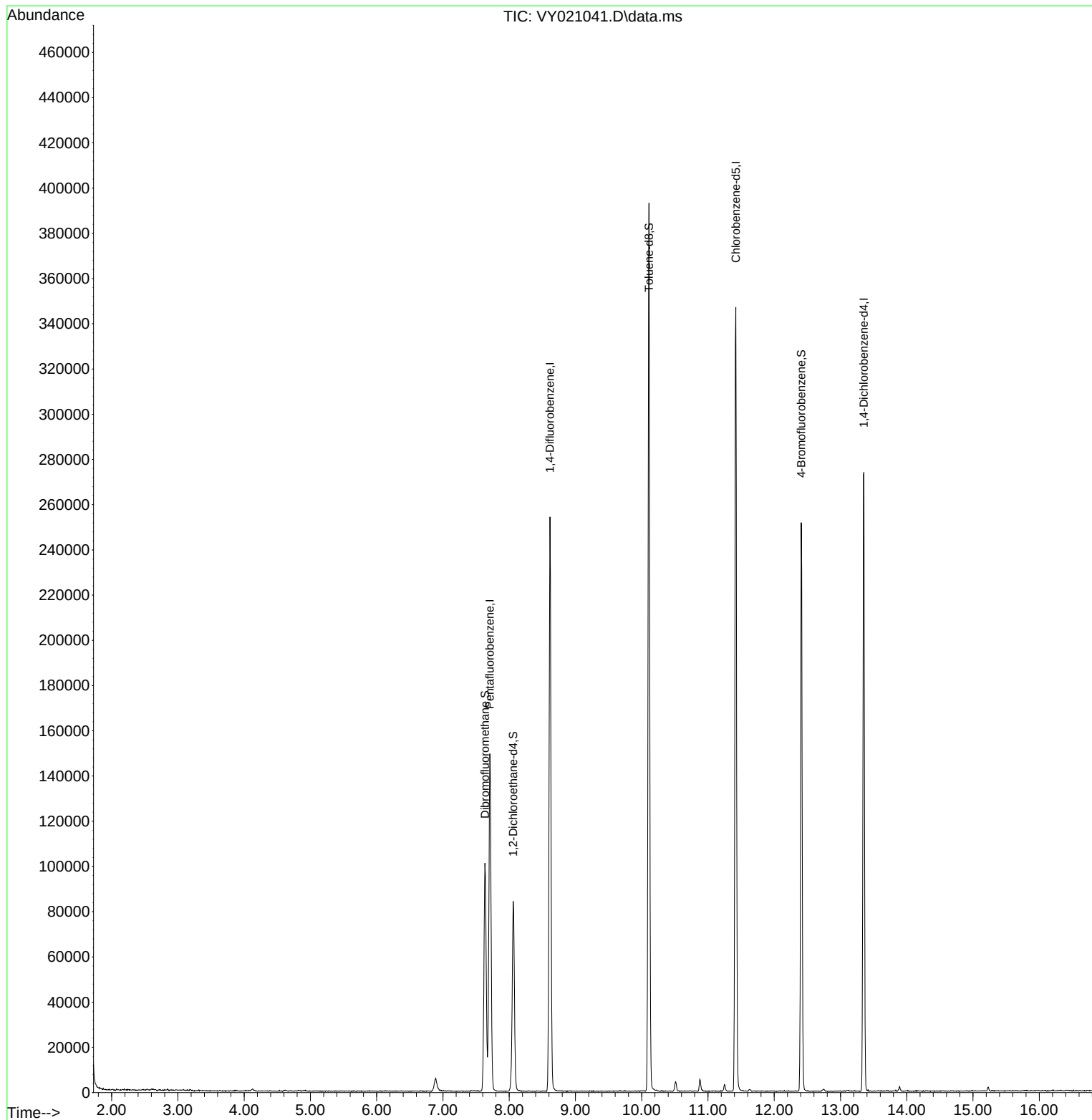
Target Compounds	Qvalue
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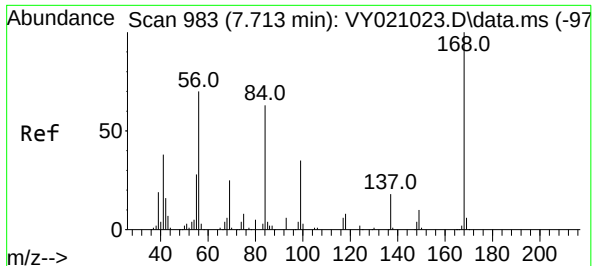
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021041.D
Acq On : 03 Feb 2025 19:44
Operator : SY/MD
Sample : Q1207-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-2.1-012725

Quant Time: Feb 04 00:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

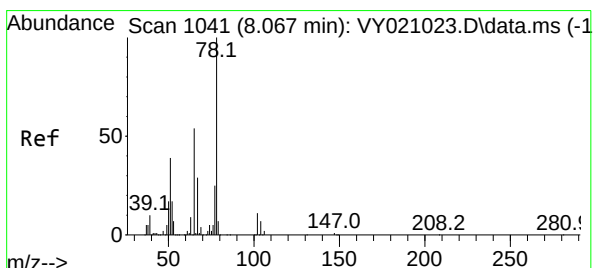
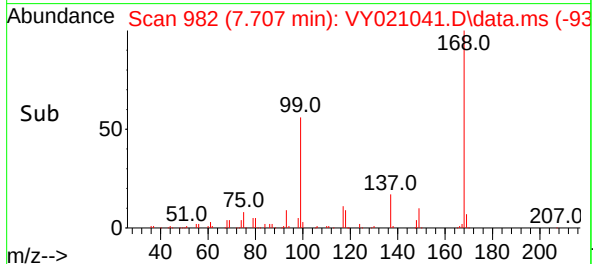
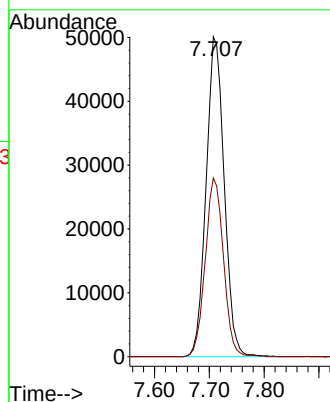
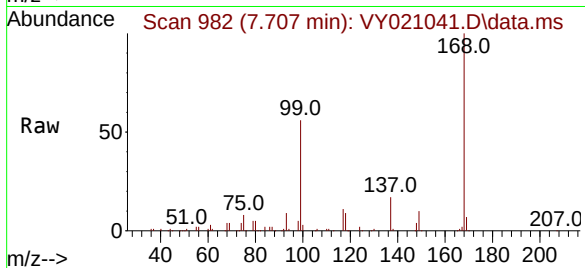




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021041.D
Acq: 03 Feb 2025 19:44

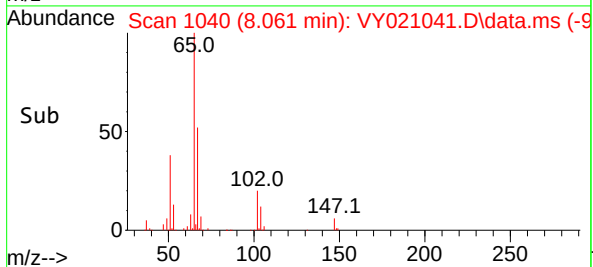
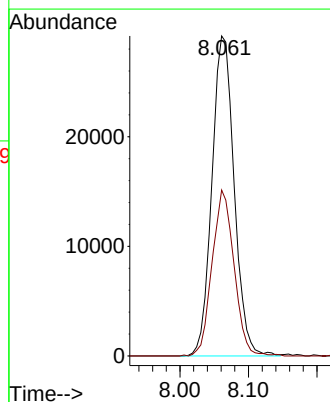
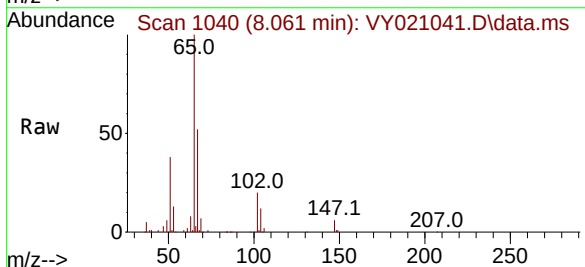
Instrument :
MSVOA_Y
ClientSampleId :
JPP-2.1-012725

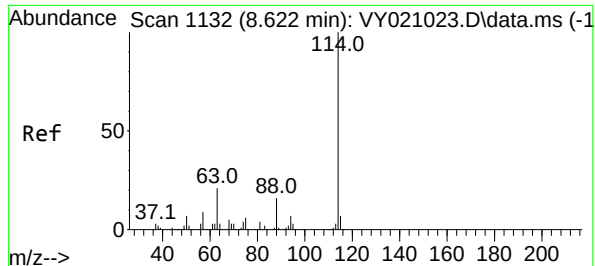
Tgt Ion:168 Resp: 114628
Ion Ratio Lower Upper
168 100
99 55.8 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 56.119 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021041.D
Acq: 03 Feb 2025 19:44

Tgt Ion: 65 Resp: 65909
Ion Ratio Lower Upper
65 100
67 51.2 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1132

Delta R.T. -0.006 min

Lab File: VY021041.D

Acq: 03 Feb 2025 19:44

Instrument :

MSVOA_Y

ClientSampleId :

JPP-2.1-012725

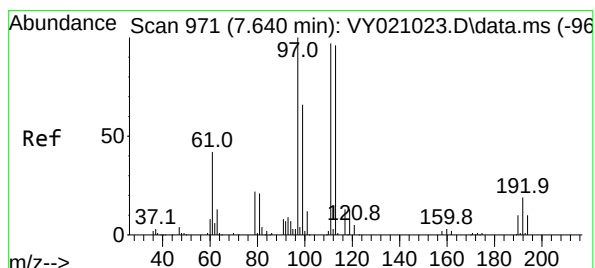
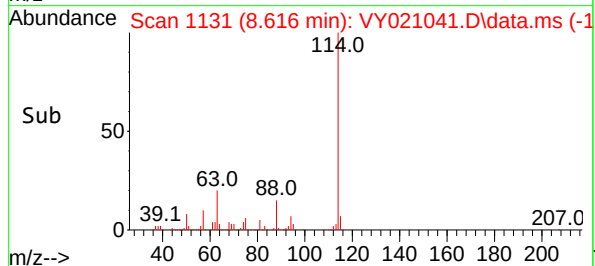
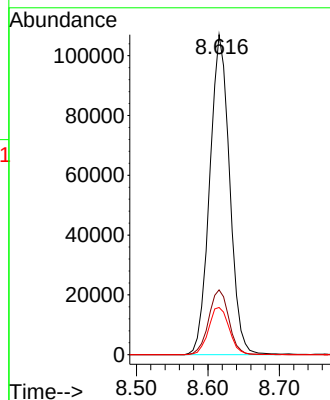
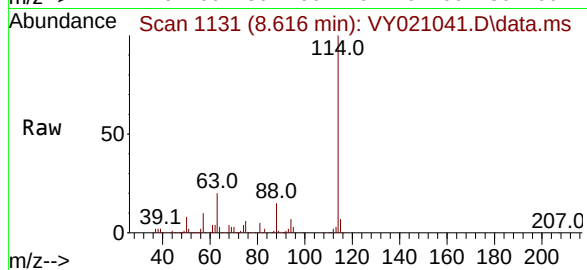
Tgt Ion:114 Resp: 206985

Ion Ratio Lower Upper

114 100

63 20.3 0.0 37.4

88 14.8 0.0 29.0



#35

Dibromofluoromethane

Concen: 52.558 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY021041.D

Acq: 03 Feb 2025 19:44

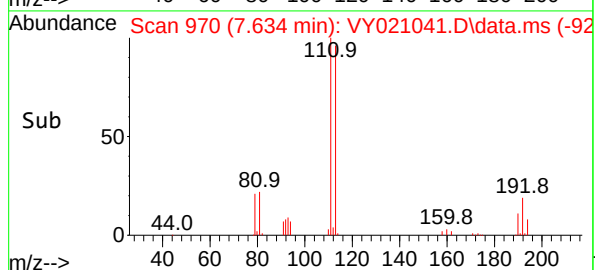
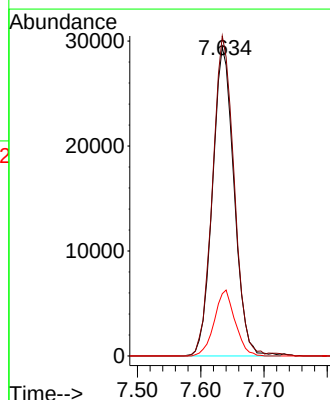
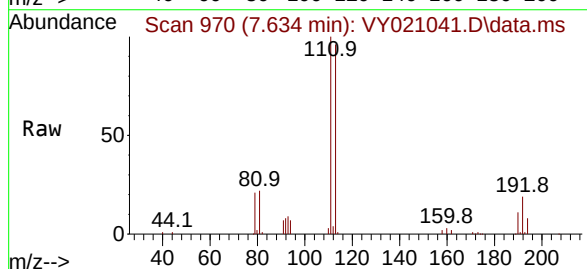
Tgt Ion:113 Resp: 69718

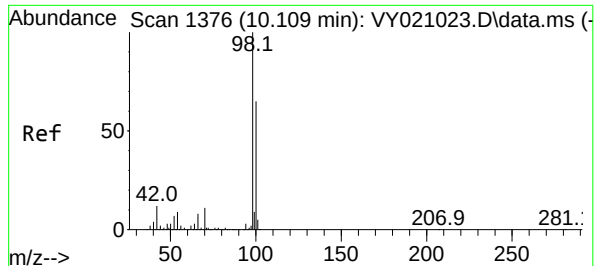
Ion Ratio Lower Upper

113 100

111 103.6 83.8 125.6

192 20.5 14.5 21.7





#50

Toluene-d8

Concen: 49.291 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021041.D

Acq: 03 Feb 2025 19:44

Instrument :

MSVOA_Y

ClientSampleId :

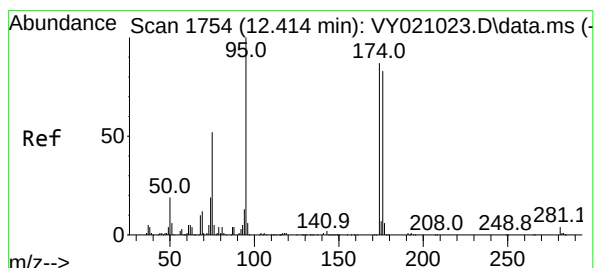
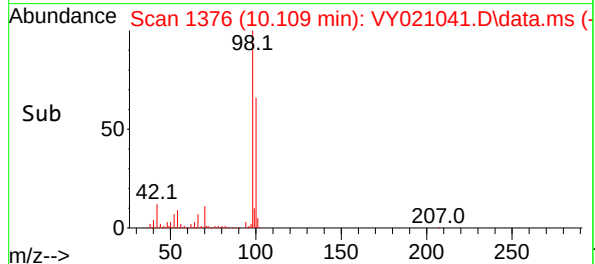
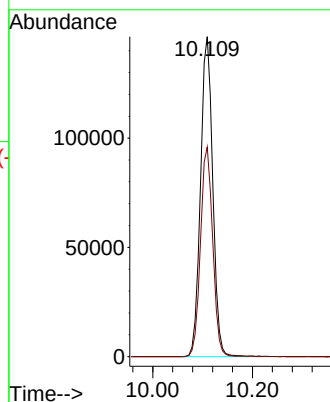
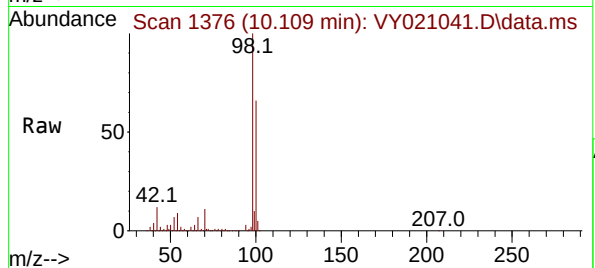
JPP-2.1-012725

Tgt Ion: 98 Resp: 248922

Ion Ratio Lower Upper

98 100

100 65.6 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 44.698 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.006 min

Lab File: VY021041.D

Acq: 03 Feb 2025 19:44

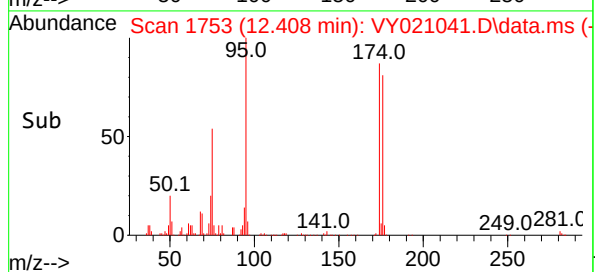
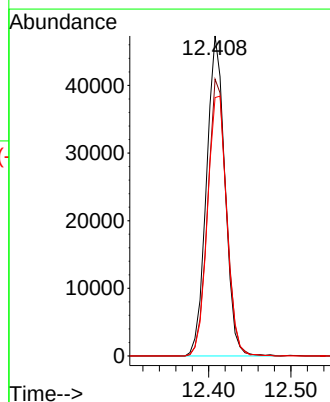
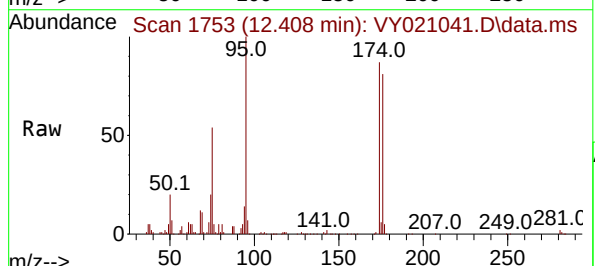
Tgt Ion: 95 Resp: 73745

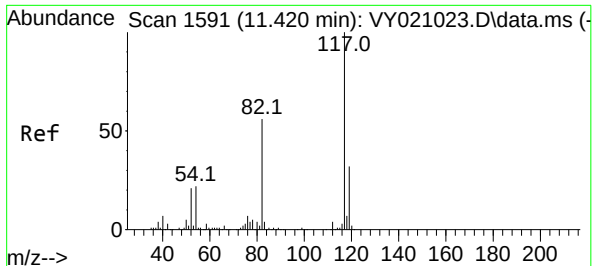
Ion Ratio Lower Upper

95 100

174 87.9 0.0 160.0

176 85.2 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021041.D

Acq: 03 Feb 2025 19:44

Instrument :

MSVOA_Y

ClientSampleId :

JPP-2.1-012725

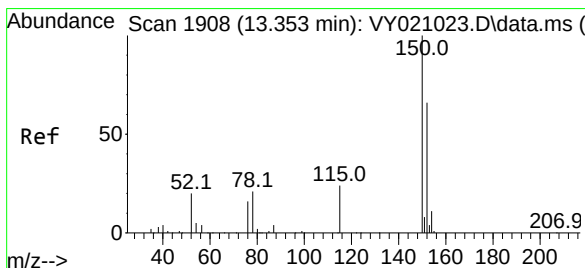
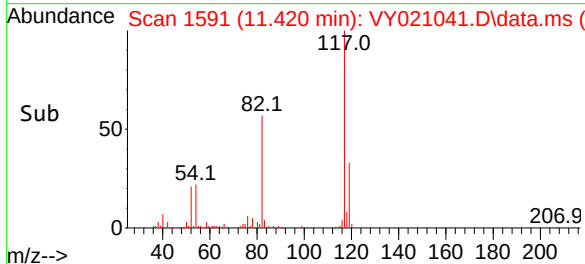
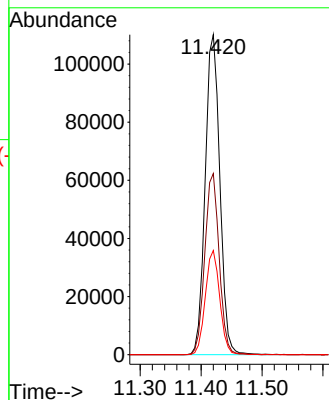
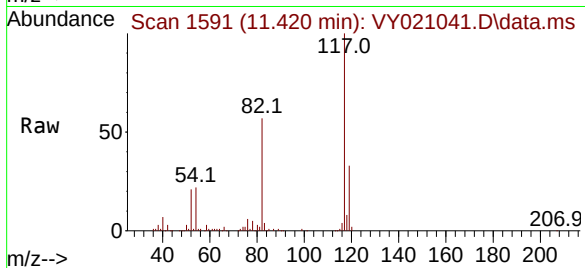
Tgt Ion:117 Resp: 183953

Ion Ratio Lower Upper

117 100

82 56.6 43.8 65.8

119 32.6 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VY021041.D

Acq: 03 Feb 2025 19:44

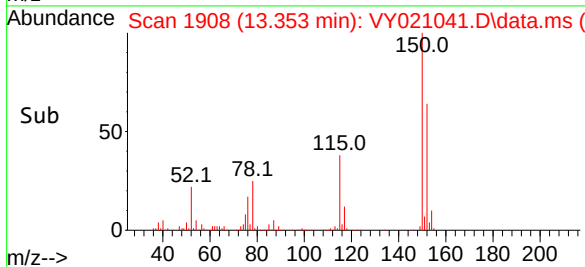
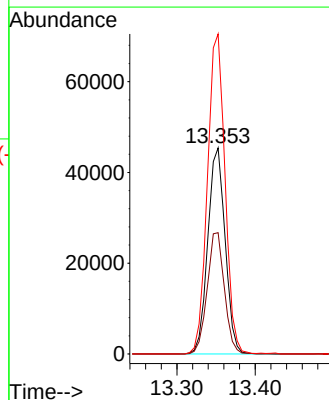
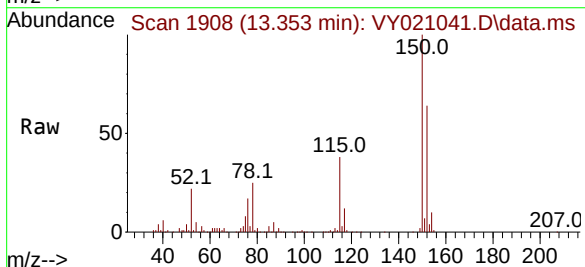
Tgt Ion:152 Resp: 69823

Ion Ratio Lower Upper

152 100

115 58.3 30.0 90.0

150 156.8 0.0 344.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021041.D
Acq On : 03 Feb 2025 19:44
Operator : SY/MD
Sample : Q1207-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-2.1-012725

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M

Title : SW846 8260

Signal : TIC: VY021041.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	839	848	858	rBV2	5476	15471	2.30%	0.455%
2	7.634	957	970	976	rBV	100948	238953	35.48%	7.035%
3	7.707	976	982	996	rVB	149015	343242	50.96%	10.105%
4	8.061	1025	1040	1054	rBV	84022	197478	29.32%	5.814%
5	8.616	1123	1131	1146	rBV	254108	494154	73.36%	14.548%
6	10.109	1367	1376	1392	rBV	392852	673558	100.00%	19.830%
7	10.512	1433	1442	1448	rBV2	4262	8450	1.25%	0.249%
8	10.877	1497	1502	1508	rBV3	5349	9159	1.36%	0.270%
9	11.420	1584	1591	1604	rBV	346582	576341	85.57%	16.968%
10	12.408	1747	1753	1766	rVB	251462	406390	60.33%	11.964%
11	13.353	1899	1908	1916	rBV	273922	433447	64.35%	12.761%

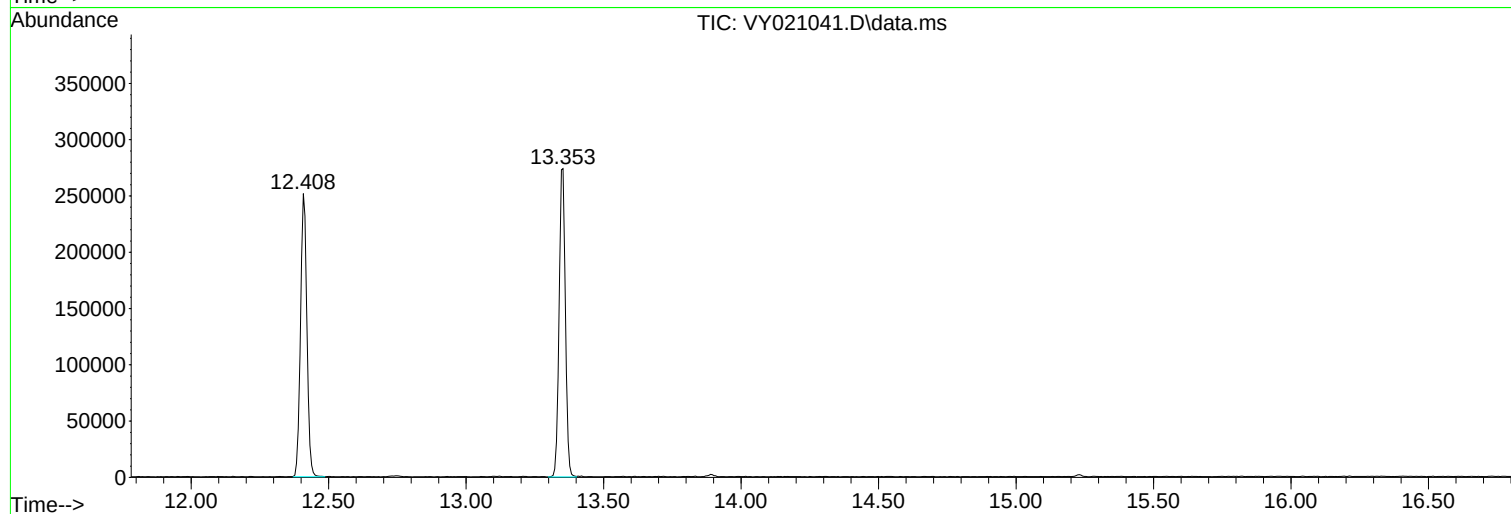
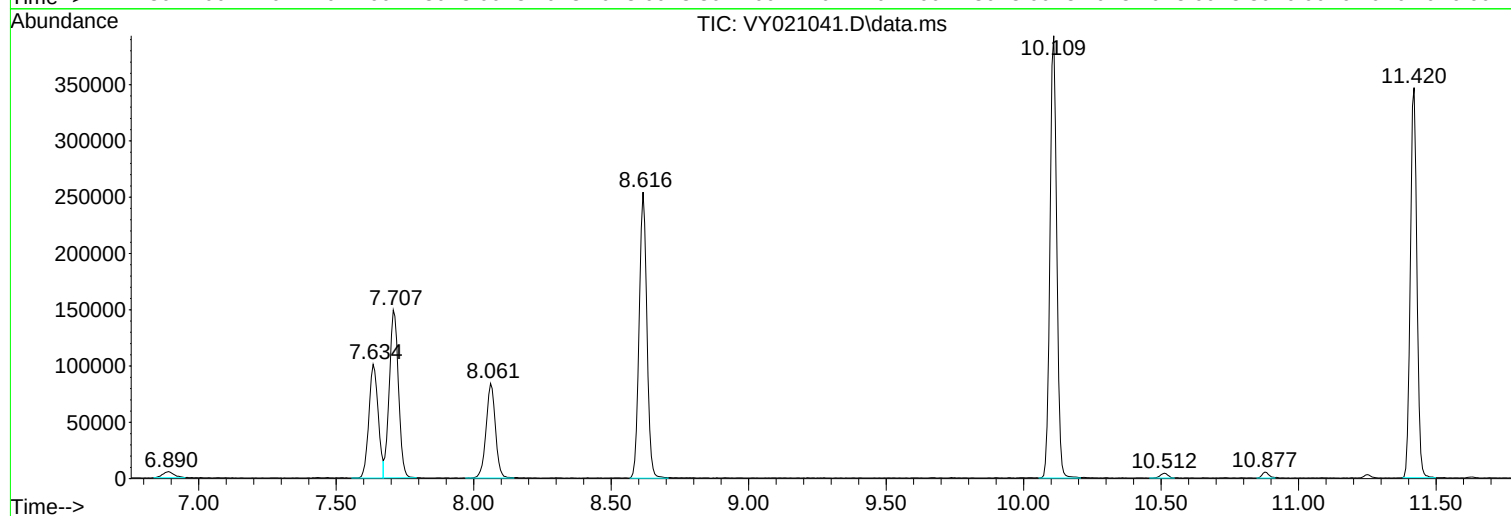
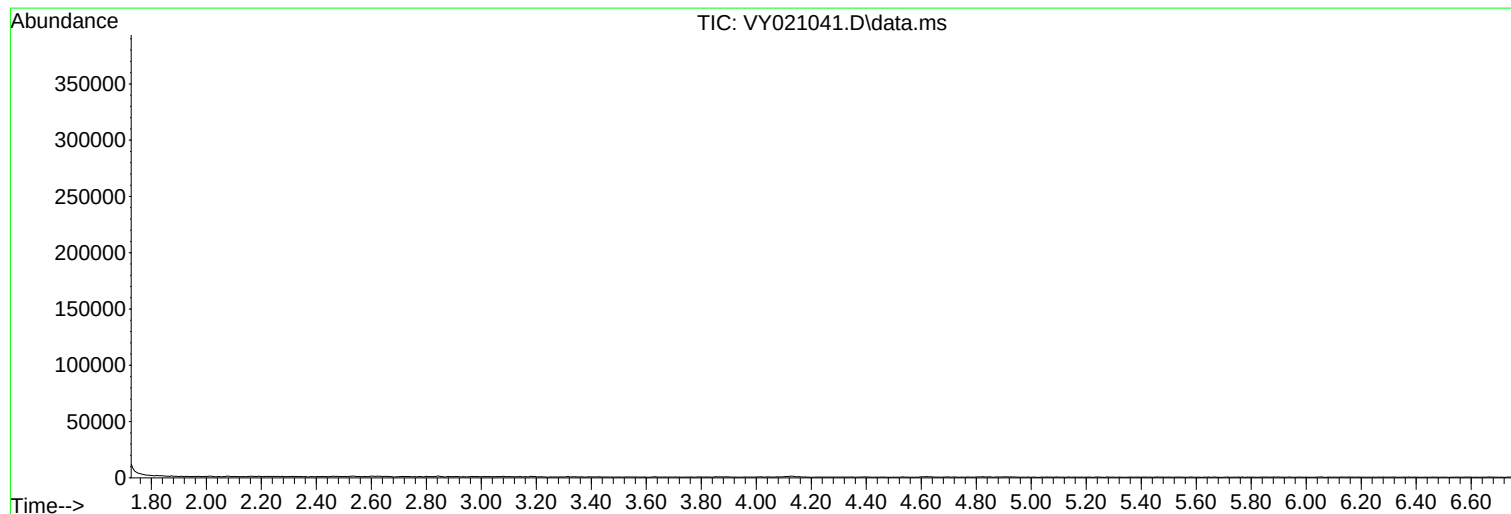
Sum of corrected areas: 3396643

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021041.D
Acq On : 03 Feb 2025 19:44
Operator : SY/MD
Sample : Q1207-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-2.1-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021041.D
Acq On : 03 Feb 2025 19:44
Operator : SY/MD
Sample : Q1207-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-2.1-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021041.D
Acq On : 03 Feb 2025 19:44
Operator : SY/MD
Sample : Q1207-01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-2.1-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-5.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.2
Sample Wt/Vol:	5.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021042.D	1		02/03/25 20:08	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.40	U	1.80	5.40	ug/Kg
74-87-3	Chloromethane	5.40	U	1.30	5.40	ug/Kg
75-01-4	Vinyl Chloride	5.40	U	0.83	5.40	ug/Kg
74-83-9	Bromomethane	5.40	U	1.10	5.40	ug/Kg
75-00-3	Chloroethane	5.40	U	1.10	5.40	ug/Kg
75-69-4	Trichlorofluoromethane	5.40	U	0.98	5.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.40	U	1.20	5.40	ug/Kg
75-65-0	Tert butyl alcohol	27.0	U	16.8	27.0	ug/Kg
75-35-4	1,1-Dichloroethene	5.40	U	0.84	5.40	ug/Kg
67-64-1	Acetone	27.0	U	6.70	27.0	ug/Kg
75-15-0	Carbon Disulfide	5.40	U	1.40	5.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.40	U	0.72	5.40	ug/Kg
79-20-9	Methyl Acetate	5.40	U	1.90	5.40	ug/Kg
75-09-2	Methylene Chloride	10.8	U	3.70	10.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.40	U	0.91	5.40	ug/Kg
75-34-3	1,1-Dichloroethane	5.40	U	0.68	5.40	ug/Kg
110-82-7	Cyclohexane	5.40	U	0.74	5.40	ug/Kg
78-93-3	2-Butanone	27.0	U	6.10	27.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.40	U	0.94	5.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.40	U	0.66	5.40	ug/Kg
74-97-5	Bromochloromethane	5.40	U	2.60	5.40	ug/Kg
67-66-3	Chloroform	5.40	U	0.72	5.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.40	U	0.84	5.40	ug/Kg
108-87-2	Methylcyclohexane	5.40	U	0.94	5.40	ug/Kg
71-43-2	Benzene	5.40	U	0.78	5.40	ug/Kg
107-06-2	1,2-Dichloroethane	5.40	U	0.66	5.40	ug/Kg
79-01-6	Trichloroethene	5.40	U	0.81	5.40	ug/Kg
78-87-5	1,2-Dichloropropane	5.40	U	0.71	5.40	ug/Kg
75-27-4	Bromodichloromethane	5.40	U	0.60	5.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	27.0	U	4.70	27.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	01/27/25	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	01/28/25	
Client Sample ID:	JPP-5.1-012725		SDG No.:	Q1207	
Lab Sample ID:	Q1207-05		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	91.2	
Sample Wt/Vol:	5.08	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021042.D	1		02/03/25 20:08	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	5.40	U	0.72	5.40	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.40	U	0.65	5.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.40	U	0.62	5.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.40	U	0.91	5.40	ug/Kg
591-78-6	2-Hexanone	27.0	U	5.20	27.0	ug/Kg
124-48-1	Dibromochloromethane	5.40	U	0.70	5.40	ug/Kg
106-93-4	1,2-Dibromoethane	5.40	U	0.85	5.40	ug/Kg
127-18-4	Tetrachloroethene	5.40	U	0.96	5.40	ug/Kg
108-90-7	Chlorobenzene	5.40	U	0.80	5.40	ug/Kg
100-41-4	Ethyl Benzene	5.40	U	0.67	5.40	ug/Kg
179601-23-1	m/p-Xylenes	10.8	U	1.50	10.8	ug/Kg
95-47-6	o-Xylene	5.40	U	0.76	5.40	ug/Kg
100-42-5	Styrene	5.40	U	0.65	5.40	ug/Kg
75-25-2	Bromoform	5.40	U	0.87	5.40	ug/Kg
98-82-8	Isopropylbenzene	5.40	U	0.72	5.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.40	U	1.20	5.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.40	U	0.80	5.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.40	U	0.86	5.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.40	U	0.64	5.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.40	U	1.70	5.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.40	U	0.85	5.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.40	U	0.84	5.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.8		50 - 163	118%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		54 - 147	103%	SPK: 50
2037-26-5	Toluene-d8	49.8		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		29 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.707			
540-36-3	1,4-Difluorobenzene	315000	8.616			
3114-55-4	Chlorobenzene-d5	290000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.353			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-5.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.2
Sample Wt/Vol:	5.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021042.D	1		02/03/25 20:08	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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_Y\Data\VY020325\
Data File : VY021042.D
Acq On : 03 Feb 2025 20:08
Operator : SY/MD
Sample : Q1207-05
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-5.1-012725

Quant Time: Feb 04 01:00:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	166979	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	314925	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	290112	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	120538	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	100658	58.836	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	117.680%
35) Dibromofluoromethane	7.634	113	104033	51.546	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.100%
50) Toluene-d8	10.109	98	382500	49.781	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.560%
62) 4-Bromofluorobenzene	12.408	95	122640	48.857	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	97.720%

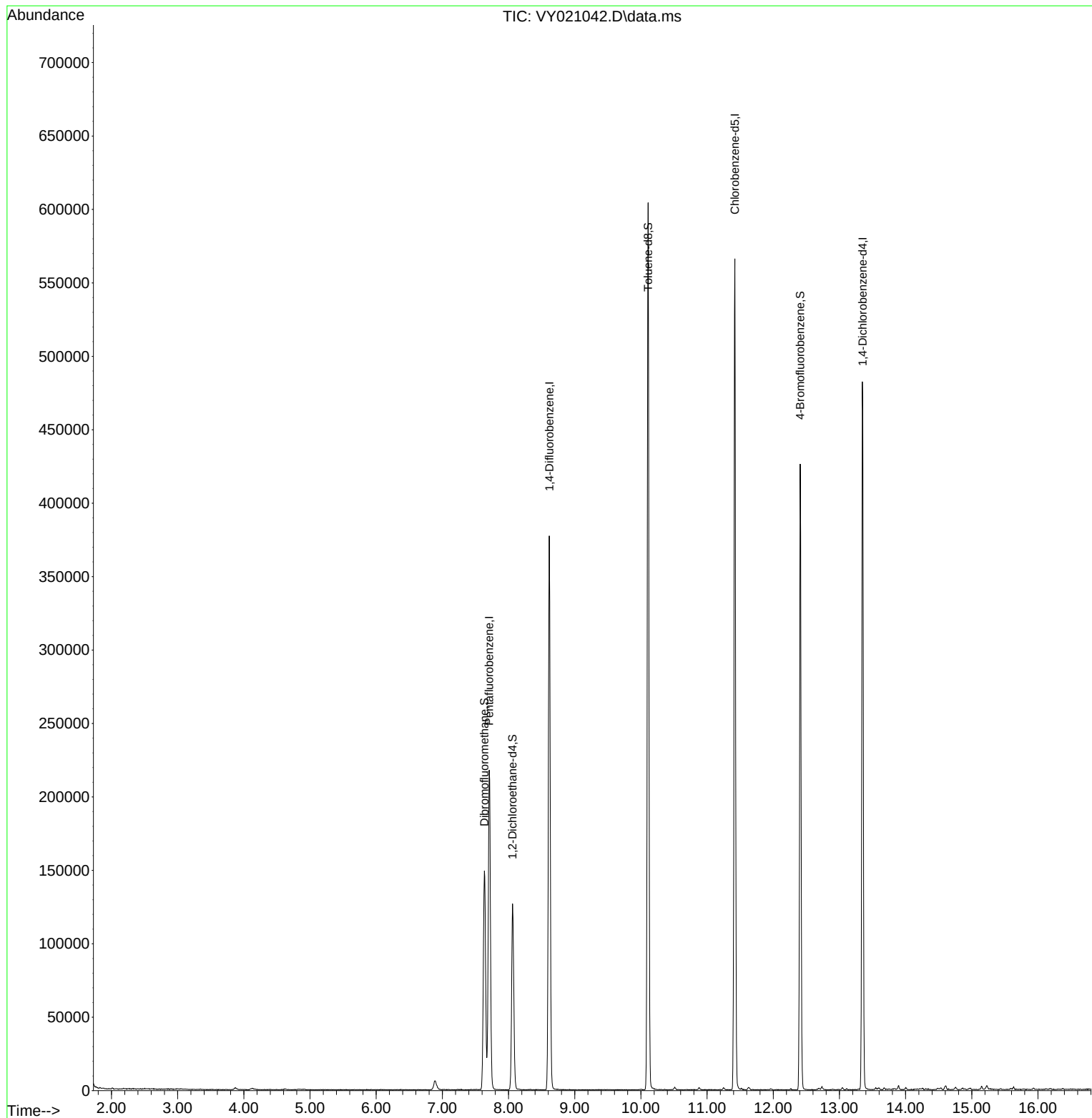
Target Compounds	Qvalue
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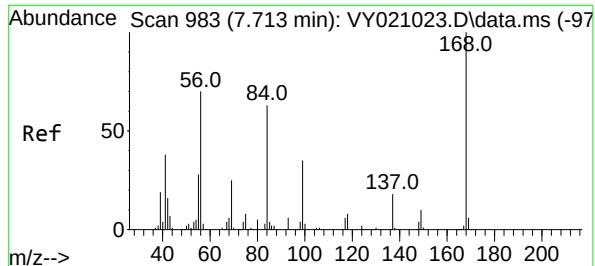
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021042.D
Acq On : 03 Feb 2025 20:08
Operator : SY/MD
Sample : Q1207-05
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-5.1-012725

Quant Time: Feb 04 01:00:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

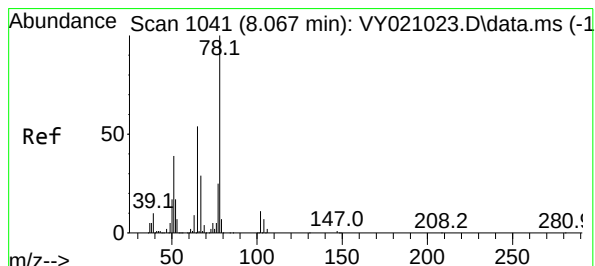
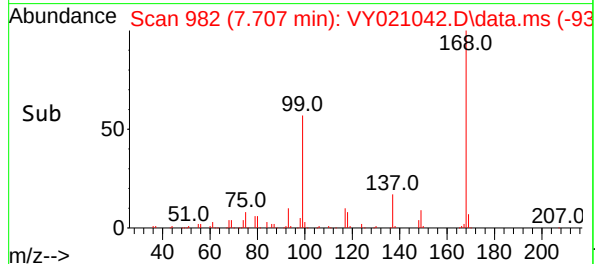
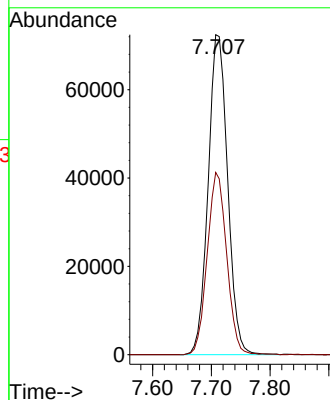
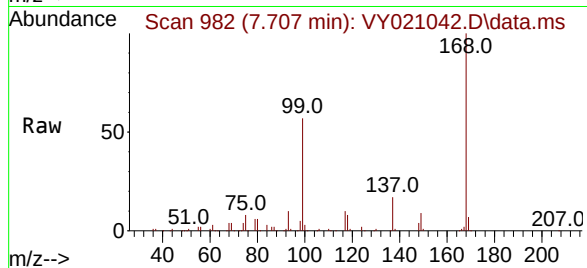




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021042.D
Acq: 03 Feb 2025 20:08

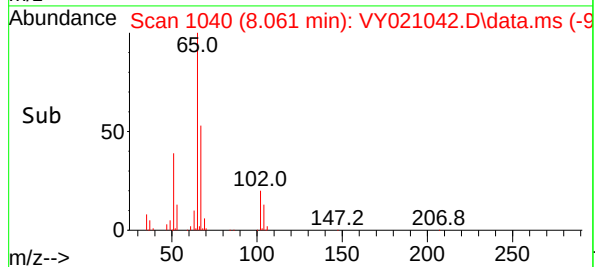
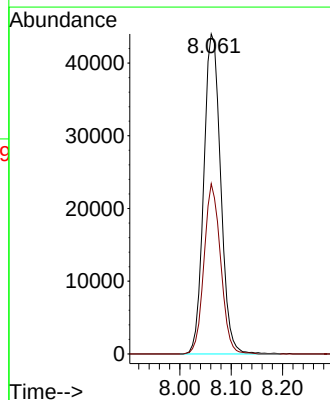
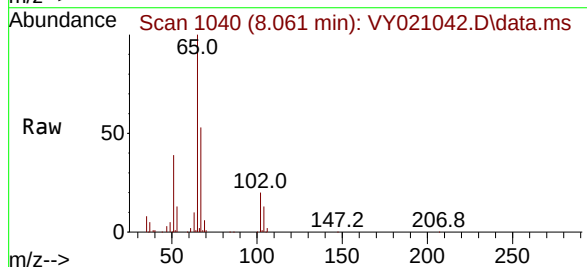
Instrument :
MSVOA_Y
ClientSampleId :
JPP-5.1-012725

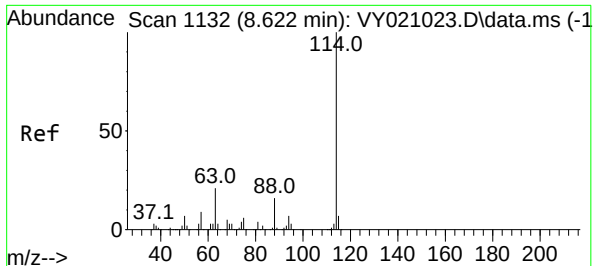
Tgt Ion:168 Resp: 166979
Ion Ratio Lower Upper
168 100
99 57.0 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 58.836 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021042.D
Acq: 03 Feb 2025 20:08

Tgt Ion: 65 Resp: 100658
Ion Ratio Lower Upper
65 100
67 52.1 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1132

Delta R.T. -0.006 min

Lab File: VY021042.D

Acq: 03 Feb 2025 20:08

Instrument :

MSVOA_Y

ClientSampleId :

JPP-5.1-012725

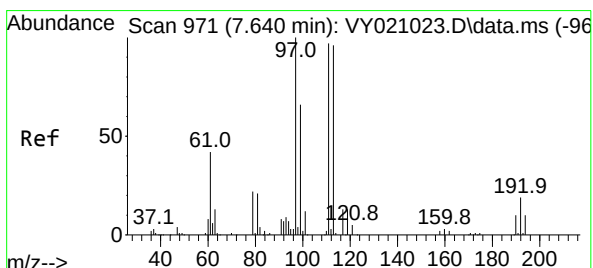
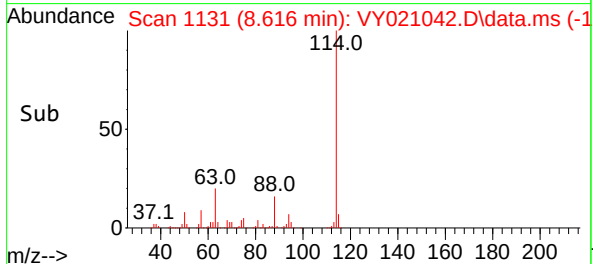
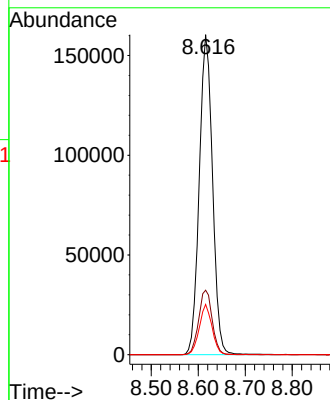
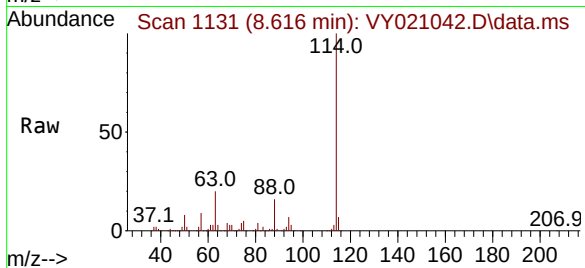
Tgt Ion:114 Resp: 314925

Ion Ratio Lower Upper

114 100

63 20.2 0.0 37.4

88 15.7 0.0 29.0



#35

Dibromofluoromethane

Concen: 51.546 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY021042.D

Acq: 03 Feb 2025 20:08

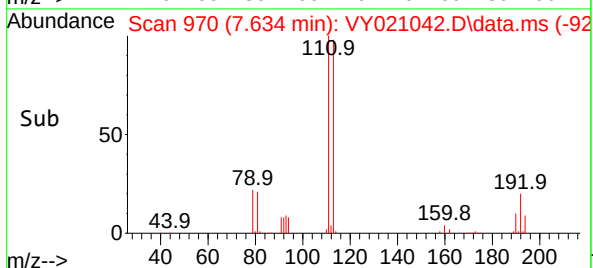
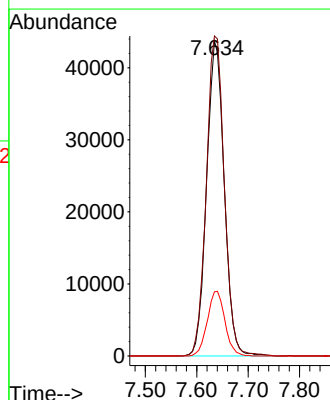
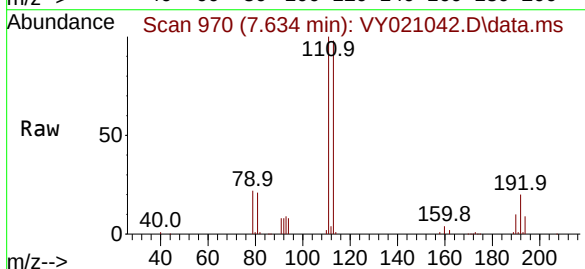
Tgt Ion:113 Resp: 104033

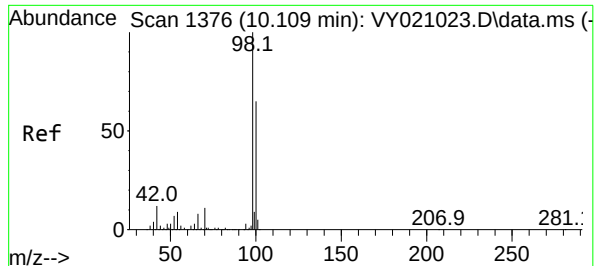
Ion Ratio Lower Upper

113 100

111 103.9 83.8 125.6

192 20.6 14.5 21.7





#50

Toluene-d8

Concen: 49.781 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021042.D

Acq: 03 Feb 2025 20:08

Instrument :

MSVOA_Y

ClientSampleId :

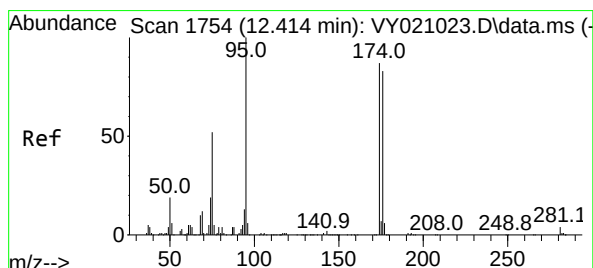
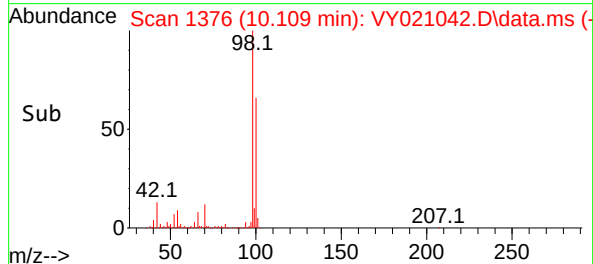
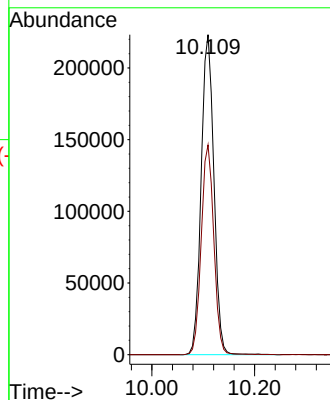
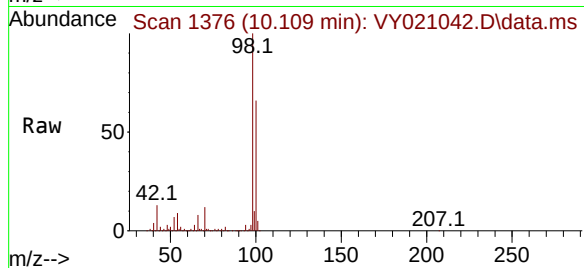
JPP-5.1-012725

Tgt Ion: 98 Resp: 382500

Ion Ratio Lower Upper

98 100

100 65.0 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 48.857 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.006 min

Lab File: VY021042.D

Acq: 03 Feb 2025 20:08

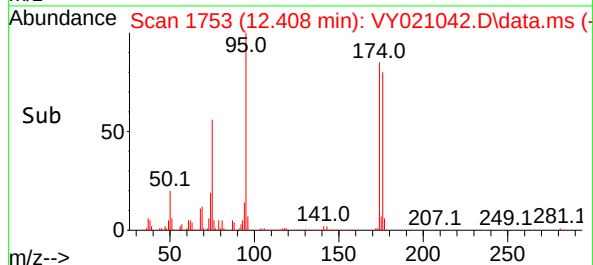
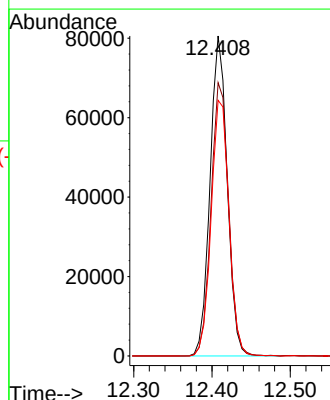
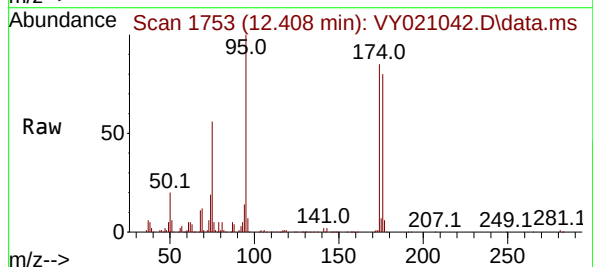
Tgt Ion: 95 Resp: 122640

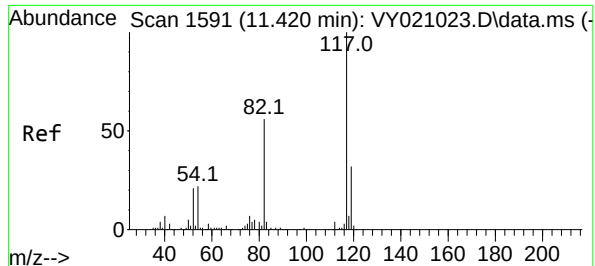
Ion Ratio Lower Upper

95 100

174 87.6 0.0 160.0

176 82.9 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021042.D

Acq: 03 Feb 2025 20:08

Instrument :

MSVOA_Y

ClientSampleId :

JPP-5.1-012725

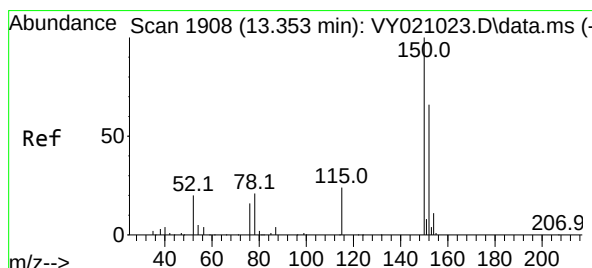
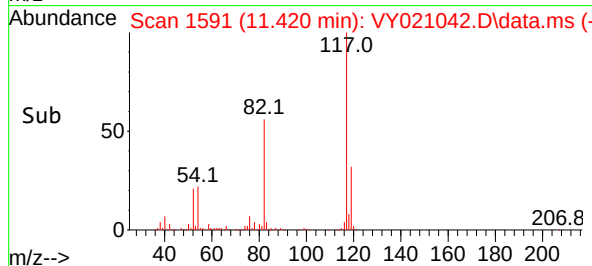
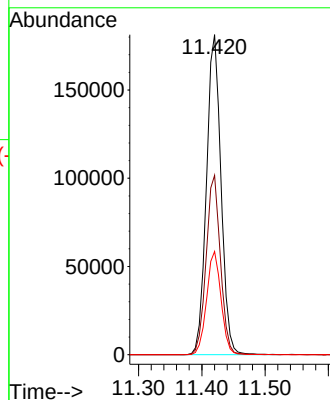
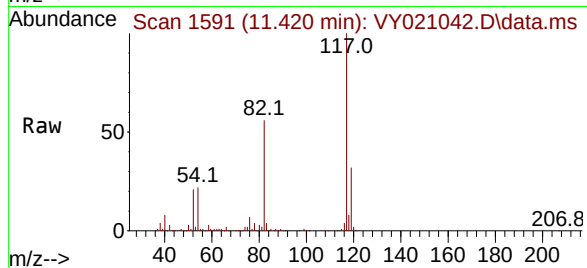
Tgt Ion:117 Resp: 290112

Ion Ratio Lower Upper

117 100

82 56.0 43.8 65.8

119 32.2 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VY021042.D

Acq: 03 Feb 2025 20:08

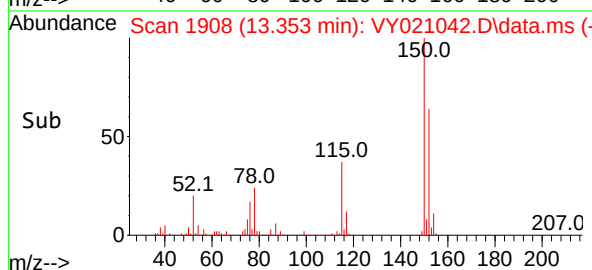
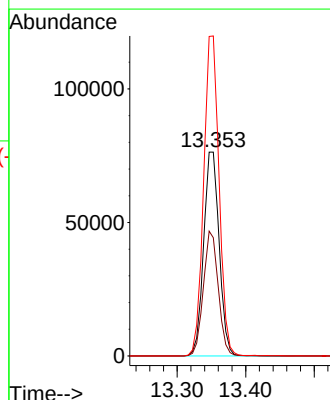
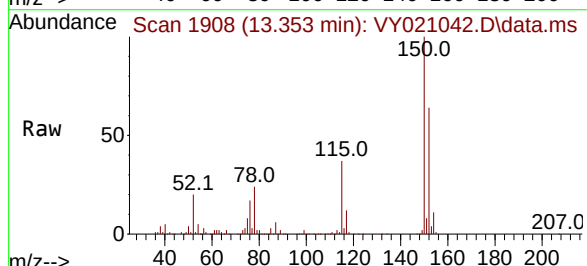
Tgt Ion:152 Resp: 120538

Ion Ratio Lower Upper

152 100

115 58.7 30.0 90.0

150 155.7 0.0 344.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021042.D
Acq On : 03 Feb 2025 20:08
Operator : SY/MD
Sample : Q1207-05
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-5.1-012725

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M

Title : SW846 8260

Signal : TIC: VY021042.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	839	848	858	rBV2	5948	18150	1.76%	0.346%
2	7.634	961	970	976	rBV	148974	354128	34.37%	6.747%
3	7.707	976	982	995	rVB	217442	498477	48.38%	9.497%
4	8.061	1030	1040	1053	rBV	126711	284225	27.59%	5.415%
5	8.616	1122	1131	1144	rBV	377175	741604	71.98%	14.129%
6	10.109	1367	1376	1387	rBV	604072	1030325	100.00%	19.629%
7	11.420	1582	1591	1604	rBV	565801	910456	88.37%	17.345%
8	12.408	1747	1753	1766	rVB	425886	663870	64.43%	12.648%
9	13.347	1900	1907	1920	rBV	481933	747732	72.57%	14.245%

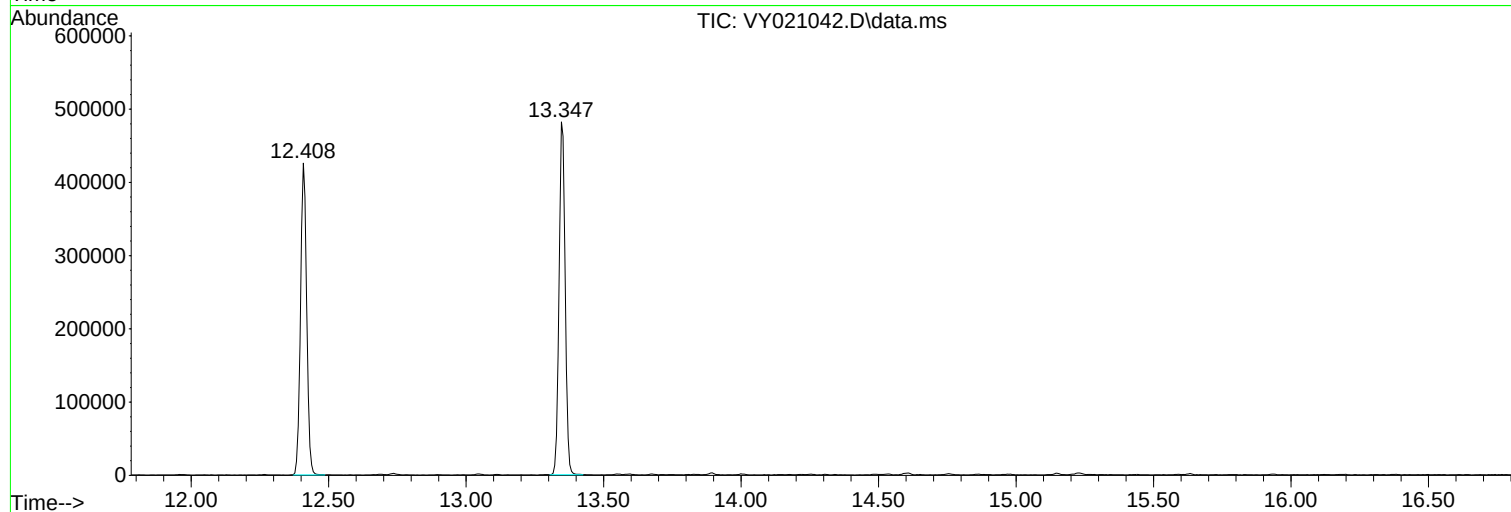
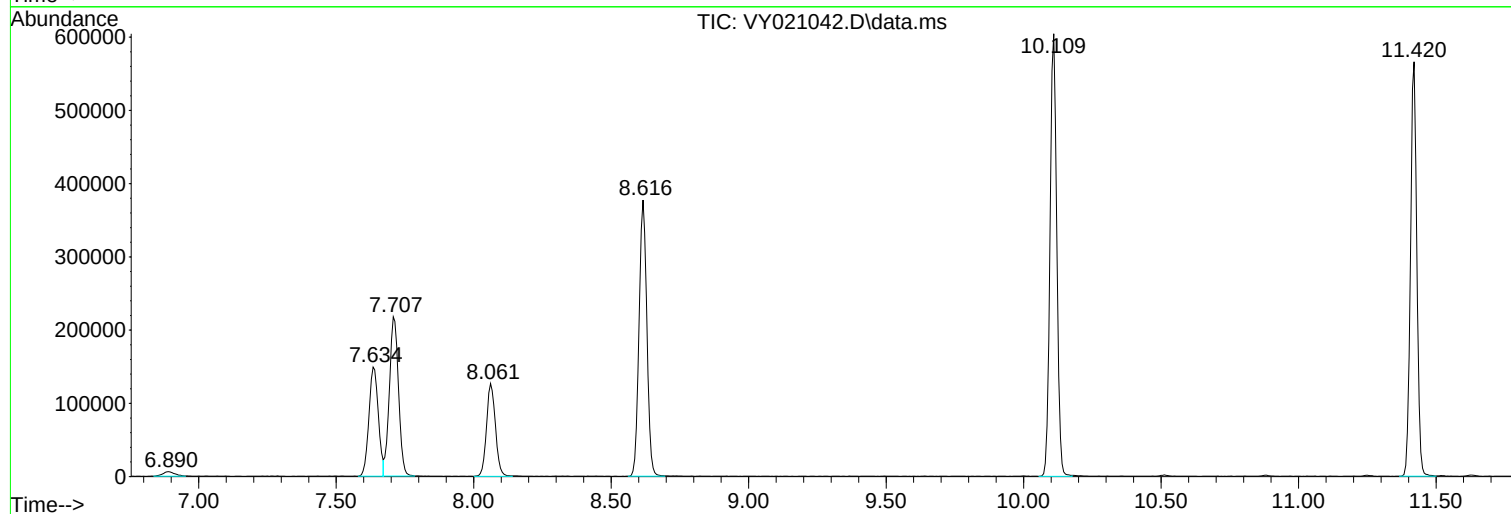
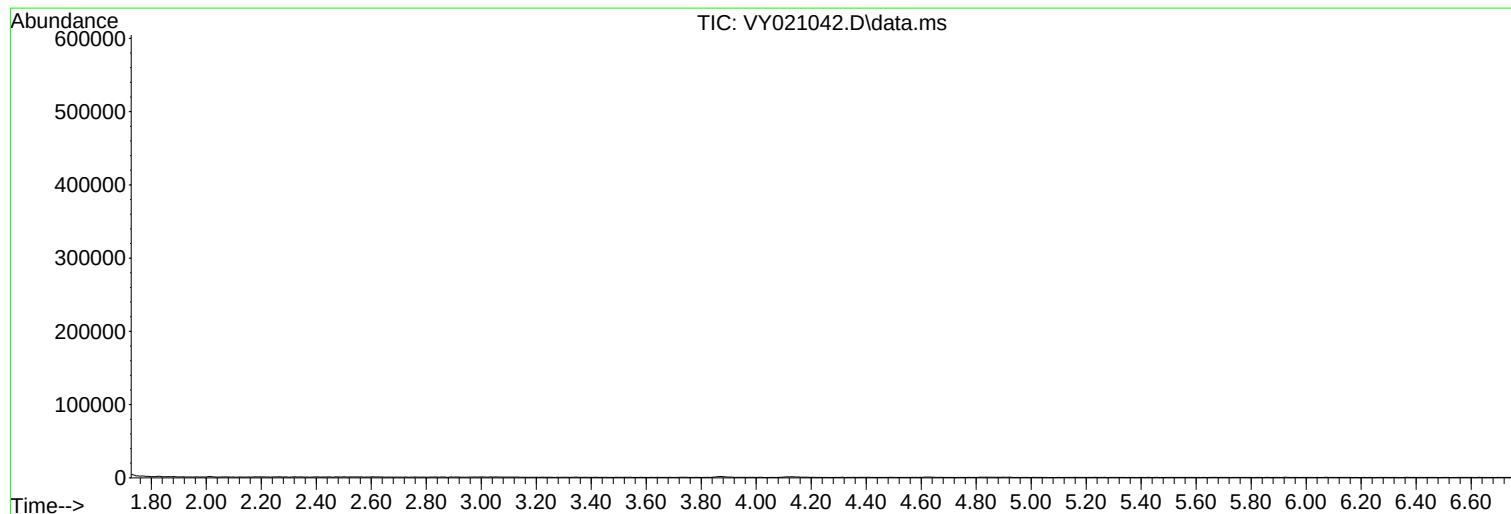
Sum of corrected areas: 5248967

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021042.D
Acq On : 03 Feb 2025 20:08
Operator : SY/MD
Sample : Q1207-05
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-5.1-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021042.D
Acq On : 03 Feb 2025 20:08
Operator : SY/MD
Sample : Q1207-05
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-5.1-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021042.D
Acq On : 03 Feb 2025 20:08
Operator : SY/MD
Sample : Q1207-05
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-5.1-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-4.5-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83
Sample Wt/Vol:	5.03 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021043.D	1		02/03/25 20:31	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	6.00	U	2.00	6.00	ug/Kg
74-87-3	Chloromethane	6.00	U	1.40	6.00	ug/Kg
75-01-4	Vinyl Chloride	6.00	U	0.92	6.00	ug/Kg
74-83-9	Bromomethane	6.00	U	1.20	6.00	ug/Kg
75-00-3	Chloroethane	6.00	U	1.20	6.00	ug/Kg
75-69-4	Trichlorofluoromethane	6.00	U	1.10	6.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	6.00	U	1.30	6.00	ug/Kg
75-65-0	Tert butyl alcohol	29.9	U	18.7	29.9	ug/Kg
75-35-4	1,1-Dichloroethene	6.00	U	0.93	6.00	ug/Kg
67-64-1	Acetone	22.6	J	7.50	29.9	ug/Kg
75-15-0	Carbon Disulfide	6.00	U	1.50	6.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	6.00	U	0.80	6.00	ug/Kg
79-20-9	Methyl Acetate	6.00	U	2.20	6.00	ug/Kg
75-09-2	Methylene Chloride	12.0	U	4.10	12.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	6.00	U	1.00	6.00	ug/Kg
75-34-3	1,1-Dichloroethane	6.00	U	0.75	6.00	ug/Kg
110-82-7	Cyclohexane	6.00	U	0.83	6.00	ug/Kg
78-93-3	2-Butanone	29.9	U	6.80	29.9	ug/Kg
56-23-5	Carbon Tetrachloride	6.00	U	1.00	6.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	6.00	U	0.73	6.00	ug/Kg
74-97-5	Bromochloromethane	6.00	U	2.90	6.00	ug/Kg
67-66-3	Chloroform	6.00	U	0.80	6.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	6.00	U	0.93	6.00	ug/Kg
108-87-2	Methylcyclohexane	6.00	U	1.00	6.00	ug/Kg
71-43-2	Benzene	6.00	U	0.86	6.00	ug/Kg
107-06-2	1,2-Dichloroethane	6.00	U	0.73	6.00	ug/Kg
79-01-6	Trichloroethene	6.00	U	0.90	6.00	ug/Kg
78-87-5	1,2-Dichloropropane	6.00	U	0.79	6.00	ug/Kg
75-27-4	Bromodichloromethane	6.00	U	0.67	6.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	29.9	U	5.20	29.9	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-4.5-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83
Sample Wt/Vol:	5.03 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021043.D	1		02/03/25 20:31	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	6.00	U	0.80	6.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	6.00	U	0.72	6.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	6.00	U	0.68	6.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	6.00	U	1.00	6.00	ug/Kg
591-78-6	2-Hexanone	29.9	U	5.70	29.9	ug/Kg
124-48-1	Dibromochloromethane	6.00	U	0.78	6.00	ug/Kg
106-93-4	1,2-Dibromoethane	6.00	U	0.95	6.00	ug/Kg
127-18-4	Tetrachloroethene	6.00	U	1.10	6.00	ug/Kg
108-90-7	Chlorobenzene	6.00	U	0.89	6.00	ug/Kg
100-41-4	Ethyl Benzene	6.00	U	0.74	6.00	ug/Kg
179601-23-1	m/p-Xylenes	12.0	U	1.60	12.0	ug/Kg
95-47-6	o-Xylene	6.00	U	0.84	6.00	ug/Kg
100-42-5	Styrene	6.00	U	0.72	6.00	ug/Kg
75-25-2	Bromoform	6.00	U	0.97	6.00	ug/Kg
98-82-8	Isopropylbenzene	6.00	U	0.80	6.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	6.00	U	1.30	6.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	6.00	U	0.89	6.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	6.00	U	0.96	6.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	6.00	U	0.71	6.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	6.00	U	1.90	6.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	6.00	U	0.95	6.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	6.00	U	0.93	6.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.5		50 - 163	123%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		54 - 147	106%	SPK: 50
2037-26-5	Toluene-d8	49.7		58 - 134	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		29 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	150000	7.713			
540-36-3	1,4-Difluorobenzene	279000	8.616			
3114-55-4	Chlorobenzene-d5	255000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	104000	13.353			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-4.5-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	83
Sample Wt/Vol:	5.03 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021043.D	1		02/03/25 20:31	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TENTATIVE IDENTIFIED COMPOUNDS						
109-99-9	Tetrahydrofuran	17.8	J		7.27	ug/Kg

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_Y\Data\VY020325\
Data File : VY021043.D
Acq On : 03 Feb 2025 20:31
Operator : SY/MD
Sample : Q1207-09
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-4.5-012725

Quant Time: Feb 04 01:00:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

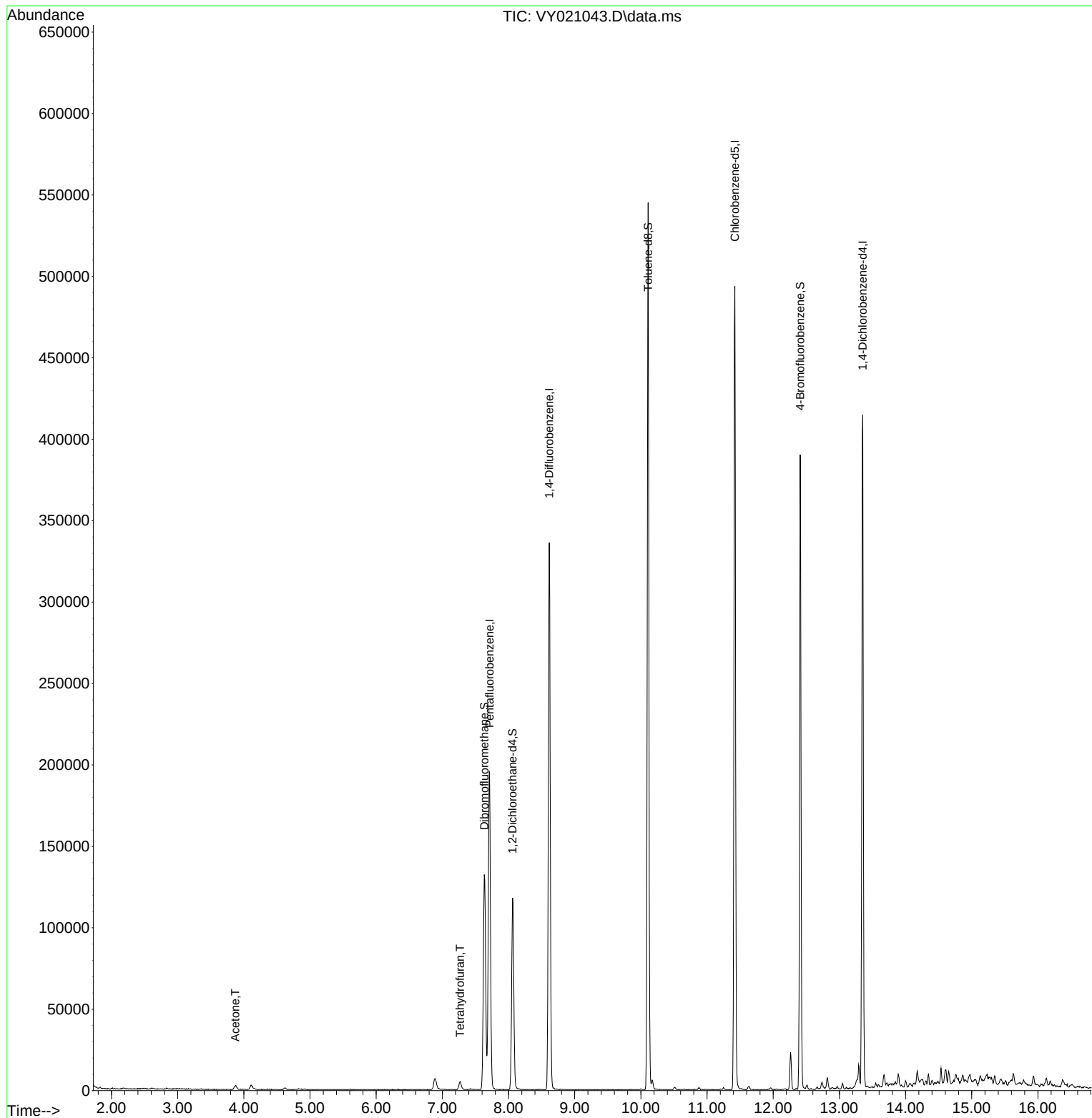
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Pentafluorobenzene		7.713	168	150159	50.000	ug/l	0.00
34) 1,4-Difluorobenzene		8.616	114	279067	50.000	ug/l	0.00
63) Chlorobenzene-d5		11.420	117	254825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4		13.353	152	103960	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4		8.061	65	94579	61.475	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	122.940%	
35) Dibromofluoromethane		7.634	113	94924	53.076	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	106.160%	
50) Toluene-d8		10.109	98	338079	49.654	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.300%	
62) 4-Bromofluorobenzene		12.408	95	108833	48.927	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	97.860%	
Target Compounds							Qvalue
16) Acetone		3.873	43	4520	18.839	ug/l	95
29) Tetrahydrofuran		7.268	42	3974	14.896	ug/l	93

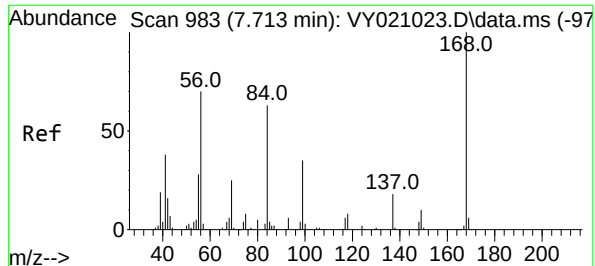
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021043.D
Acq On : 03 Feb 2025 20:31
Operator : SY/MD
Sample : Q1207-09
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-4.5-012725

Quant Time: Feb 04 01:00:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

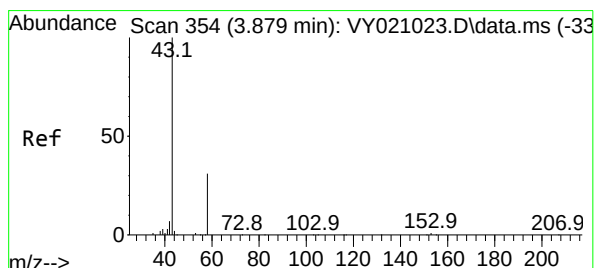
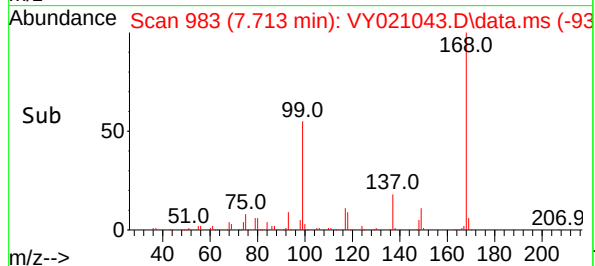
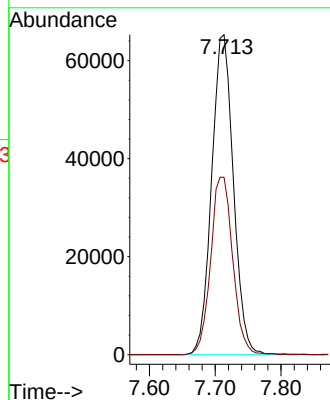
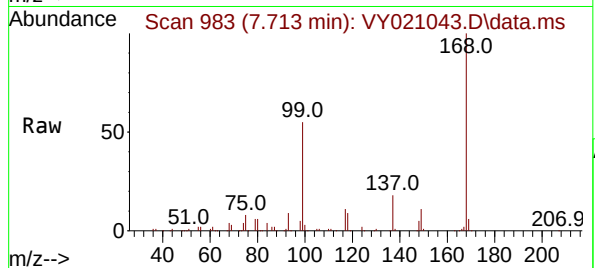




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY021043.D
Acq: 03 Feb 2025 20:31

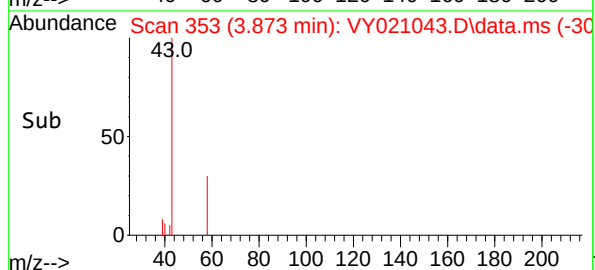
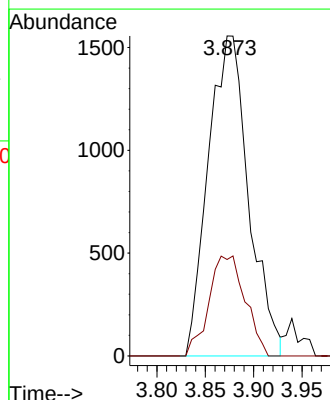
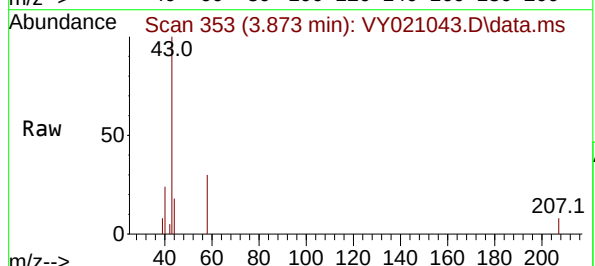
Instrument :
MSVOA_Y
ClientSampleId :
JPP-4.5-012725

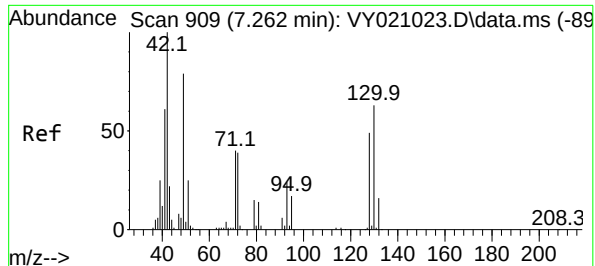
Tgt Ion:168 Resp: 150159
Ion Ratio Lower Upper
168 100
99 55.5 44.2 66.4



#16
Acetone
Concen: 18.839 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY021043.D
Acq: 03 Feb 2025 20:31

Tgt Ion: 43 Resp: 4520
Ion Ratio Lower Upper
43 100
58 30.1 26.6 39.8





#29

Tetrahydrofuran

Concen: 14.896 ug/l

RT: 7.268 min Scan# 910

Delta R.T. 0.006 min

Lab File: VY021043.D

Acq: 03 Feb 2025 20:31

Instrument :

MSVOA_Y

ClientSampleId :

JPP-4.5-012725

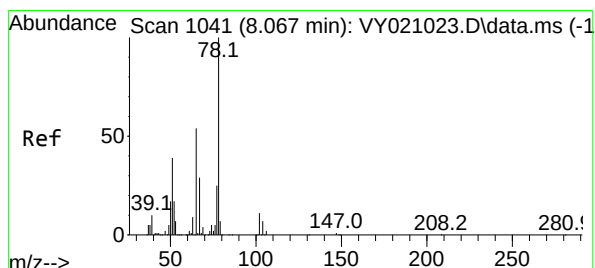
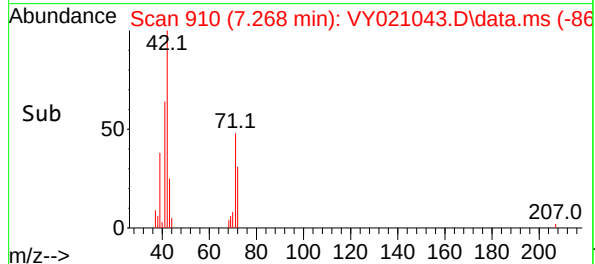
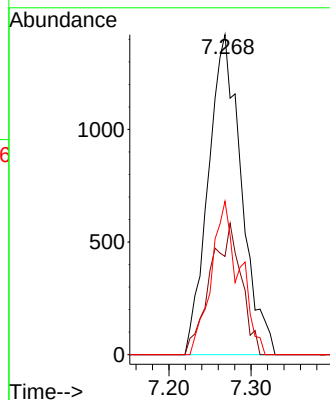
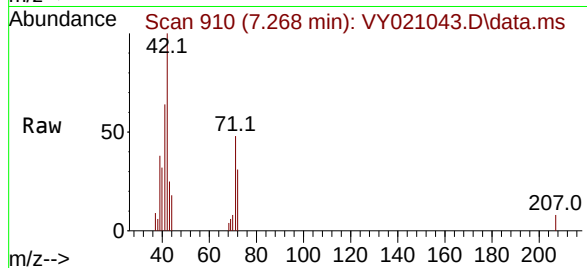
Tgt Ion: 42 Resp: 3974

Ion Ratio Lower Upper

42 100

72 38.1 36.6 54.8

71 41.2 33.8 50.6



#33

1,2-Dichloroethane-d4

Concen: 61.475 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VY021043.D

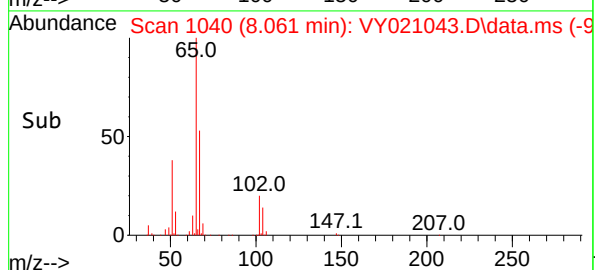
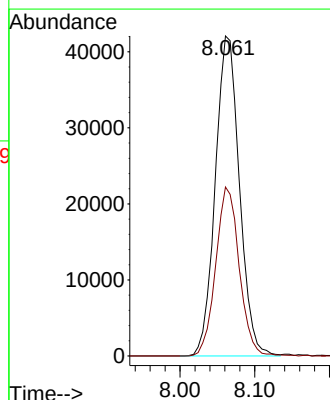
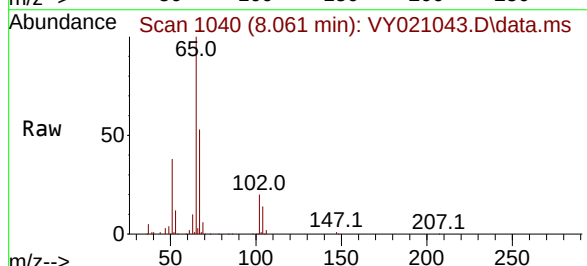
Acq: 03 Feb 2025 20:31

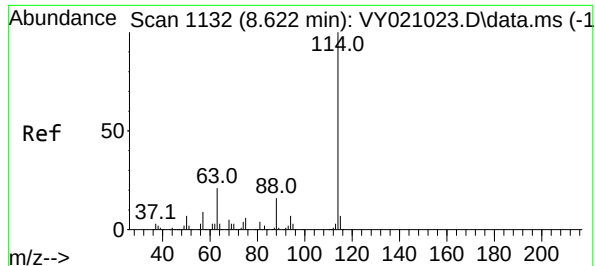
Tgt Ion: 65 Resp: 94579

Ion Ratio Lower Upper

65 100

67 51.4 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1132

Delta R.T. -0.006 min

Lab File: VY021043.D

Acq: 03 Feb 2025 20:31

Instrument :

MSVOA_Y

ClientSampleId :

JPP-4.5-012725

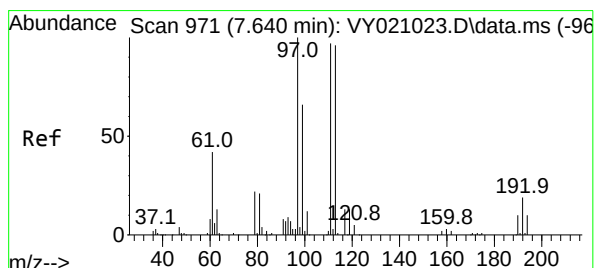
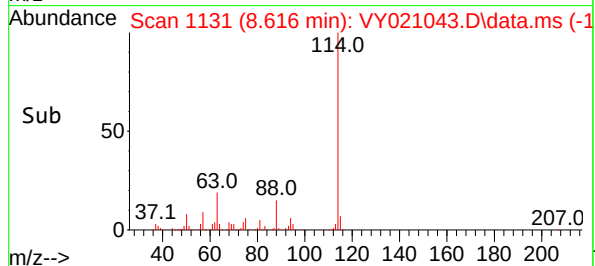
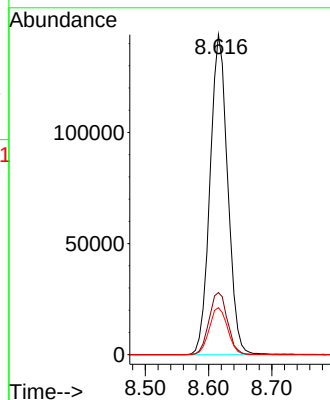
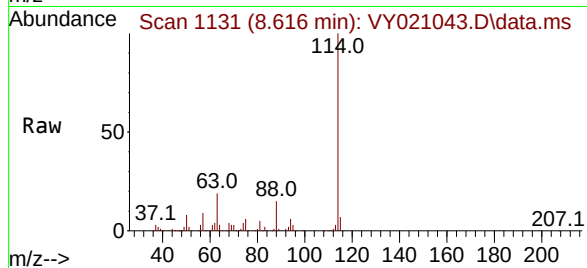
Tgt Ion:114 Resp: 279067

Ion Ratio Lower Upper

114 100

63 19.4 0.0 37.4

88 14.7 0.0 29.0



#35

Dibromofluoromethane

Concen: 53.076 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY021043.D

Acq: 03 Feb 2025 20:31

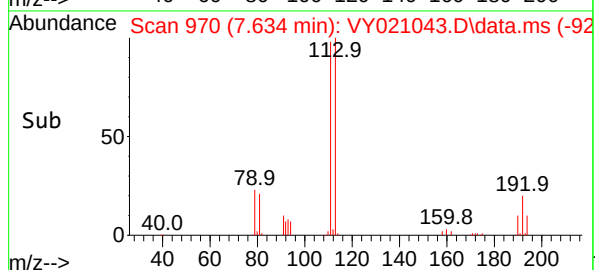
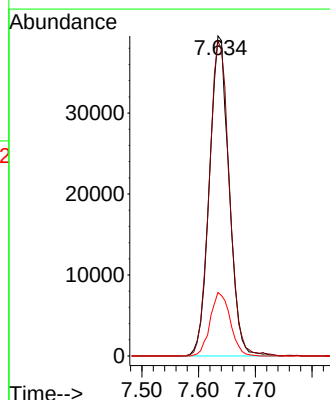
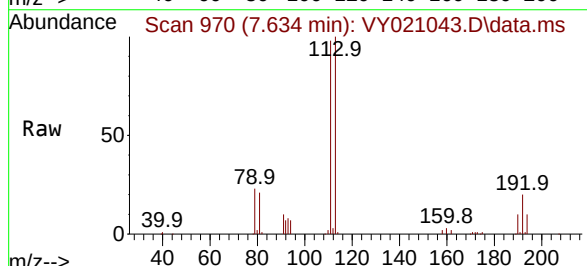
Tgt Ion:113 Resp: 94924

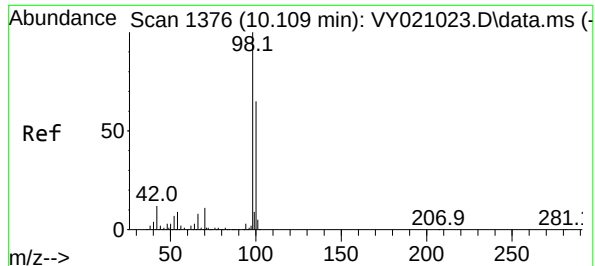
Ion Ratio Lower Upper

113 100

111 101.0 83.8 125.6

192 20.3 14.5 21.7





#50

Toluene-d8

Concen: 49.654 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021043.D

Acq: 03 Feb 2025 20:31

Instrument :

MSVOA_Y

ClientSampleId :

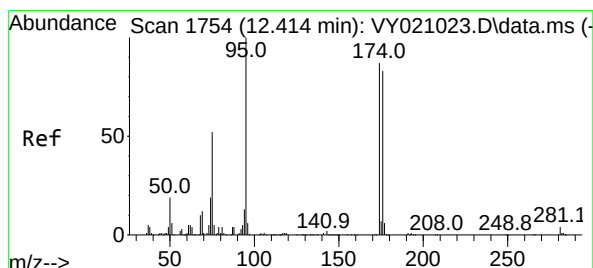
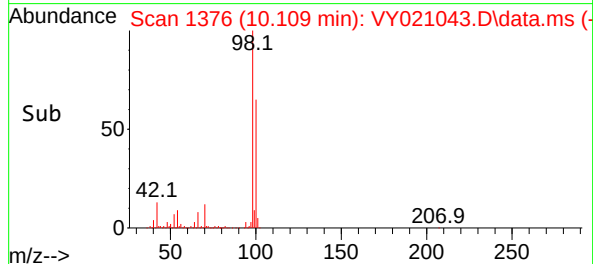
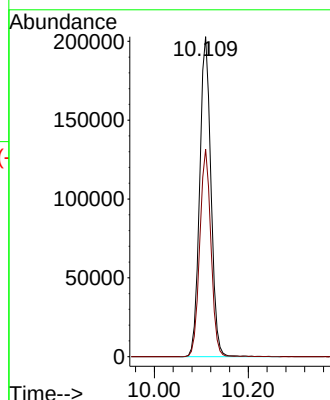
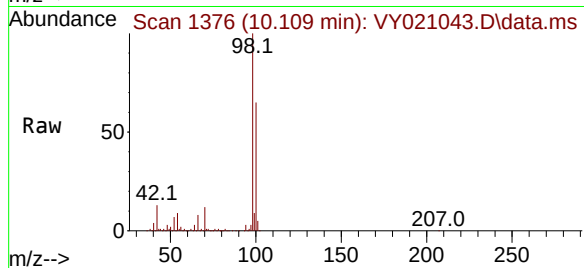
JPP-4.5-012725

Tgt Ion: 98 Resp: 338079

Ion Ratio Lower Upper

98 100

100 64.3 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 48.927 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.006 min

Lab File: VY021043.D

Acq: 03 Feb 2025 20:31

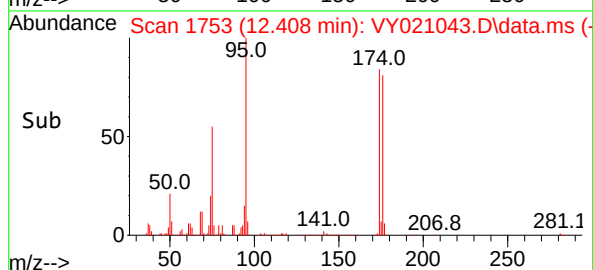
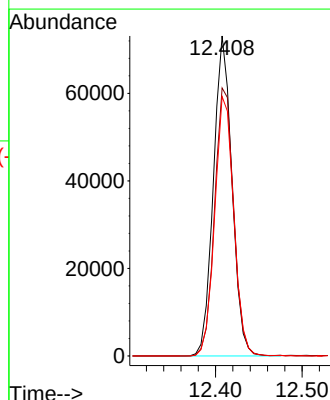
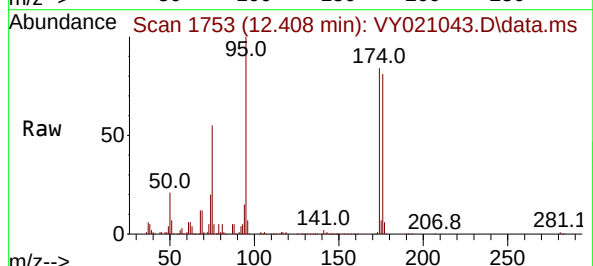
Tgt Ion: 95 Resp: 108833

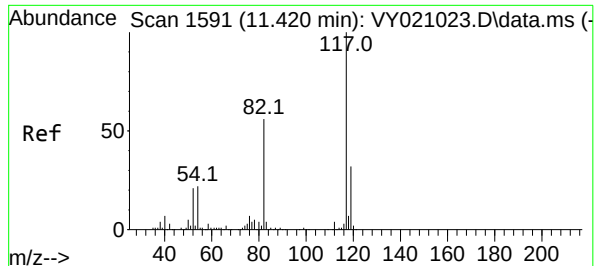
Ion Ratio Lower Upper

95 100

174 86.2 0.0 160.0

176 83.0 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021043.D

Acq: 03 Feb 2025 20:31

Instrument :

MSVOA_Y

ClientSampleId :

JPP-4.5-012725

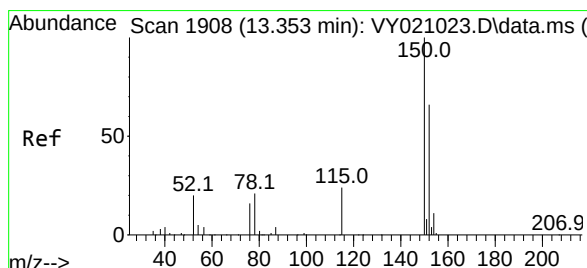
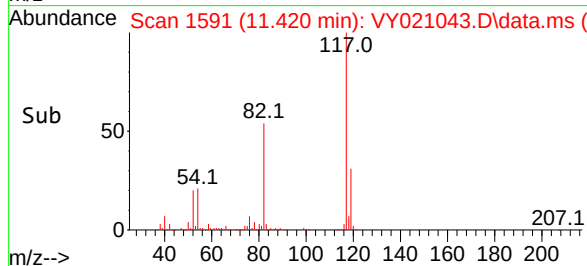
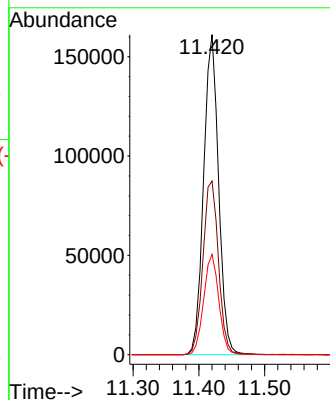
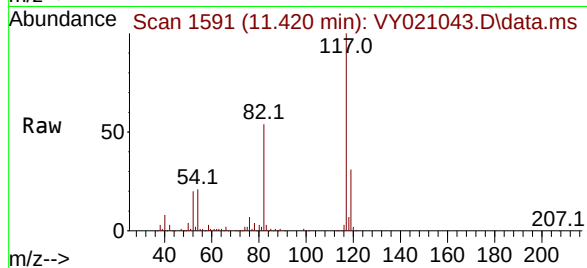
Tgt Ion:117 Resp: 254825

Ion Ratio Lower Upper

117 100

82 54.2 43.8 65.8

119 31.3 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VY021043.D

Acq: 03 Feb 2025 20:31

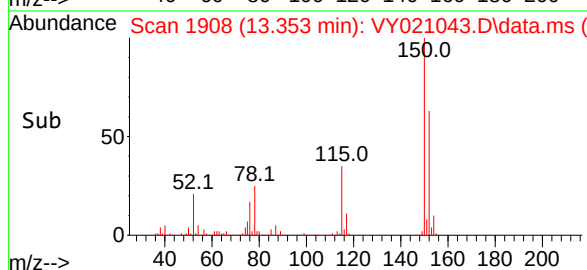
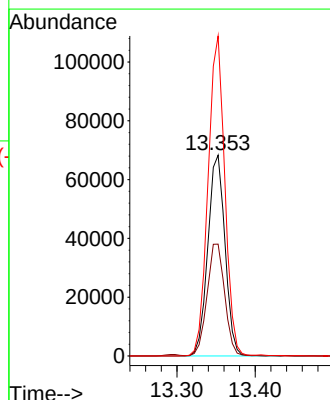
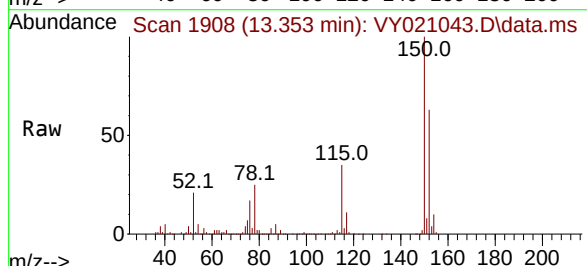
Tgt Ion:152 Resp: 103960

Ion Ratio Lower Upper

152 100

115 57.2 30.0 90.0

150 155.1 0.0 344.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021043.D
Acq On : 03 Feb 2025 20:31
Operator : SY/MD
Sample : Q1207-09
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-4.5-012725

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Title : SW846 8260

Signal : TIC: VY021043.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	837	848	856	rBV	6887	21240	2.34%	0.431%
2	7.268	902	910	922	rBV3	5090	13537	1.49%	0.275%
3	7.634	961	970	976	rBV	131909	317434	34.94%	6.440%
4	7.707	976	982	994	rVB	194723	449923	49.52%	9.129%
5	8.061	1031	1040	1052	rBV	117860	267917	29.49%	5.436%
6	8.616	1121	1131	1140	rBV	336007	659885	72.63%	13.388%
7	10.109	1368	1376	1384	rBV	544758	908612	100.00%	18.435%
8	10.170	1384	1386	1393	rVB2	5755	9144	1.01%	0.186%
9	11.420	1583	1591	1603	rBV	493581	804929	88.59%	16.331%
10	12.261	1722	1729	1738	rVB	23061	36811	4.05%	0.747%
11	12.408	1746	1753	1766	rBV	389797	590131	64.95%	11.973%
12	12.816	1816	1820	1827	rVB4	7140	12637	1.39%	0.256%
13	13.267	1881	1894	1895	rBV8	5534	12991	1.43%	0.264%
14	13.292	1895	1898	1902	rVV	13974	20440	2.25%	0.415%
15	13.353	1902	1908	1916	rVB	412888	641905	70.65%	13.024%
16	13.676	1956	1961	1965	rBV6	7202	12712	1.40%	0.258%
17	13.889	1991	1996	2002	rVB5	7244	12580	1.38%	0.255%
18	14.176	2038	2043	2049	rBV8	8063	14446	1.59%	0.293%
19	14.535	2098	2102	2106	rBV2	9451	12261	1.35%	0.249%
20	14.602	2108	2113	2118	rVV6	8716	18131	2.00%	0.368%
21	14.651	2118	2121	2127	rVB6	7590	12063	1.33%	0.245%
22	14.974	2167	2174	2178	rBV8	4967	10792	1.19%	0.219%
23	15.053	2181	2187	2193	rVB8	3769	11361	1.25%	0.231%
24	15.127	2193	2199	2204	rBV8	6050	14398	1.58%	0.292%
25	15.627	2278	2281	2288	rVB4	6707	11695	1.29%	0.237%
26	15.931	2326	2331	2337	rBV7	5765	10594	1.17%	0.215%
27	16.126	2356	2363	2367	rBV9	4676	9218	1.01%	0.187%
28	16.370	2398	2403	2410	rBV9	4420	10960	1.21%	0.222%

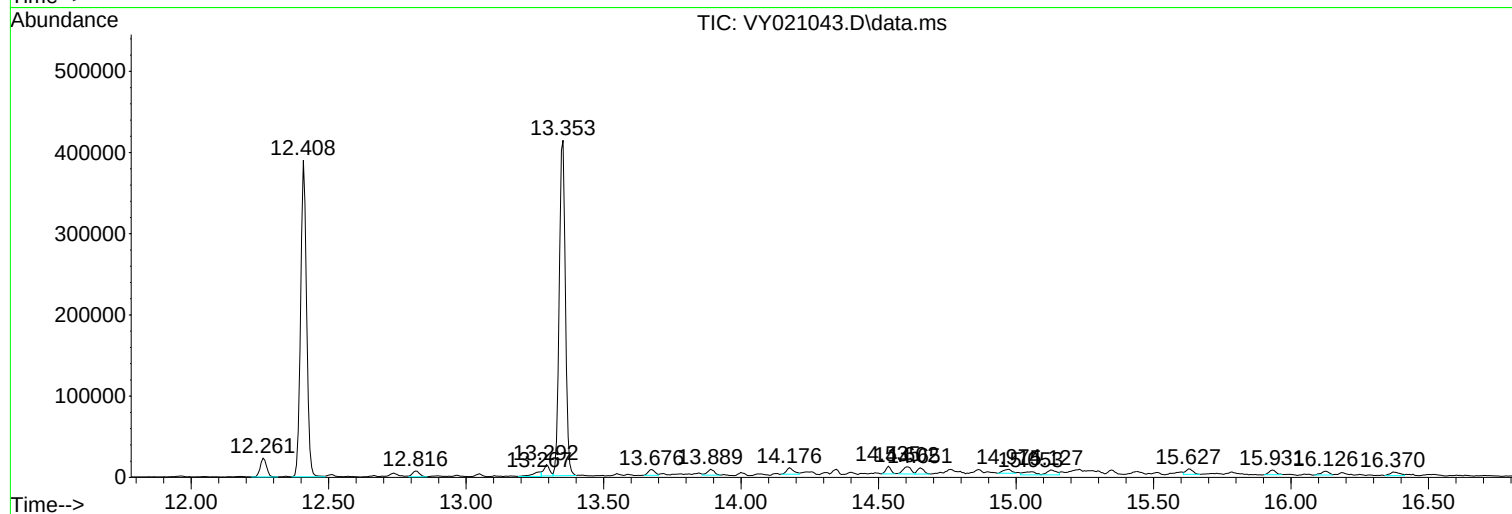
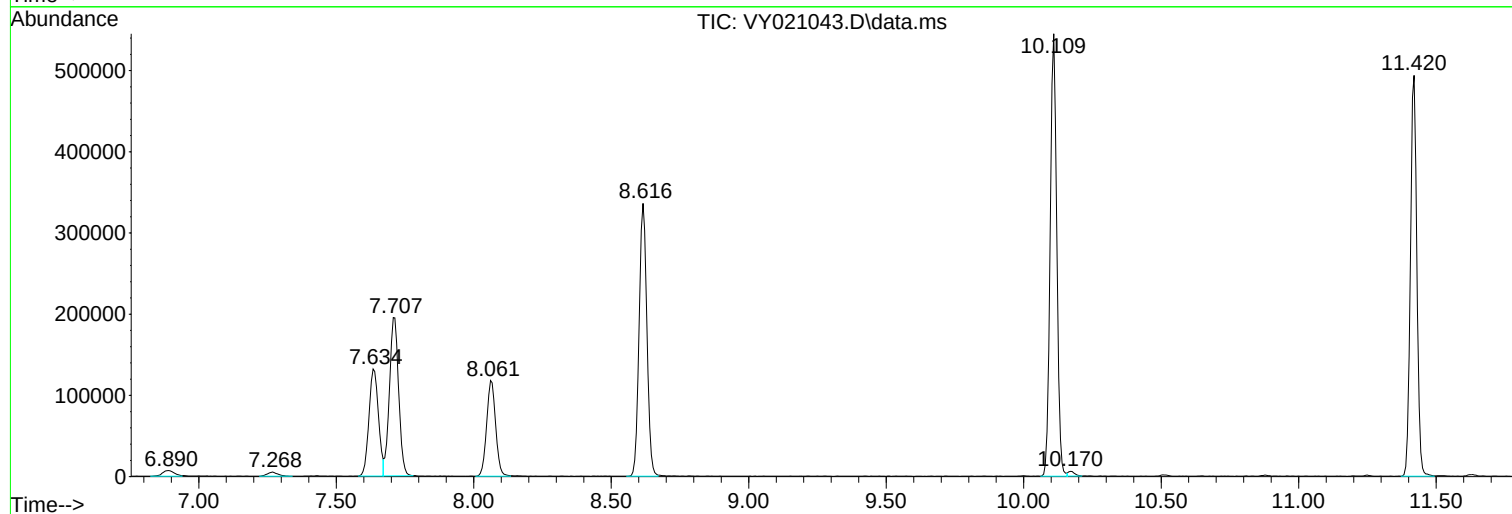
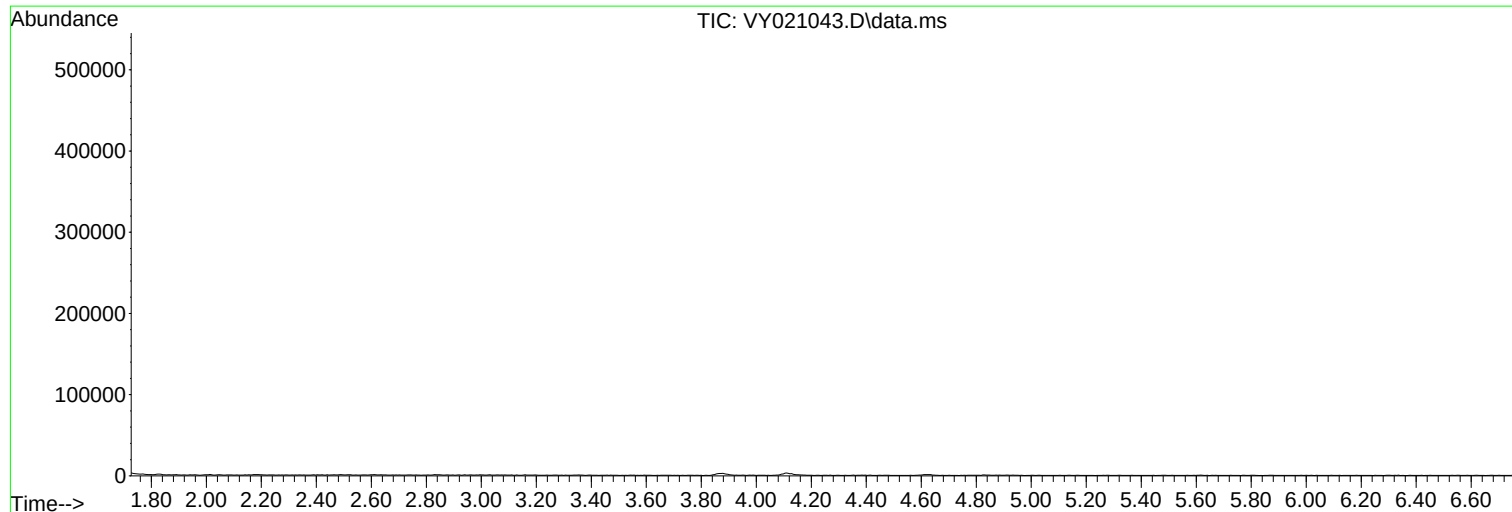
Sum of corrected areas: 4928747

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021043.D
Acq On : 03 Feb 2025 20:31
Operator : SY/MD
Sample : Q1207-09
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-4.5-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021043.D
Acq On : 03 Feb 2025 20:31
Operator : SY/MD
Sample : Q1207-09
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-4.5-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021043.D
Acq On : 03 Feb 2025 20:31
Operator : SY/MD
Sample : Q1207-09
Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-4.5-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-16.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-13	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	5.02 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021052.D	1		02/04/25 12:42	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.60	U	1.80	5.60	ug/Kg
74-87-3	Chloromethane	5.60	U	1.30	5.60	ug/Kg
75-01-4	Vinyl Chloride	5.60	U	0.85	5.60	ug/Kg
74-83-9	Bromomethane	5.60	U	1.10	5.60	ug/Kg
75-00-3	Chloroethane	5.60	U	1.10	5.60	ug/Kg
75-69-4	Trichlorofluoromethane	5.60	U	1.00	5.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.60	U	1.20	5.60	ug/Kg
75-65-0	Tert butyl alcohol	27.8	U	17.3	27.8	ug/Kg
75-35-4	1,1-Dichloroethene	5.60	U	0.87	5.60	ug/Kg
67-64-1	Acetone	27.8	U	6.90	27.8	ug/Kg
75-15-0	Carbon Disulfide	5.60	U	1.40	5.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.60	U	0.74	5.60	ug/Kg
79-20-9	Methyl Acetate	5.60	U	2.00	5.60	ug/Kg
75-09-2	Methylene Chloride	11.1	U	3.80	11.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.60	U	0.93	5.60	ug/Kg
75-34-3	1,1-Dichloroethane	5.60	U	0.70	5.60	ug/Kg
110-82-7	Cyclohexane	5.60	U	0.77	5.60	ug/Kg
78-93-3	2-Butanone	27.8	U	6.30	27.8	ug/Kg
56-23-5	Carbon Tetrachloride	5.60	U	0.97	5.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.60	U	0.68	5.60	ug/Kg
74-97-5	Bromochloromethane	5.60	U	2.70	5.60	ug/Kg
67-66-3	Chloroform	5.60	U	0.74	5.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.60	U	0.87	5.60	ug/Kg
108-87-2	Methylcyclohexane	5.60	U	0.97	5.60	ug/Kg
71-43-2	Benzene	5.60	U	0.80	5.60	ug/Kg
107-06-2	1,2-Dichloroethane	5.60	U	0.68	5.60	ug/Kg
79-01-6	Trichloroethene	5.60	U	0.83	5.60	ug/Kg
78-87-5	1,2-Dichloropropane	5.60	U	0.73	5.60	ug/Kg
75-27-4	Bromodichloromethane	5.60	U	0.62	5.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	27.8	U	4.80	27.8	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-16.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-13	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	5.02 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021052.D	1		02/04/25 12:42	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	5.60	U	0.74	5.60	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.60	U	0.67	5.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.60	U	0.63	5.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.60	U	0.93	5.60	ug/Kg
591-78-6	2-Hexanone	27.8	U	5.30	27.8	ug/Kg
124-48-1	Dibromochloromethane	5.60	U	0.72	5.60	ug/Kg
106-93-4	1,2-Dibromoethane	5.60	U	0.88	5.60	ug/Kg
127-18-4	Tetrachloroethene	5.60	U	0.99	5.60	ug/Kg
108-90-7	Chlorobenzene	5.60	U	0.82	5.60	ug/Kg
100-41-4	Ethyl Benzene	5.60	U	0.69	5.60	ug/Kg
179601-23-1	m/p-Xylenes	11.1	U	1.50	11.1	ug/Kg
95-47-6	o-Xylene	5.60	U	0.78	5.60	ug/Kg
100-42-5	Styrene	5.60	U	0.67	5.60	ug/Kg
75-25-2	Bromoform	5.60	U	0.90	5.60	ug/Kg
98-82-8	Isopropylbenzene	5.60	U	0.74	5.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.60	U	1.20	5.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.60	U	0.82	5.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.60	U	0.89	5.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.60	U	0.66	5.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.60	U	1.70	5.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.60	U	0.88	5.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.60	U	0.87	5.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.8		50 - 163	118%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		54 - 147	103%	SPK: 50
2037-26-5	Toluene-d8	50.0		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		29 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	7.707			
540-36-3	1,4-Difluorobenzene	308000	8.616			
3114-55-4	Chlorobenzene-d5	284000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	116000	13.346			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-16.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-13	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	5.02 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021052.D	1		02/04/25 12:42	VY020425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021052.D
Acq On : 04 Feb 2025 12:42
Operator : SY/MD
Sample : Q1207-13
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-16.2-012725

Quant Time: Feb 05 00:45:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	164435	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	308184	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	283566	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	116417	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	99123	58.835	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	117.660%
35) Dibromofluoromethane	7.634	113	101293	51.286	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.580%
50) Toluene-d8	10.109	98	376112	50.021	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.040%
62) 4-Bromofluorobenzene	12.408	95	120696	49.134	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	98.260%

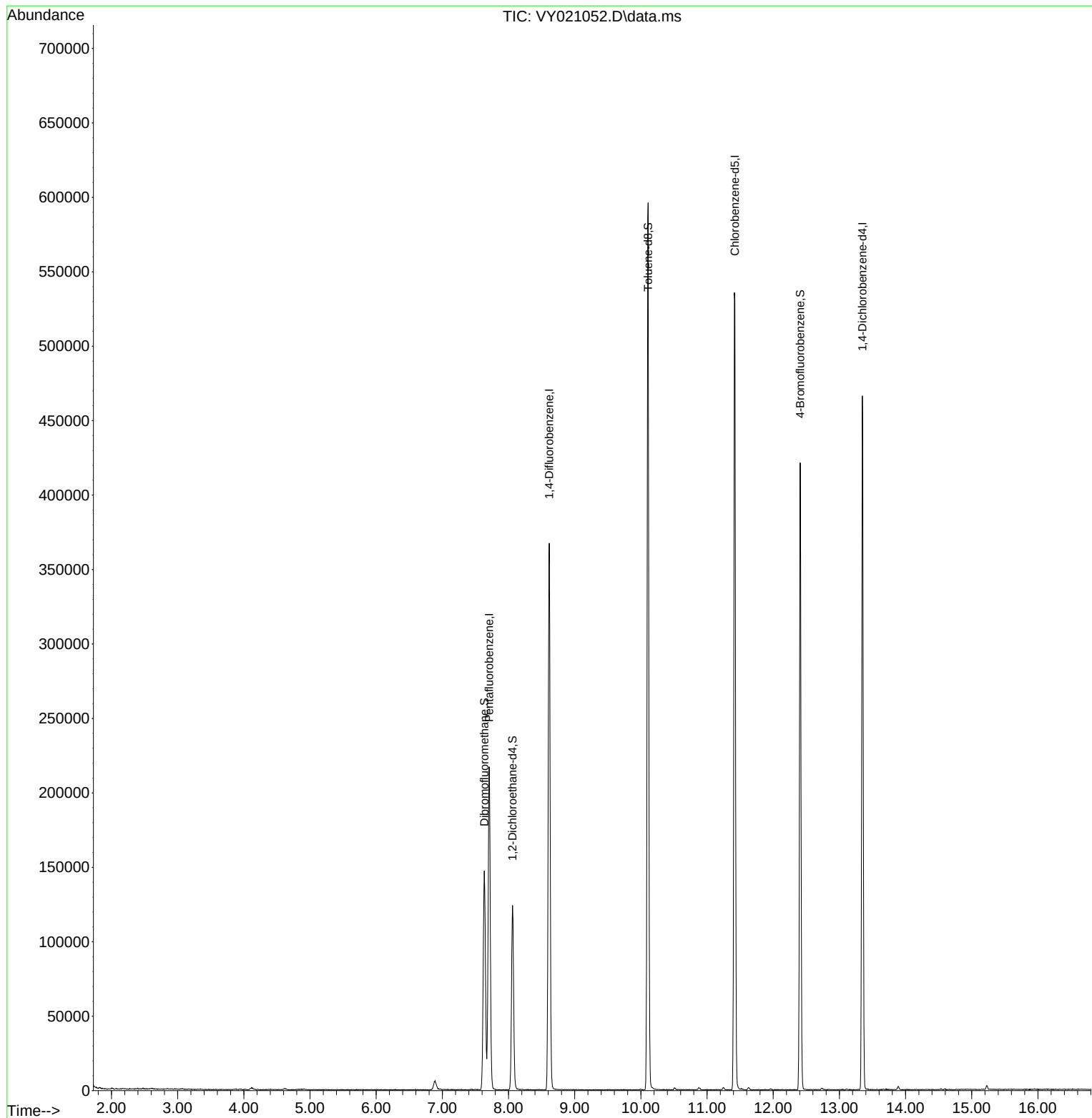
Target Compounds	Qvalue
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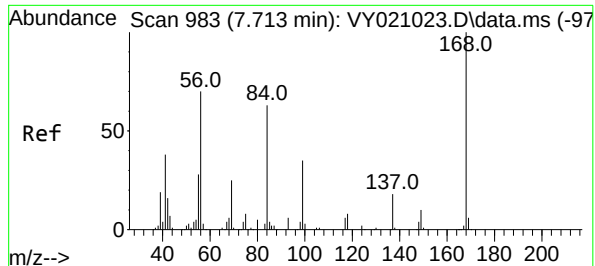
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021052.D
Acq On : 04 Feb 2025 12:42
Operator : SY/MD
Sample : Q1207-13
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-16.2-012725

Quant Time: Feb 05 00:45:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

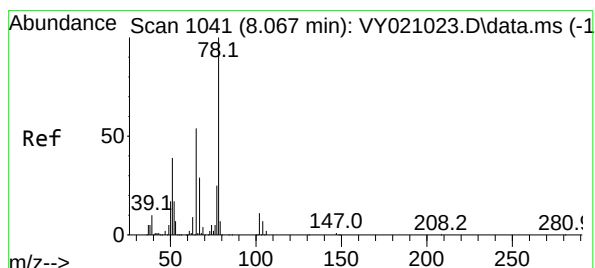
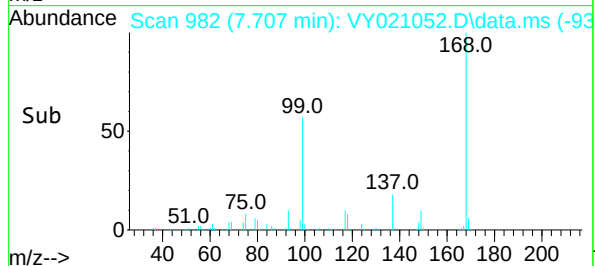
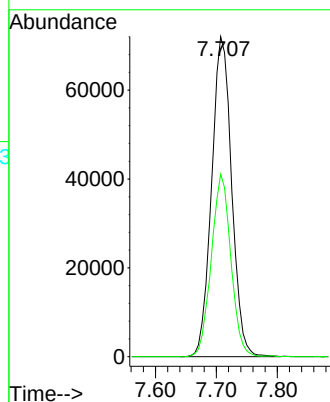
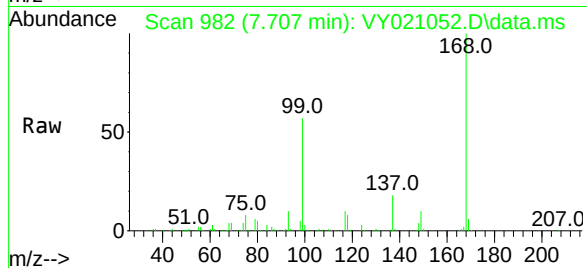




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021052.D
Acq: 04 Feb 2025 12:42

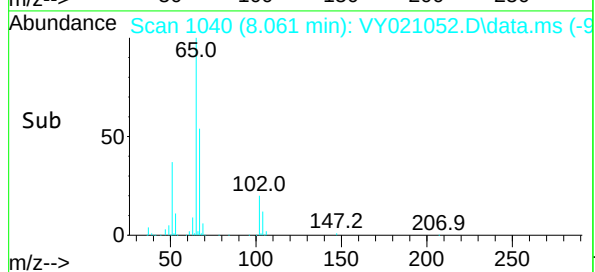
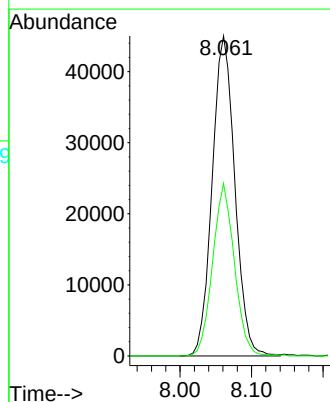
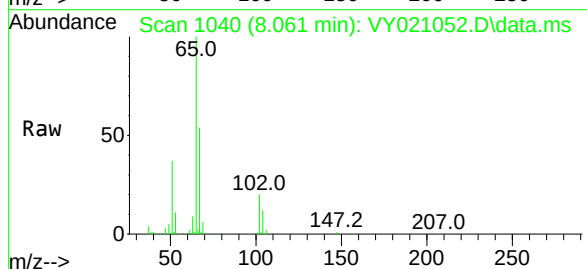
Instrument :
MSVOA_Y
ClientSampleId :
JPP-16.2-012725

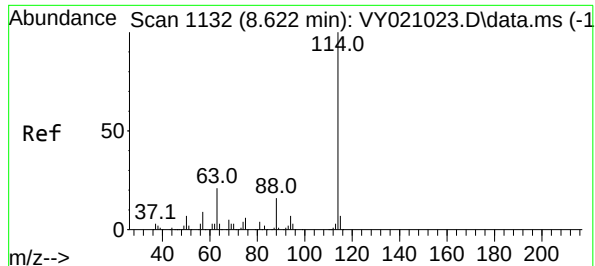
Tgt Ion:168 Resp: 164435
Ion Ratio Lower Upper
168 100
99 57.0 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 58.835 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021052.D
Acq: 04 Feb 2025 12:42

Tgt Ion: 65 Resp: 99123
Ion Ratio Lower Upper
65 100
67 51.6 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1132

Delta R.T. -0.006 min

Lab File: VY021052.D

Acq: 04 Feb 2025 12:42

Instrument :

MSVOA_Y

ClientSampleId :

JPP-16.2-012725

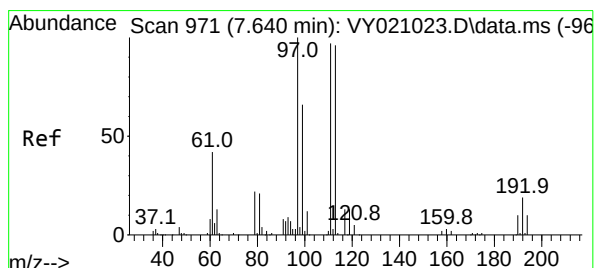
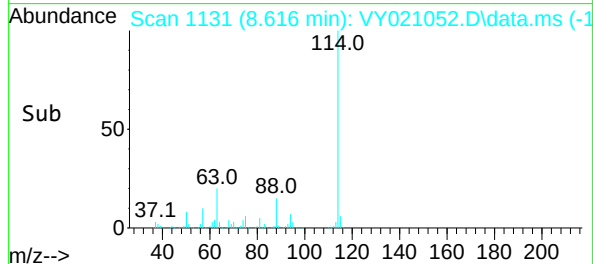
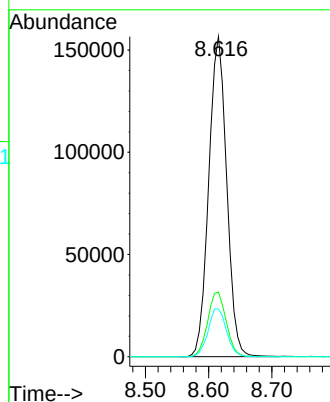
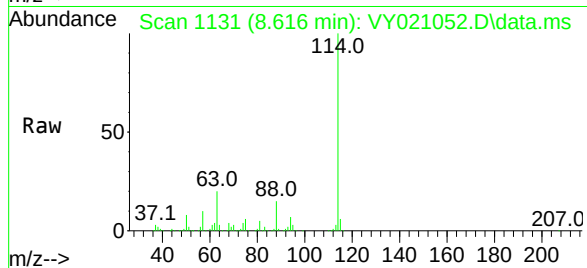
Tgt Ion:114 Resp: 308184

Ion Ratio Lower Upper

114 100

63 20.2 0.0 37.4

88 14.9 0.0 29.0



#35

Dibromofluoromethane

Concen: 51.286 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY021052.D

Acq: 04 Feb 2025 12:42

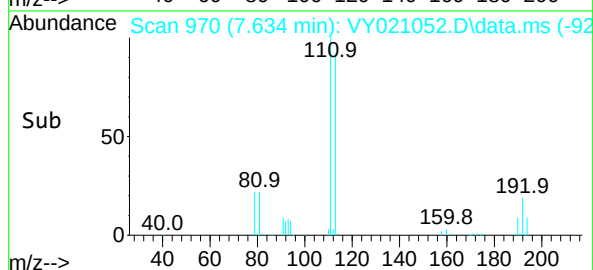
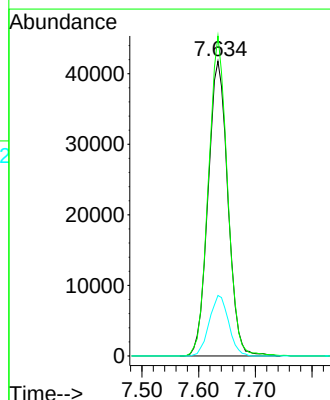
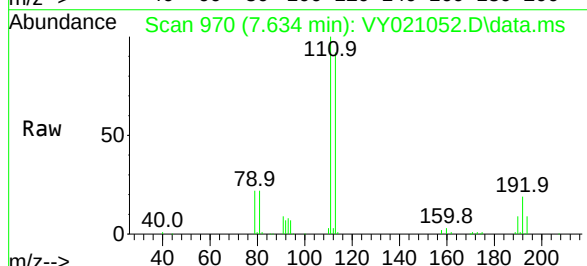
Tgt Ion:113 Resp: 101293

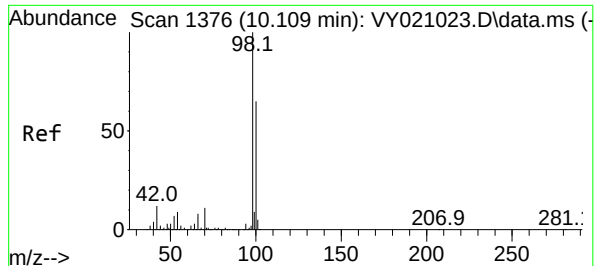
Ion Ratio Lower Upper

113 100

111 104.1 83.8 125.6

192 20.1 14.5 21.7





#50

Toluene-d8

Concen: 50.021 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021052.D

Acq: 04 Feb 2025 12:42

Instrument :

MSVOA_Y

ClientSampleId :

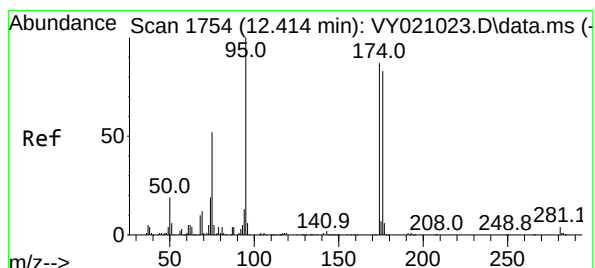
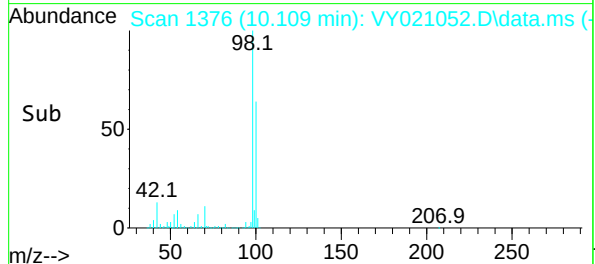
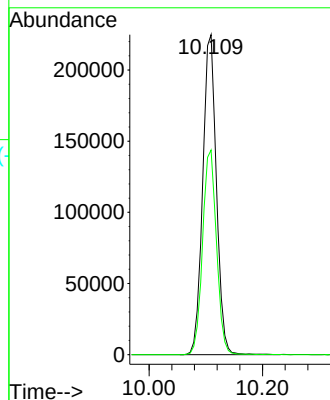
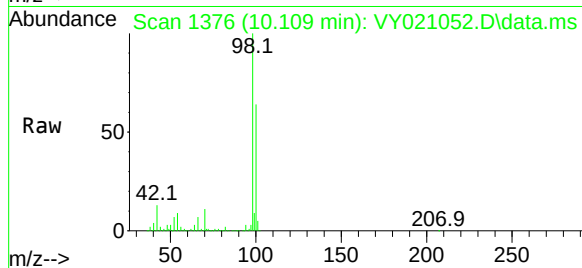
JPP-16.2-012725

Tgt Ion: 98 Resp: 376112

Ion Ratio Lower Upper

98 100

100 65.1 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 49.134 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.006 min

Lab File: VY021052.D

Acq: 04 Feb 2025 12:42

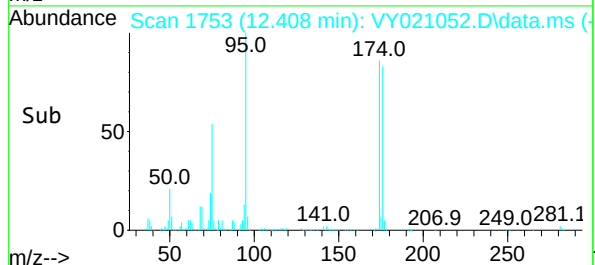
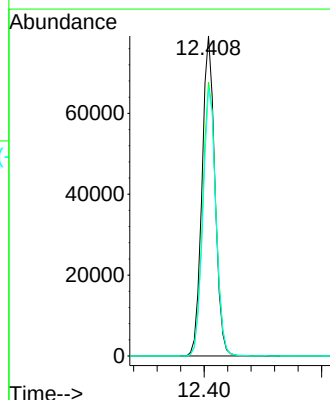
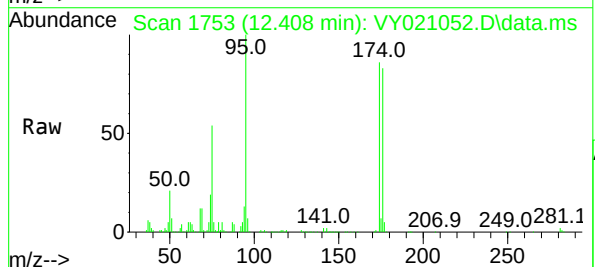
Tgt Ion: 95 Resp: 120696

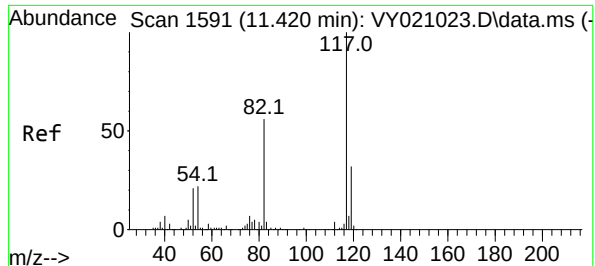
Ion Ratio Lower Upper

95 100

174 87.1 0.0 160.0

176 84.1 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021052.D

Acq: 04 Feb 2025 12:42

Instrument :

MSVOA_Y

ClientSampleId :

JPP-16.2-012725

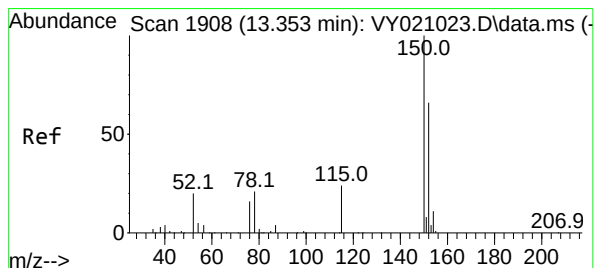
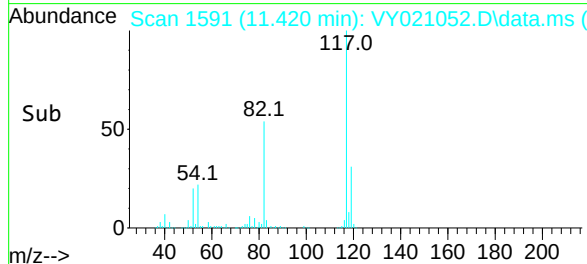
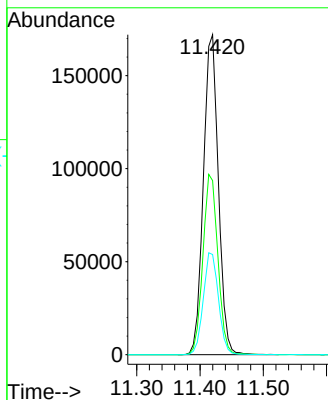
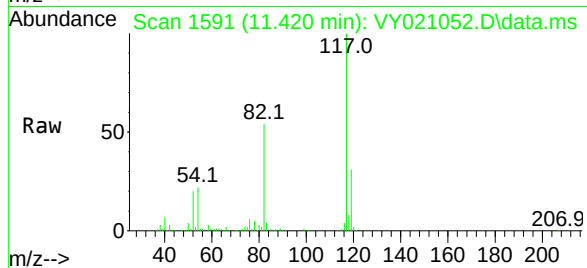
Tgt Ion:117 Resp: 283566

Ion Ratio Lower Upper

117 100

82 54.4 43.8 65.8

119 31.3 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY021052.D

Acq: 04 Feb 2025 12:42

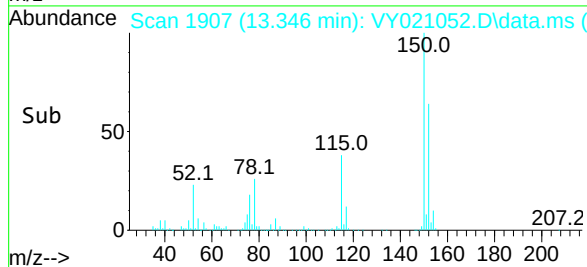
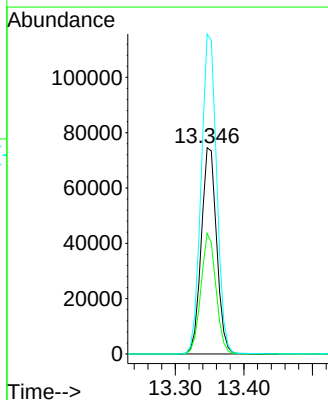
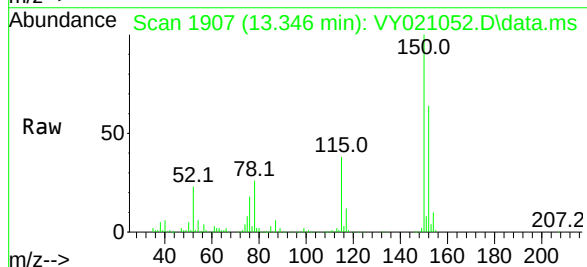
Tgt Ion:152 Resp: 116417

Ion Ratio Lower Upper

152 100

115 57.2 30.0 90.0

150 156.7 0.0 344.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021052.D
Acq On : 04 Feb 2025 12:42
Operator : SY/MD
Sample : Q1207-13
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-16.2-012725

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M

Title : SW846 8260

Signal : TIC: VY021052.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	838	848	859	rBV	6105	18237	1.79%	0.353%
2	7.634	960	970	976	rBV	147047	348186	34.19%	6.749%
3	7.707	976	982	1000	rVB	217028	491093	48.22%	9.519%
4	8.061	1031	1040	1053	rBV	123859	275624	27.06%	5.342%
5	8.616	1122	1131	1143	rBV	367234	733883	72.06%	14.224%
6	10.109	1368	1376	1386	rBV	595911	1018440	100.00%	19.740%
7	11.414	1583	1590	1605	rBV	535654	900518	88.42%	17.454%
8	12.408	1746	1753	1762	rBV	421140	654769	64.29%	12.691%
9	13.346	1900	1907	1919	rBV	465969	718570	70.56%	13.928%

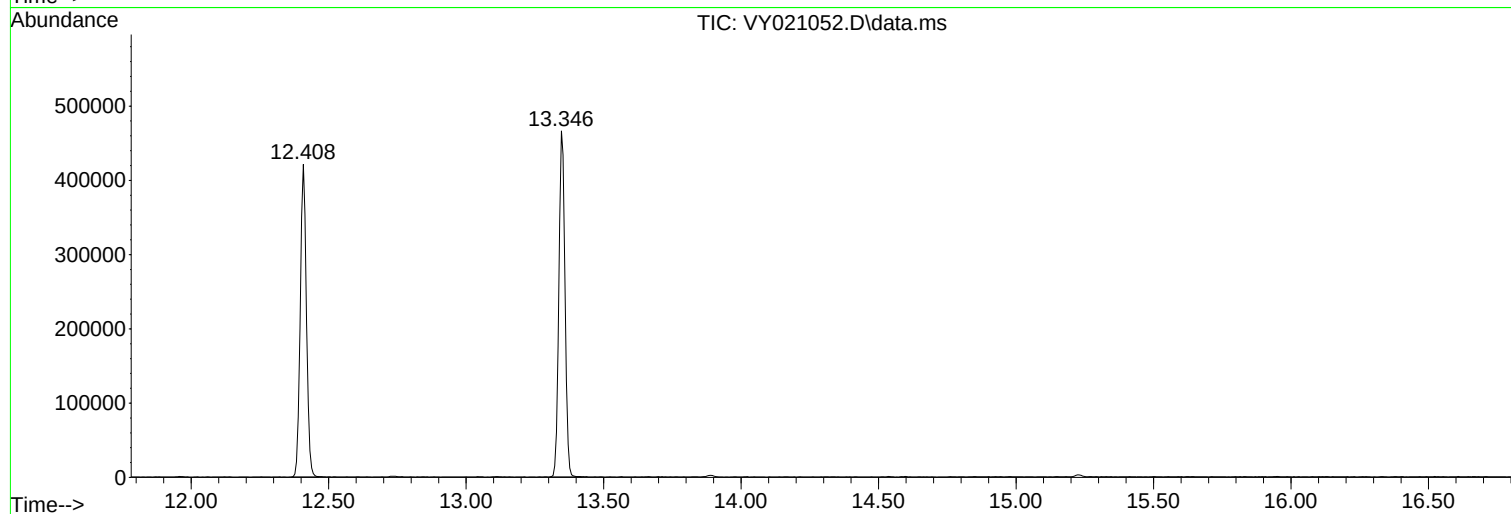
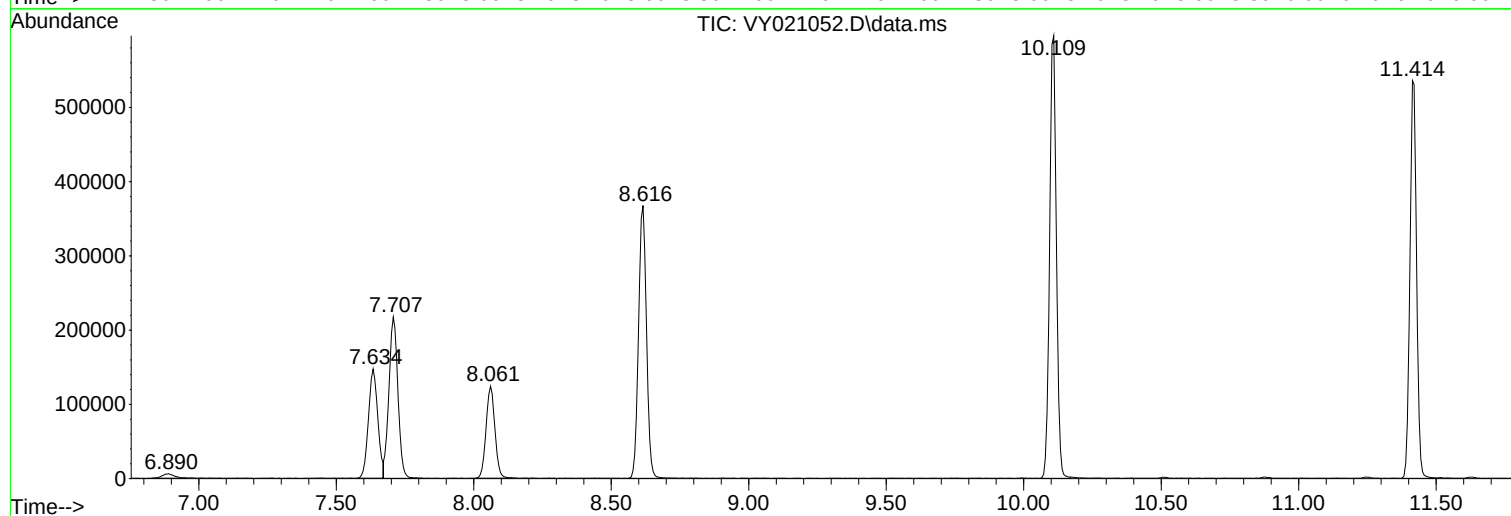
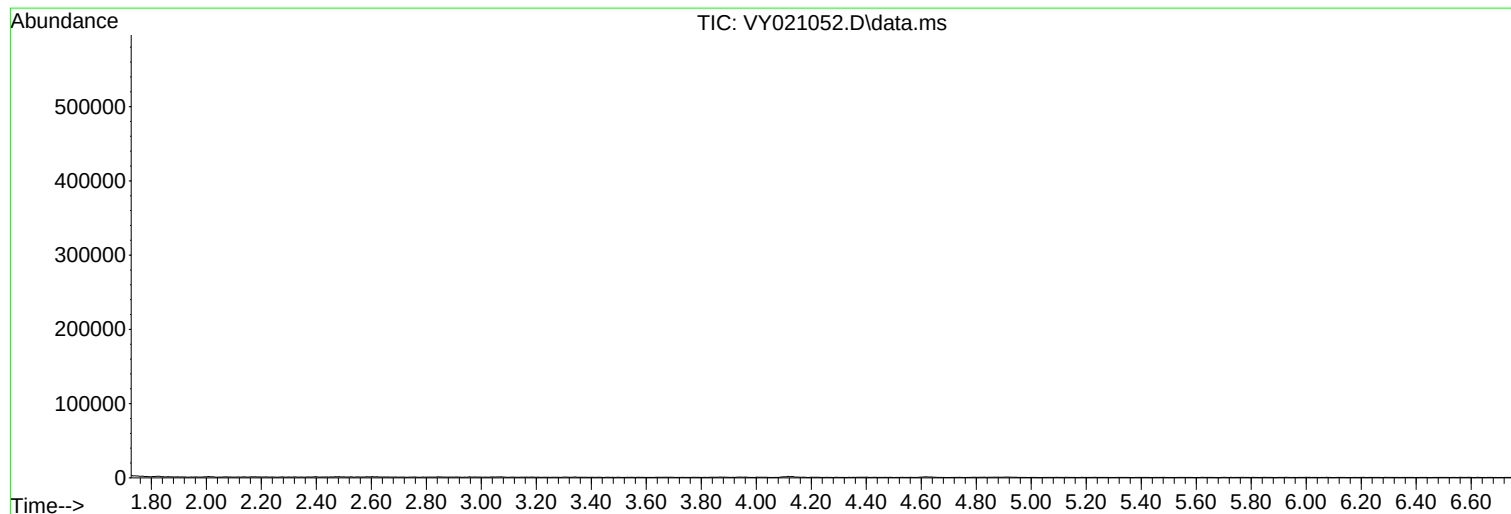
Sum of corrected areas: 5159320

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021052.D
Acq On : 04 Feb 2025 12:42
Operator : SY/MD
Sample : Q1207-13
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-16.2-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021052.D
Acq On : 04 Feb 2025 12:42
Operator : SY/MD
Sample : Q1207-13
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-16.2-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021052.D
Acq On : 04 Feb 2025 12:42
Operator : SY/MD
Sample : Q1207-13
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-16.2-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	01/27/25	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	01/28/25	
Client Sample ID:	JPP-20.2-012725		SDG No.:	Q1207	
Lab Sample ID:	Q1207-17		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	88.1	
Sample Wt/Vol:	5.1	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021051.D	1		02/04/25 12:19	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.60	U	1.80	5.60	ug/Kg
74-87-3	Chloromethane	5.60	U	1.30	5.60	ug/Kg
75-01-4	Vinyl Chloride	5.60	U	0.86	5.60	ug/Kg
74-83-9	Bromomethane	5.60	U	1.10	5.60	ug/Kg
75-00-3	Chloroethane	5.60	U	1.10	5.60	ug/Kg
75-69-4	Trichlorofluoromethane	5.60	U	1.00	5.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.60	U	1.20	5.60	ug/Kg
75-65-0	Tert butyl alcohol	27.8	U	17.4	27.8	ug/Kg
75-35-4	1,1-Dichloroethene	5.60	U	0.87	5.60	ug/Kg
67-64-1	Acetone	27.8	U	6.90	27.8	ug/Kg
75-15-0	Carbon Disulfide	5.60	U	1.40	5.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.60	U	0.75	5.60	ug/Kg
79-20-9	Methyl Acetate	5.60	U	2.00	5.60	ug/Kg
75-09-2	Methylene Chloride	11.1	U	3.80	11.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.60	U	0.93	5.60	ug/Kg
75-34-3	1,1-Dichloroethane	5.60	U	0.70	5.60	ug/Kg
110-82-7	Cyclohexane	5.60	U	0.77	5.60	ug/Kg
78-93-3	2-Butanone	27.8	U	6.30	27.8	ug/Kg
56-23-5	Carbon Tetrachloride	5.60	U	0.97	5.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.60	U	0.68	5.60	ug/Kg
74-97-5	Bromochloromethane	5.60	U	2.70	5.60	ug/Kg
67-66-3	Chloroform	5.60	U	0.75	5.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.60	U	0.87	5.60	ug/Kg
108-87-2	Methylcyclohexane	5.60	U	0.97	5.60	ug/Kg
71-43-2	Benzene	5.60	U	0.80	5.60	ug/Kg
107-06-2	1,2-Dichloroethane	5.60	U	0.68	5.60	ug/Kg
79-01-6	Trichloroethene	5.60	U	0.83	5.60	ug/Kg
78-87-5	1,2-Dichloropropane	5.60	U	0.73	5.60	ug/Kg
75-27-4	Bromodichloromethane	5.60	U	0.62	5.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	27.8	U	4.80	27.8	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	01/27/25	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	01/28/25	
Client Sample ID:	JPP-20.2-012725		SDG No.:	Q1207	
Lab Sample ID:	Q1207-17		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	88.1	
Sample Wt/Vol:	5.1	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021051.D	1		02/04/25 12:19	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	5.60	U	0.75	5.60	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.60	U	0.67	5.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.60	U	0.63	5.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.60	U	0.93	5.60	ug/Kg
591-78-6	2-Hexanone	27.8	U	5.30	27.8	ug/Kg
124-48-1	Dibromochloromethane	5.60	U	0.72	5.60	ug/Kg
106-93-4	1,2-Dibromoethane	5.60	U	0.88	5.60	ug/Kg
127-18-4	Tetrachloroethene	5.60	U	0.99	5.60	ug/Kg
108-90-7	Chlorobenzene	5.60	U	0.82	5.60	ug/Kg
100-41-4	Ethyl Benzene	5.60	U	0.69	5.60	ug/Kg
179601-23-1	m/p-Xylenes	11.1	U	1.50	11.1	ug/Kg
95-47-6	o-Xylene	5.60	U	0.78	5.60	ug/Kg
100-42-5	Styrene	5.60	U	0.67	5.60	ug/Kg
75-25-2	Bromoform	5.60	U	0.90	5.60	ug/Kg
98-82-8	Isopropylbenzene	5.60	U	0.75	5.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.60	U	1.20	5.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.60	U	0.82	5.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.60	U	0.89	5.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.60	U	0.66	5.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.60	U	1.70	5.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.60	U	0.88	5.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.60	U	0.87	5.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.0		50 - 163	122%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		54 - 147	104%	SPK: 50
2037-26-5	Toluene-d8	49.7		58 - 134	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.6		29 - 146	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.707			
540-36-3	1,4-Difluorobenzene	314000	8.616			
3114-55-4	Chlorobenzene-d5	289000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	117000	13.346			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-20.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-17	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.1
Sample Wt/Vol:	5.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021051.D	1		02/04/25 12:19	VY020425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021051.D
Acq On : 04 Feb 2025 12:19
Operator : SY/MD
Sample : Q1207-17
Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-20.2-012725

Quant Time: Feb 05 00:45:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	167108	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	314248	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	289240	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	116962	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	104413	60.983	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	121.960%
35) Dibromofluoromethane	7.634	113	104774	52.025	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	104.060%
50) Toluene-d8	10.109	98	381221	49.722	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.440%
62) 4-Bromofluorobenzene	12.408	95	121656	48.569	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	97.140%

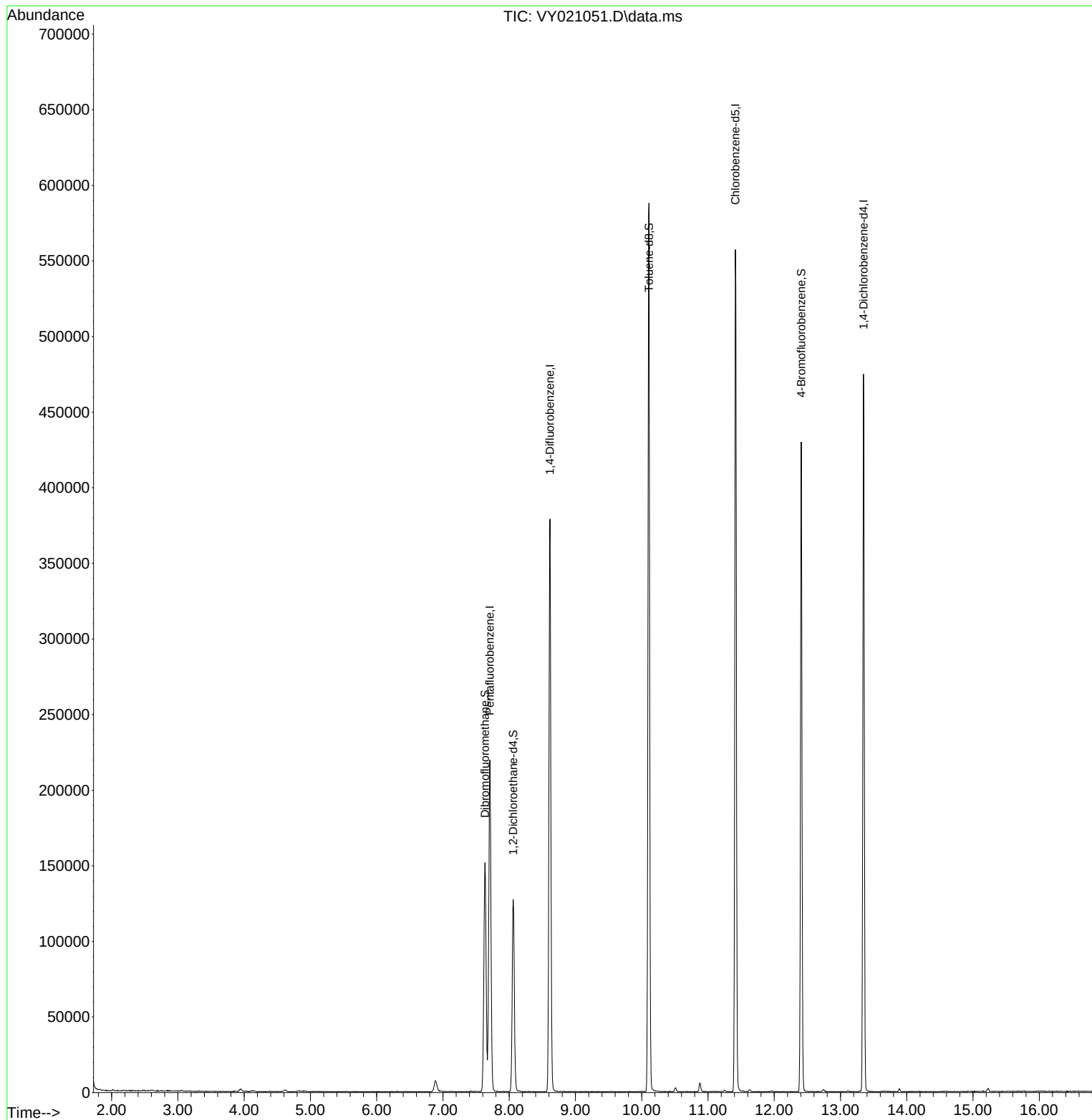
Target Compounds	Qvalue
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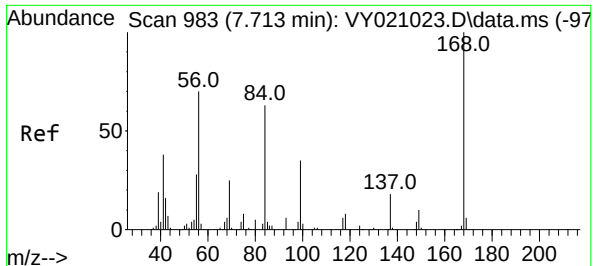
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021051.D
Acq On : 04 Feb 2025 12:19
Operator : SY/MD
Sample : Q1207-17
Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-20.2-012725

Quant Time: Feb 05 00:45:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

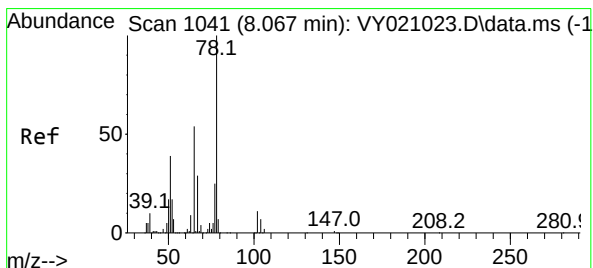
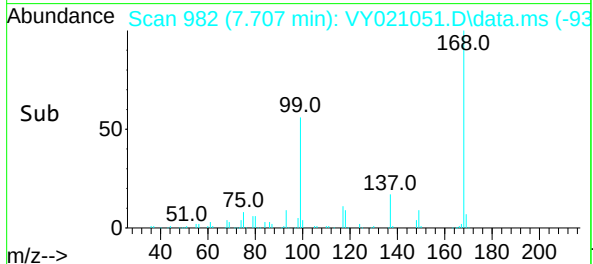
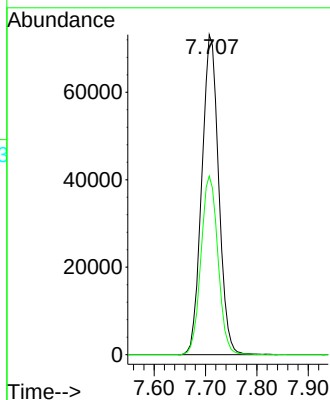
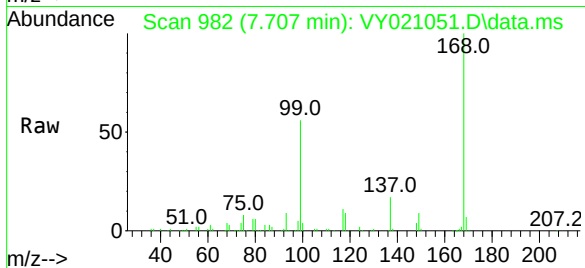




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 99
Delta R.T. -0.006 min
Lab File: VY021051.D
Acq: 04 Feb 2025 12:19

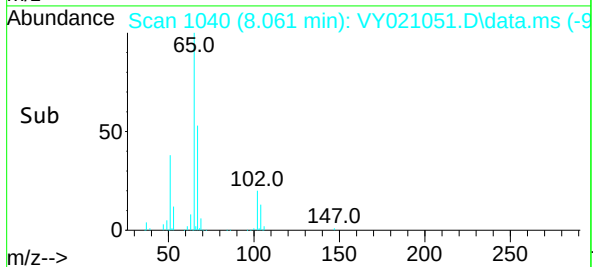
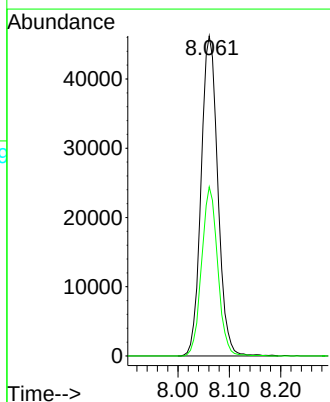
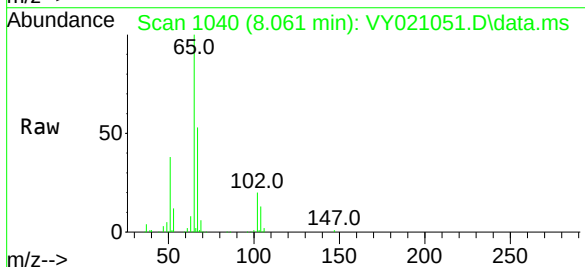
Instrument :
MSVOA_Y
ClientSampleId :
JPP-20.2-012725

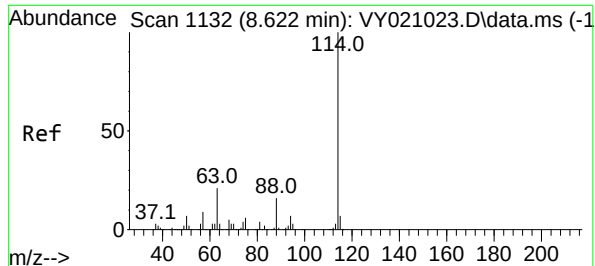
Tgt Ion:168 Resp: 167108
Ion Ratio Lower Upper
168 100
99 55.8 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 60.983 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021051.D
Acq: 04 Feb 2025 12:19

Tgt Ion: 65 Resp: 104413
Ion Ratio Lower Upper
65 100
67 50.8 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021051.D

Acq: 04 Feb 2025 12:19

Instrument :

MSVOA_Y

ClientSampleId :

JPP-20.2-012725

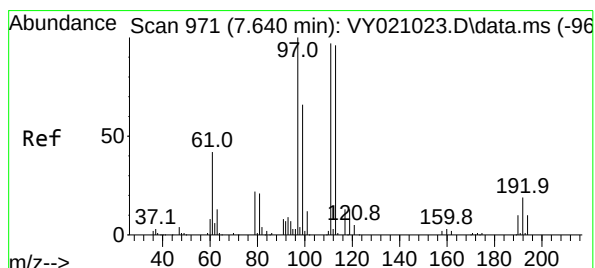
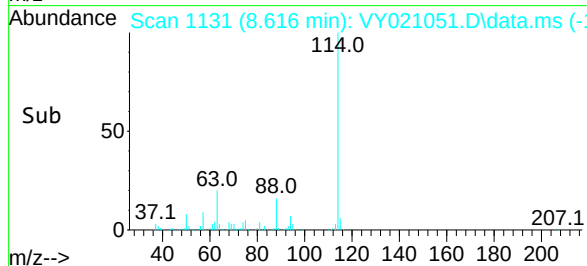
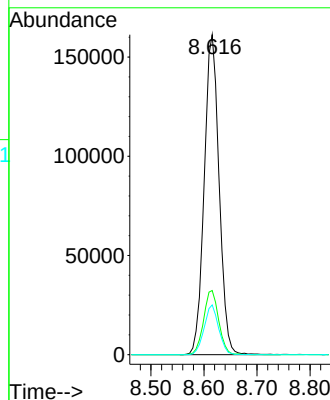
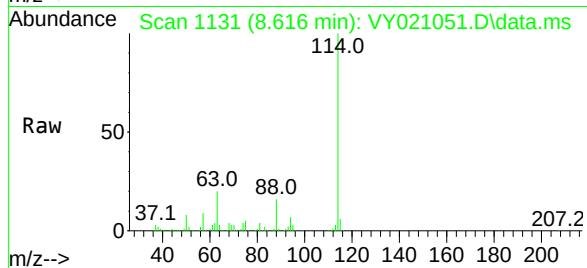
Tgt Ion:114 Resp: 314248

Ion Ratio Lower Upper

114 100

63 20.1 0.0 37.4

88 15.6 0.0 29.0



#35

Dibromofluoromethane

Concen: 52.025 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY021051.D

Acq: 04 Feb 2025 12:19

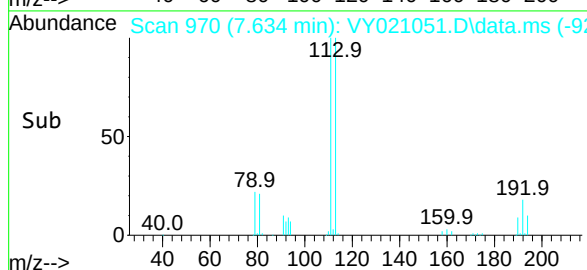
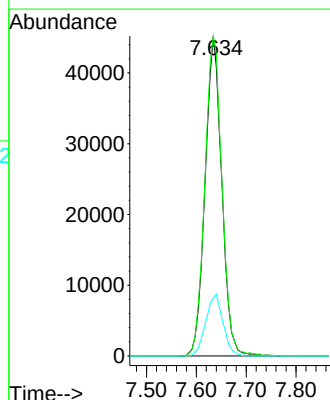
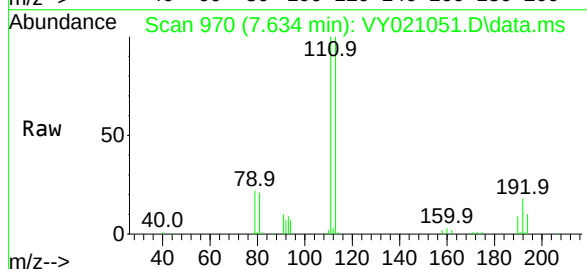
Tgt Ion:113 Resp: 104774

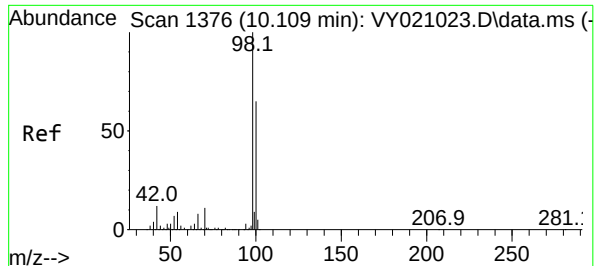
Ion Ratio Lower Upper

113 100

111 102.9 83.8 125.6

192 20.0 14.5 21.7

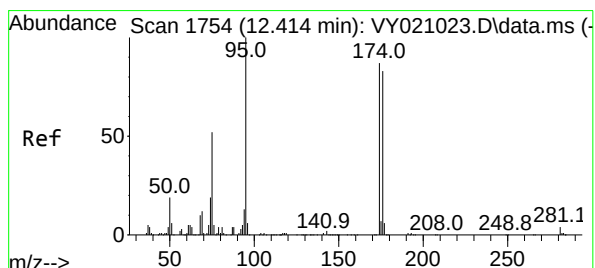
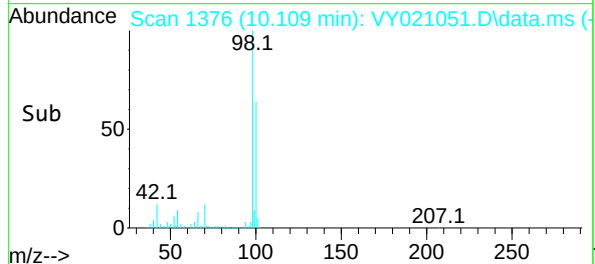
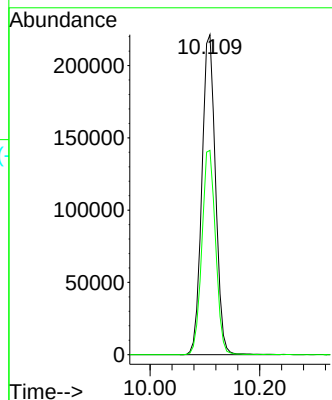
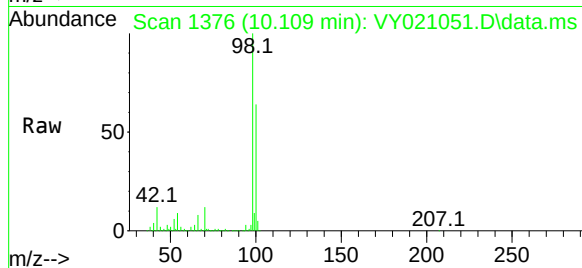




#50
Toluene-d8
Concen: 49.722 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY021051.D
Acq: 04 Feb 2025 12:19

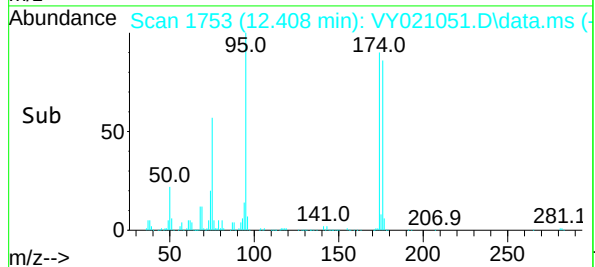
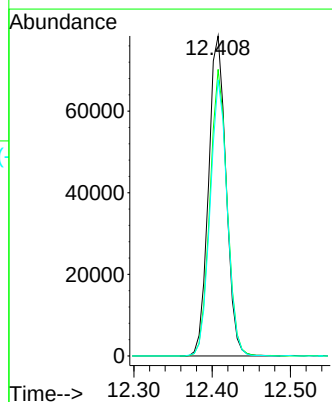
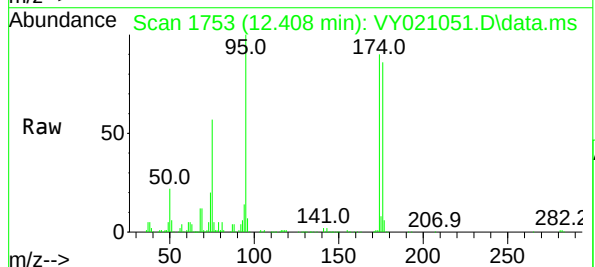
Instrument :
MSVOA_Y
ClientSampleId :
JPP-20.2-012725

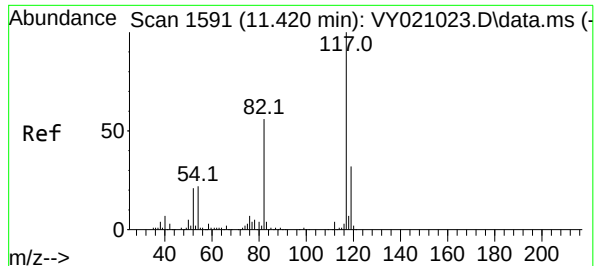
Tgt Ion: 98 Resp: 381221
Ion Ratio Lower Upper
98 100
100 64.3 52.3 78.5



#62
4-Bromofluorobenzene
Concen: 48.569 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY021051.D
Acq: 04 Feb 2025 12:19

Tgt Ion: 95 Resp: 121656
Ion Ratio Lower Upper
95 100
174 88.0 0.0 160.0
176 84.0 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021051.D

Acq: 04 Feb 2025 12:19

Instrument :

MSVOA_Y

ClientSampleId :

JPP-20.2-012725

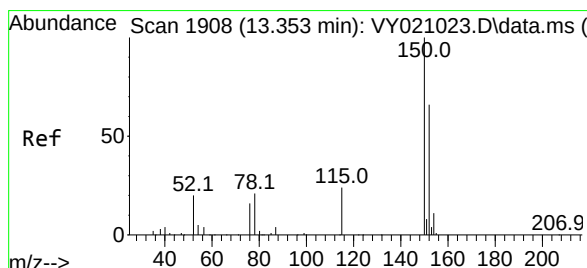
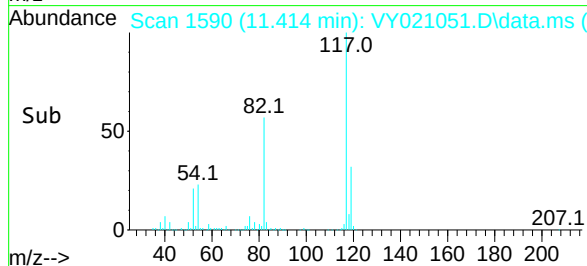
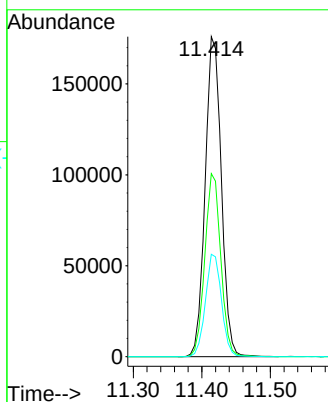
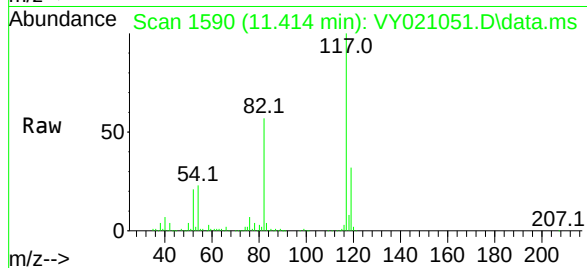
Tgt Ion:117 Resp: 289240

Ion Ratio Lower Upper

117 100

82 57.2 43.8 65.8

119 32.0 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY021051.D

Acq: 04 Feb 2025 12:19

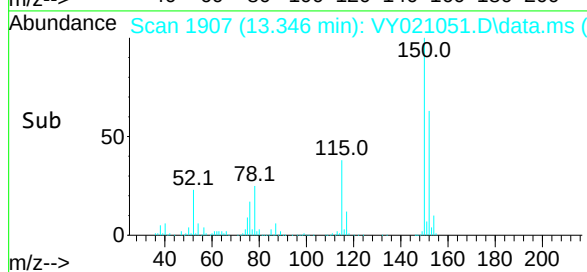
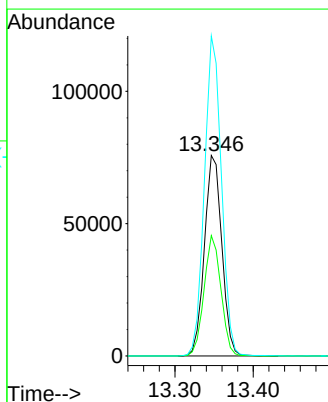
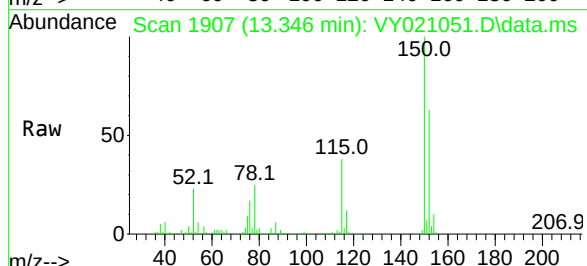
Tgt Ion:152 Resp: 116962

Ion Ratio Lower Upper

152 100

115 58.0 30.0 90.0

150 155.8 0.0 344.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021051.D
Acq On : 04 Feb 2025 12:19
Operator : SY/MD
Sample : Q1207-17
Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-20.2-012725

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M

Title : SW846 8260

Signal : TIC: VY021051.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.884	837	847	857	rBV2	7215	22706	2.21%	0.433%
2	7.634	960	970	976	rBV2	151401	356365	34.68%	6.791%
3	7.707	976	982	999	rVB	219254	497892	48.45%	9.487%
4	8.061	1031	1040	1052	rBV	127169	287791	28.01%	5.484%
5	8.616	1122	1131	1146	rBV	378752	742945	72.30%	14.157%
6	10.109	1368	1376	1392	rBV	587718	1027569	100.00%	19.580%
7	10.877	1497	1502	1511	rBV4	5802	10745	1.05%	0.205%
8	11.414	1583	1590	1603	rBV	557067	914675	89.01%	17.429%
9	12.408	1746	1753	1761	rBV	429938	663070	64.53%	12.635%
10	13.346	1900	1907	1919	rVB	474520	724209	70.48%	13.800%

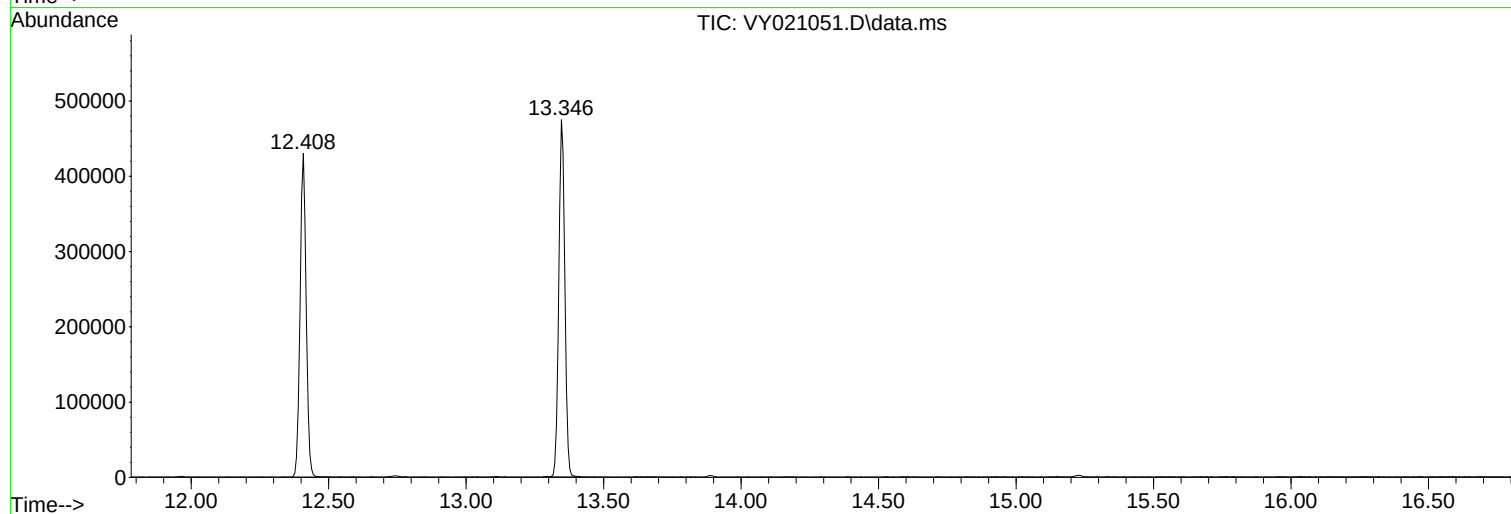
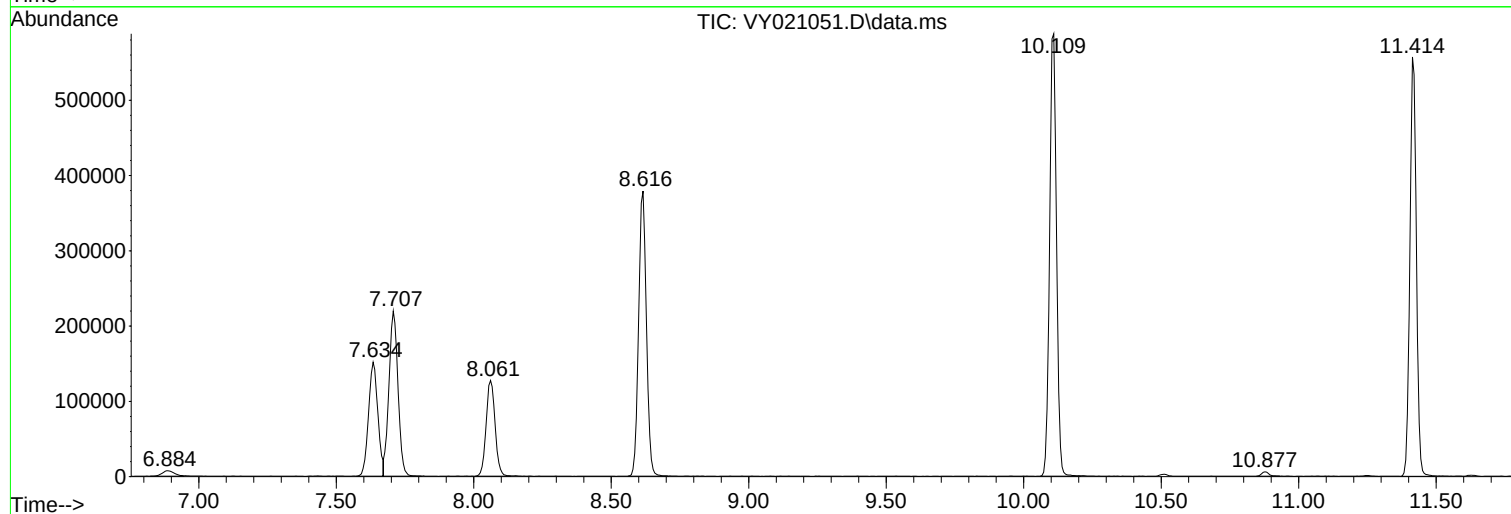
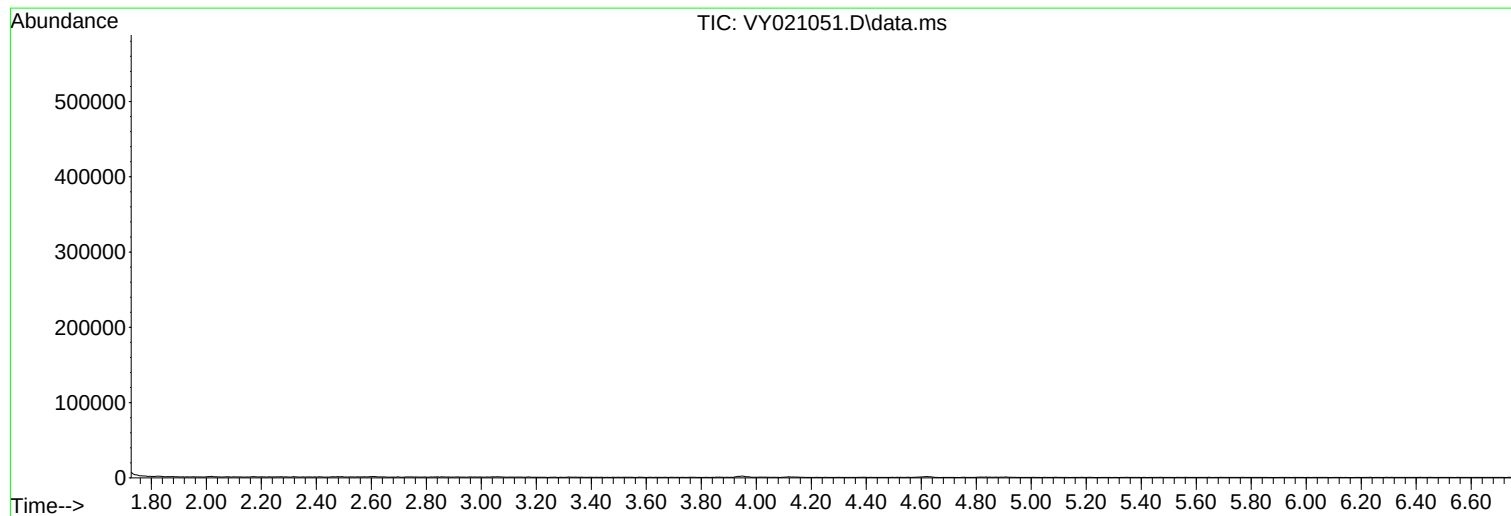
Sum of corrected areas: 5247967

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021051.D
Acq On : 04 Feb 2025 12:19
Operator : SY/MD
Sample : Q1207-17
Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-20.2-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021051.D
Acq On : 04 Feb 2025 12:19
Operator : SY/MD
Sample : Q1207-17
Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-20.2-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021051.D
Acq On : 04 Feb 2025 12:19
Operator : SY/MD
Sample : Q1207-17
Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
JPP-20.2-012725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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CALIBRATION SUMMARY

1
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RUTW01
 Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207
 Instrument ID: MSVOA_Y Calibration Date(s): 02/03/2025 02/03/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 10:35 12:44
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY021020.D		RRF010 = VY021021.D		RRF020 = VY021022.D			
		RRF050 = VY021023.D		RRF100 = VY021024.D		RRF150 = VY021025.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.503	0.438	0.413	0.445	0.419	0.457	0.446	7.2	
Chloromethane	0.524	0.445	0.408	0.421	0.404	0.437	0.440	10.1	
Vinyl Chloride	0.535	0.441	0.404	0.424	0.408	0.443	0.443	10.9	
Bromomethane	0.356	0.275	0.249	0.258	0.246	0.257	0.274	15.2	
Chloroethane	0.316	0.270	0.240	0.255	0.239	0.261	0.263	10.7	
Trichlorofluoromethane	0.924	0.814	0.755	0.789	0.743	0.813	0.806	8	
1,1,2-Trichlorotrifluoroethane	0.587	0.507	0.472	0.494	0.466	0.510	0.506	8.6	
Tert butyl alcohol	0.042	0.039	0.035	0.032	0.028	0.032	0.035	14.8	
1,1-Dichloroethene	0.529	0.471	0.441	0.469	0.452	0.498	0.477	6.8	
Acetone	0.087	0.083	0.078	0.077	0.070	0.083	0.080	7.5	
Carbon Disulfide	1.673	1.456	1.389	1.475	1.421	1.556	1.495	7	
Methyl tert-butyl Ether	1.271	1.185	1.168	1.216	1.124	1.265	1.205	4.8	
Methyl Acetate	0.300	0.282	0.268	0.287	0.253	0.291	0.280	6.1	
Methylene Chloride	0.570	0.506	0.473	0.485	0.452	0.494	0.497	8.2	
trans-1,2-Dichloroethene	0.578	0.518	0.502	0.522	0.490	0.538	0.525	5.8	
1,1-Dichloroethane	1.104	0.948	0.923	0.947	0.911	0.989	0.970	7.3	
Cyclohexane	1.093	0.885	0.807	0.827	0.779	0.852	0.874	13	
2-Butanone	0.134	0.133	0.126	0.135	0.121	0.139	0.131	5.2	
Carbon Tetrachloride	0.604	0.551	0.522	0.547	0.522	0.581	0.555	5.9	
cis-1,2-Dichloroethene	0.662	0.584	0.577	0.599	0.575	0.626	0.604	5.7	
Bromochloromethane	0.373	0.368	0.381	0.413	0.374	0.394	0.384	4.4	
Chloroform	1.107	1.016	0.947	0.982	0.921	1.006	0.997	6.5	
1,1,1-Trichloroethane	1.067	0.901	0.867	0.912	0.863	0.949	0.927	8.2	
Methylcyclohexane	0.609	0.550	0.536	0.588	0.570	0.629	0.581	6.1	
Benzene	1.512	1.382	1.327	1.378	1.323	1.436	1.393	5.1	
1,2-Dichloroethane	0.435	0.390	0.367	0.379	0.352	0.395	0.386	7.4	
Trichloroethene	0.401	0.355	0.341	0.349	0.338	0.375	0.360	6.7	
1,2-Dichloropropane	0.357	0.329	0.319	0.327	0.311	0.341	0.331	5	
Bromodichloromethane	0.528	0.500	0.469	0.482	0.459	0.506	0.491	5.2	
4-Methyl-2-Pentanone	0.202	0.211	0.202	0.216	0.194	0.224	0.208	5.2	

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RUTW01
 Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207
 Instrument ID: MSVOA_Y Calibration Date(s): 02/03/2025 02/03/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 10:35 12:44
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY021020.D			RRF010 = VY021021.D		RRF020 = VY021022.D		
	RRF050 = VY021023.D			RRF100 = VY021024.D		RRF150 = VY021025.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Toluene	0.913	0.856	0.840	0.876	0.844	0.918	0.875	3.9
t-1,3-Dichloropropene	0.441	0.426	0.419	0.449	0.427	0.483	0.441	5.3
cis-1,3-Dichloropropene	0.528	0.516	0.502	0.525	0.501	0.560	0.522	4.2
1,1,2-Trichloroethane	0.261	0.235	0.231	0.235	0.217	0.242	0.237	6.1
2-Hexanone	0.124	0.131	0.128	0.144	0.129	0.149	0.134	7.4
Dibromochloromethane	0.359	0.330	0.324	0.329	0.310	0.346	0.333	5.2
1,2-Dibromoethane	0.232	0.223	0.215	0.225	0.203	0.233	0.222	5
Tetrachloroethene	0.409	0.367	0.352	0.361	0.351	0.387	0.371	6.2
Chlorobenzene	1.237	1.115	1.054	1.080	1.048	1.146	1.113	6.4
Ethyl Benzene	2.101	1.899	1.865	1.943	1.914	2.093	1.969	5.2
m/p-Xylenes	0.772	0.723	0.709	0.733	0.711	0.773	0.737	3.9
o-Xylene	0.723	0.658	0.660	0.681	0.670	0.729	0.687	4.6
Styrene	1.154	1.118	1.105	1.156	1.128	1.208	1.145	3.2
Bromoform	0.231	0.222	0.217	0.216	0.205	0.229	0.220	4.4
Isopropylbenzene	4.122	3.695	3.673	3.809	3.871	4.263	3.906	6.1
1,1,2,2-Tetrachloroethane	0.707	0.646	0.635	0.632	0.597	0.680	0.650	6
1,3-Dichlorobenzene	1.937	1.686	1.660	1.683	1.652	1.824	1.740	6.6
1,4-Dichlorobenzene	1.906	1.702	1.632	1.665	1.599	1.778	1.714	6.6
1,2-Dichlorobenzene	1.668	1.524	1.440	1.460	1.405	1.567	1.510	6.4
1,2-Dibromo-3-Chloropropane	0.099	0.099	0.089	0.097	0.089	0.109	0.097	7.6
1,2,4-Trichlorobenzene	0.796	0.754	0.743	0.875	0.873	1.004	0.841	11.6
1,2,3-Trichlorobenzene	0.641	0.640	0.626	0.733	0.726	0.832	0.700	11.4
1,2-Dichloroethane-d4	0.566	0.557	0.478	0.503	0.454	0.516	0.512	8.5
Dibromofluoromethane	0.351	0.326	0.301	0.313	0.297	0.333	0.320	6.4
Toluene-d8	1.295	1.237	1.139	1.202	1.158	1.288	1.220	5.3
4-Bromofluorobenzene	0.417	0.408	0.371	0.403	0.375	0.418	0.399	5.2

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y020325S.M
 Title : SW846 8260
 Last Update : Mon Feb 03 13:08:38 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY021020.D 10 =VY021021.D 20 =VY021022.D 50 =VY021023.D 100 =VY021024.D 150 =VY021025.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.503	0.438	0.413	0.445	0.419	0.457	0.446	7.23
3) P	Chloromethane	0.524	0.445	0.408	0.421	0.404	0.437	0.440	10.10
4) C	Vinyl Chloride	0.535	0.441	0.404	0.424	0.408	0.443	0.443	10.93#
5) T	Bromomethane	0.356	0.275	0.249	0.258	0.246	0.257	0.274	15.17
6) T	Chloroethane	0.316	0.270	0.240	0.255	0.239	0.261	0.263	10.71
7) T	Trichlorofluor...	0.924	0.814	0.755	0.789	0.743	0.813	0.806	8.03
8) T	Diethyl Ether	0.274	0.256	0.248	0.242	0.230	0.260	0.252	6.02
9) T	1,1,2-Trichlor...	0.587	0.507	0.472	0.494	0.466	0.510	0.506	8.56
10) T	Methyl Iodide	0.534	0.532	0.527	0.587	0.576	0.618	0.562	6.59
11) T	Tert butyl alc...	0.042	0.039	0.035	0.032	0.028	0.032	0.035	14.80
12) CM	1,1-Dichloroet...	0.529	0.471	0.441	0.469	0.452	0.498	0.477	6.76#
13) T	Acrolein	0.055	0.057	0.056	0.052	0.047	0.053	0.053	6.61
14) T	Allyl chloride	0.869	0.778	0.753	0.800	0.774	0.846	0.803	5.60
15) T	Acrylonitrile	0.109	0.105	0.105	0.106	0.095	0.109	0.105	5.06
16) T	Acetone	0.087	0.083	0.078	0.077	0.070	0.083	0.080	7.52
17) T	Carbon Disulfide	1.673	1.456	1.389	1.475	1.421	1.556	1.495	6.96
18) T	Methyl Acetate	0.300	0.282	0.268	0.287	0.253	0.291	0.280	6.13
19) T	Methyl tert-bu...	1.271	1.185	1.168	1.216	1.124	1.265	1.205	4.75
20) T	Methylene Chlo...	0.570	0.506	0.473	0.485	0.452	0.494	0.497	8.17
21) T	trans-1,2-Dich...	0.578	0.518	0.502	0.522	0.490	0.538	0.525	5.83
22) T	Diisopropyl ether	1.741	1.643	1.638	1.665	1.573	1.677	1.656	3.33
23) T	Vinyl Acetate	0.937	0.913	0.903	0.948	0.869	0.970	0.923	3.86
24) P	1,1-Dichloroet...	1.104	0.948	0.923	0.947	0.911	0.989	0.970	7.27
25) T	2-Butanone	0.134	0.133	0.126	0.135	0.121	0.139	0.131	5.18
26) T	2,2-Dichloropr...	1.031	0.899	0.842	0.870	0.818	0.926	0.898	8.44
27) T	cis-1,2-Dichlo...	0.662	0.584	0.577	0.599	0.575	0.626	0.604	5.66
28) T	Bromochloromet...	0.373	0.368	0.381	0.413	0.374	0.394	0.384	4.42
29) T	Tetrahydrofuran	0.088	0.092	0.088	0.092	0.081	0.093	0.089	5.11
30) C	Chloroform	1.107	1.016	0.947	0.982	0.921	1.006	0.997	6.49#
31) T	Cyclohexane	1.093	0.885	0.807	0.827	0.779	0.852	0.874	12.96
32) T	1,1,1-Trichlor...	1.067	0.901	0.867	0.912	0.863	0.949	0.927	8.18
33) S	1,2-Dichloroet...	0.566	0.557	0.478	0.503	0.454	0.516	0.512	8.52
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.351	0.326	0.301	0.313	0.297	0.333	0.320	6.41
36) T	1,1-Dichloropr...	0.534	0.464	0.447	0.463	0.448	0.491	0.475	7.02
37) T	Ethyl Acetate	0.218	0.208	0.208	0.211	0.188	0.216	0.208	5.10
38) T	Carbon Tetrach...	0.604	0.551	0.522	0.547	0.522	0.581	0.555	5.86
39) T	Methylcyclohexane	0.609	0.550	0.536	0.588	0.570	0.629	0.581	6.07
40) TM	Benzene	1.512	1.382	1.327	1.378	1.323	1.436	1.393	5.13
41) T	Methacrylonitrile	0.130	0.126	0.133	0.111	0.089	0.134	0.120	14.47
42) TM	1,2-Dichloroet...	0.435	0.390	0.367	0.379	0.352	0.395	0.386	7.38
43) T	Isopropyl Acetate	0.404	0.417	0.400	0.422	0.389	0.451	0.414	5.25
44) TM	Trichloroethene	0.401	0.355	0.341	0.349	0.338	0.375	0.360	6.66
45) C	1,2-Dichloropr...	0.357	0.329	0.319	0.327	0.311	0.341	0.331	4.98#
46) T	Dibromomethane	0.201	0.184	0.179	0.181	0.166	0.187	0.183	6.17
47) T	Bromodichlorom...	0.528	0.500	0.469	0.482	0.459	0.506	0.491	5.18
48) T	Methyl methacr...	0.180	0.180	0.175	0.192	0.186	0.217	0.188	7.95
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	6.73
50) S	Toluene-d8	1.295	1.237	1.139	1.202	1.158	1.288	1.220	5.34
51) T	4-Methyl-2-Pen...	0.202	0.211	0.202	0.216	0.194	0.224	0.208	5.18
52) CM	Toluene	0.913	0.856	0.840	0.876	0.844	0.918	0.875	3.88#
53) T	t-1,3-Dichloro...	0.441	0.426	0.419	0.449	0.427	0.483	0.441	5.31
54) T	cis-1,3-Dichlo...	0.528	0.516	0.502	0.525	0.501	0.560	0.522	4.19
55) T	1,1,2-Trichlor...	0.261	0.235	0.231	0.235	0.217	0.242	0.237	6.06
56) T	Ethyl methacry...	0.287	0.296	0.300	0.338	0.319	0.363	0.317	9.15

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\

Method File : 82Y020325S.M

57)	T	1,3-Dichloropr...	0.434	0.410	0.402	0.412	0.381	0.424	0.410	4.44
58)	T	2-Chloroethyl ...	0.143	0.146	0.146	0.157	0.146	0.167	0.151	6.19
59)	T	2-Hexanone	0.124	0.131	0.128	0.144	0.129	0.149	0.134	7.42
60)	T	Dibromochlorom...	0.359	0.330	0.324	0.329	0.310	0.346	0.333	5.17
61)	T	1,2-Dibromoethane	0.232	0.223	0.215	0.225	0.203	0.233	0.222	5.04
62)	S	4-Bromofluorob...	0.417	0.408	0.371	0.403	0.375	0.418	0.399	5.23
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.409	0.367	0.352	0.361	0.351	0.387	0.371	6.17
65)	PM	Chlorobenzene	1.237	1.115	1.054	1.080	1.048	1.146	1.113	6.40
66)	T	1,1,1,2-Tetrac...	0.434	0.401	0.376	0.382	0.374	0.407	0.396	5.86
67)	C	Ethyl Benzene	2.101	1.899	1.865	1.943	1.914	2.093	1.969	5.20#
68)	T	m/p-Xylenes	0.772	0.723	0.709	0.733	0.711	0.773	0.737	3.93
69)	T	o-Xylene	0.723	0.658	0.660	0.681	0.670	0.729	0.687	4.57
70)	T	Styrene	1.154	1.118	1.105	1.156	1.128	1.208	1.145	3.23
71)	P	Bromoform	0.231	0.222	0.217	0.216	0.205	0.229	0.220	4.43
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.122	3.695	3.673	3.809	3.871	4.263	3.906	6.09
74)	T	N-amyl acetate	0.786	0.801	0.796	0.887	0.854	1.000	0.854	9.53
75)	P	1,1,2,2-Tetrac...	0.707	0.646	0.635	0.632	0.597	0.680	0.650	5.97
76)	T	1,2,3-Trichlor...	0.527	0.393	0.469	0.462	0.378	0.492	0.454	12.69
77)	T	Bromobenzene	0.946	0.892	0.866	0.864	0.863	0.978	0.901	5.45
78)	T	n-propylbenzene	4.862	4.419	4.410	4.581	4.590	5.054	4.653	5.50
79)	T	2-Chlorotoluene	2.872	2.577	2.537	2.585	2.571	2.847	2.665	5.70
80)	T	1,3,5-Trimethy...	3.321	3.032	3.042	3.109	3.100	3.395	3.167	4.84
81)	T	trans-1,4-Dich...	0.216	0.226	0.211	0.223	0.208	0.250	0.222	6.87
82)	T	4-Chlorotoluene	2.902	2.692	2.605	2.617	2.592	2.882	2.715	5.21
83)	T	tert-Butylbenzene	2.968	2.745	2.755	2.869	2.773	3.160	2.878	5.63
84)	T	1,2,4-Trimethy...	3.184	2.935	2.981	3.059	3.047	3.371	3.096	5.13
85)	T	sec-Butylbenzene	4.405	4.003	3.956	4.038	4.046	4.413	4.143	5.03
86)	T	p-Isopropyltol...	3.554	3.237	3.304	3.421	3.381	3.753	3.442	5.43
87)	T	1,3-Dichlorobe...	1.937	1.686	1.660	1.683	1.652	1.824	1.740	6.61
88)	T	1,4-Dichlorobe...	1.906	1.702	1.632	1.665	1.599	1.778	1.714	6.56
89)	T	n-Butylbenzene	3.202	2.923	2.961	3.153	3.127	3.473	3.140	6.27
90)	T	Hexachloroethane	0.757	0.693	0.680	0.696	0.699	0.784	0.718	5.86
91)	T	1,2-Dichlorobe...	1.668	1.524	1.440	1.460	1.405	1.567	1.510	6.42
92)	T	1,2-Dibromo-3-...	0.099	0.099	0.089	0.097	0.089	0.109	0.097	7.64
93)	T	1,2,4-Trichlor...	0.796	0.754	0.743	0.875	0.873	1.004	0.841	11.62
94)	T	Hexachlorobuta...	0.600	0.518	0.523	0.554	0.542	0.605	0.557	6.73
95)	T	Naphthalene	1.072	1.171	1.176	1.488	1.440	1.723	1.345	18.38
96)	T	1,2,3-Trichlor...	0.641	0.640	0.626	0.733	0.726	0.832	0.700	11.36

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021020.D
 Acq On : 03 Feb 2025 10:35
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:37:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 12:36:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	185671	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	293189	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	242257	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.359	152	113107	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.079	65	10514	6.651	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	13.300%#		
35) Dibromofluoromethane	7.640	113	10294	5.840	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	11.680%#		
50) Toluene-d8	10.115	98	37973	5.520	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	11.040%#		
62) 4-Bromofluorobenzene	12.414	95	12237	5.301	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	10.600%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.873	85	9330	5.910	ug/l	94
3) Chloromethane	2.080	50	9736	9.700	ug/l	98
4) Vinyl Chloride	2.214	62	9942	9.607	ug/l	100
5) Bromomethane	2.611	94	6604	9.426	ug/l	92
6) Chloroethane	2.751	64	5863	9.698	ug/l	89
7) Trichlorofluoromethane	3.074	101	17163	6.872	ug/l	96
8) Diethyl Ether	3.470	74	5090	6.827	ug/l	78
9) 1,1,2-Trichlorotrifluo...	3.830	101	10891	6.476	ug/l	93
10) Methyl Iodide	4.019	142	9923	5.156	ug/l	97
11) Tert butyl alcohol	4.878	59	3893	33.712	ug/l #	73
12) 1,1-Dichloroethene	3.805	96	9831	6.255	ug/l	89
13) Acrolein	3.665	56	5116	38.472	ug/l	94
14) Allyl chloride	4.403	41	16131	7.456	ug/l	93
15) Acrylonitrile	5.086	53	10135	33.047	ug/l #	73
16) Acetone	3.891	43	8118	37.678	ug/l	99
17) Carbon Disulfide	4.123	76	31063	6.417	ug/l	99
18) Methyl Acetate	4.397	43	5577	7.397	ug/l	92
19) Methyl tert-butyl Ether	5.128	73	23603	6.452	ug/l	98
20) Methylene Chloride	4.635	84	10585	6.661	ug/l	94
21) trans-1,2-Dichloroethene	5.141	96	10724	6.364	ug/l	91
22) Diisopropyl ether	6.031	45	32323	7.329	ug/l	94
23) Vinyl Acetate	5.976	43	87000	35.621	ug/l	97
24) 1,1-Dichloroethane	5.933	63	20490	7.202	ug/l	96
25) 2-Butanone	6.915	43	12466	34.105	ug/l	93
26) 2,2-Dichloropropane	6.890	77	19144	6.834	ug/l	98
27) cis-1,2-Dichloroethene	6.909	96	12299	6.350	ug/l	93
28) Bromochloromethane	7.256	49	6919	6.527	ug/l	85
29) Tetrahydrofuran	7.281	42	8193	33.310	ug/l	92
30) Chloroform	7.439	83	20552	6.669	ug/l	96
31) Cyclohexane	7.713	56	20287	7.295	ug/l #	85
32) 1,1,1-Trichloroethane	7.628	97	19818	6.645	ug/l	97
36) 1,1-Dichloropropene	7.841	75	15667	6.231	ug/l	95
37) Ethyl Acetate	6.994	43	6383	6.809	ug/l #	74
38) Carbon Tetrachloride	7.829	117	17709	5.691	ug/l	99
39) Methylcyclohexane	9.116	83	17860	5.287	ug/l	93
40) Benzene	8.091	78	44324	5.991	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021020.D
 Acq On : 03 Feb 2025 10:35
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:37:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M

Quant Title : SW846 8260

QLast Update : Mon Feb 03 12:36:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.244	41	3810m	7.345	ug/l	
42) 1,2-Dichloroethane	8.164	62	12762	6.801	ug/l	98
43) Isopropyl Acetate	8.207	43	11839	6.321	ug/l #	86
44) Trichloroethene	8.878	130	11751	5.756	ug/l	93
45) 1,2-Dichloropropane	9.146	63	10477	6.318	ug/l	99
46) Dibromomethane	9.244	93	5885	6.098	ug/l	91
47) Bromodichloromethane	9.433	83	15477	6.107	ug/l	94
48) Methyl methacrylate	9.231	41	5280	5.922	ug/l	93
49) 1,4-Dioxane	9.250	88	940	91.663	ug/l #	93
51) 4-Methyl-2-Pentanone	10.006	43	29573	30.730	ug/l	91
52) Toluene	10.182	92	26760	5.572	ug/l	96
53) t-1,3-Dichloropropene	10.402	75	12933	5.639	ug/l	97
54) cis-1,3-Dichloropropene	9.865	75	15488	5.650	ug/l #	90
55) 1,1,2-Trichloroethane	10.579	97	7651	5.961	ug/l	92
56) Ethyl methacrylate	10.451	69	8418	5.018	ug/l #	82
57) 1,3-Dichloropropane	10.725	76	12714	5.845	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.719	63	21035	29.542	ug/l	95
59) 2-Hexanone	10.774	43	18159	29.030	ug/l	90
60) Dibromochloromethane	10.920	129	10511	5.744	ug/l	96
61) 1,2-Dibromoethane	11.024	107	6810	5.555	ug/l	96
64) Tetrachloroethene	10.652	164	9915	5.426	ug/l	96
65) Chlorobenzene	11.450	112	29973	5.872	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.524	131	10524	5.810	ug/l	98
67) Ethyl Benzene	11.530	91	50904	5.760	ug/l	97
68) m/p-Xylenes	11.639	106	37399	11.015	ug/l	98
69) o-Xylene	11.963	106	17519	5.550	ug/l	99
70) Styrene	11.981	104	27946	5.333	ug/l	99
71) Bromoform	12.145	173	5607	5.252	ug/l #	97
73) Isopropylbenzene	12.261	105	46625	5.869	ug/l	100
74) N-amyl acetate	12.085	43	8887	6.144	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.517	83	8001	6.240	ug/l	99
76) 1,2,3-Trichloropropane	12.566	75	5960m	6.656	ug/l	
77) Bromobenzene	12.542	156	10698	5.680	ug/l	90
78) n-propylbenzene	12.603	91	54990	5.907	ug/l	99
79) 2-Chlorotoluene	12.688	91	32479	6.123	ug/l	99
80) 1,3,5-Trimethylbenzene	12.749	105	37564	5.772	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.310	75	2446	5.671	ug/l	92
82) 4-Chlorotoluene	12.786	91	32824	6.046	ug/l	99
83) tert-Butylbenzene	13.005	119	33572	5.562	ug/l	95
84) 1,2,4-Trimethylbenzene	13.054	105	36016	5.665	ug/l	100
85) sec-Butylbenzene	13.188	105	49828	5.831	ug/l	99
86) p-Isopropyltoluene	13.304	119	40197	5.597	ug/l	98
87) 1,3-Dichlorobenzene	13.298	146	21910	5.966	ug/l	99
88) 1,4-Dichlorobenzene	13.377	146	21553	5.910	ug/l	95
89) n-Butylbenzene	13.627	91	36214	5.630	ug/l	96
90) Hexachloroethane	13.895	117	8559	5.891	ug/l	98
91) 1,2-Dichlorobenzene	13.670	146	18869	5.892	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.285	75	1125	5.699	ug/l	82
93) 1,2,4-Trichlorobenzene	14.932	180	9000	4.590	ug/l	98
94) Hexachlorobutadiene	15.035	225	6792	5.001	ug/l	99
95) Naphthalene	15.157	128	12124	3.847	ug/l	99
96) 1,2,3-Trichlorobenzene	15.340	180	7255	4.375	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021020.D
Acq On : 03 Feb 2025 10:35
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:37:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

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

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

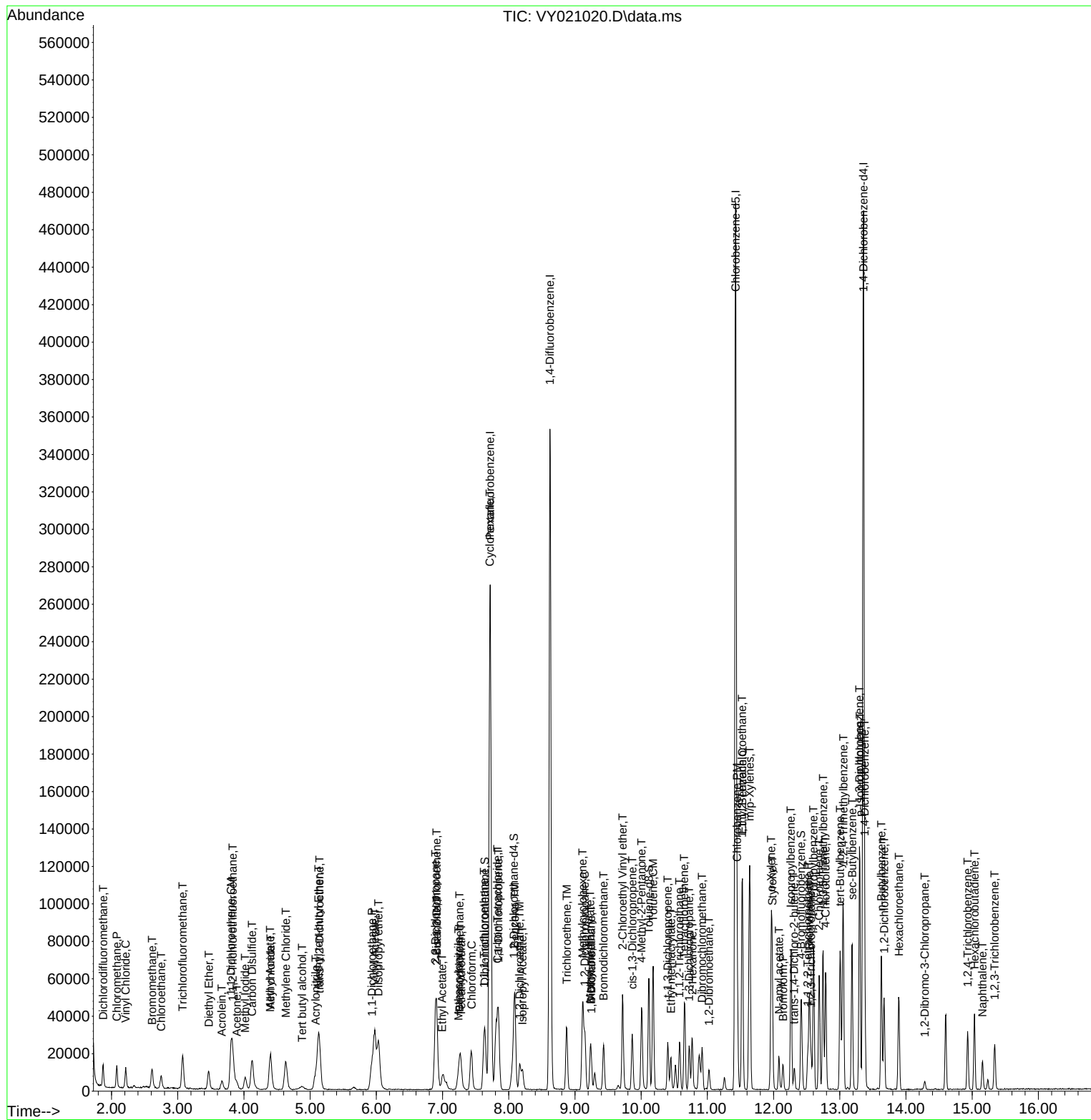
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 Sample : VSTDIC005
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 ALS Vial : 2 Sample Multiplier: 1

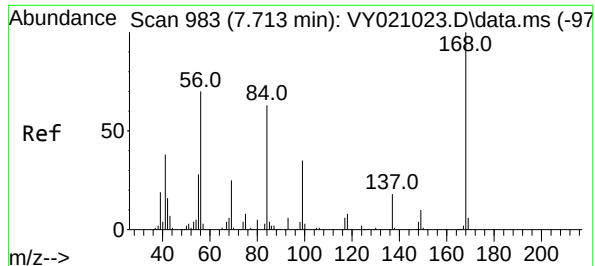
Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 02/04/2025
 Supervised By : Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:37:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 12:36:41 2025
 Response via : Initial Calibration





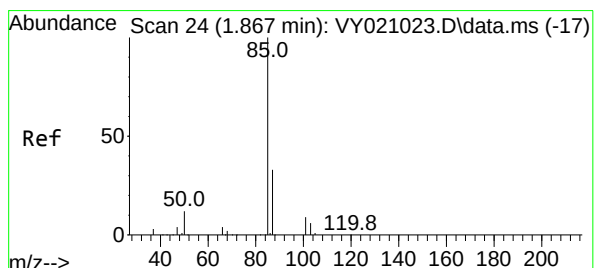
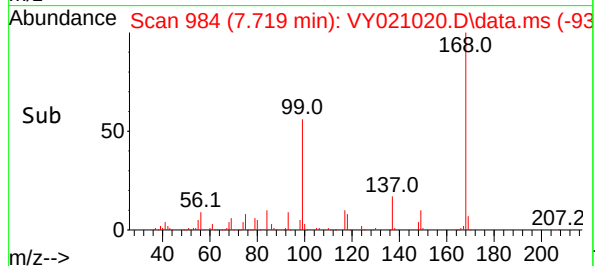
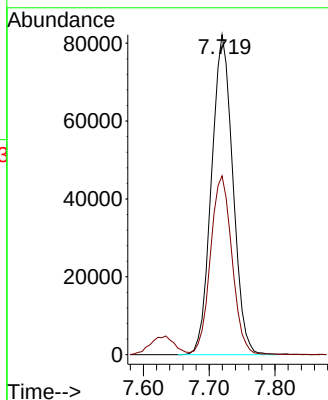
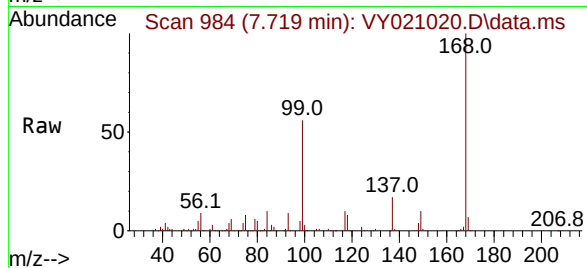
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 18567
Ion Ratio Lower Upper
168 100
99 55.8 42.2 63.2

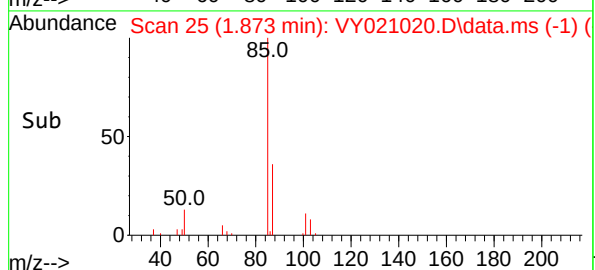
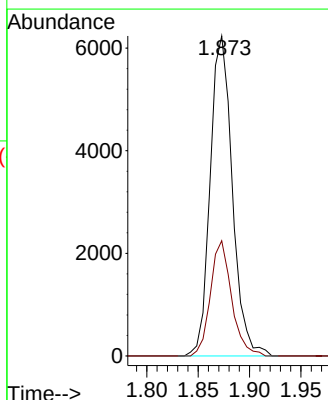
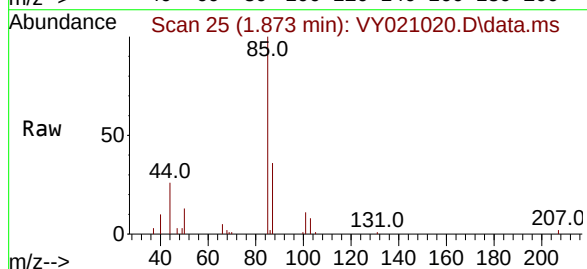
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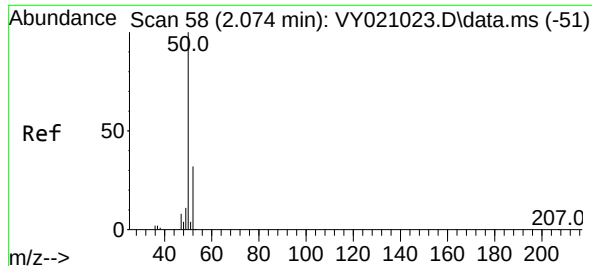
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#2
Dichlorodifluoromethane
Concen: 5.910 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 85 Resp: 9330
Ion Ratio Lower Upper
85 100
87 36.0 16.3 48.9





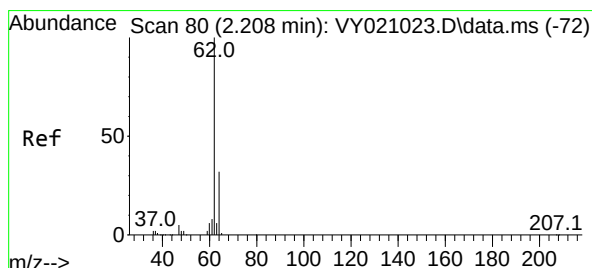
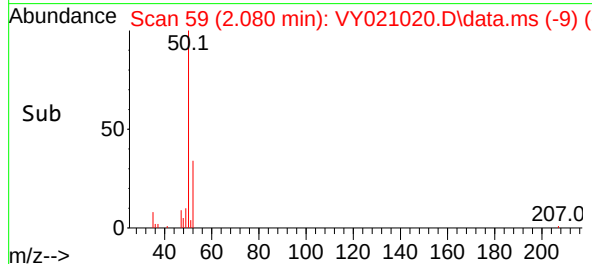
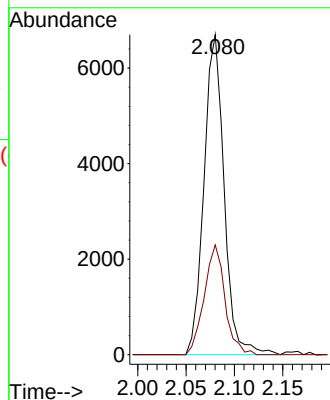
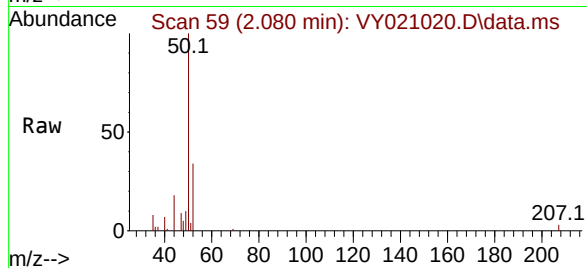
#3
Chloromethane
Concen: 9.700 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 9730
Ion Ratio Lower Upper
50 100
52 34.3 26.3 39.5

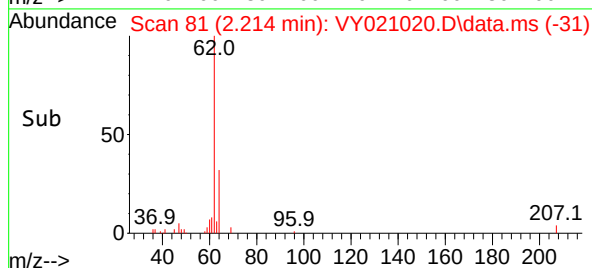
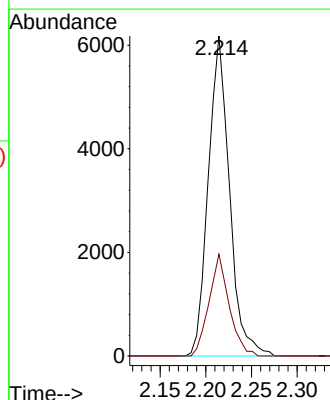
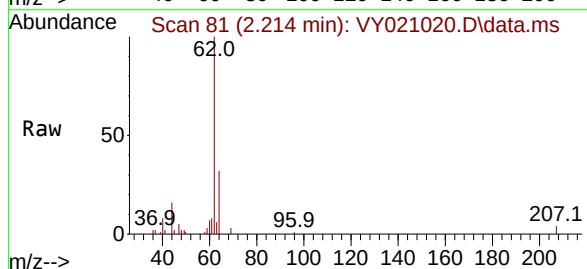
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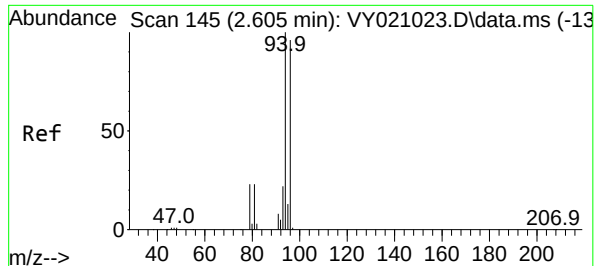
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#4
Vinyl Chloride
Concen: 9.607 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 62 Resp: 9942
Ion Ratio Lower Upper
62 100
64 31.8 25.4 38.2





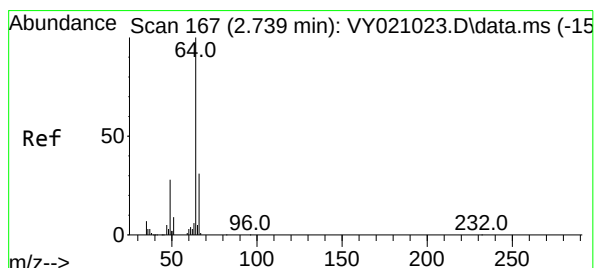
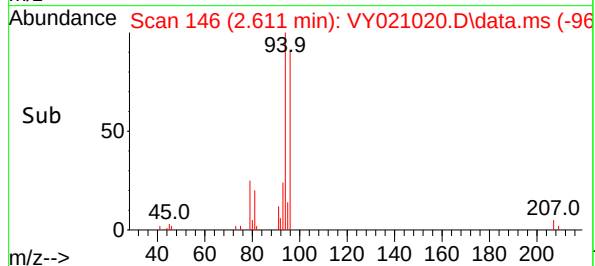
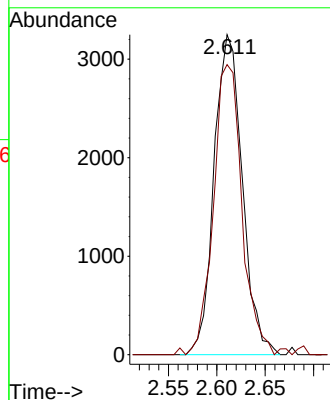
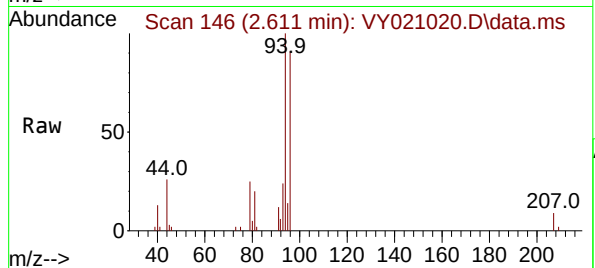
#5
Bromomethane
Concen: 9.426 ug/l
RT: 2.611 min Scan# 145
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 6604
Ion Ratio Lower Upper
94 100
96 88.9 77.4 116.0

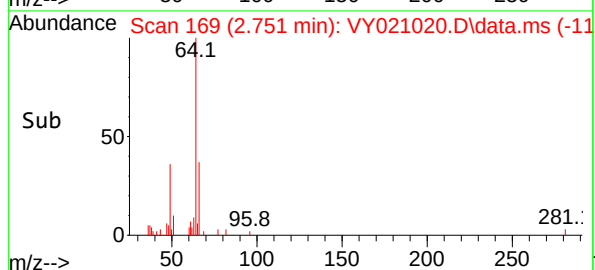
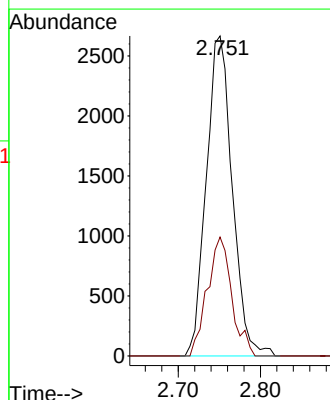
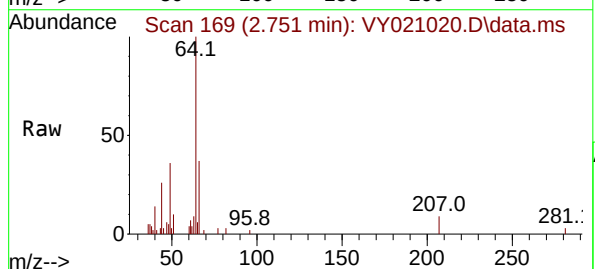
Manual Integrations
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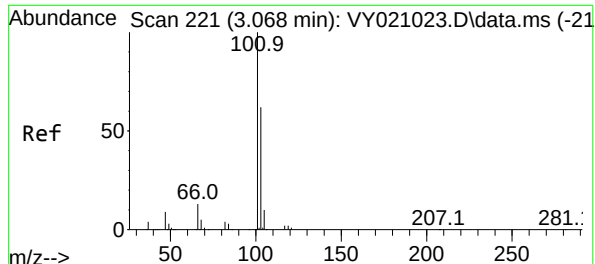
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#6
Chloroethane
Concen: 9.698 ug/l
RT: 2.751 min Scan# 169
Delta R.T. 0.013 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 64 Resp: 5863
Ion Ratio Lower Upper
64 100
66 37.1 25.0 37.4





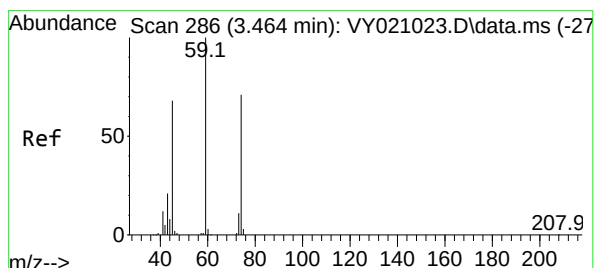
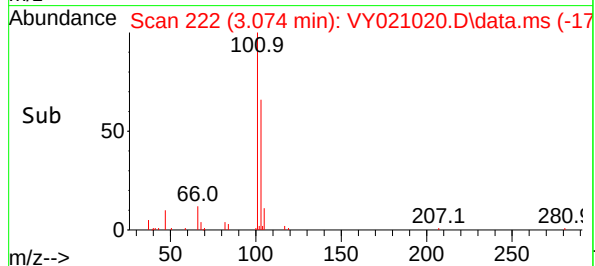
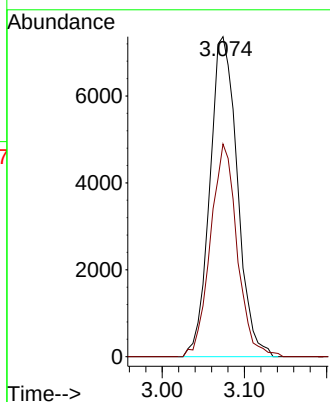
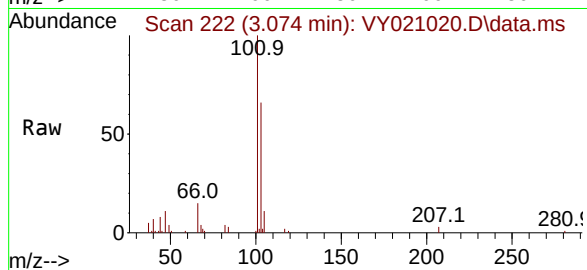
#7
Trichlorofluoromethane
Concen: 6.872 ug/l
RT: 3.074 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 1716
Ion Ratio Lower Upper
101 100
103 66.4 50.9 76.3

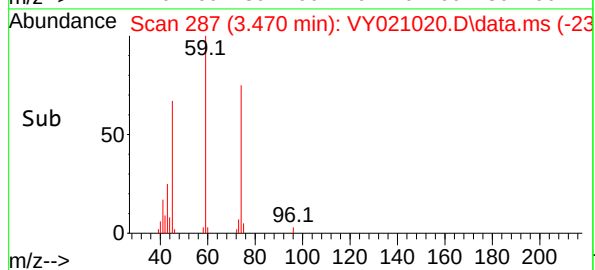
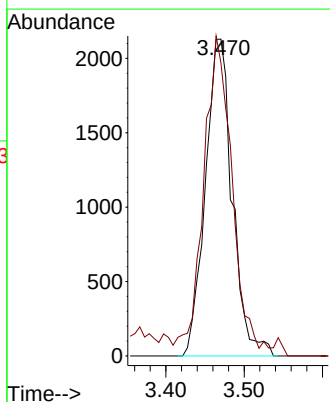
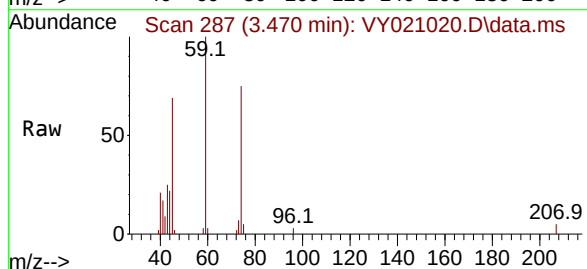
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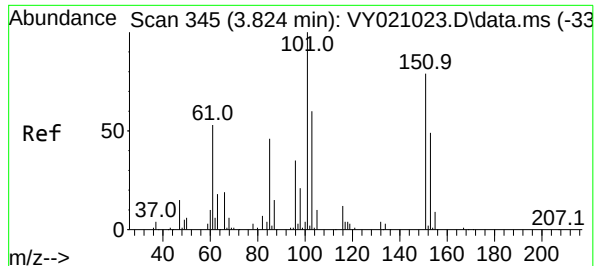
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#8
Diethyl Ether
Concen: 6.827 ug/l
RT: 3.470 min Scan# 287
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 74 Resp: 5090
Ion Ratio Lower Upper
74 100
45 107.1 43.4 130.2





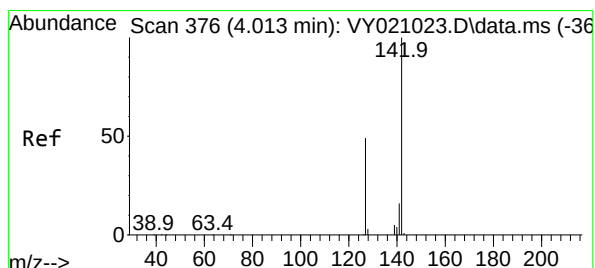
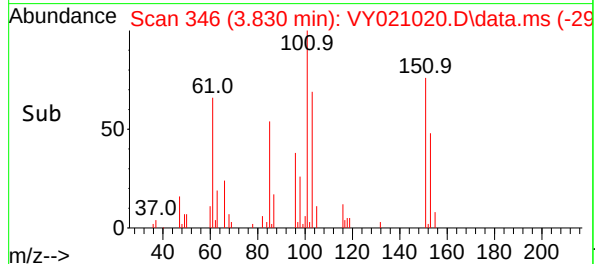
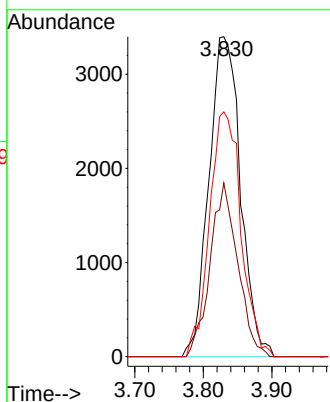
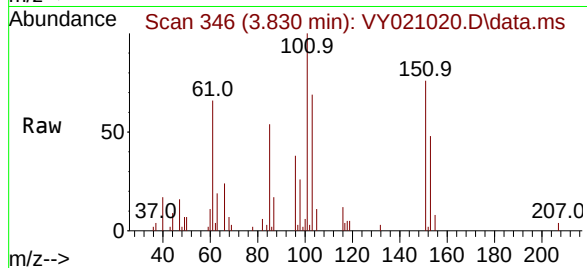
#9
1,1,2-Trichlorotrifluoroethane
Concen: 6.476 ug/l
RT: 3.830 min Scan# 345
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 1089
Ion Ratio Lower Upper
101 100
85 47.3 34.9 52.3
151 76.2 66.8 100.2

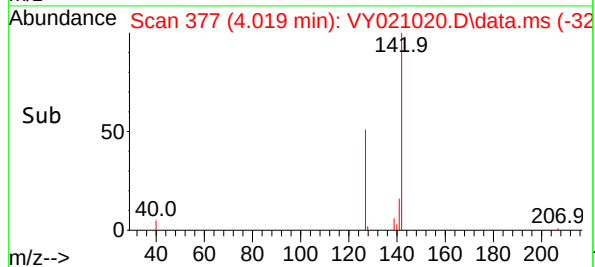
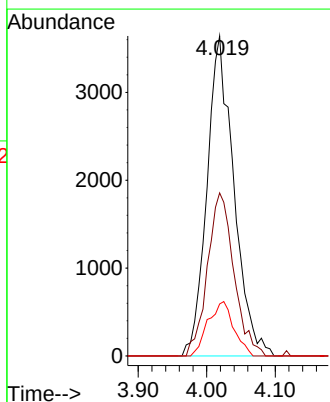
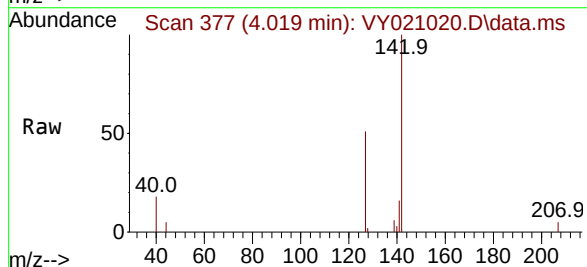
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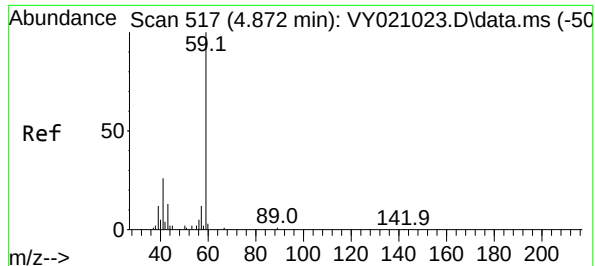
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#10
Methyl Iodide
Concen: 5.156 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion:142 Resp: 9923
Ion Ratio Lower Upper
142 100
127 50.1 38.9 58.3
141 16.3 11.7 17.5





#11

Tert butyl alcohol

Concen: 33.712 ug/l

RT: 4.878 min Scan# 517

Delta R.T. 0.000 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 389

Ion Ratio Lower Upper

59 100

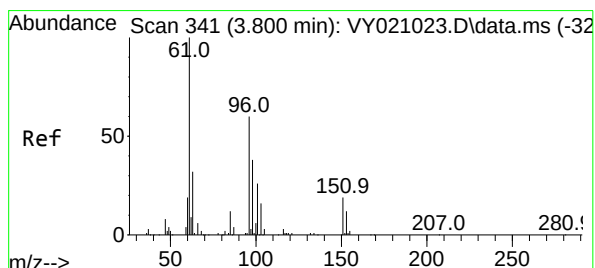
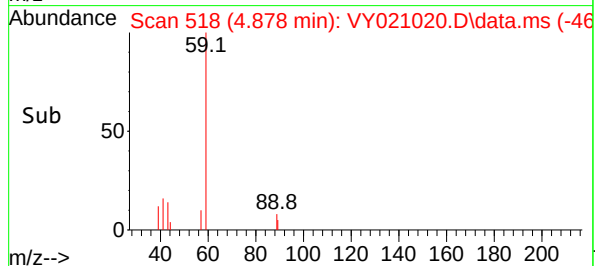
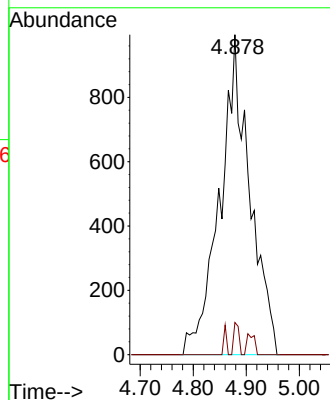
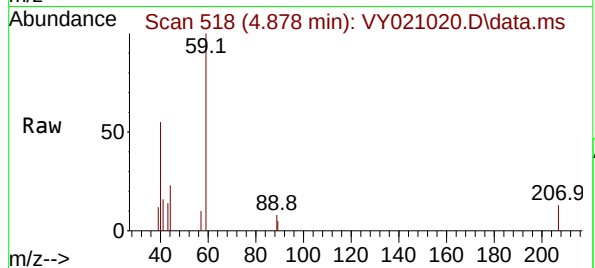
57 0.0 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#12

1,1-Dichloroethene

Concen: 6.255 ug/l

RT: 3.805 min Scan# 342

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

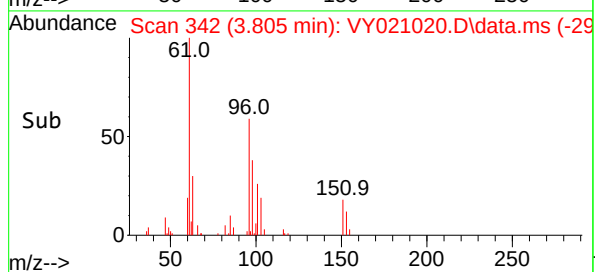
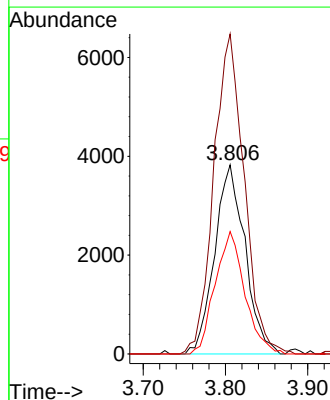
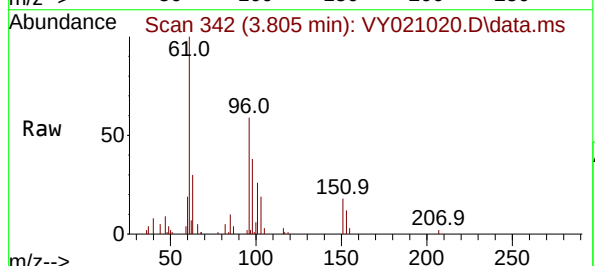
Tgt Ion: 96 Resp: 9831

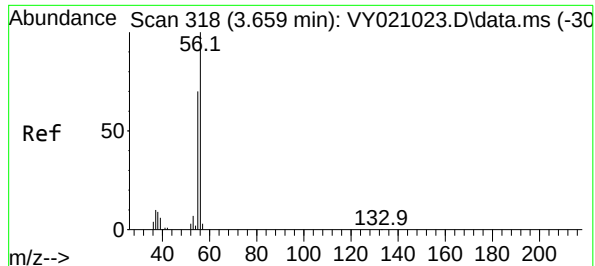
Ion Ratio Lower Upper

96 100

61 169.2 120.8 181.2

98 64.7 50.6 76.0





#13

Acrolein

Concen: 38.472 ug/l

RT: 3.665 min Scan# 318

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 5110

Ion Ratio Lower Upper

56 100

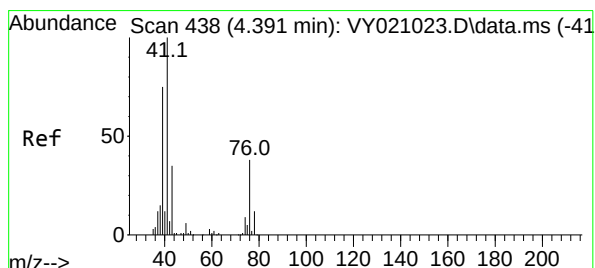
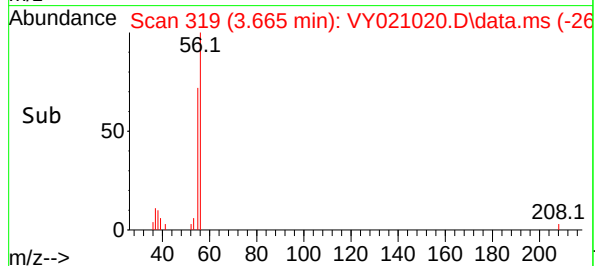
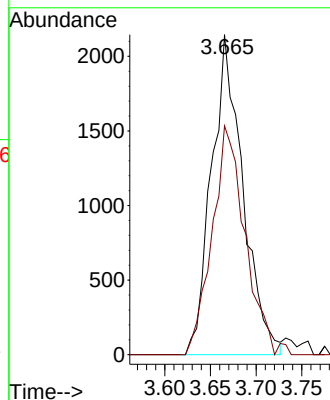
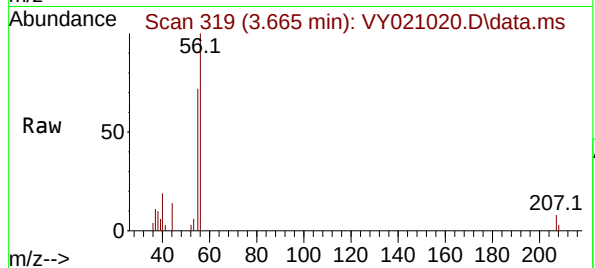
55 75.4 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#14

Allyl chloride

Concen: 7.456 ug/l

RT: 4.403 min Scan# 440

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

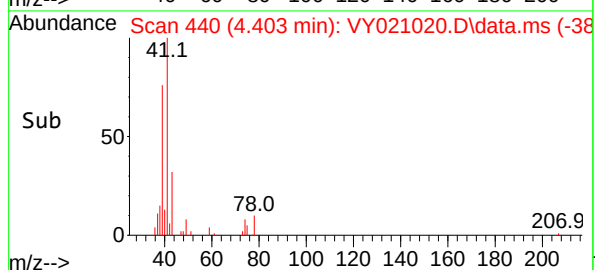
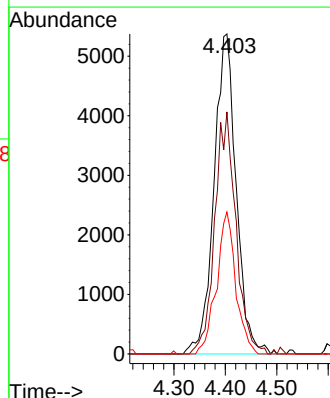
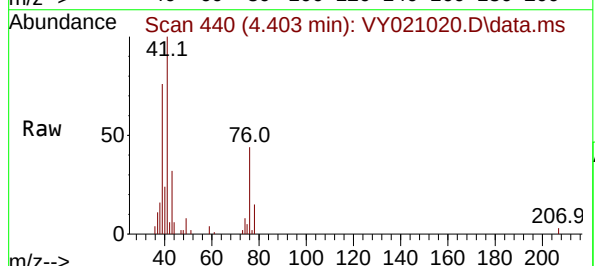
Tgt Ion: 41 Resp: 16131

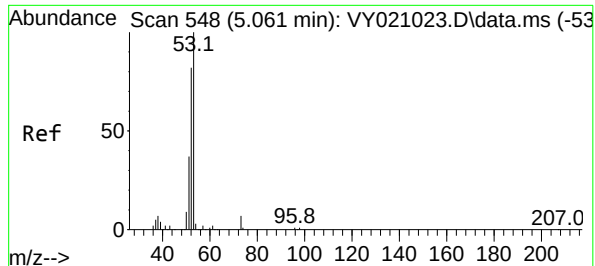
Ion Ratio Lower Upper

41 100

39 71.9 53.5 80.3

76 38.4 34.6 52.0





#15

Acrylonitrile

Concen: 33.047 ug/l

RT: 5.086 min Scan# 51

Delta R.T. 0.019 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

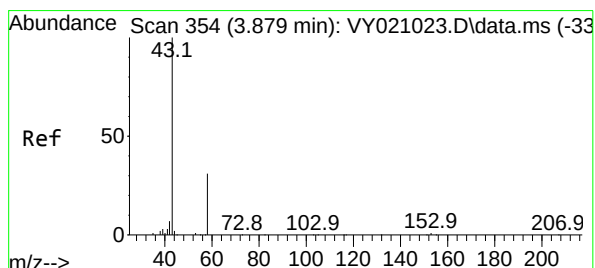
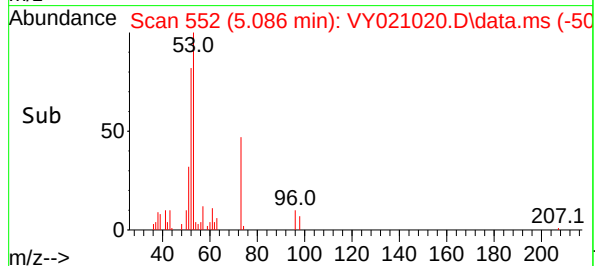
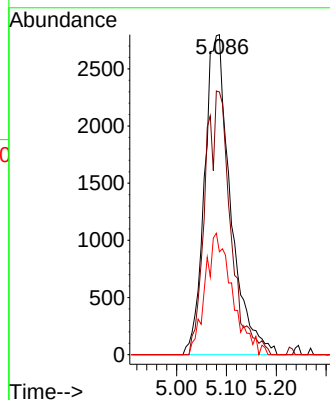
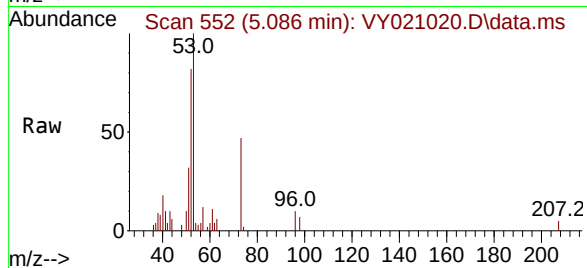
ClientSampleId :

VSTDIC005

Tgt Ion:	53	Resp:	1013
Ion	Ratio	Lower	Upper
53	100		
52	50.1	66.2	99.4
51	39.5	29.4	44.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#16

Acetone

Concen: 37.678 ug/l

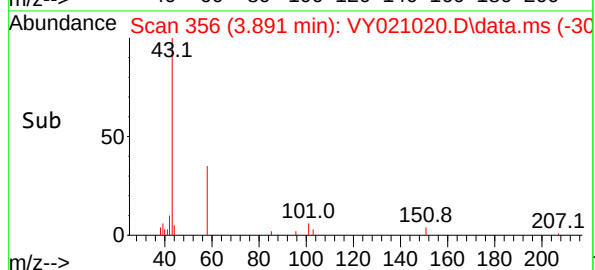
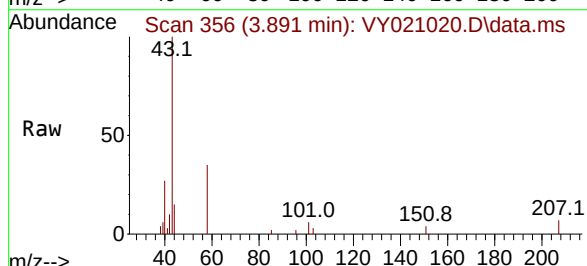
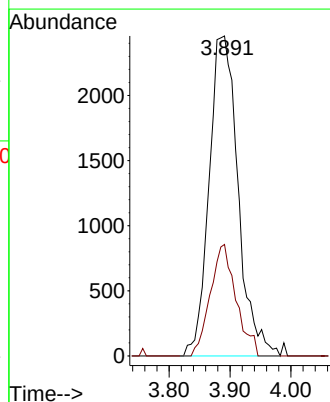
RT: 3.891 min Scan# 356

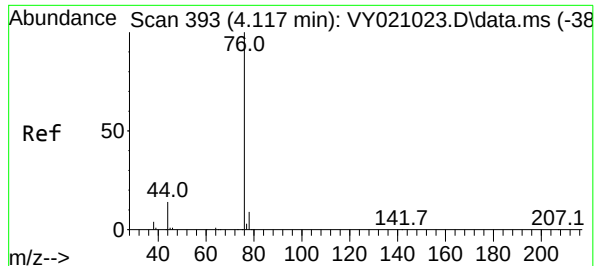
Delta R.T. 0.019 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:	43	Resp:	8118
Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.4	42.6





#17

Carbon Disulfide

Concen: 6.417 ug/l

RT: 4.123 min Scan# 394

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 3106

Ion Ratio Lower Upper

76 100

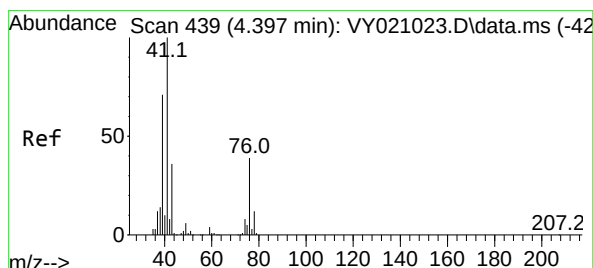
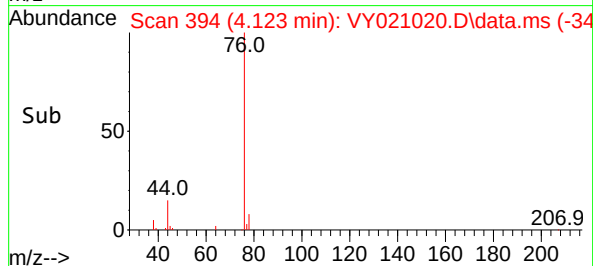
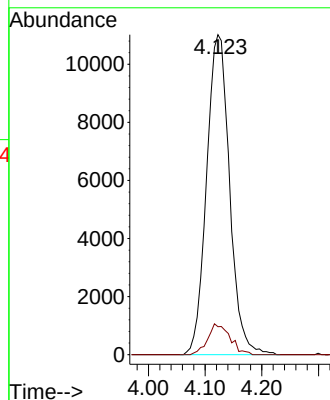
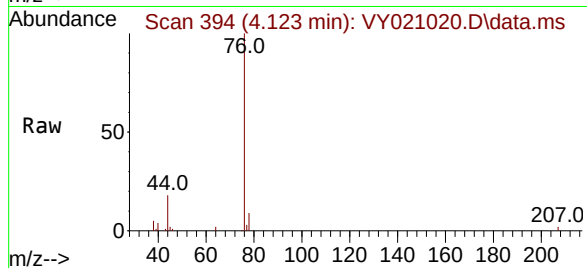
78 8.7 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#18

Methyl Acetate

Concen: 7.397 ug/l

RT: 4.397 min Scan# 439

Delta R.T. 0.006 min

Lab File: VY021020.D

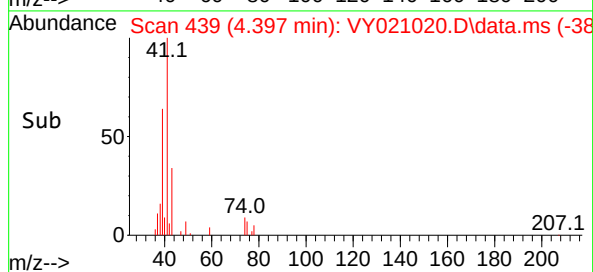
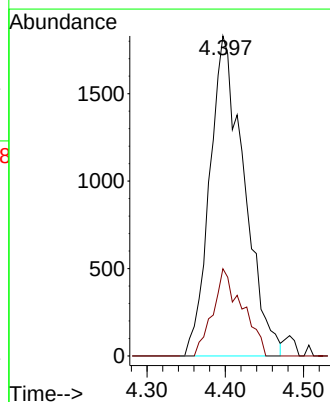
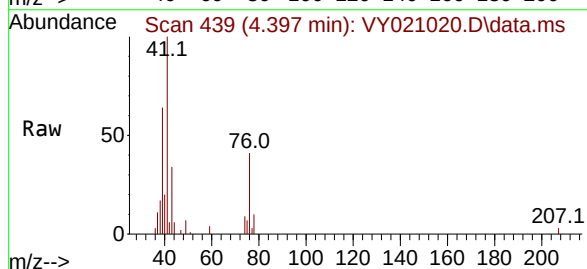
Acq: 03 Feb 2025 10:35

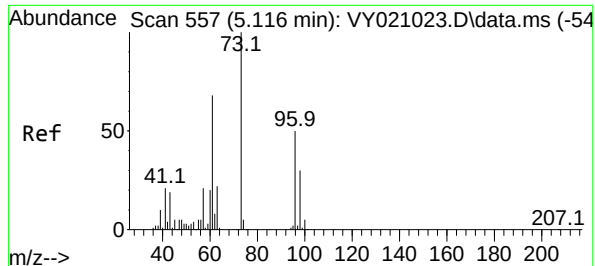
Tgt Ion: 43 Resp: 5577

Ion Ratio Lower Upper

43 100

74 23.4 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 6.452 ug/l

RT: 5.128 min Scan# 51

Delta R.T. 0.000 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 2360

Ion Ratio Lower Upper

73 100

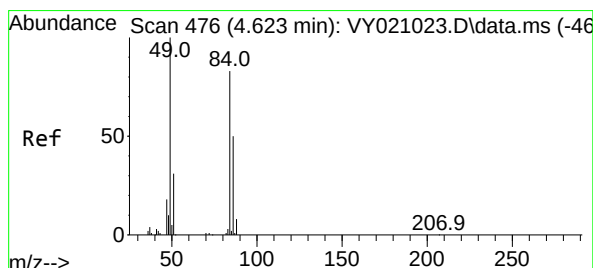
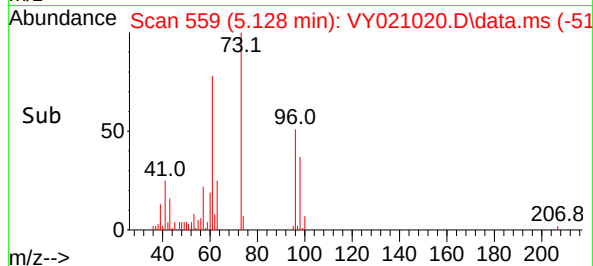
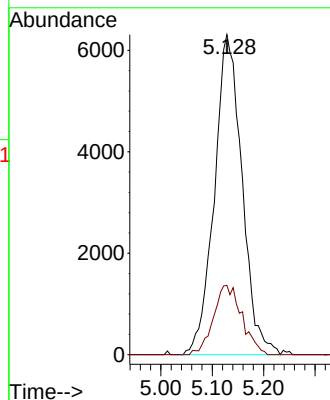
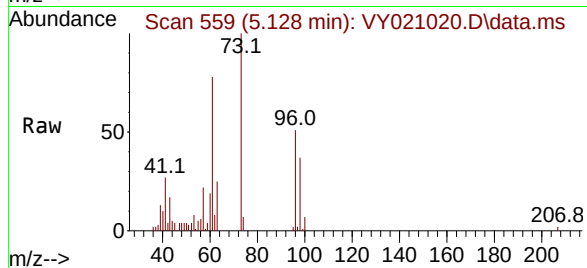
57 21.6 16.6 25.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#20

Methylene Chloride

Concen: 6.661 ug/l

RT: 4.635 min Scan# 478

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion: 84 Resp: 10585

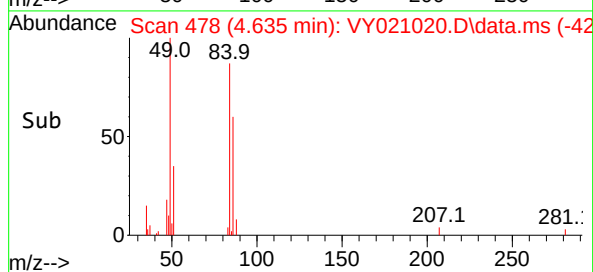
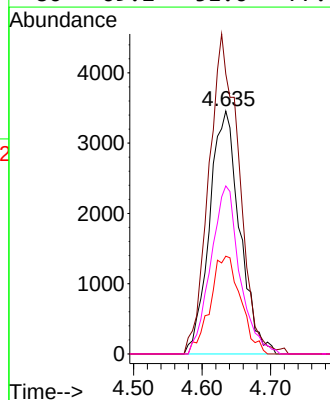
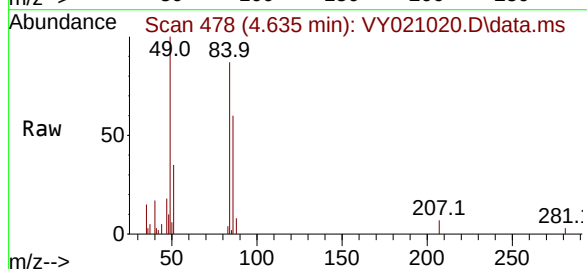
Ion Ratio Lower Upper

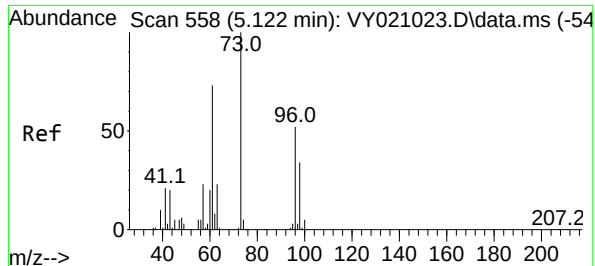
84 100

49 115.3 88.3 132.5

51 40.2 27.7 41.5

86 69.2 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 6.364 ug/l

RT: 5.141 min Scan# 507

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 10724

Ion Ratio Lower Upper

96 100

61 117.6 101.5 152.3

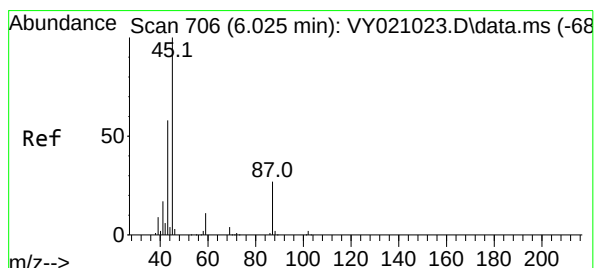
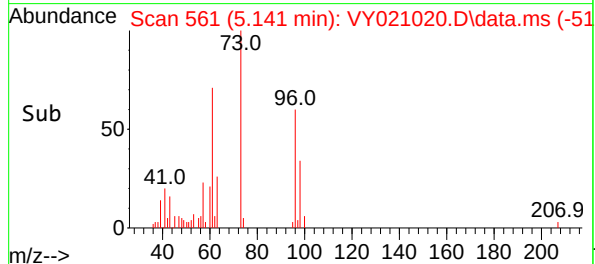
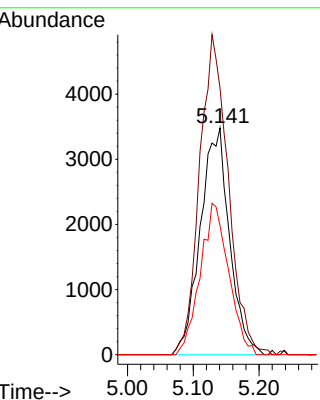
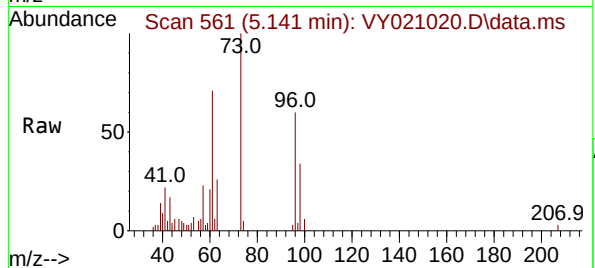
98 56.8 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#22

Diisopropyl ether

Concen: 7.329 ug/l

RT: 6.031 min Scan# 707

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion: 45 Resp: 32323

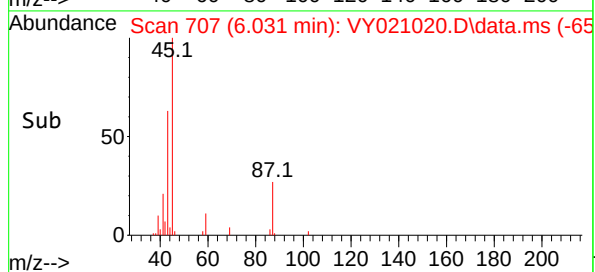
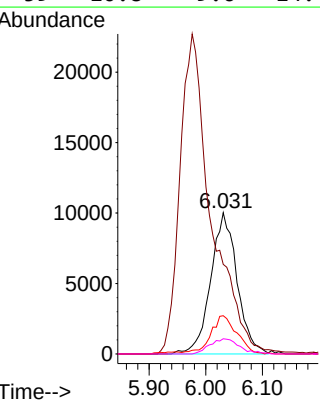
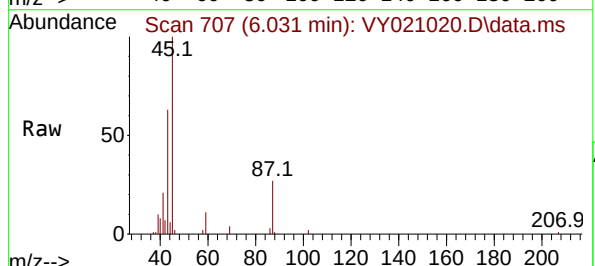
Ion Ratio Lower Upper

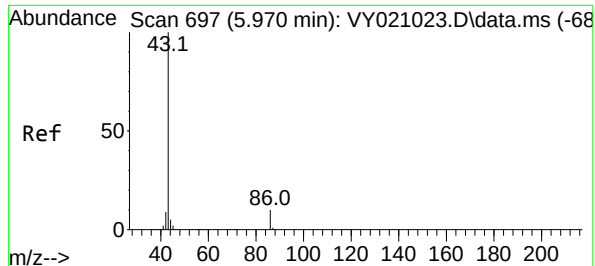
45 100

43 60.4 45.1 67.7

87 26.3 25.0 37.4

59 10.8 9.6 14.4





#23

Vinyl Acetate

Concen: 35.621 ug/l

RT: 5.976 min Scan# 697

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 87000

Ion Ratio Lower Upper

43 100

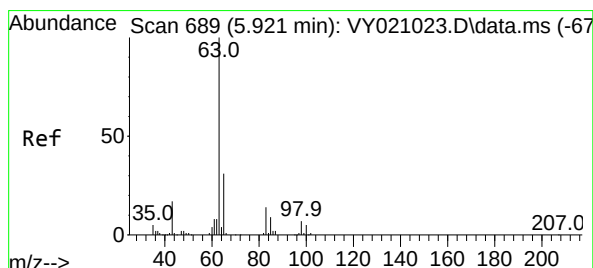
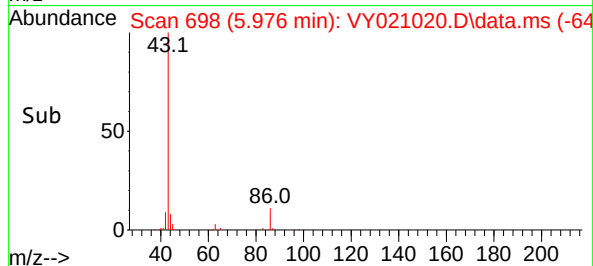
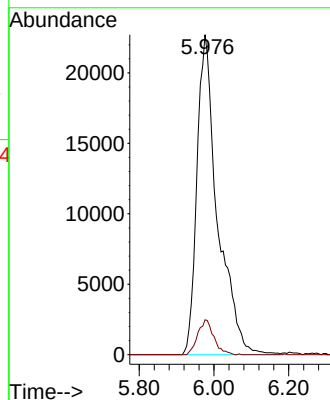
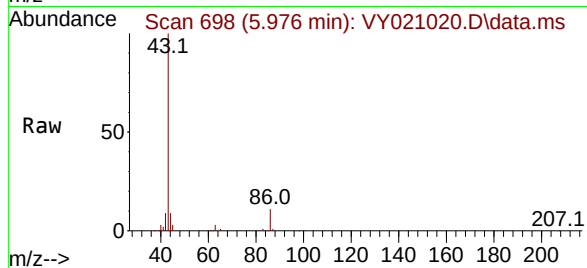
86 10.9 9.7 14.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#24

1,1-Dichloroethane

Concen: 7.202 ug/l

RT: 5.933 min Scan# 691

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

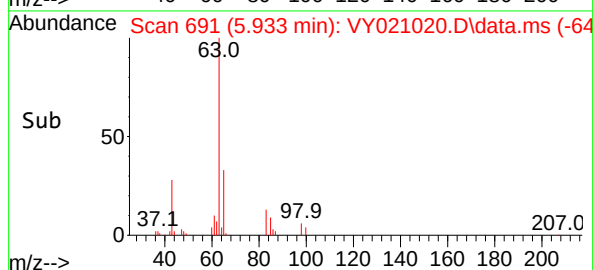
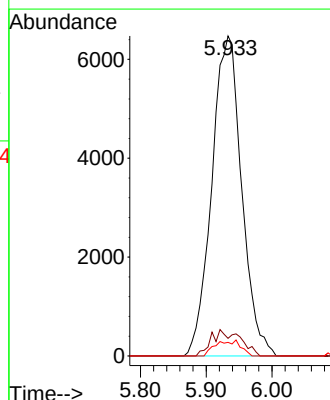
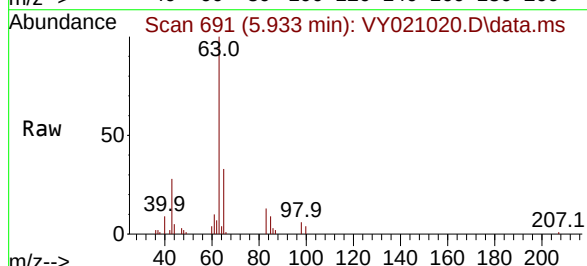
Tgt Ion: 63 Resp: 20490

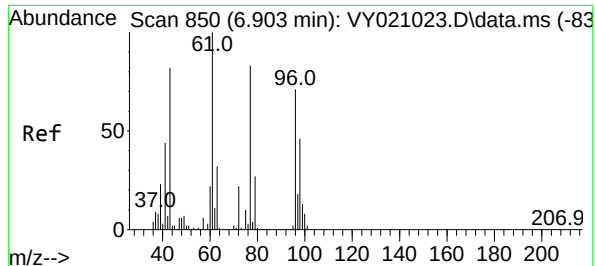
Ion Ratio Lower Upper

63 100

98 5.5 3.7 11.1

100 4.3 2.4 7.2





#25

2-Butanone

Concen: 34.105 ug/l

RT: 6.915 min Scan# 850

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 1246

Ion Ratio Lower Upper

43 100

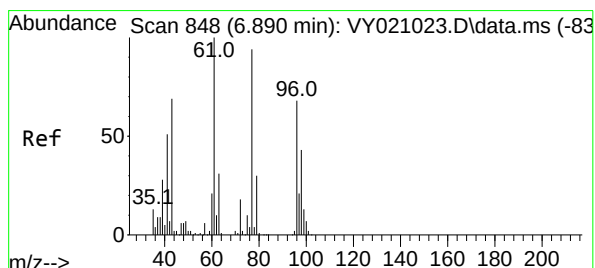
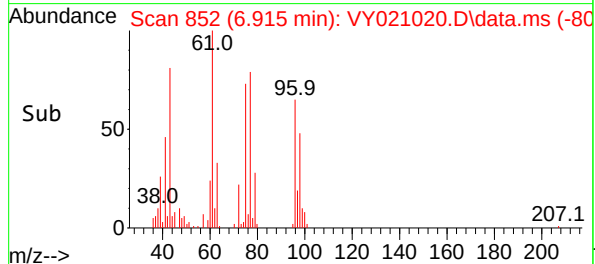
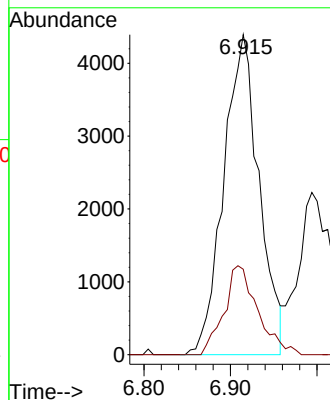
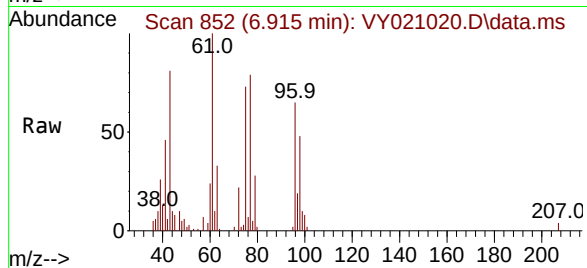
72 26.7 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#26

2,2-Dichloropropane

Concen: 6.834 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY021020.D

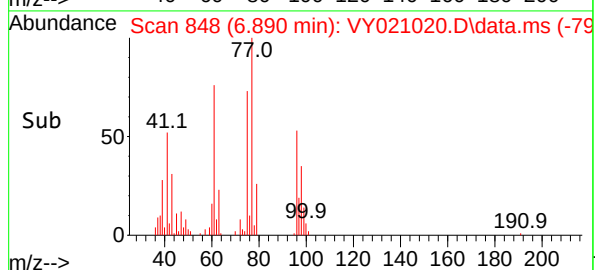
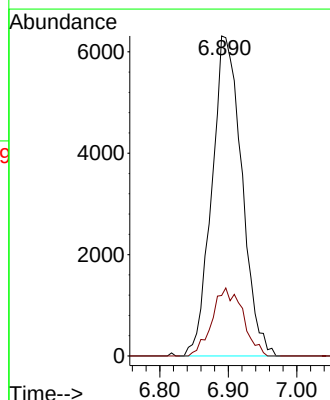
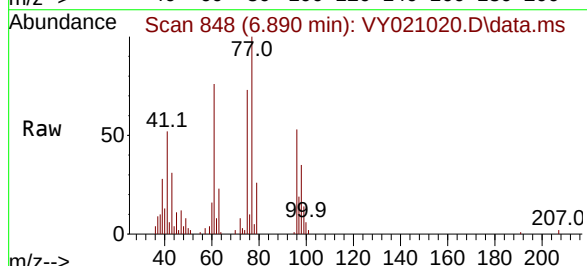
Acq: 03 Feb 2025 10:35

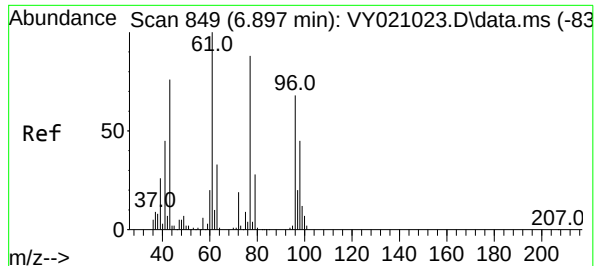
Tgt Ion: 77 Resp: 19144

Ion Ratio Lower Upper

77 100

97 21.9 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 6.350 ug/l

RT: 6.909 min Scan# 851

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

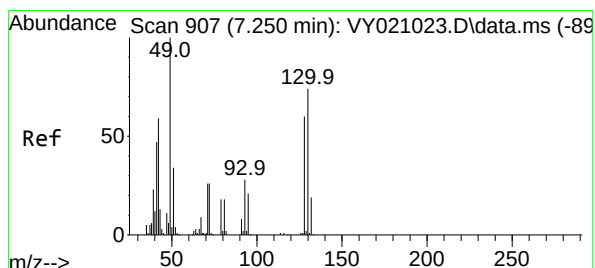
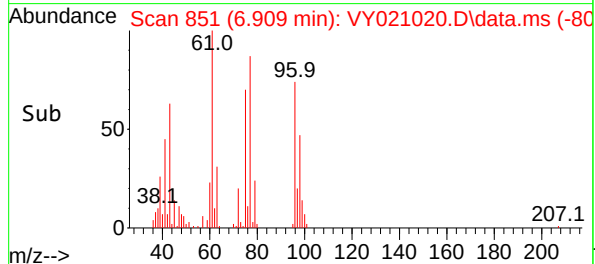
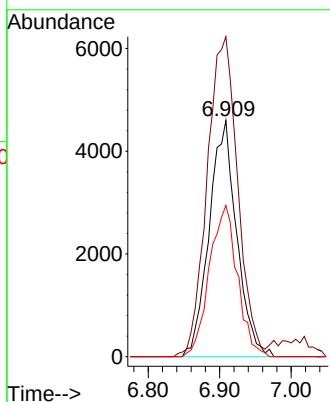
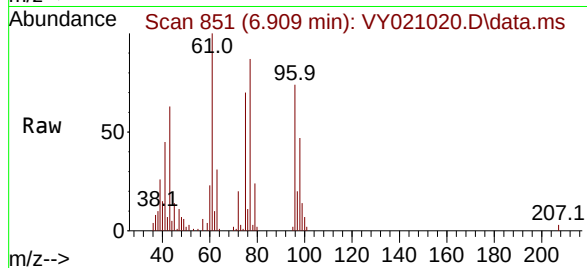
ClientSampleId :

VSTDIC005

Tgt Ion:	96	Resp:	1229
Ion	Ratio	Lower	Upper
96	100		
61	150.2	0.0	274.0
98	65.1	0.0	130.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#28

Bromochloromethane

Concen: 6.527 ug/l

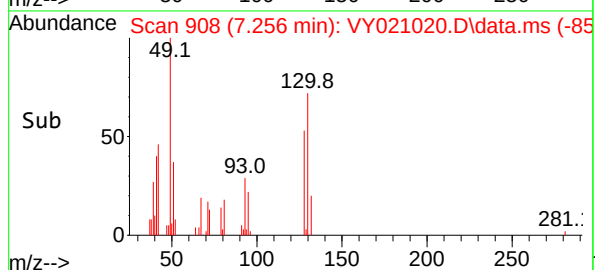
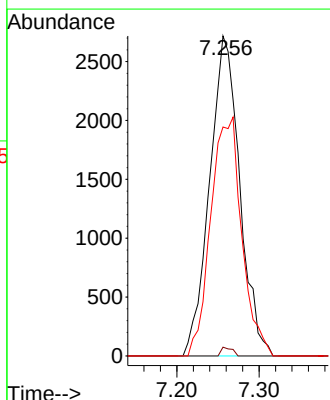
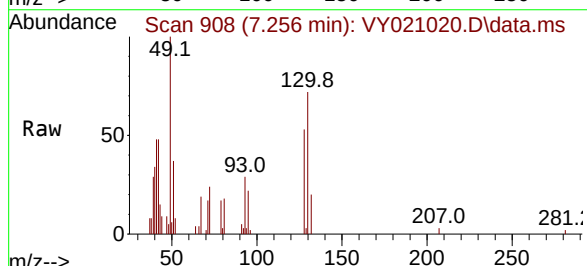
RT: 7.256 min Scan# 908

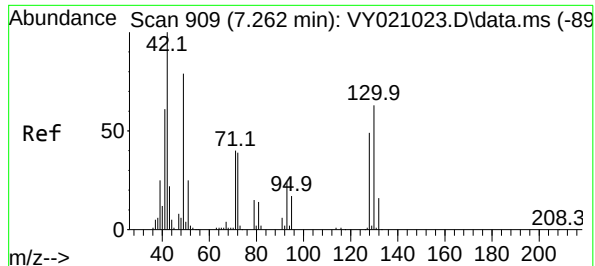
Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:	49	Resp:	6919
Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	5.0
130	76.6	73.2	109.8





#29

Tetrahydrofuran

Concen: 33.310 ug/l

RT: 7.281 min Scan# 912

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

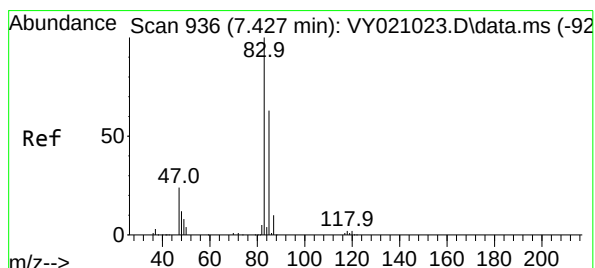
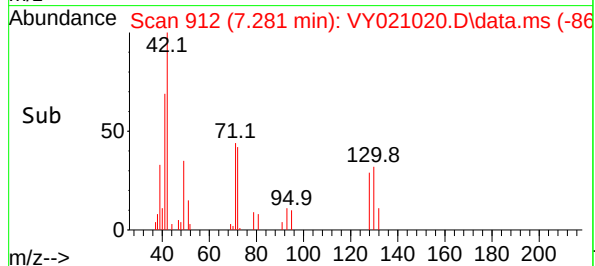
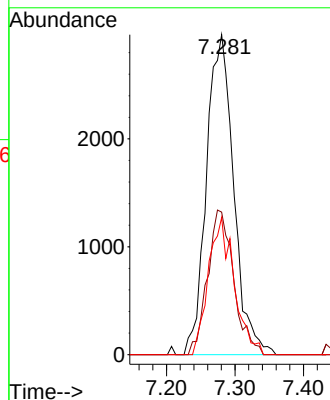
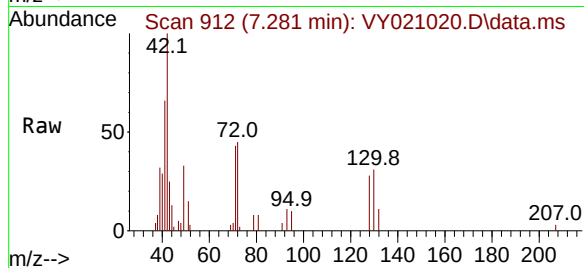
ClientSampleId :

VSTDIC005

Tgt Ion:	42	Resp:	819
Ion	Ratio	Lower	Upper
42	100		
72	43.4	39.3	58.9
71	40.6	36.1	54.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#30

Chloroform

Concen: 6.669 ug/l

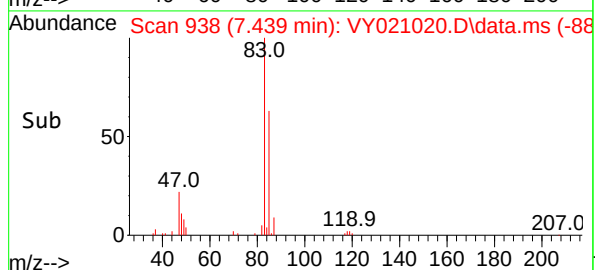
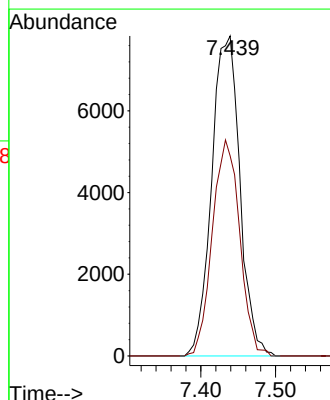
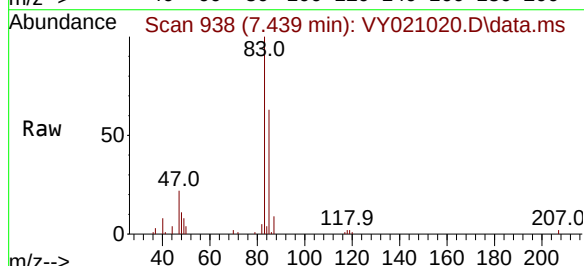
RT: 7.439 min Scan# 938

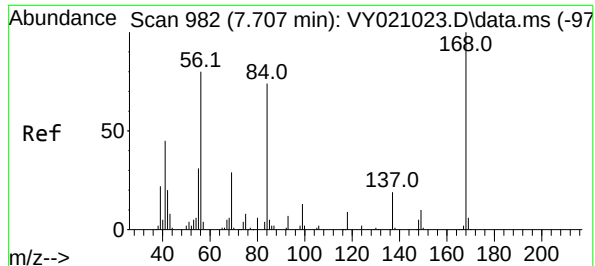
Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:	83	Resp:	20552
Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.9	79.3





#31

Cyclohexane

Concen: 7.295 ug/l

RT: 7.713 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 2028

Ion Ratio Lower Upper

56 100

69 54.9 27.7 41.5

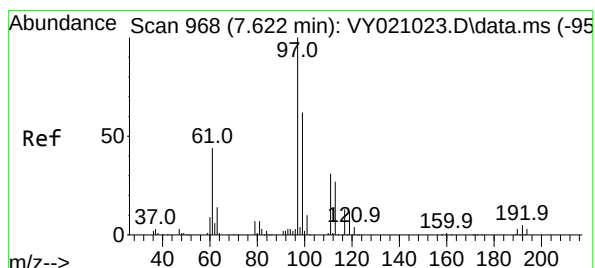
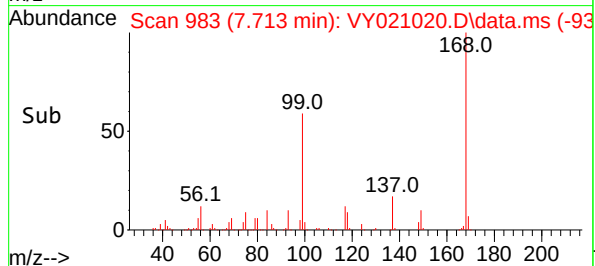
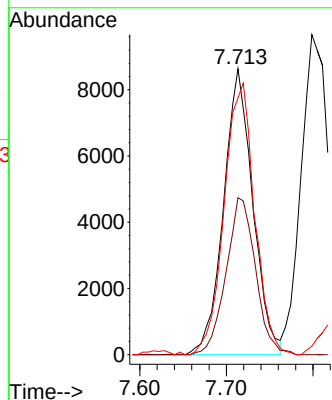
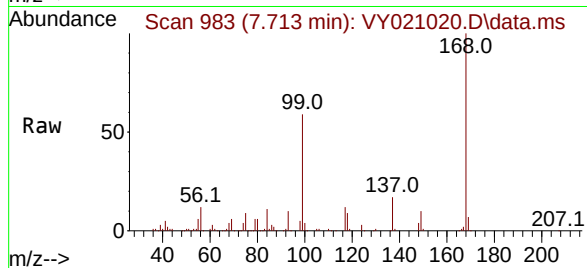
84 88.9 77.5 116.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#32

1,1,1-Trichloroethane

Concen: 6.645 ug/l

RT: 7.628 min Scan# 969

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

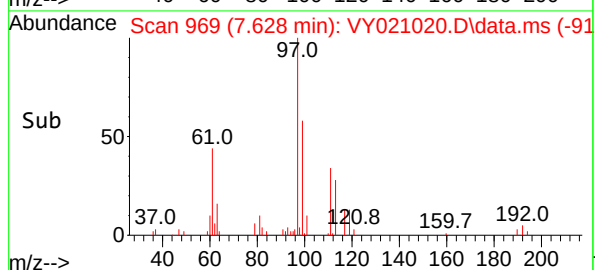
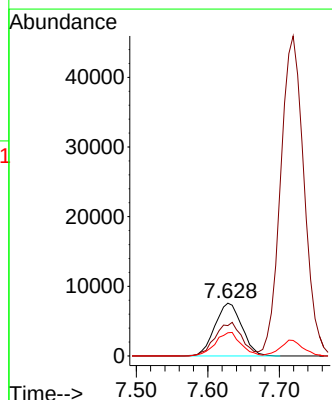
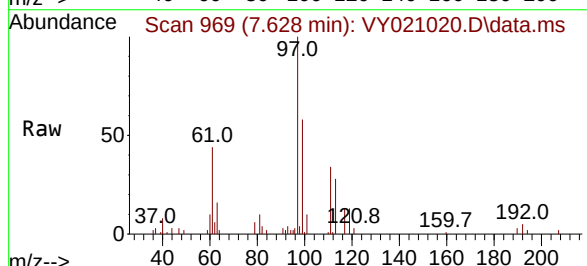
Tgt Ion: 97 Resp: 19818

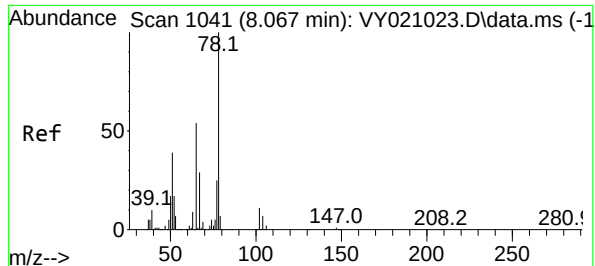
Ion Ratio Lower Upper

97 100

99 63.2 51.4 77.0

61 42.5 31.4 47.0





#33

1,2-Dichloroethane-d4

Concen: 6.651 ug/l

RT: 8.079 min Scan# 1041

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 10514

Ion Ratio Lower Upper

65 100

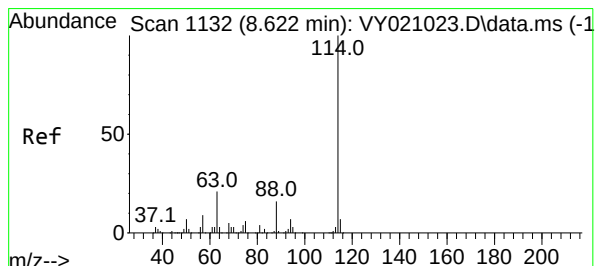
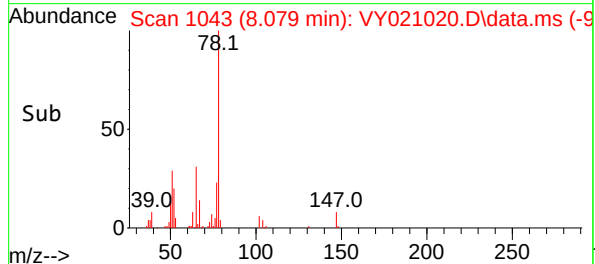
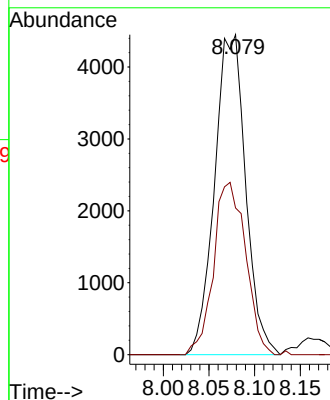
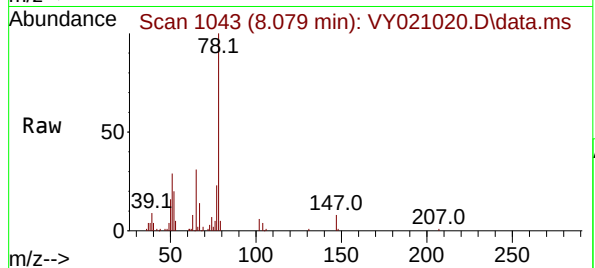
67 55.5 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

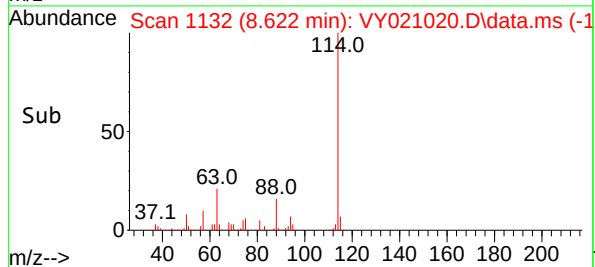
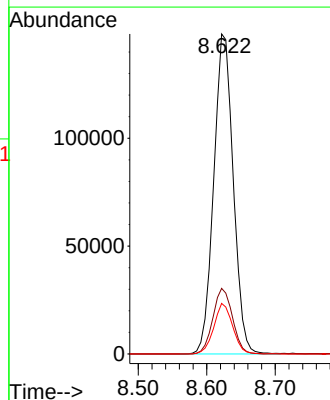
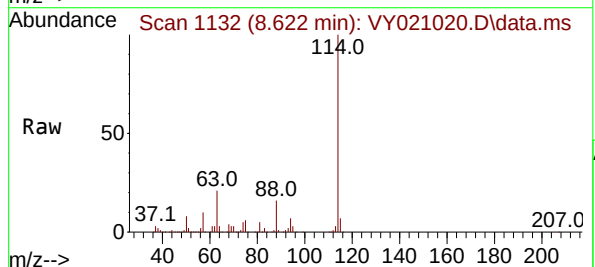
Tgt Ion:114 Resp: 293189

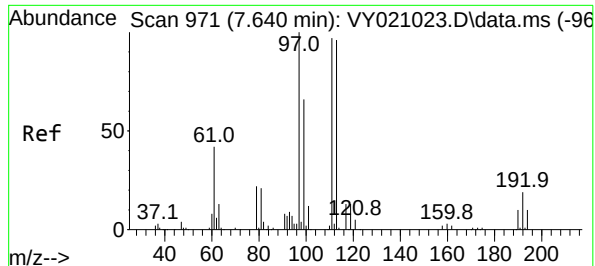
Ion Ratio Lower Upper

114 100

63 20.5 0.0 37.2

88 15.8 0.0 29.6





#35

Dibromofluoromethane

Concen: 5.840 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

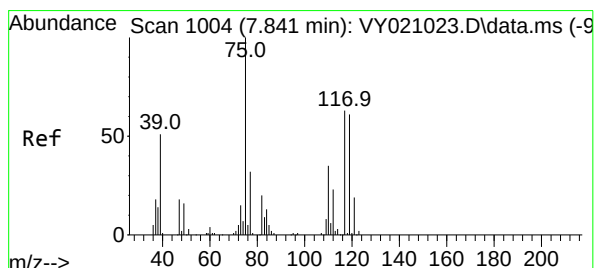
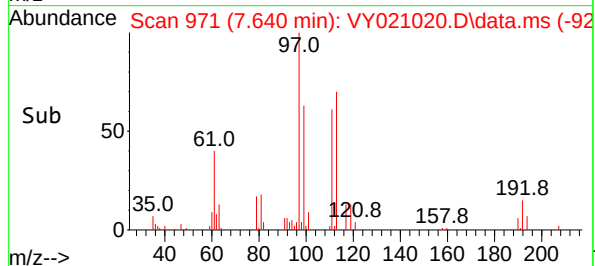
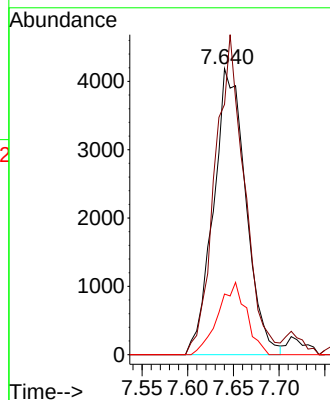
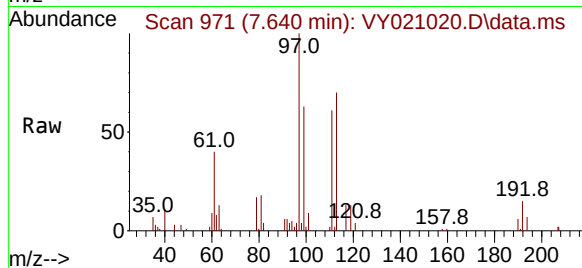
ClientSampleId :

VSTDIC005

Tgt Ion:	113	Resp:	10294
Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.6	123.8
192	22.3	16.8	25.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#36

1,1-Dichloropropene

Concen: 6.231 ug/l

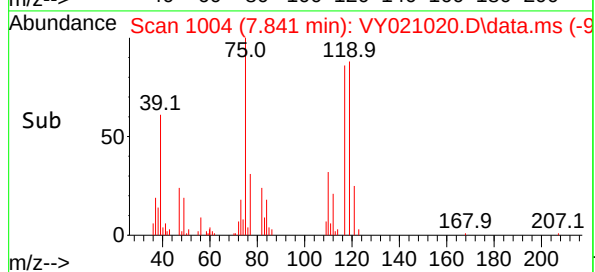
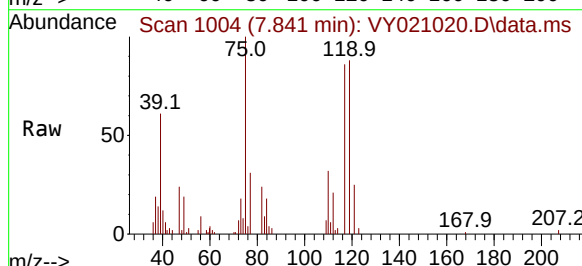
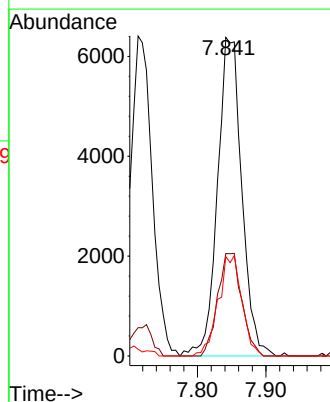
RT: 7.841 min Scan# 1004

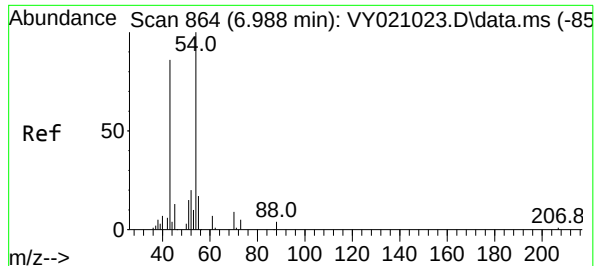
Delta R.T. 0.000 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

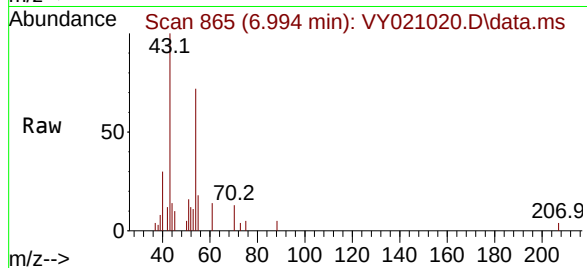
Tgt Ion:	75	Resp:	15667
Ion	Ratio	Lower	Upper
75	100		
110	31.9	18.4	55.2
77	30.6	24.9	37.3





#37
Ethyl Acetate
Concen: 6.809 ug/l
RT: 6.994 min Scan# 80
Delta R.T. 0.007 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

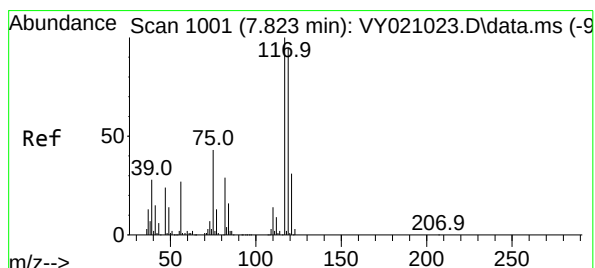
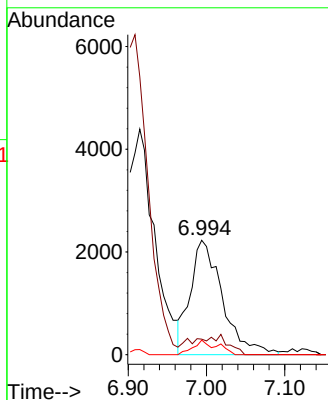
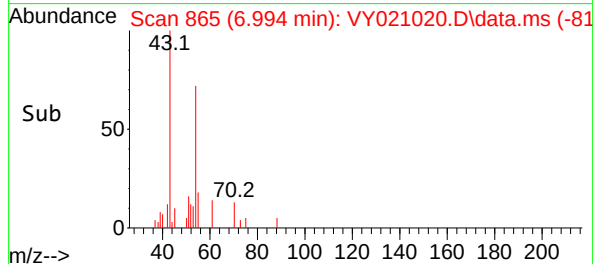
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 638
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.0
70 6.2 9.6 14.4

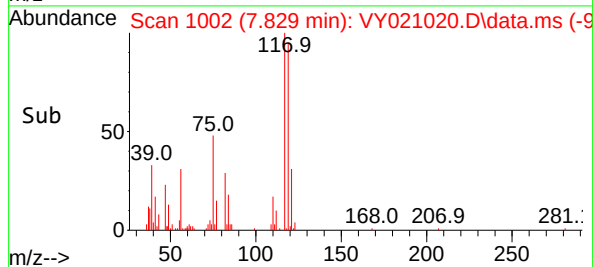
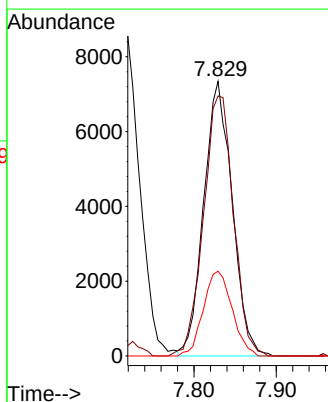
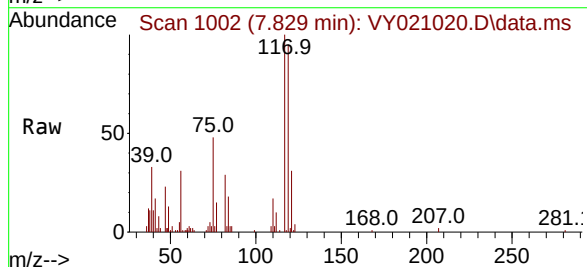
Manual Integrations
APPROVED

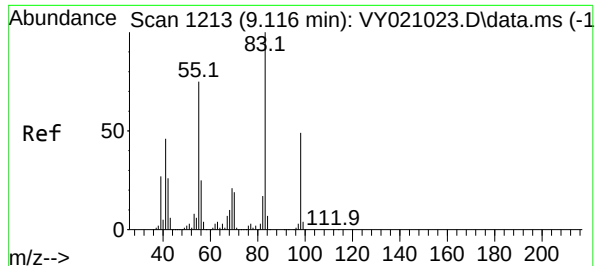
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#38
Carbon Tetrachloride
Concen: 5.691 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion:117 Resp: 17709
Ion Ratio Lower Upper
117 100
119 94.7 75.0 112.6
121 30.9 24.2 36.2





#39

Methylcyclohexane

Concen: 5.287 ug/l

RT: 9.116 min Scan# 1045

Delta R.T. 0.000 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 17860

Ion Ratio Lower Upper

83 100

55 77.6 54.9 82.3

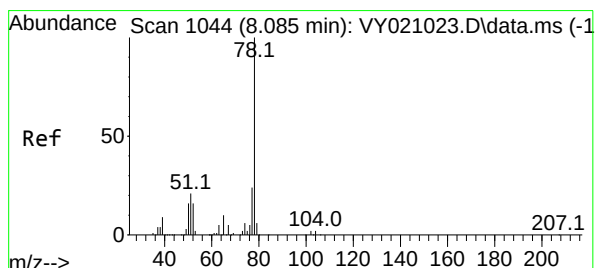
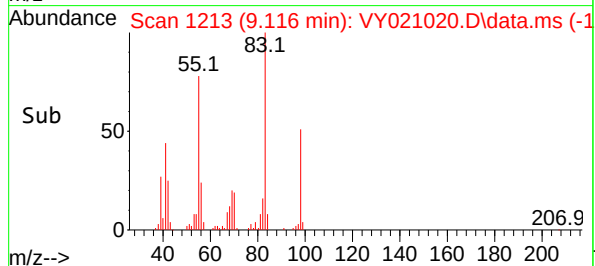
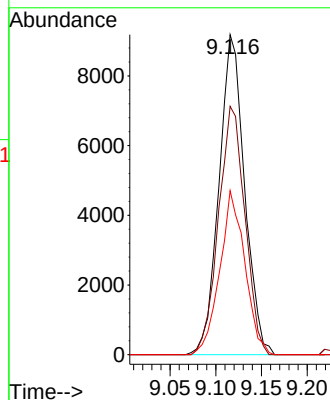
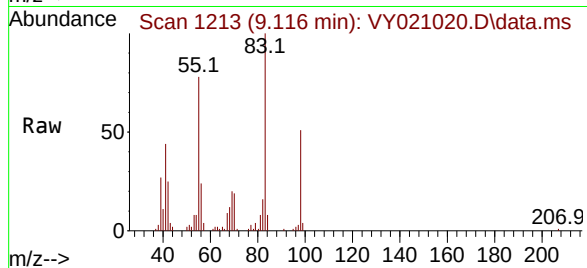
98 51.3 40.5 60.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#40

Benzene

Concen: 5.991 ug/l

RT: 8.091 min Scan# 1045

Delta R.T. 0.006 min

Lab File: VY021020.D

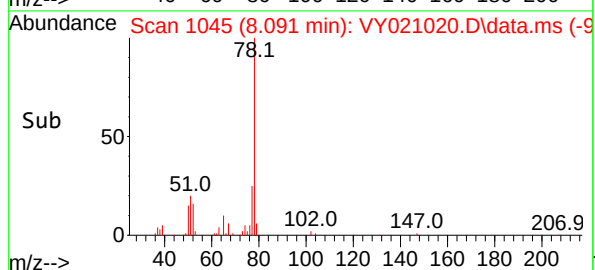
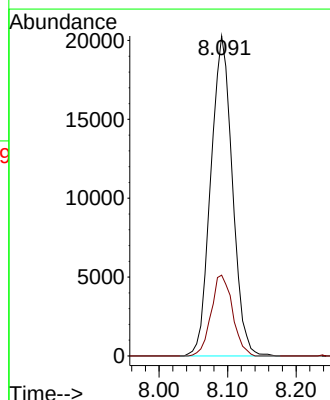
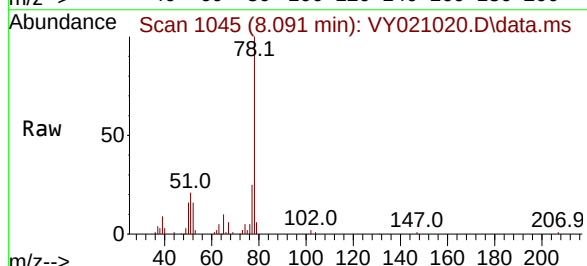
Acq: 03 Feb 2025 10:35

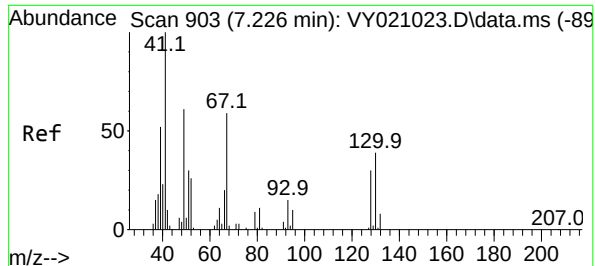
Tgt Ion: 78 Resp: 44324

Ion Ratio Lower Upper

78 100

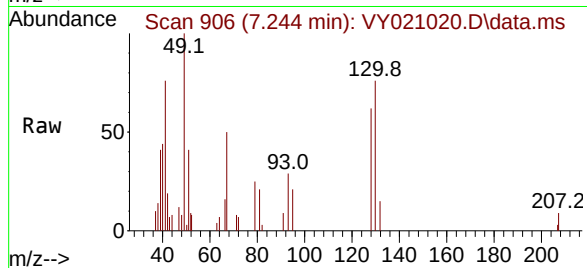
77 25.2 19.4 29.2





#41
Methacrylonitrile
Concen: 7.345 ug/l m
RT: 7.244 min Scan# 903
Delta R.T. 0.019 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

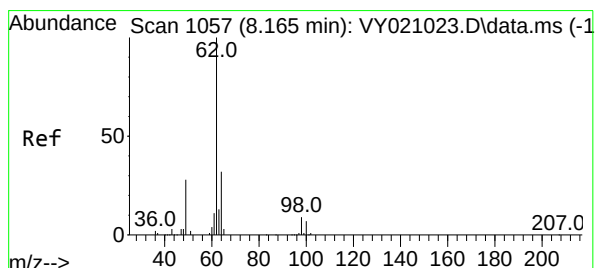
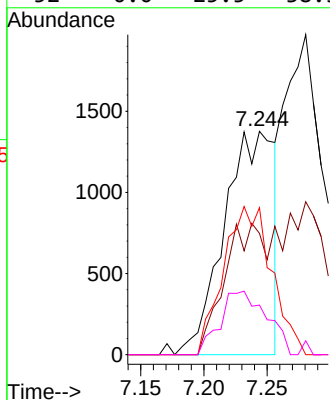
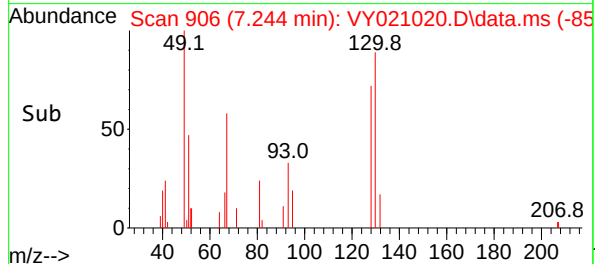
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005



Tgt Ion: 41 Resp: 3810
Ion Ratio Lower Upper
41 100
39 0.0 41.6 62.4
67 0.0 63.8 95.6
52 0.0 25.5 38.3

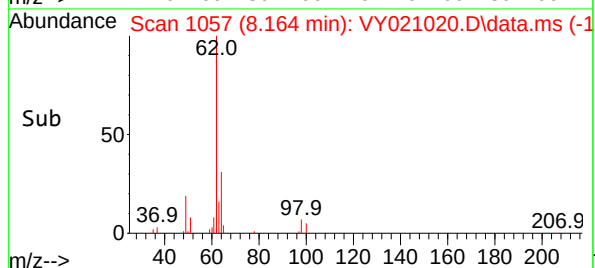
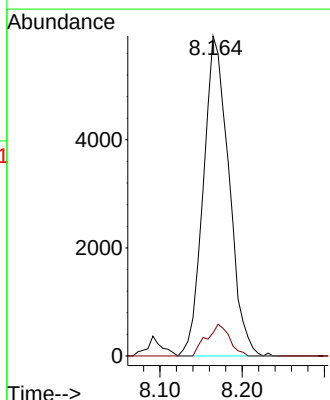
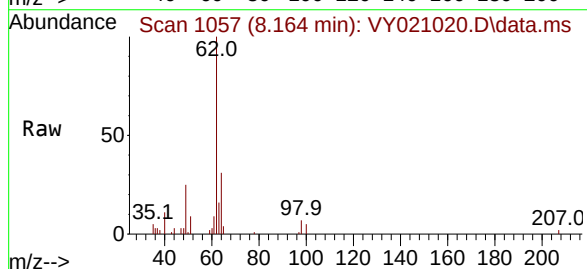
Manual Integrations
APPROVED

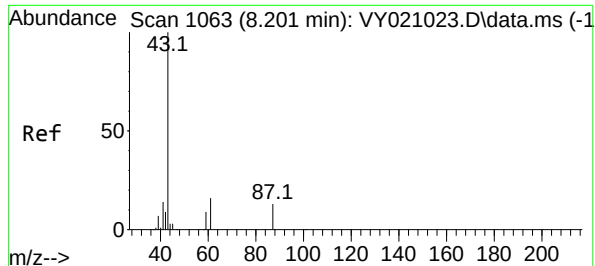
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#42
1,2-Dichloroethane
Concen: 6.801 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 62 Resp: 12762
Ion Ratio Lower Upper
62 100
98 8.9 0.0 19.4





#43

Isopropyl Acetate

Concen: 6.321 ug/l

RT: 8.207 min Scan# 1064

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

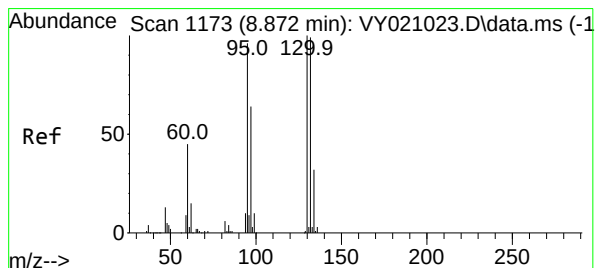
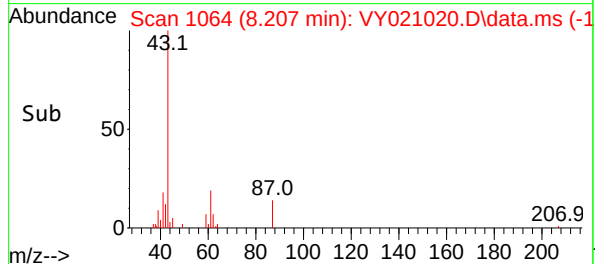
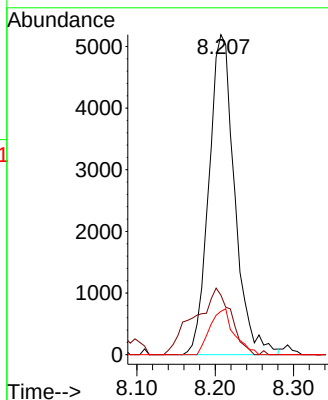
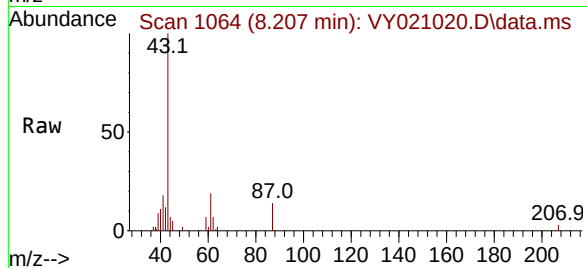
VSTDIC005

Tgt Ion:	43	Resp:	11839
Ion	Ratio	Lower	Upper
43	100		
61	29.5	15.8	23.6
87	13.3	12.5	18.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#44

Trichloroethene

Concen: 5.756 ug/l

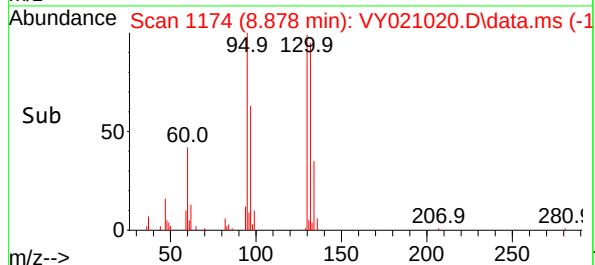
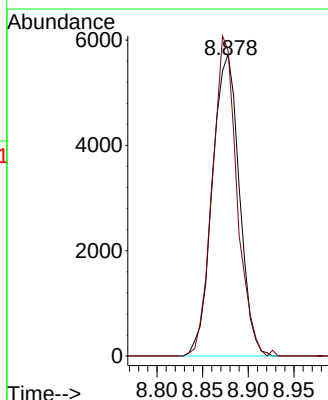
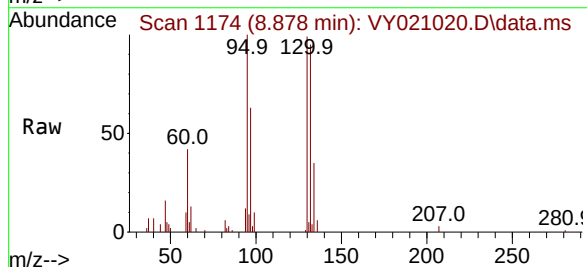
RT: 8.878 min Scan# 1174

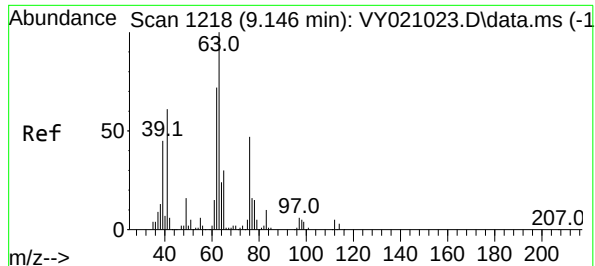
Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:	130	Resp:	11751
Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	189.6





#45

1,2-Dichloropropane

Concen: 6.318 ug/l

RT: 9.146 min Scan# 1218

Delta R.T. 0.000 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 1047

Ion Ratio Lower Upper

63 100

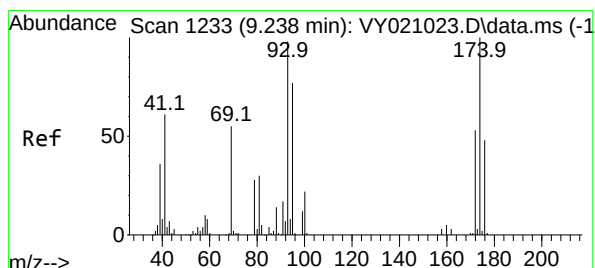
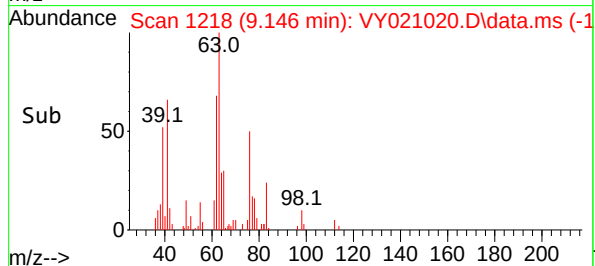
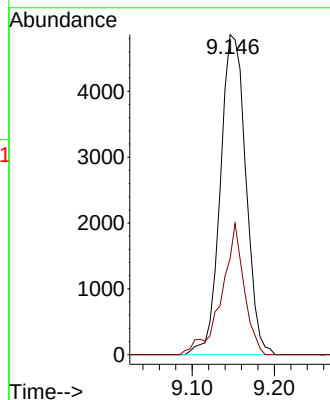
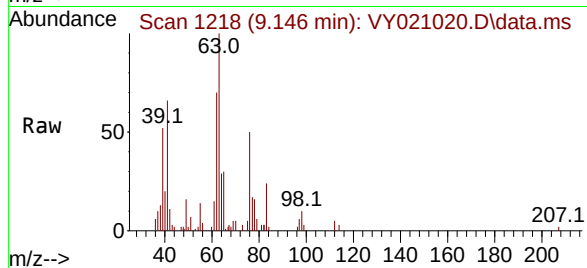
65 30.1 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#46

Dibromomethane

Concen: 6.098 ug/l

RT: 9.244 min Scan# 1234

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

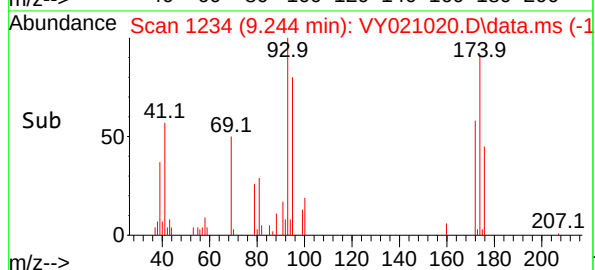
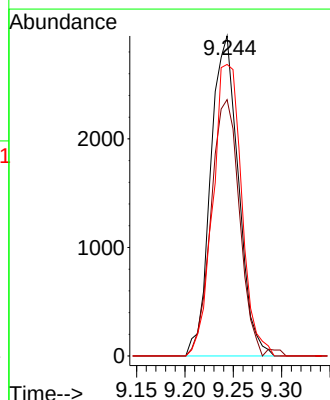
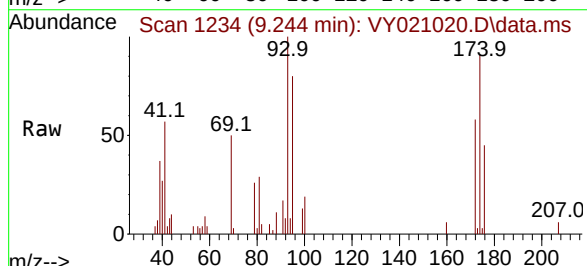
Tgt Ion: 93 Resp: 5885

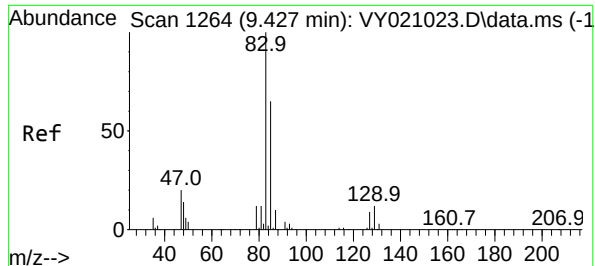
Ion Ratio Lower Upper

93 100

95 82.6 65.8 98.8

174 94.4 88.1 132.1





#47

Bromodichloromethane

Concen: 6.107 ug/l

RT: 9.433 min Scan# 1265

Delta R.T. 0.007 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

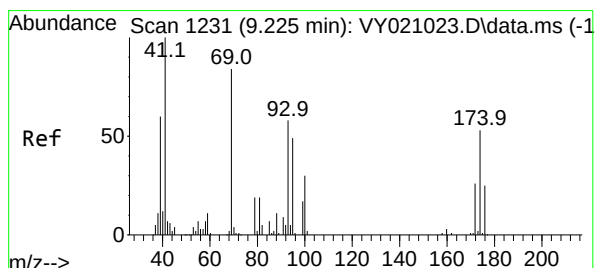
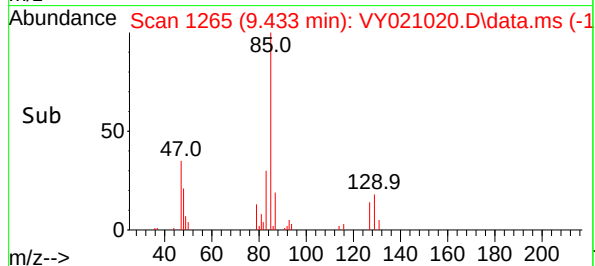
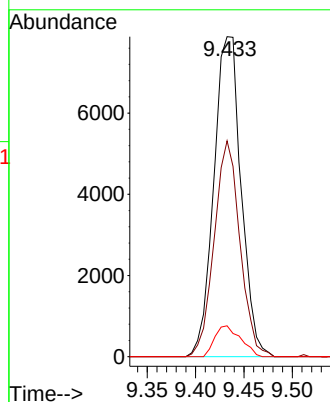
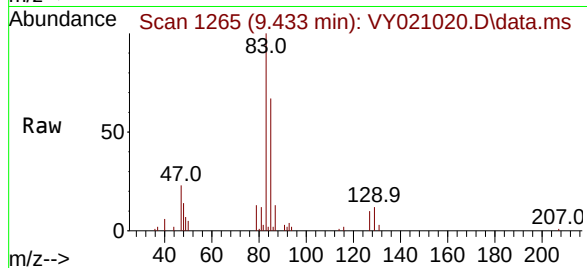
VSTDICC005

Tgt Ion:	83	Resp:	1547
Ion	Ratio	Lower	Upper
83	100		
85	67.5	49.6	74.4
127	9.6	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#48

Methyl methacrylate

Concen: 5.922 ug/l

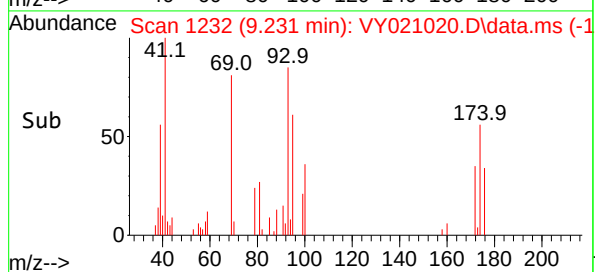
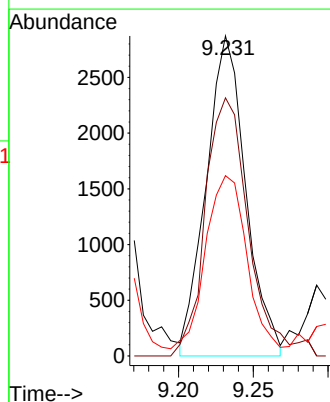
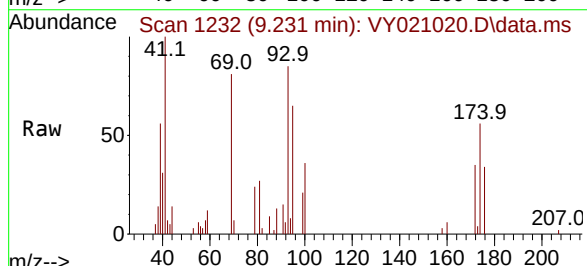
RT: 9.231 min Scan# 1232

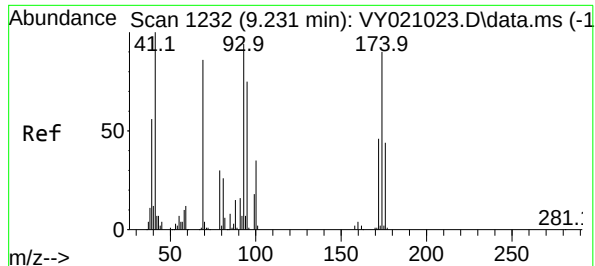
Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:	41	Resp:	5280
Ion	Ratio	Lower	Upper
41	100		
69	88.4	75.6	113.4
39	56.6	41.3	61.9





#49

1,4-Dioxane

Concen: 91.663 ug/l

RT: 9.250 min Scan# 11

Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

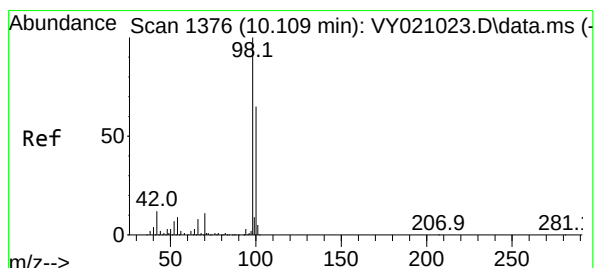
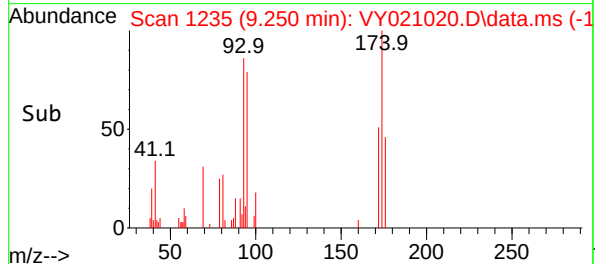
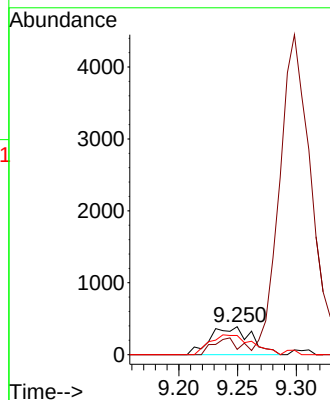
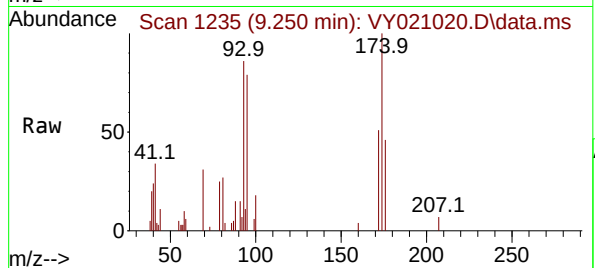
Tgt Ion:	88	Resp:	940
Ion	Ratio	Lower	Upper
88	100		
43	39.6	24.2	36.4
58	73.5	57.3	85.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#50

Toluene-d8

Concen: 5.520 ug/l

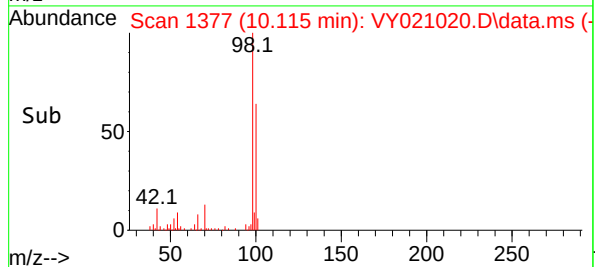
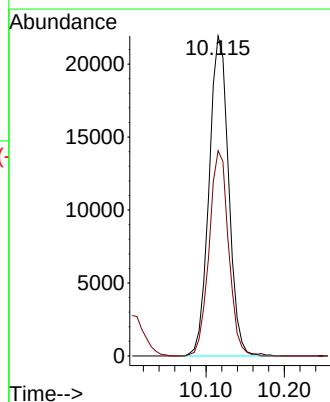
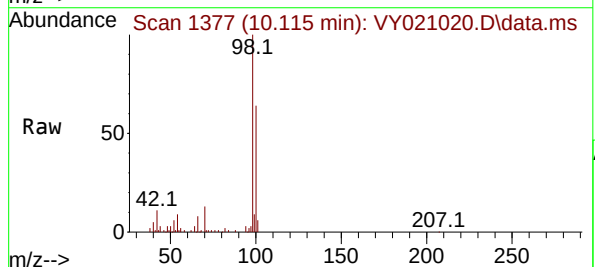
RT: 10.115 min Scan# 1377

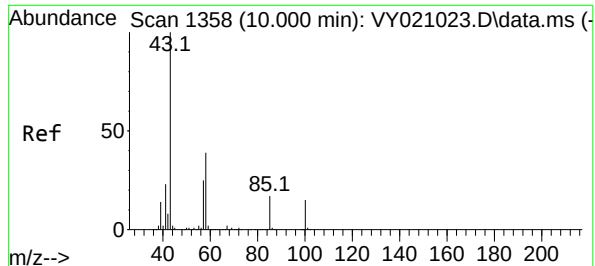
Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:	98	Resp:	37973
Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.6	79.0





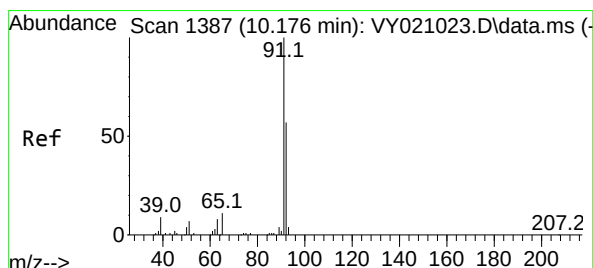
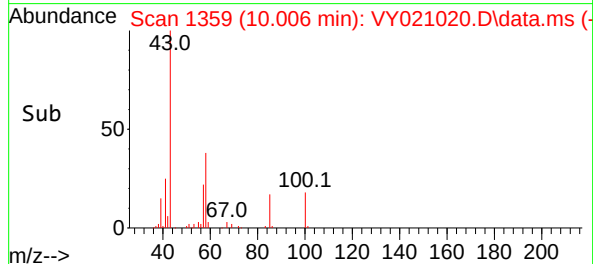
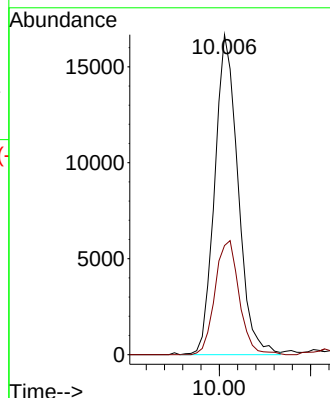
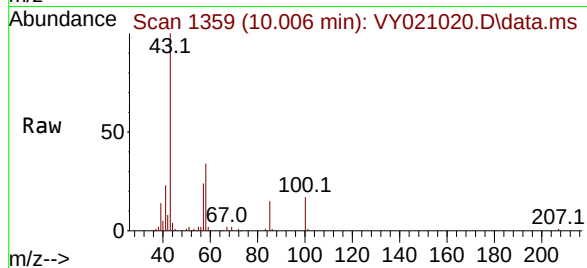
#51
4-Methyl-2-Pentanone
Concen: 30.730 ug/l
RT: 10.006 min Scan# 1358
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 2957
Ion Ratio Lower Upper
43 100
58 36.9 33.8 50.8

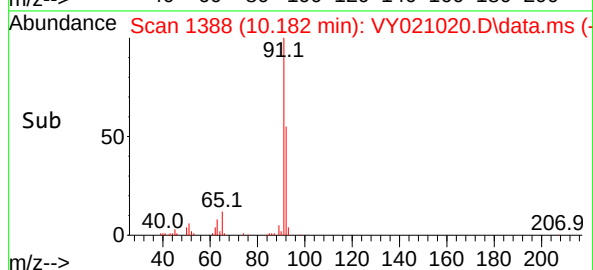
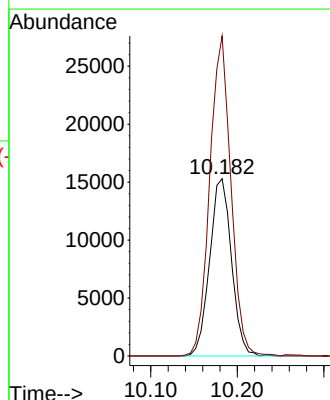
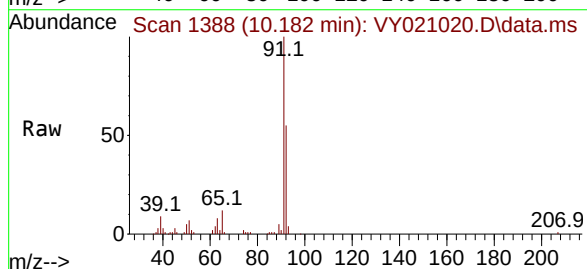
Manual Integrations
APPROVED

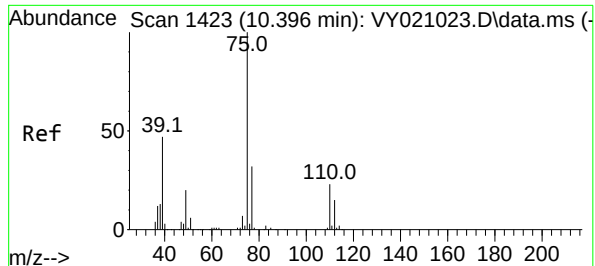
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#52
Toluene
Concen: 5.572 ug/l
RT: 10.182 min Scan# 1388
Delta R.T. 0.007 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 92 Resp: 26760
Ion Ratio Lower Upper
92 100
91 174.8 135.8 203.8





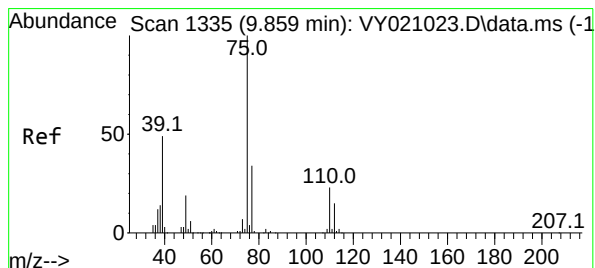
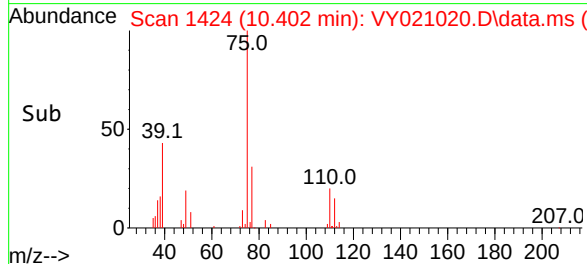
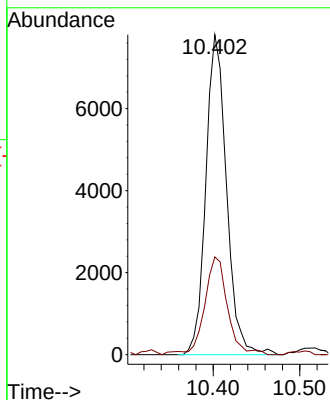
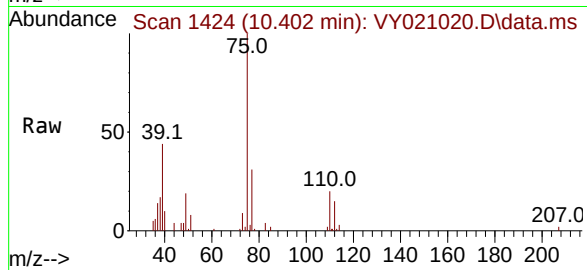
#53
t-1,3-Dichloropropene
Concen: 5.639 ug/l
RT: 10.402 min Scan# 1424
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 1293
Ion Ratio Lower Upper
75 100
77 30.5 25.9 38.9

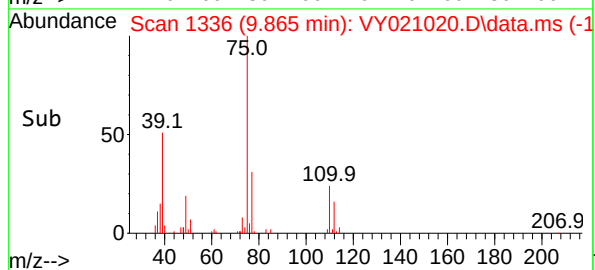
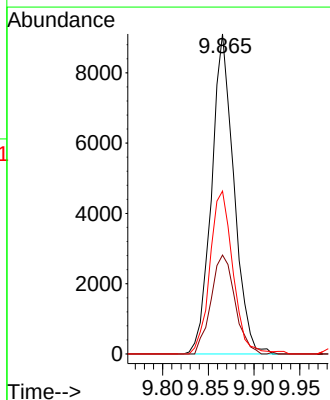
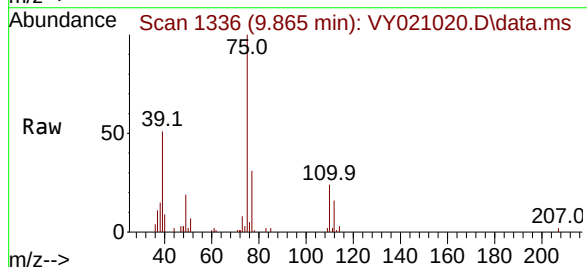
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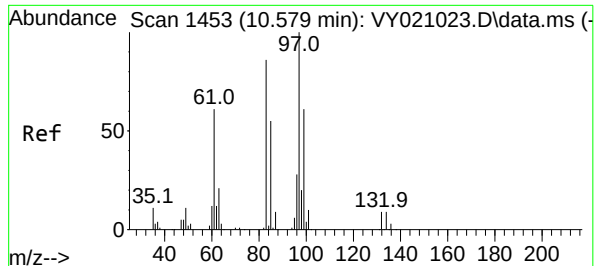
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#54
cis-1,3-Dichloropropene
Concen: 5.650 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 75 Resp: 15488
Ion Ratio Lower Upper
75 100
77 30.9 25.4 38.0
39 50.9 32.2 48.2#





#55

1,1,2-Trichloroethane

Concen: 5.961 ug/l

RT: 10.579 min Scan# 1453

Delta R.T. 0.000 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 765

Ion Ratio Lower Upper

97 100

83 77.3 67.7 101.5

85 45.1 43.4 65.2

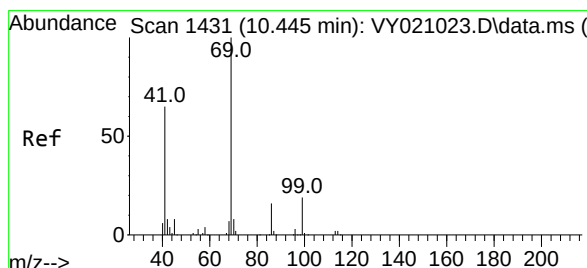
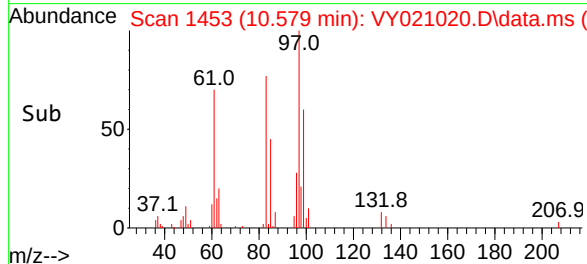
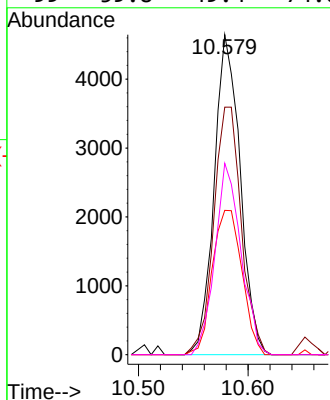
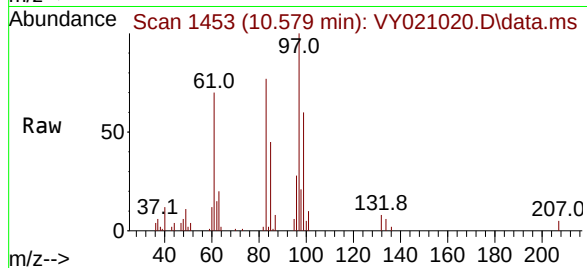
99 59.8 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#56

Ethyl methacrylate

Concen: 5.018 ug/l

RT: 10.451 min Scan# 1432

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

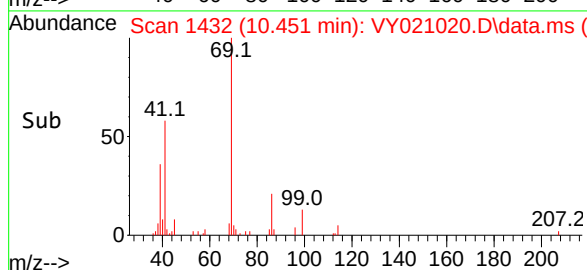
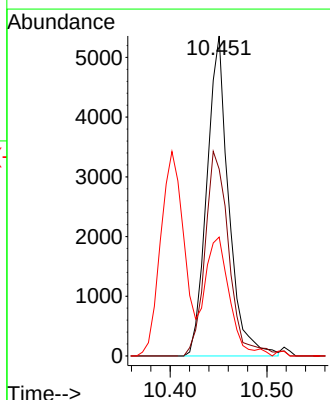
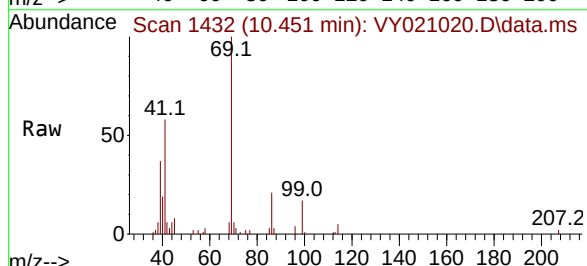
Tgt Ion: 69 Resp: 8418

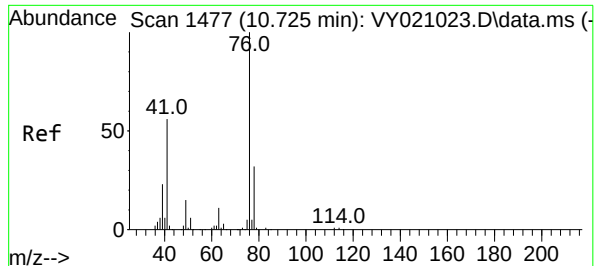
Ion Ratio Lower Upper

69 100

41 70.1 46.3 69.5#

39 41.3 24.5 36.7#





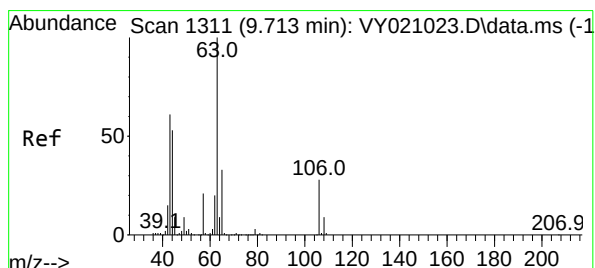
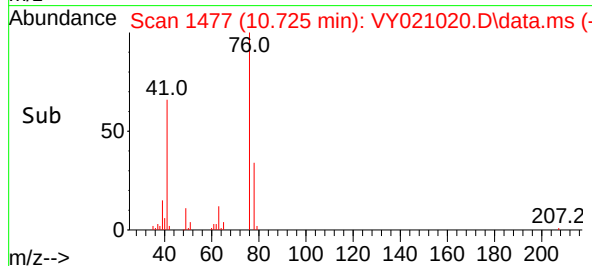
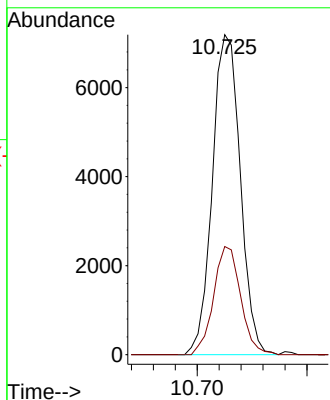
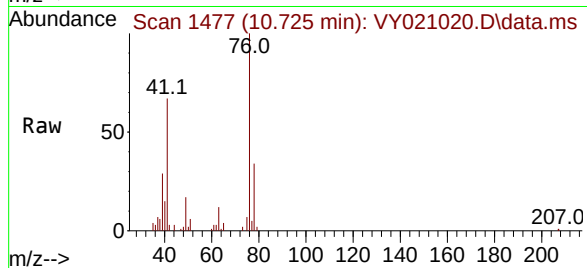
#57
1,3-Dichloropropane
Concen: 5.845 ug/l
RT: 10.725 min Scan# 1477
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 12714
Ion Ratio Lower Upper
76 100
78 32.8 25.8 38.6

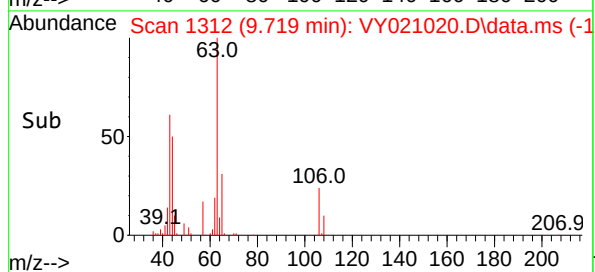
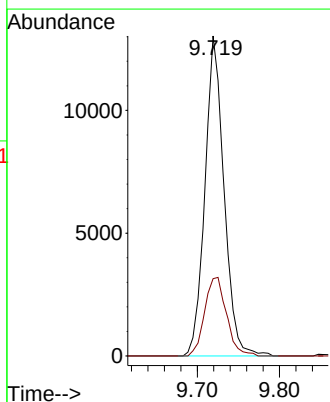
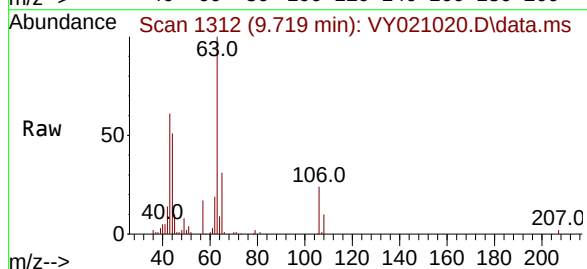
Manual Integrations
APPROVED

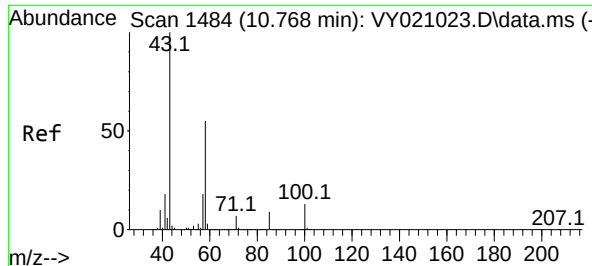
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#58
2-Chloroethyl Vinyl ether
Concen: 29.542 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.007 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 63 Resp: 21035
Ion Ratio Lower Upper
63 100
106 28.1 24.7 37.1





#59

2-Hexanone

Concen: 29.030 ug/l

RT: 10.774 min Scan# 1485

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 1815

Ion Ratio Lower Upper

43 100

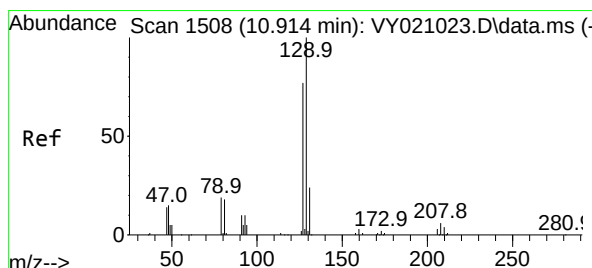
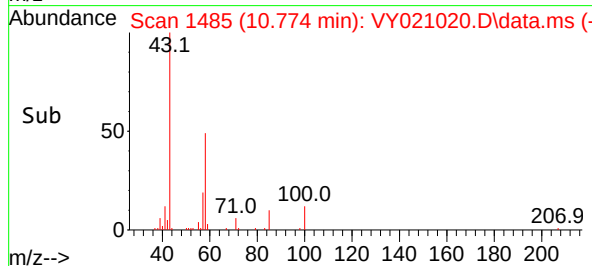
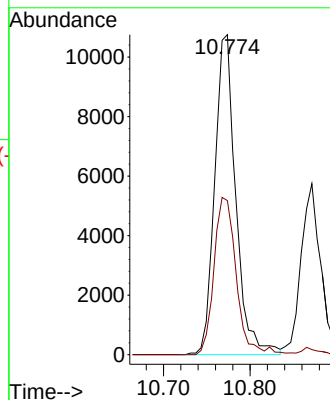
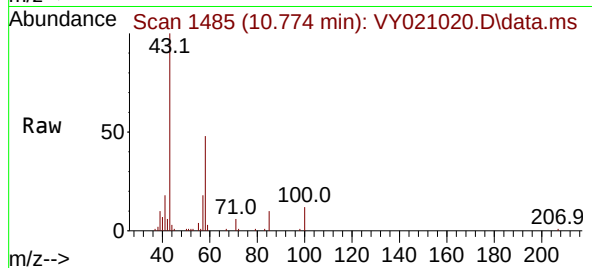
58 51.9 29.8 89.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#60

Dibromochloromethane

Concen: 5.744 ug/l

RT: 10.920 min Scan# 1509

Delta R.T. 0.006 min

Lab File: VY021020.D

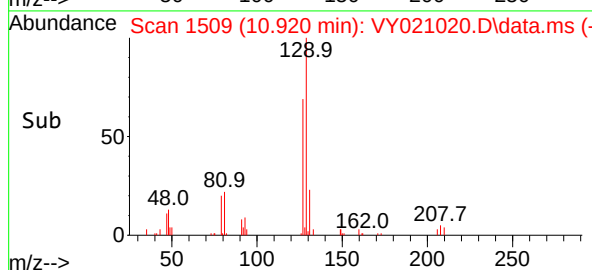
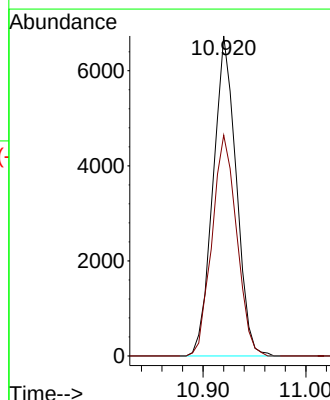
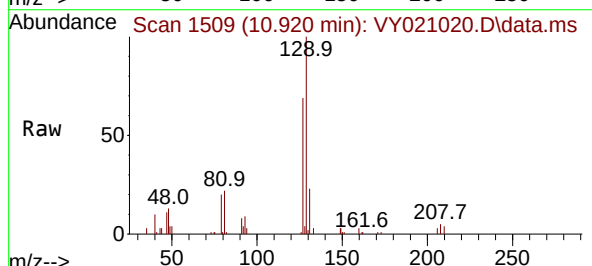
Acq: 03 Feb 2025 10:35

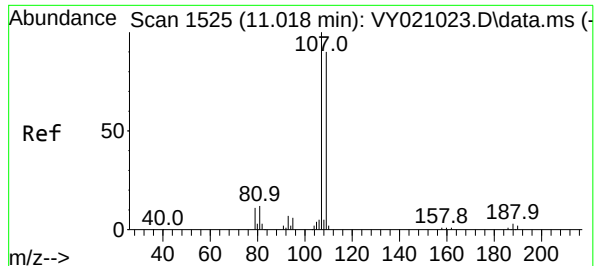
Tgt Ion:129 Resp: 10511

Ion Ratio Lower Upper

129 100

127 73.5 38.5 115.3





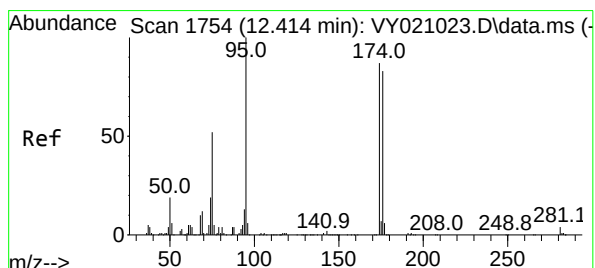
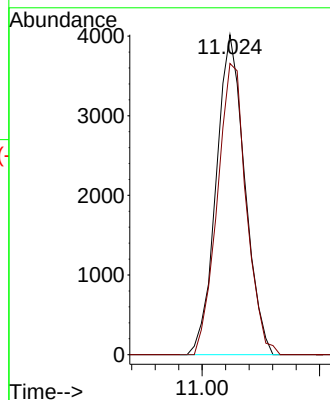
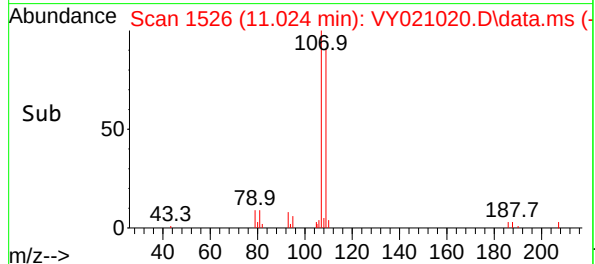
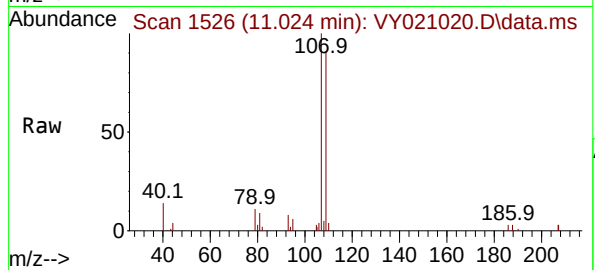
#61
1,2-Dibromoethane
Concen: 5.555 ug/l
RT: 11.024 min Scan# 1526
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tgt Ion:107 Resp: 6810
Ion Ratio Lower Upper
107 100
109 91.9 76.6 114.8

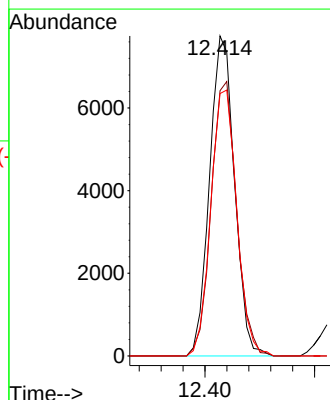
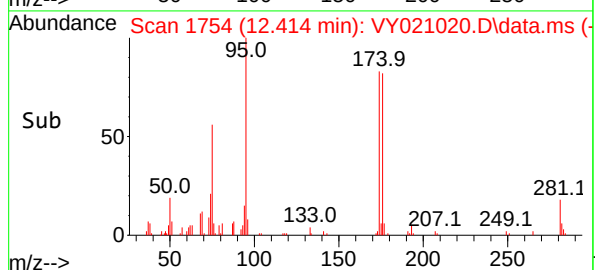
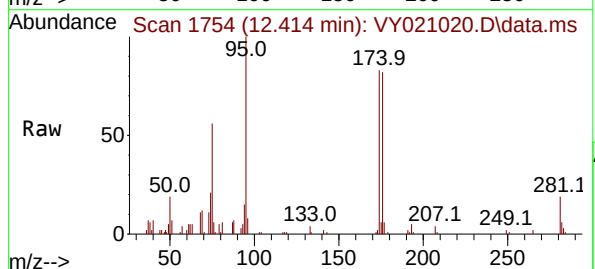
Manual Integrations
APPROVED

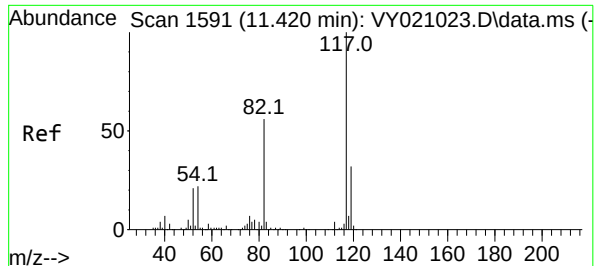
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#62
4-Bromofluorobenzene
Concen: 5.301 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

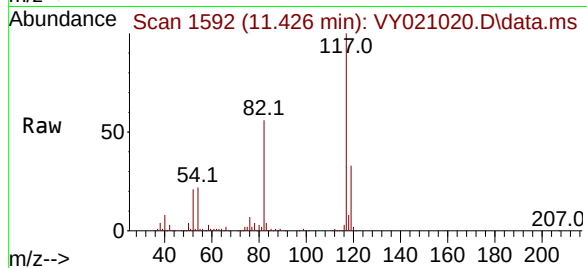
Tgt Ion: 95 Resp: 12237
Ion Ratio Lower Upper
95 100
174 87.1 0.0 181.2
176 86.6 0.0 175.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

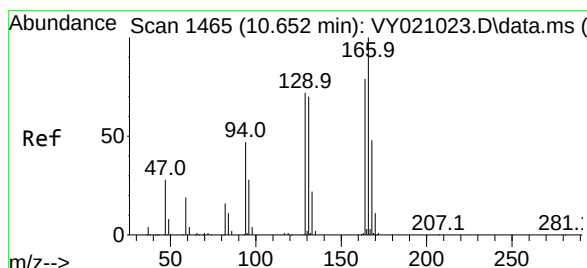
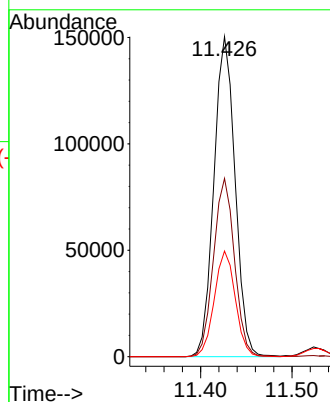
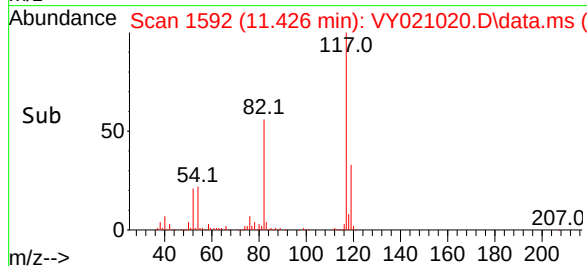
Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005



Tgt Ion:117 Resp: 24225
Ion Ratio Lower Upper
117 100
82 55.7 44.2 66.2
119 33.0 25.9 38.9

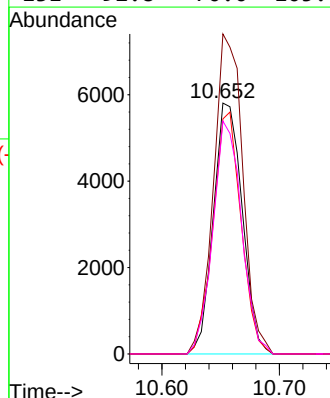
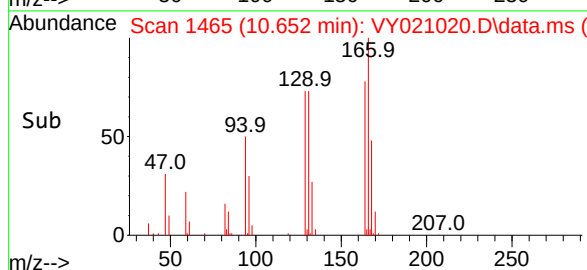
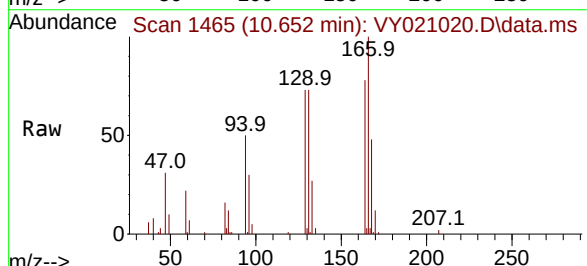
Manual Integrations
APPROVED

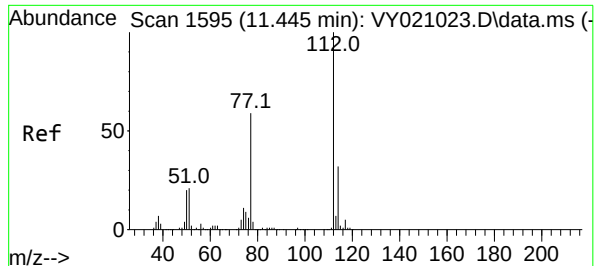
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#64
Tetrachloroethene
Concen: 5.426 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion:164 Resp: 9915
Ion Ratio Lower Upper
164 100
166 127.6 100.4 150.6
129 93.7 70.8 106.2
131 92.8 70.0 105.0





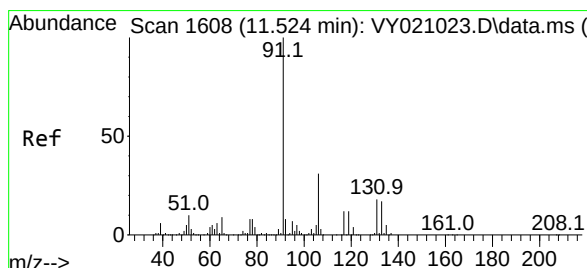
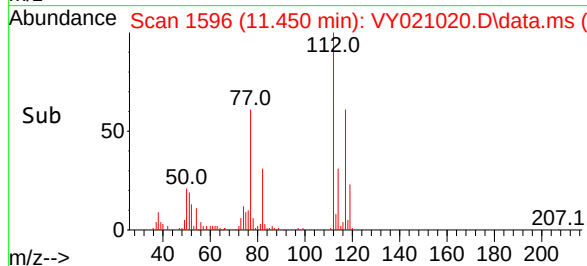
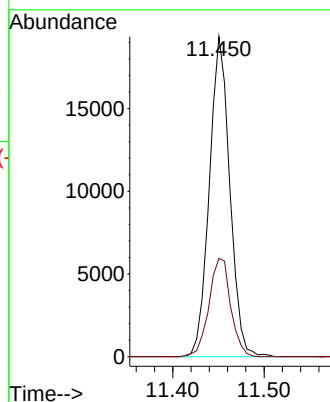
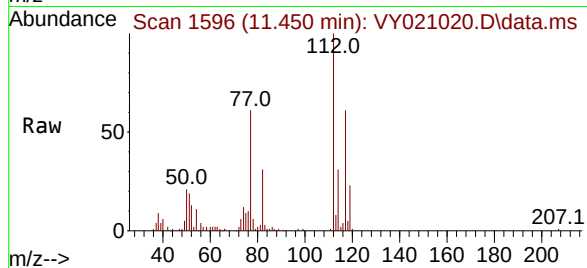
#65
Chlorobenzene
Concen: 5.872 ug/l
RT: 11.450 min Scan# 1595
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tgt Ion:112 Resp: 2997
Ion Ratio Lower Upper
112 100
114 30.8 24.6 37.0

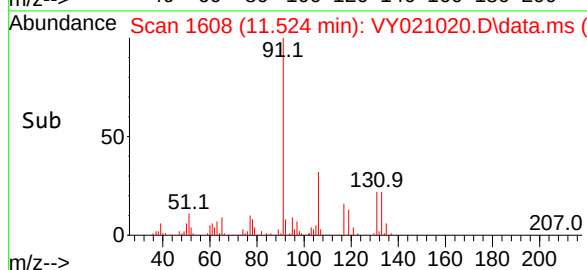
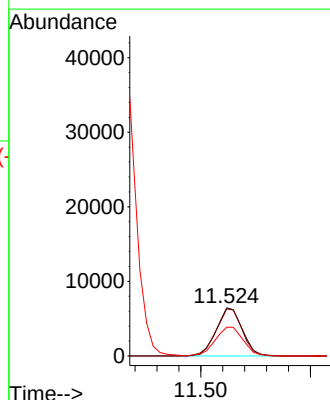
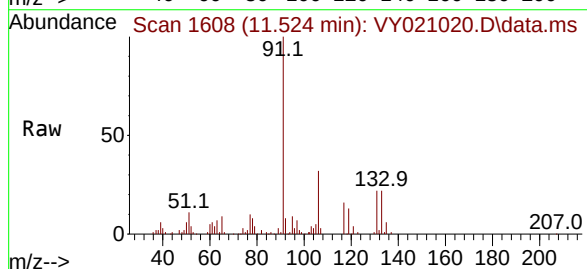
Manual Integrations
APPROVED

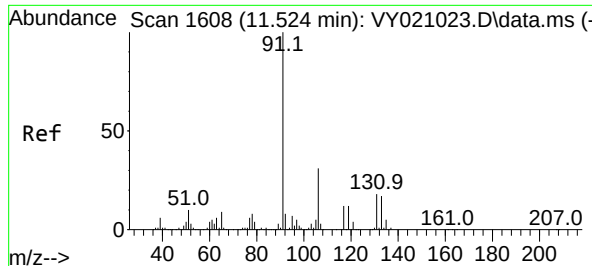
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 5.810 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion:131 Resp: 10524
Ion Ratio Lower Upper
131 100
133 99.6 48.7 146.1
119 64.8 31.4 94.3





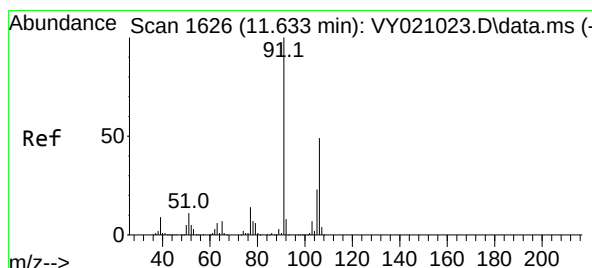
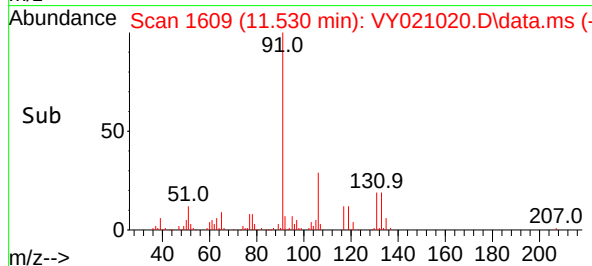
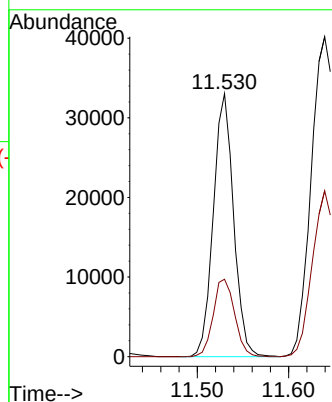
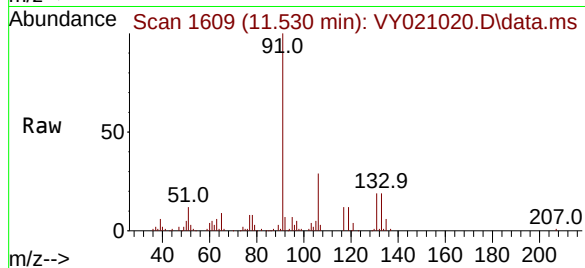
#67
Ethyl Benzene
Concen: 5.760 ug/l
RT: 11.530 min Scan# 1609
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 50904
Ion Ratio Lower Upper
91 100
106 29.4 24.9 37.3

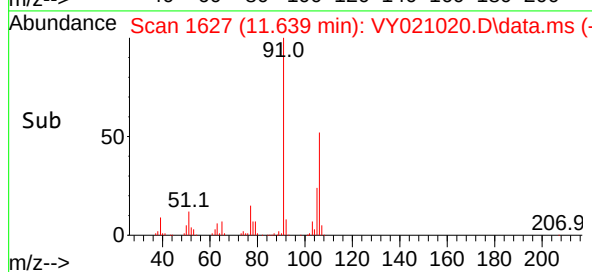
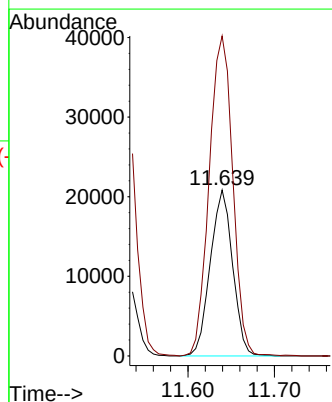
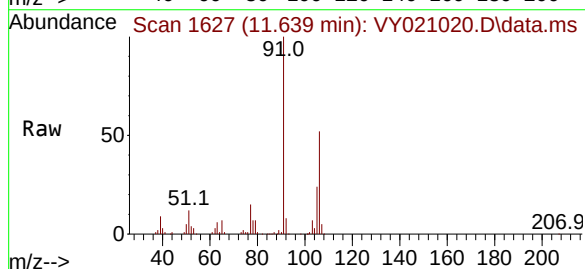
Manual Integrations
APPROVED

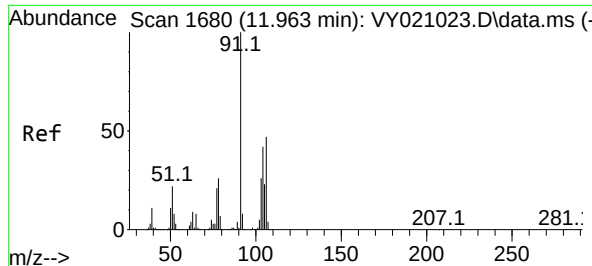
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#68
m/p-Xylenes
Concen: 11.015 ug/l
RT: 11.639 min Scan# 1627
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion:106 Resp: 37399
Ion Ratio Lower Upper
106 100
91 203.1 160.0 240.0





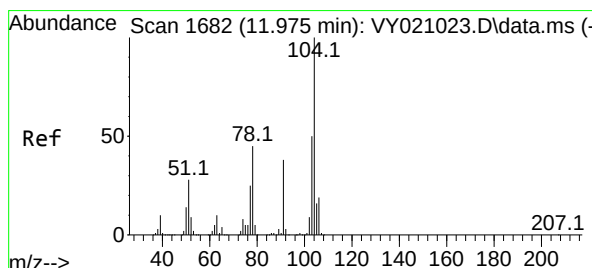
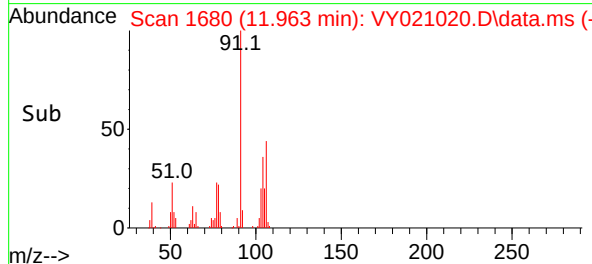
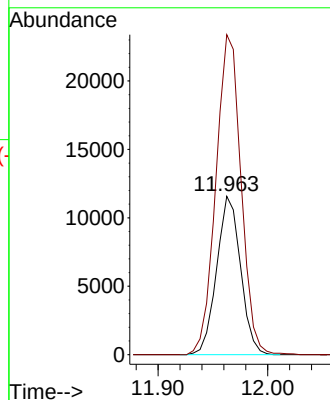
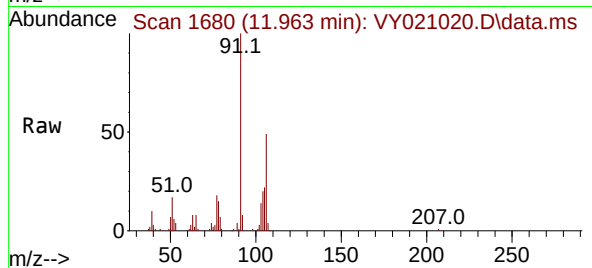
#69
o-Xylene
Concen: 5.550 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tgt Ion:106 Resp: 17519
Ion Ratio Lower Upper
106 100
91 212.9 105.8 317.6

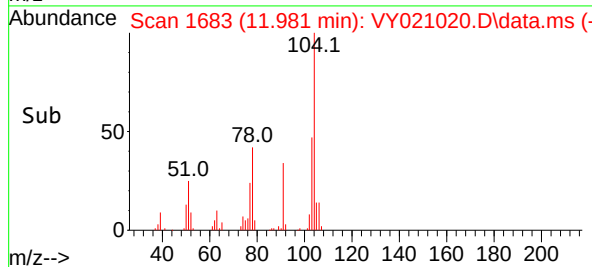
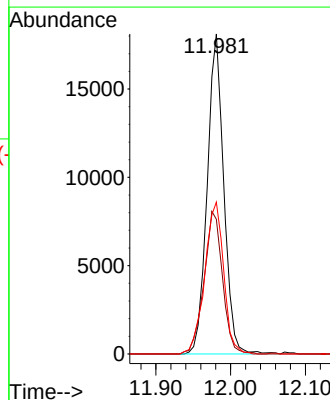
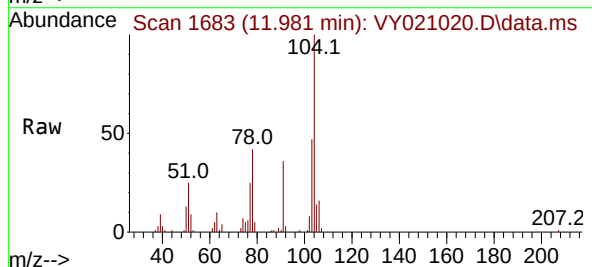
Manual Integrations
APPROVED

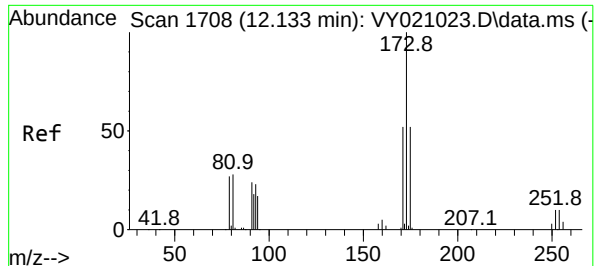
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#70
Styrene
Concen: 5.333 ug/l
RT: 11.981 min Scan# 1683
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion:104 Resp: 27946
Ion Ratio Lower Upper
104 100
78 49.7 39.0 58.4
103 54.1 43.7 65.5





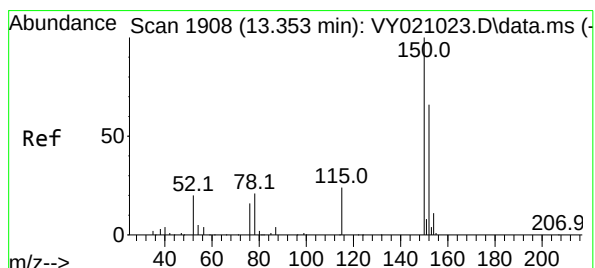
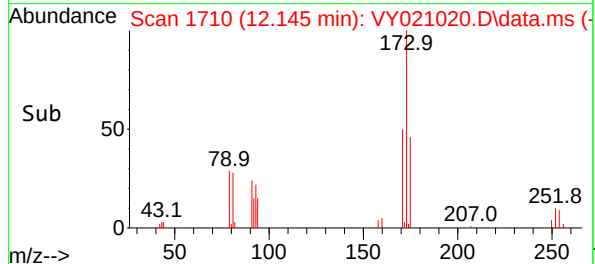
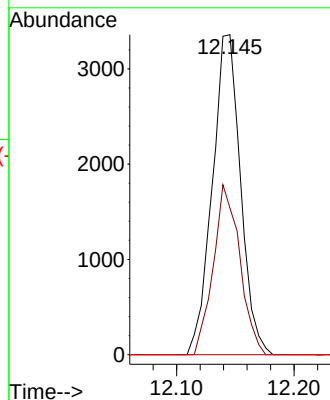
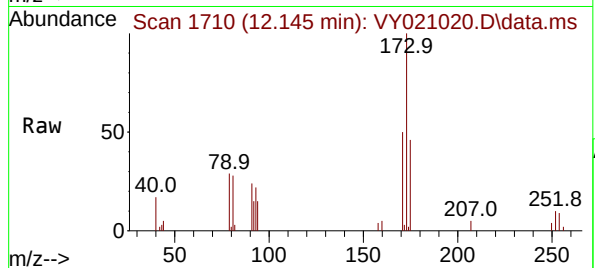
#71
Bromoform
Concen: 5.252 ug/l
RT: 12.145 min Scan# 1710
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:	173	Resp:	560
Ion Ratio	Lower	Upper	
173	100		
175	49.8	24.1	72.2
254	0.0	0.0	0.0

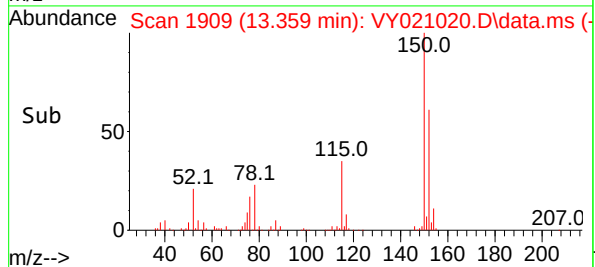
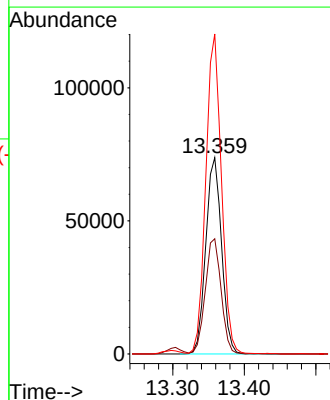
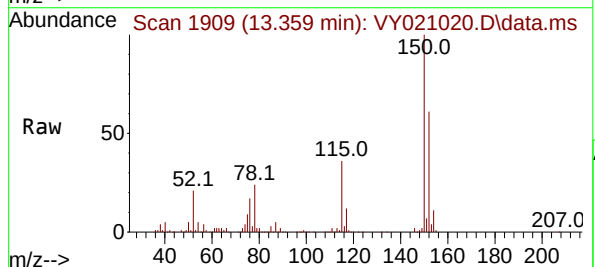
Manual Integrations
APPROVED

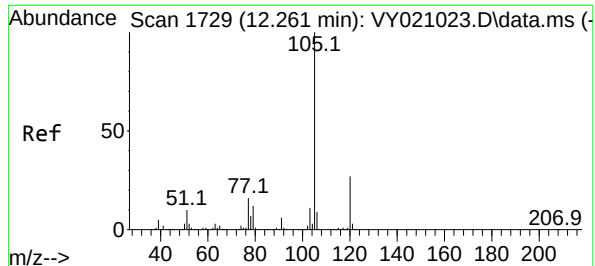
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion:	152	Resp:	113107
Ion Ratio	Lower	Upper	
152	100		
115	58.9	28.4	85.2
150	160.9	0.0	342.8





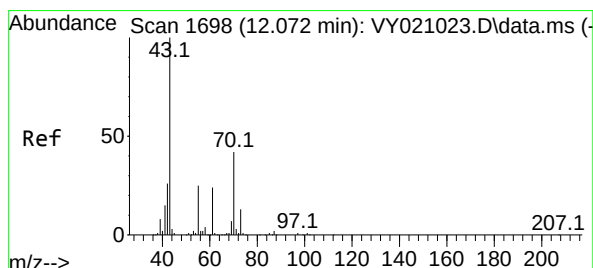
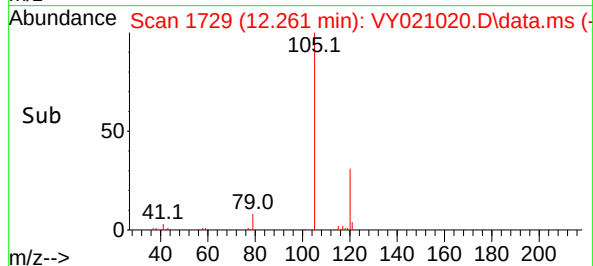
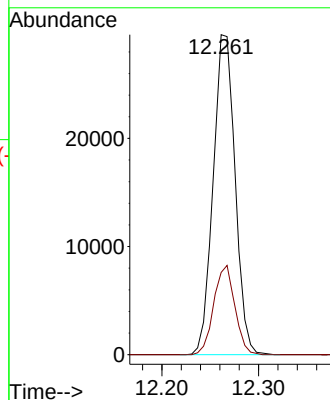
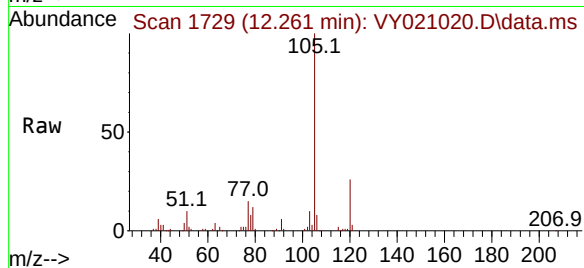
#73
Isopropylbenzene
Concen: 5.869 ug/l
RT: 12.261 min Scan# 1729
Delta R.T. 0.000 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tgt Ion: 105 Resp: 4662
Ion Ratio Lower Upper
105 100
120 26.7 13.4 40.2

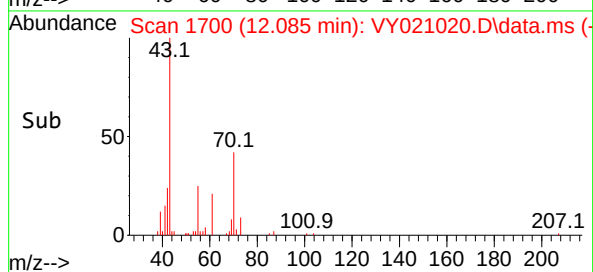
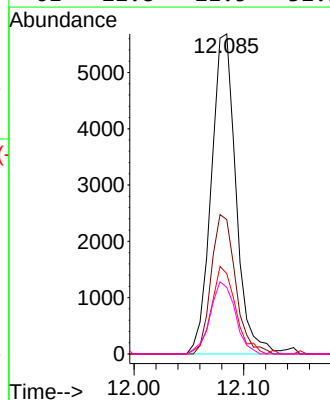
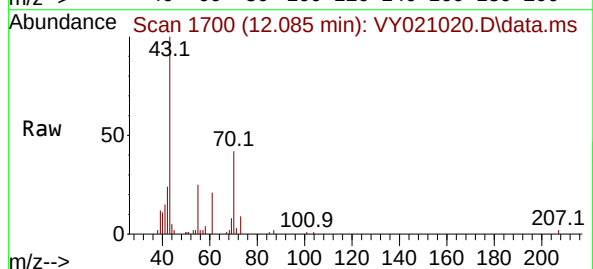
Manual Integrations
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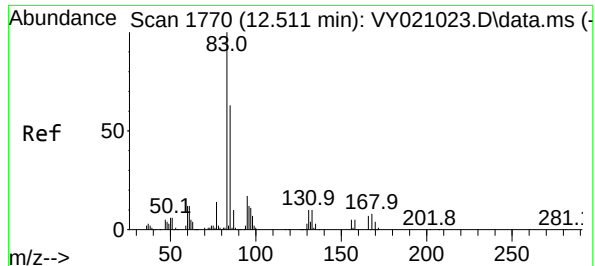
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#74
N-ethyl acetate
Concen: 6.144 ug/l
RT: 12.085 min Scan# 1700
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 43 Resp: 8887
Ion Ratio Lower Upper
43 100
70 42.9 39.3 58.9
55 26.8 22.3 33.5
61 22.8 21.5 32.3





#75

1,1,2,2-Tetrachloroethane

Concen: 6.240 ug/l

RT: 12.517 min Scan# 1770

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

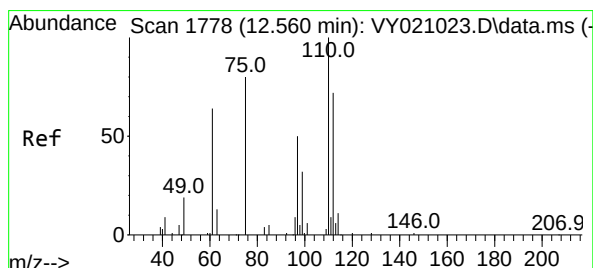
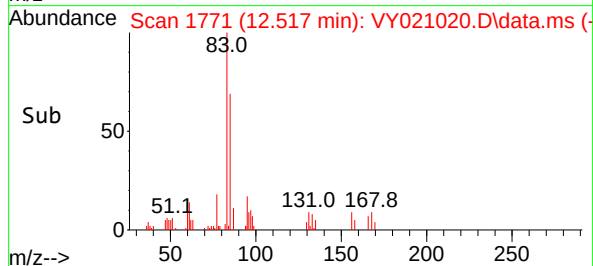
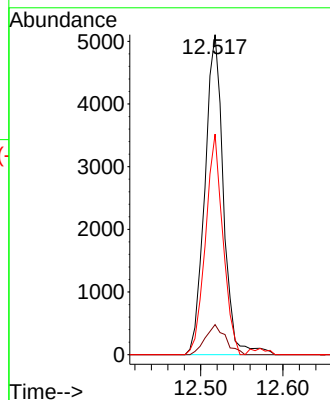
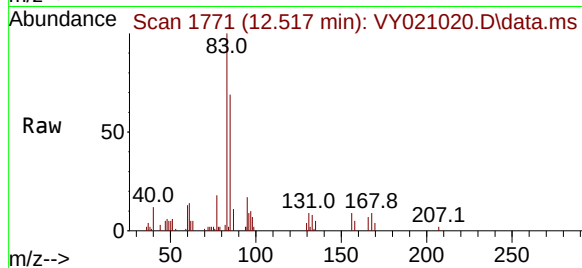
Tgt Ion:	83	Resp:	800
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.7	17.1
85	64.6	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#76

1,2,3-Trichloropropane

Concen: 6.656 ug/l m

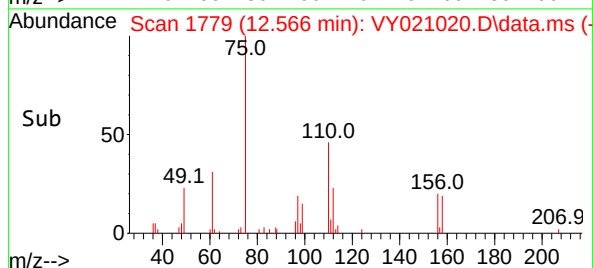
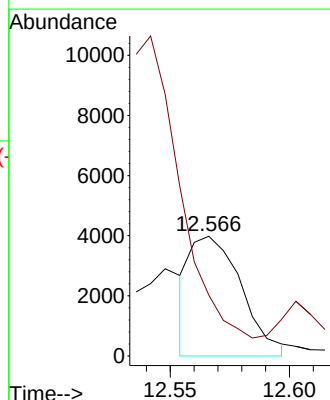
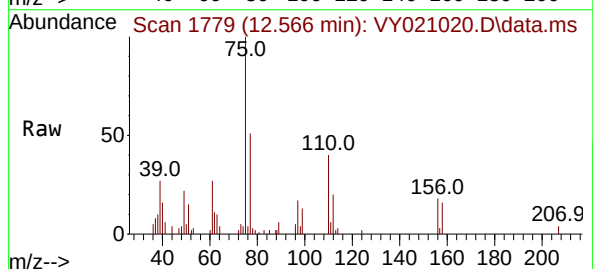
RT: 12.566 min Scan# 1779

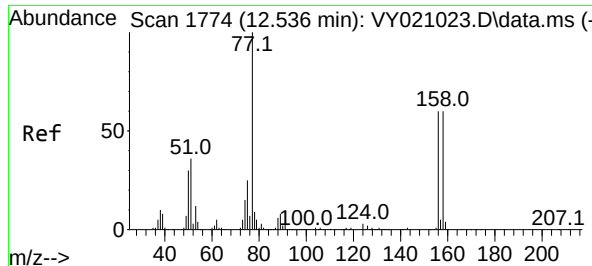
Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:	75	Resp:	5960
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





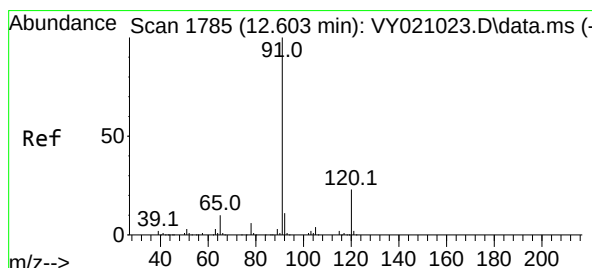
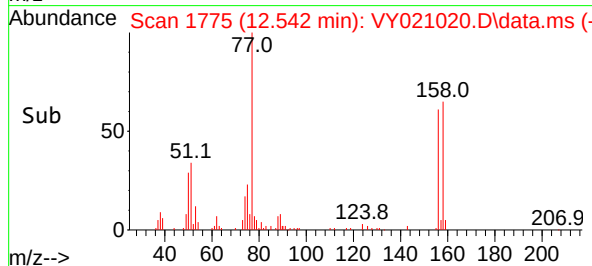
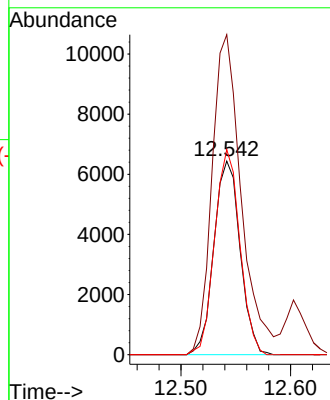
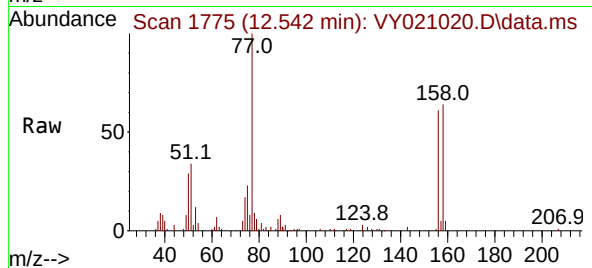
#77
Bromobenzene
Concen: 5.680 ug/l
RT: 12.542 min Scan# 1775
Delta R.T. 0.007 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 156 Resp: 10698
Ion Ratio Lower Upper
156 100
77 183.8 83.3 249.9
158 101.9 48.3 144.9

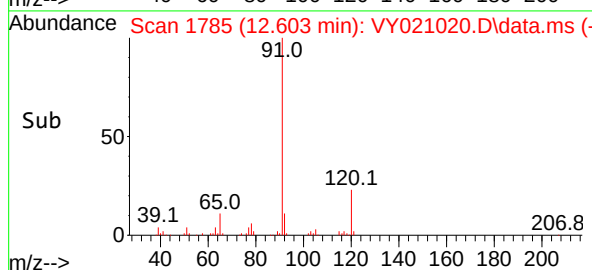
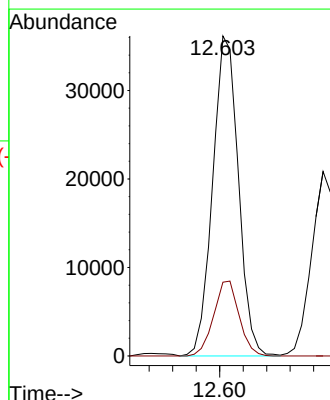
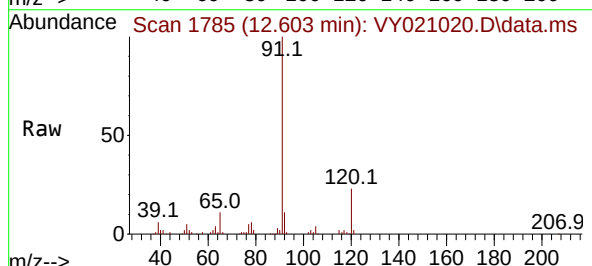
Manual Integrations
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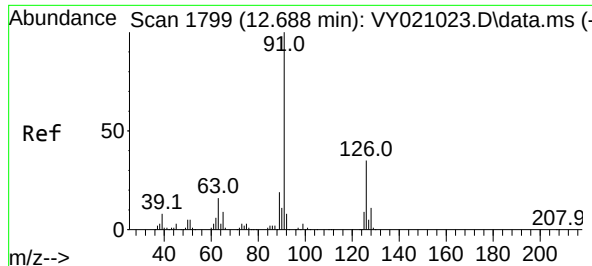
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#78
n-propylbenzene
Concen: 5.907 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 91 Resp: 54990
Ion Ratio Lower Upper
91 100
120 23.2 11.8 35.4





#79

2-Chlorotoluene

Concen: 6.123 ug/l

RT: 12.688 min Scan# 1799

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 32479

Ion Ratio Lower Upper

91 100

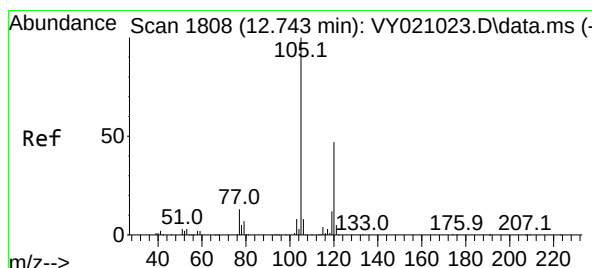
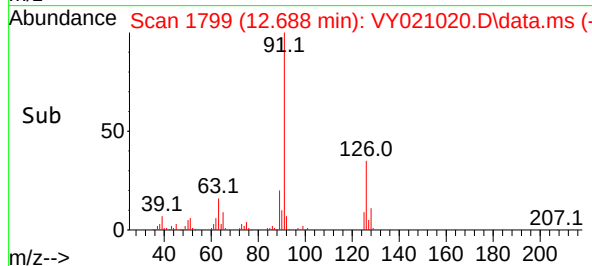
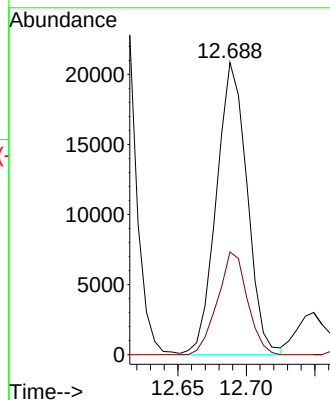
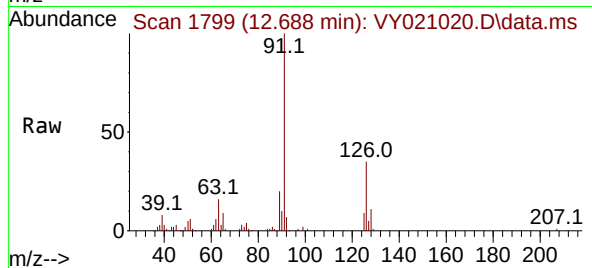
126 34.2 17.3 51.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#80

1,3,5-Trimethylbenzene

Concen: 5.772 ug/l

RT: 12.749 min Scan# 1809

Delta R.T. 0.006 min

Lab File: VY021020.D

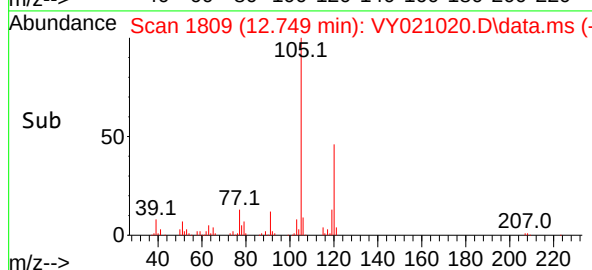
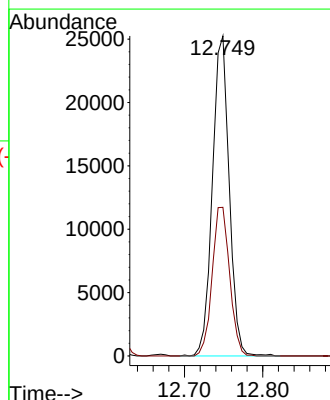
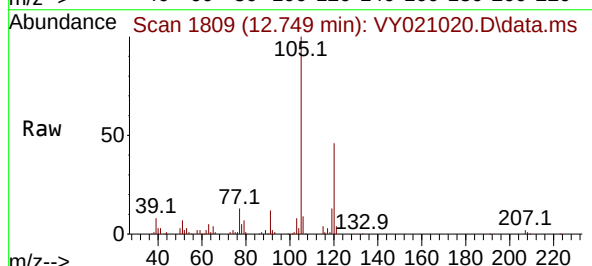
Acq: 03 Feb 2025 10:35

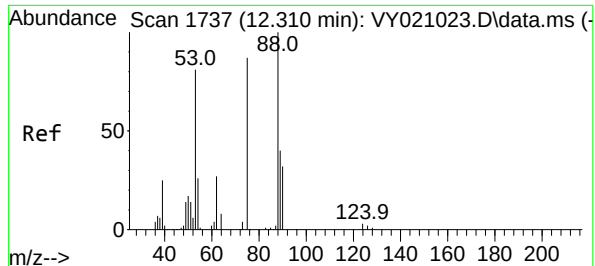
Tgt Ion:105 Resp: 37564

Ion Ratio Lower Upper

105 100

120 48.4 24.3 72.9





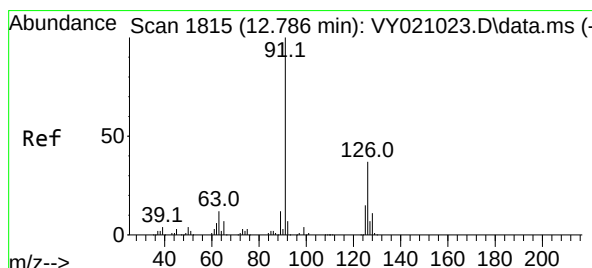
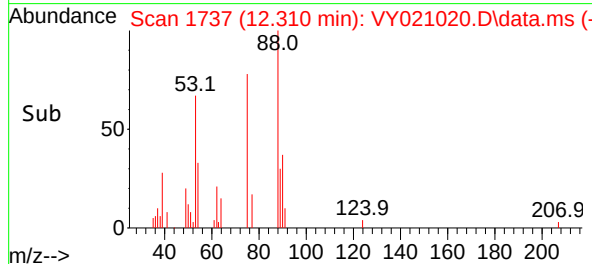
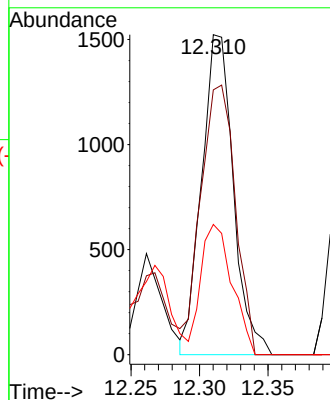
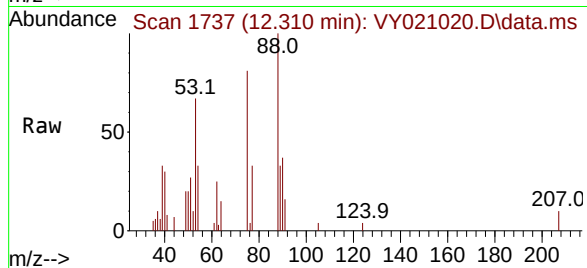
#81
trans-1,4-Dichloro-2-butene
Concen: 5.671 ug/l
RT: 12.310 min Scan# 1737
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC005

Tgt Ion: 75 Resp: 2440
Ion Ratio Lower Upper
75 100
53 91.8 68.6 103.0
89 40.1 38.1 57.1

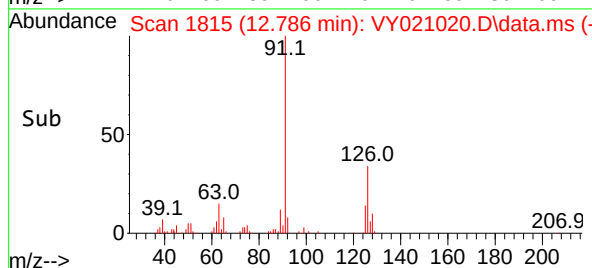
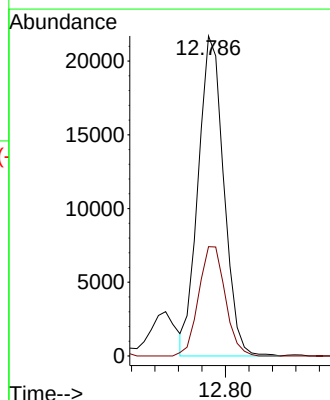
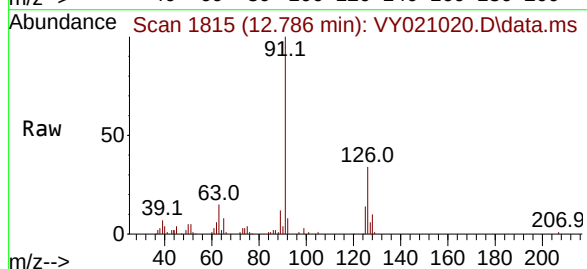
Manual Integrations
APPROVED

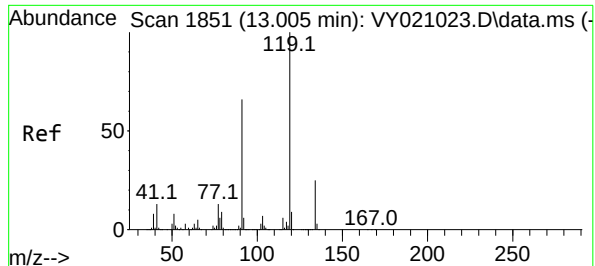
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#82
4-Chlorotoluene
Concen: 6.046 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 91 Resp: 32824
Ion Ratio Lower Upper
91 100
126 35.5 17.3 52.0





#83

tert-Butylbenzene

Concen: 5.562 ug/l

RT: 13.005 min Scan# 1851

Delta R.T. 0.000 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

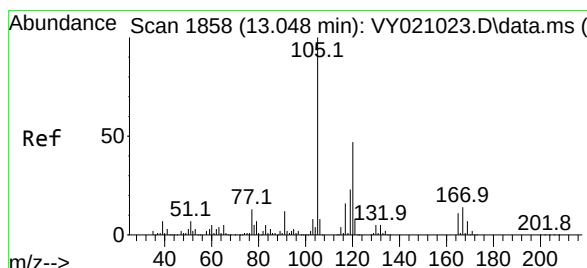
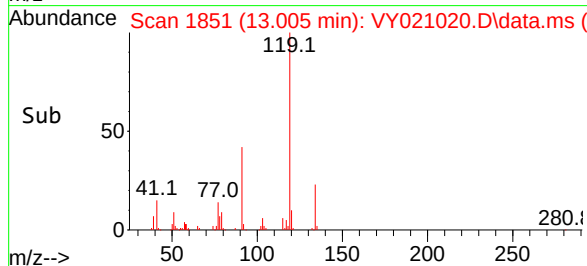
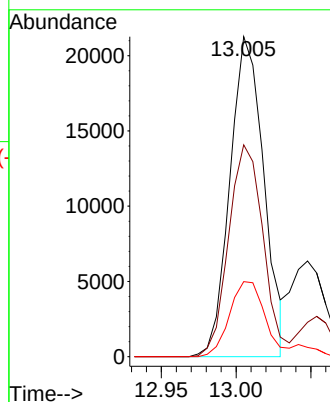
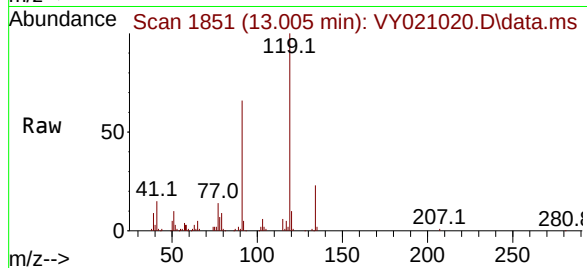
VSTDICC005

Tgt Ion:	119	Resp:	3357
Ion	Ratio	Lower	Upper
119	100		
91	67.4	31.4	94.0
134	24.6	13.1	39.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#84

1,2,4-Trimethylbenzene

Concen: 5.665 ug/l

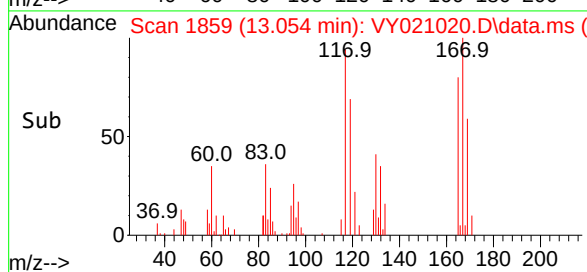
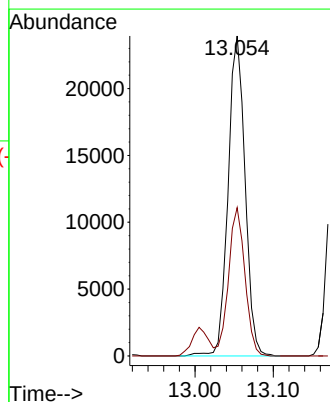
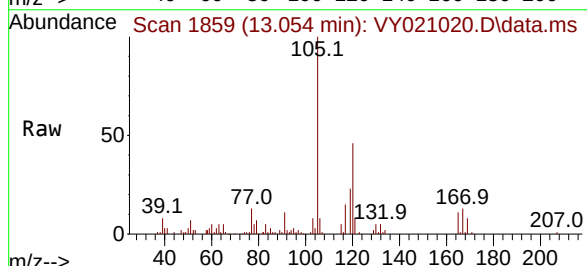
RT: 13.054 min Scan# 1859

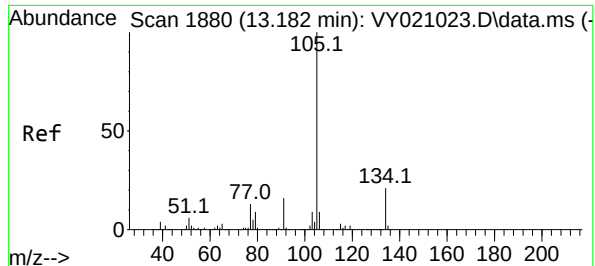
Delta R.T. 0.007 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:	105	Resp:	36016
Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.7	68.0





#85

sec-Butylbenzene

Concen: 5.831 ug/l

RT: 13.188 min Scan# 1880

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 49828

Ion Ratio Lower Upper

105 100

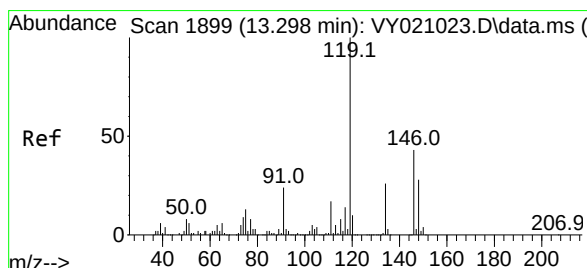
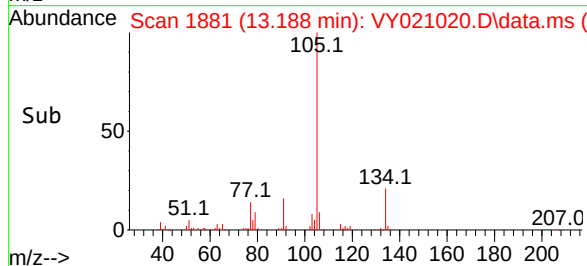
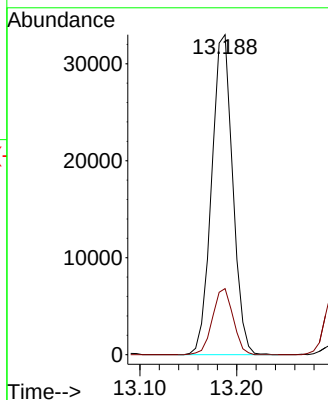
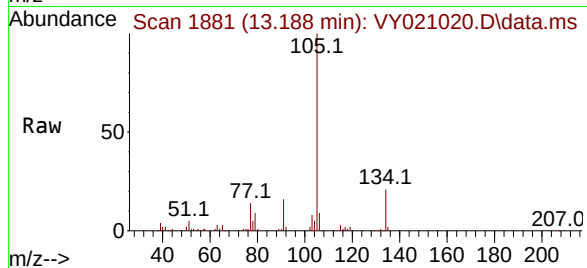
134 20.2 10.3 30.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#86

p-Isopropyltoluene

Concen: 5.597 ug/l

RT: 13.304 min Scan# 1900

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

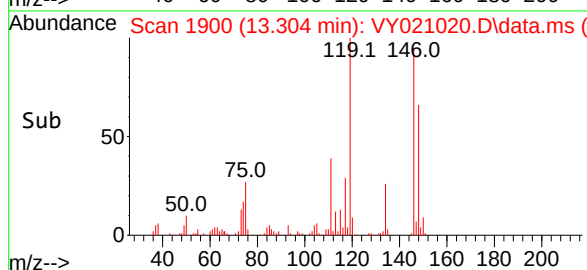
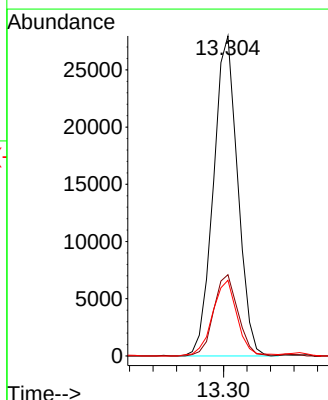
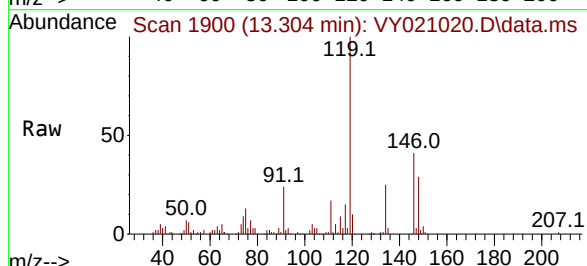
Tgt Ion:119 Resp: 40197

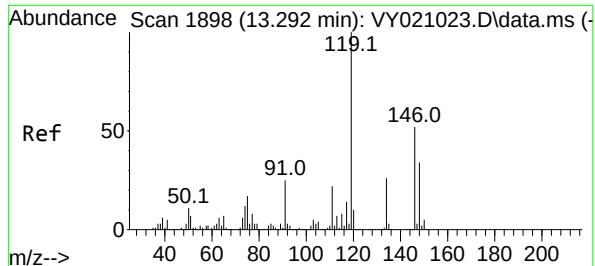
Ion Ratio Lower Upper

119 100

134 25.3 13.1 39.3

91 24.1 11.5 34.5





#87

1,3-Dichlorobenzene

Concen: 5.966 ug/l

RT: 13.298 min Scan# 1898

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

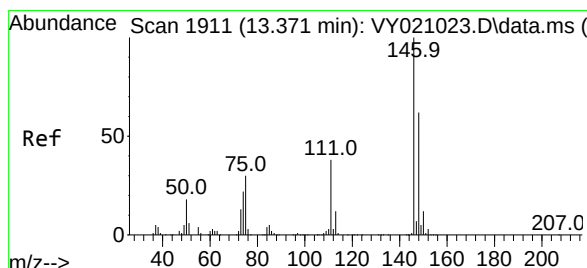
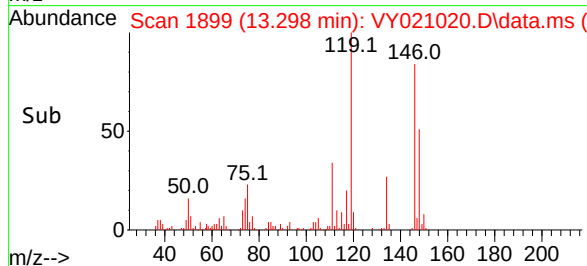
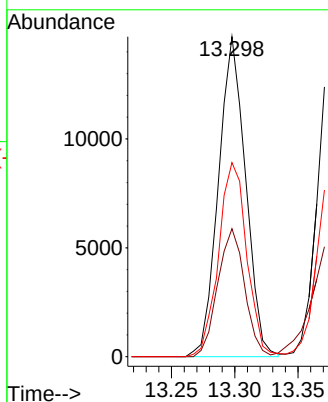
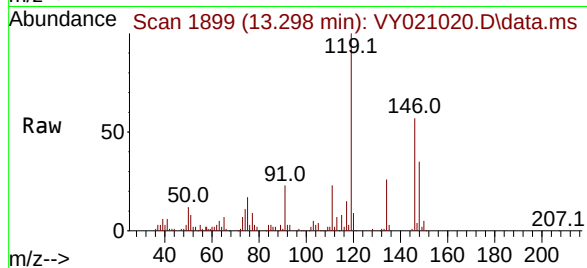
VSTDIC005

Tgt Ion:146	Resp:	21910
Ion Ratio	Lower	Upper
146	100	
111	39.7	19.7 59.1
148	63.3	32.1 96.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 5.910 ug/l

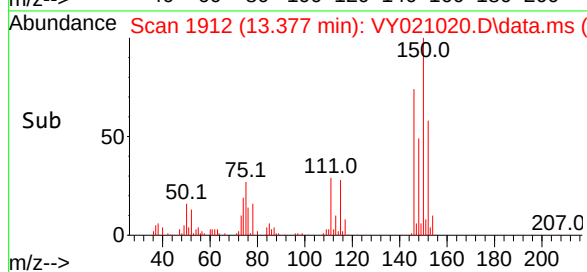
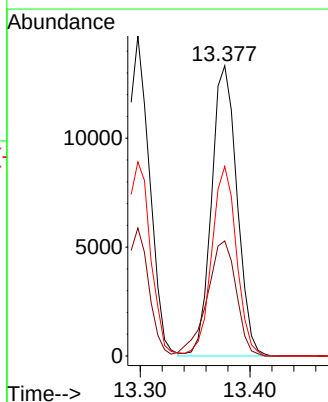
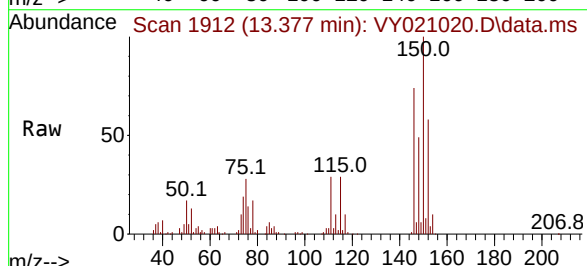
RT: 13.377 min Scan# 1912

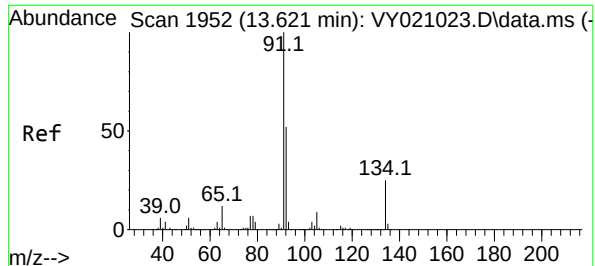
Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:146	Resp:	21553
Ion Ratio	Lower	Upper
146	100	
111	45.5	19.0 57.0
148	63.4	31.6 95.0





#89

n-Butylbenzene

Concen: 5.630 ug/l

RT: 13.627 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

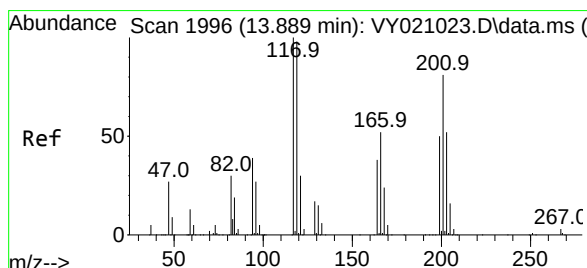
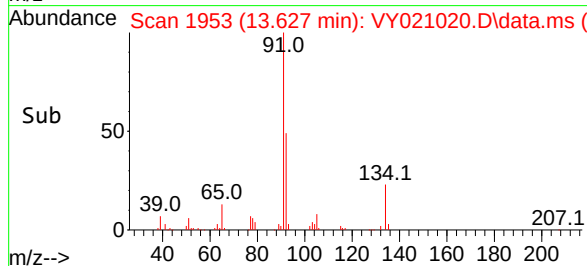
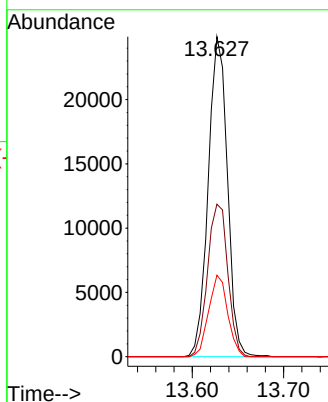
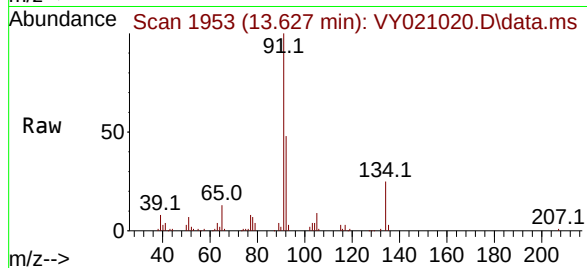
ClientSampleId :

VSTDIC005

Tgt Ion:	91	Resp:	36214
Ion	Ratio	Lower	Upper
91	100		
92	50.4	26.7	80.1
134	25.2	13.7	41.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#90

Hexachloroethane

Concen: 5.891 ug/l

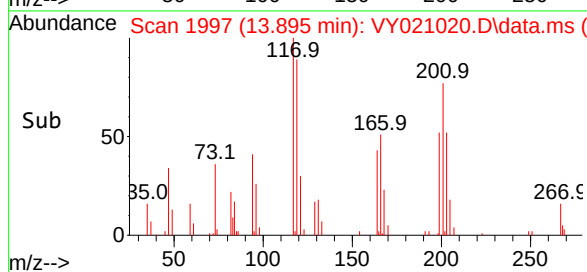
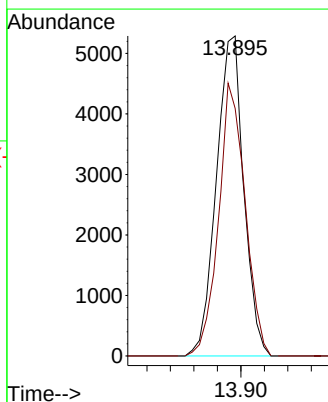
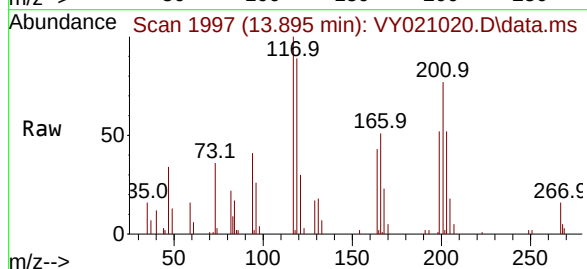
RT: 13.895 min Scan# 1997

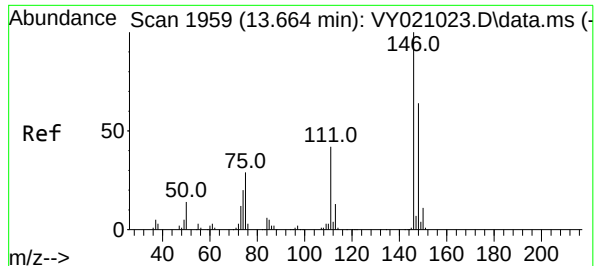
Delta R.T. 0.013 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:	117	Resp:	8559
Ion	Ratio	Lower	Upper
117	100		
201	82.8	42.5	127.5





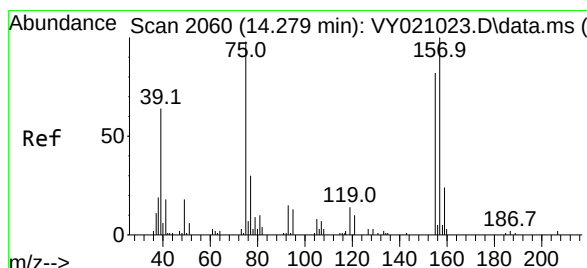
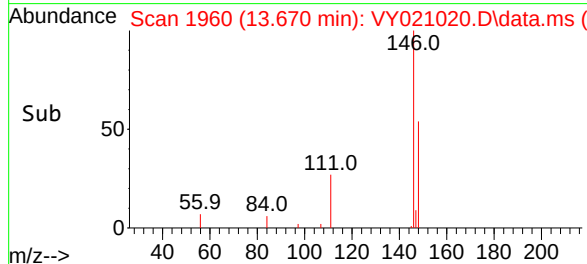
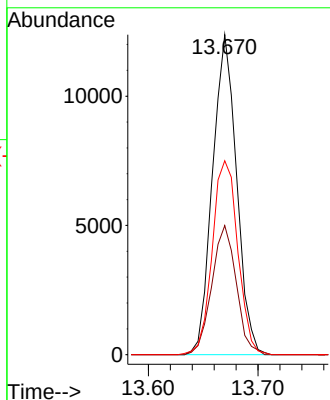
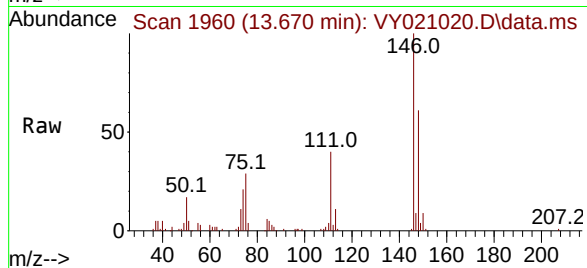
#91
1,2-Dichlorobenzene
Concen: 5.892 ug/l
RT: 13.670 min Scan# 1959
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 18869
Ion Ratio Lower Upper
146 100
111 41.0 20.3 60.8
148 64.4 32.2 96.6

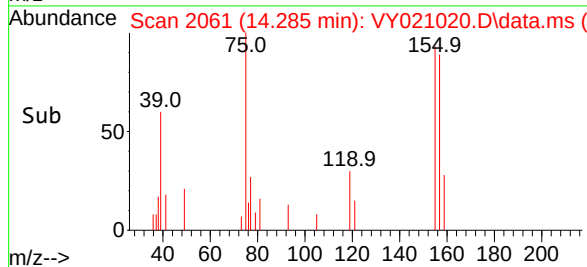
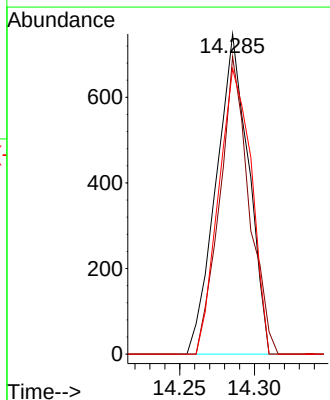
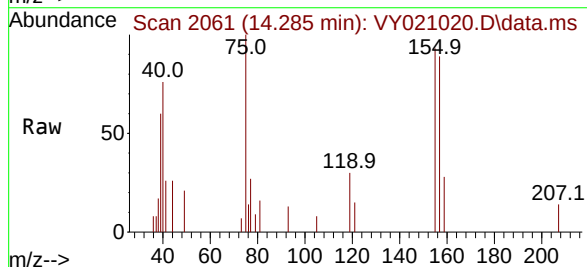
Manual Integrations
APPROVED

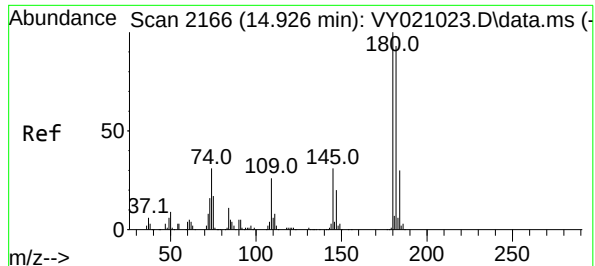
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.699 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY021020.D
Acq: 03 Feb 2025 10:35

Tgt Ion: 75 Resp: 1125
Ion Ratio Lower Upper
75 100
155 84.4 45.9 137.6
157 90.1 59.3 177.9





#93

1,2,4-Trichlorobenzene

Concen: 4.590 ug/l

RT: 14.932 min Scan# 2166

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

ClientSampleId :

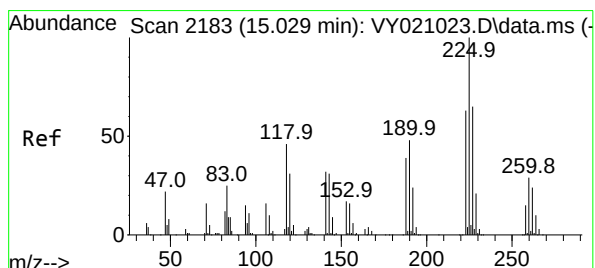
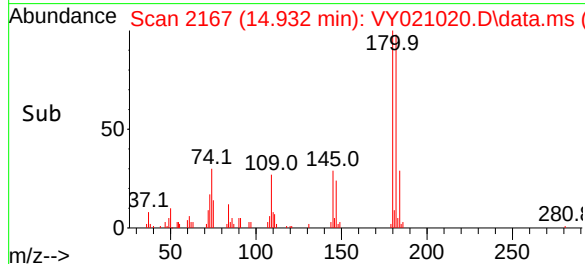
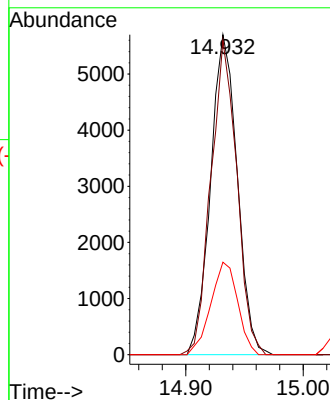
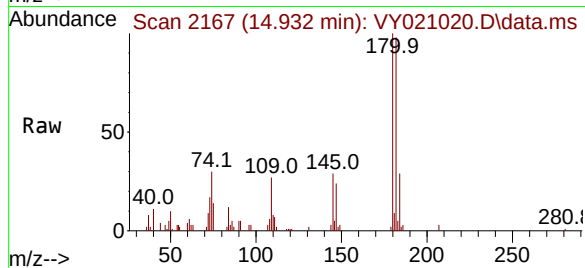
VSTDIC005

Tgt Ion:180	Resp:	9000
Ion Ratio	Lower	Upper
180	100	
182	95.2	48.3 144.8
145	29.2	15.3 45.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#94

Hexachlorobutadiene

Concen: 5.001 ug/l

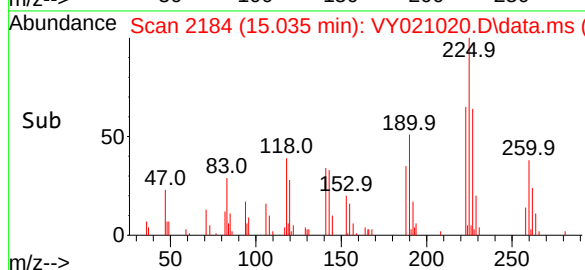
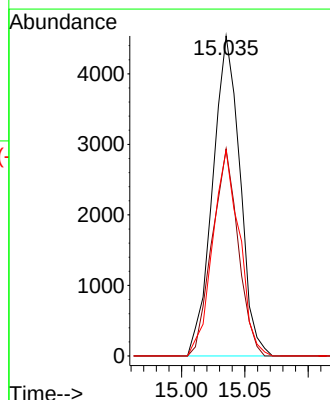
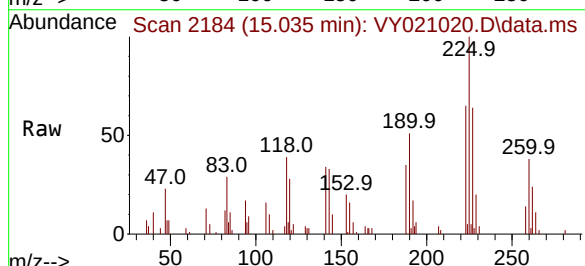
RT: 15.035 min Scan# 2184

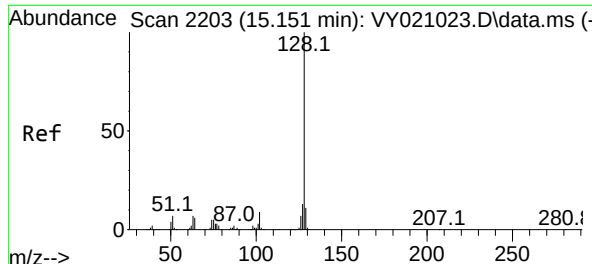
Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:225	Resp:	6792
Ion Ratio	Lower	Upper
225	100	
223	61.7	31.4 94.2
227	63.1	31.8 95.3





#95

Naphthalene

Concen: 3.847 ug/l

RT: 15.157 min Scan# 2204

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Instrument :

MSVOA_Y

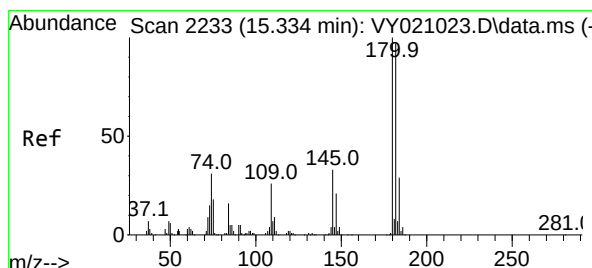
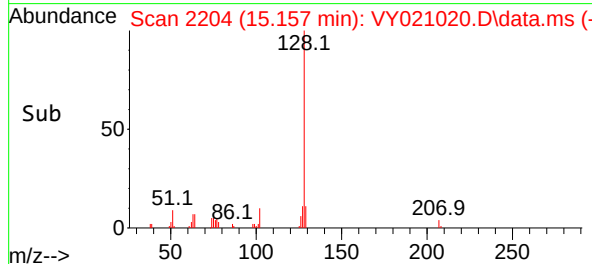
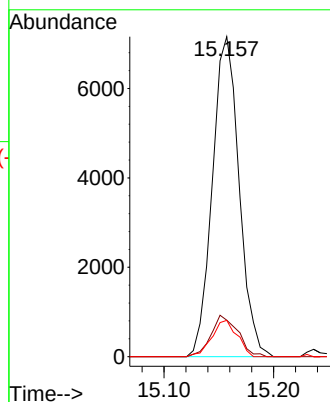
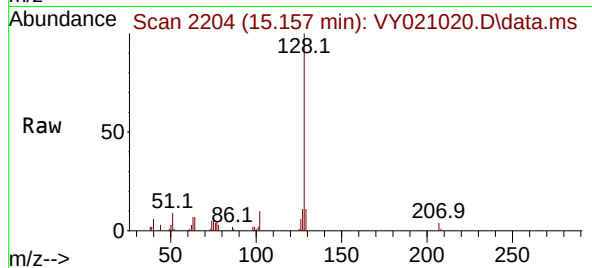
ClientSampleId :

VSTDIC005

Tgt Ion:	128	Resp:	12124
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	10.8	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#96

1,2,3-Trichlorobenzene

Concen: 4.375 ug/l

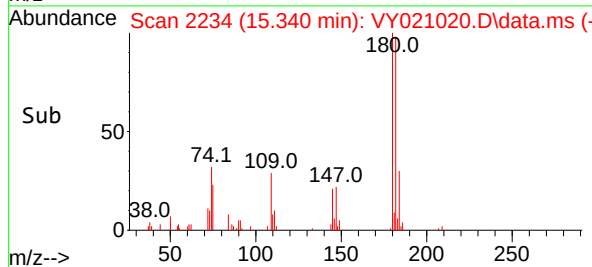
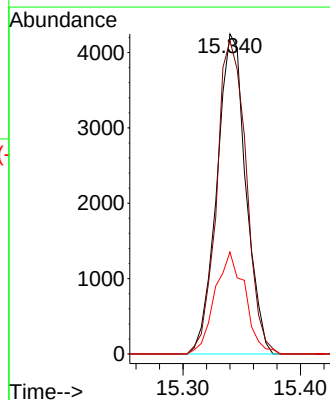
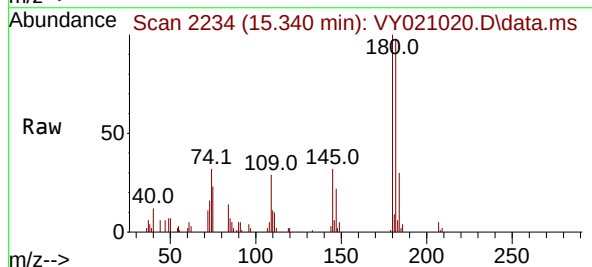
RT: 15.340 min Scan# 2234

Delta R.T. 0.006 min

Lab File: VY021020.D

Acq: 03 Feb 2025 10:35

Tgt Ion:	180	Resp:	7255
Ion	Ratio	Lower	Upper
180	100		
182	100.1	47.7	143.1
145	33.2	15.6	46.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021021.D
 Acq On : 03 Feb 2025 10:57
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Quant Time: Feb 03 12:38:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 12:36:41 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

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

Internal Standards						
1) Pentafluorobenzene	7.719	168	182294	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	285332	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	239030	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	115682	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	20294	13.075	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	26.160%#
35) Dibromofluoromethane	7.646	113	18627	10.859	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	21.720%#
50) Toluene-d8	10.109	98	70569	10.540	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	21.080%#
62) 4-Bromofluorobenzene	12.414	95	23279	10.362	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	20.720%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	15959	10.296	ug/l	99
3) Chloromethane	2.074	50	16219	16.458	ug/l	98
4) Vinyl Chloride	2.208	62	16094	15.839	ug/l	93
5) Bromomethane	2.604	94	10042	14.599	ug/l	99
6) Chloroethane	2.745	64	9830	16.561	ug/l	95
7) Trichlorofluoromethane	3.068	101	29663	12.097	ug/l	90
8) Diethyl Ether	3.458	74	9330	12.745	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.824	101	18483	11.194	ug/l	96
10) Methyl Iodide	4.019	142	19381	10.258	ug/l	98
11) Tert butyl alcohol	4.860	59	7158m	63.135	ug/l	
12) 1,1-Dichloroethene	3.799	96	17176	11.131	ug/l	90
13) Acrolein	3.665	56	10409	79.726	ug/l	96
14) Allyl chloride	4.391	41	28376	13.358	ug/l	93
15) Acrylonitrile	5.074	53	19104	63.446	ug/l	97
16) Acetone	3.879	43	15112	71.438	ug/l #	86
17) Carbon Disulfide	4.116	76	53088	11.171	ug/l	100
18) Methyl Acetate	4.397	43	10297	13.911	ug/l	94
19) Methyl tert-butyl Ether	5.128	73	43216	12.033	ug/l	96
20) Methylene Chloride	4.622	84	18455	11.829	ug/l	89
21) trans-1,2-Dichloroethene	5.128	96	18903	11.426	ug/l	100
22) Diisopropyl ether	6.031	45	59888	13.831	ug/l #	89
23) Vinyl Acetate	5.970	43	166437	69.409	ug/l	94
24) 1,1-Dichloroethane	5.927	63	34569	12.375	ug/l	99
25) 2-Butanone	6.902	43	24268	67.624	ug/l	93
26) 2,2-Dichloropropane	6.896	77	32771	11.915	ug/l	97
27) cis-1,2-Dichloroethene	6.902	96	21309	11.206	ug/l	91
28) Bromochloromethane	7.256	49	13417	12.892	ug/l	86
29) Tetrahydrofuran	7.274	42	16758	69.395	ug/l	92
30) Chloroform	7.427	83	37054	12.247	ug/l	100
31) Cyclohexane	7.707	56	32272	11.819	ug/l #	88
32) 1,1,1-Trichloroethane	7.628	97	32862	11.223	ug/l	95
36) 1,1-Dichloropropene	7.847	75	26479	10.820	ug/l	96
37) Ethyl Acetate	6.994	43	11876	13.017	ug/l	97
38) Carbon Tetrachloride	7.823	117	31462	10.389	ug/l	96
39) Methylcyclohexane	9.115	83	31392	9.549	ug/l	90
40) Benzene	8.085	78	78846	10.950	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021021.D
 Acq On : 03 Feb 2025 10:57
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 12:36:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.244	41	7195m	14.253	ug/l	
42) 1,2-Dichloroethane	8.164	62	22281	12.201	ug/l	99
43) Isopropyl Acetate	8.207	43	23795	13.055	ug/l #	84
44) Trichloroethene	8.872	130	20261	10.197	ug/l	100
45) 1,2-Dichloropropane	9.146	63	18765	11.627	ug/l	96
46) Dibromomethane	9.237	93	10511	11.191	ug/l	94
47) Bromodichloromethane	9.432	83	28538	11.570	ug/l	96
48) Methyl methacrylate	9.225	41	10297	11.866	ug/l	93
49) 1,4-Dioxane	9.231	88	1885	188.876	ug/l #	89
51) 4-Methyl-2-Pentanone	10.006	43	60088	64.159	ug/l	94
52) Toluene	10.176	92	48876	10.457	ug/l	99
53) t-1,3-Dichloropropene	10.402	75	24301	10.888	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	29426	11.031	ug/l	93
55) 1,1,2-Trichloroethane	10.579	97	13425	10.748	ug/l	96
56) Ethyl methacrylate	10.445	69	16883	10.341	ug/l #	86
57) 1,3-Dichloropropane	10.725	76	23377	11.042	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.719	63	41611	60.048	ug/l	95
59) 2-Hexanone	10.768	43	37306	61.283	ug/l	90
60) Dibromochloromethane	10.914	129	18851	10.585	ug/l	100
61) 1,2-Dibromoethane	11.018	107	12746	10.684	ug/l	100
64) Tetrachloroethene	10.652	164	17544	9.730	ug/l	98
65) Chlorobenzene	11.450	112	53298	10.583	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.524	131	19150	10.714	ug/l	99
67) Ethyl Benzene	11.524	91	90783	10.411	ug/l	99
68) m/p-Xylenes	11.633	106	69094	20.624	ug/l	98
69) o-Xylene	11.963	106	31473	10.106	ug/l	96
70) Styrene	11.975	104	53436	10.334	ug/l	98
71) Bromoform	12.139	173	10627	10.088	ug/l #	97
73) Isopropylbenzene	12.261	105	85491	10.522	ug/l	98
74) N-amyl acetate	12.078	43	18529	12.524	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.511	83	14942	11.393	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	9090m	9.926	ug/l	
77) Bromobenzene	12.536	156	20634	10.712	ug/l	94
78) n-propylbenzene	12.603	91	102250	10.738	ug/l	97
79) 2-Chlorotoluene	12.688	91	59630	10.991	ug/l	98
80) 1,3,5-Trimethylbenzene	12.743	105	70161	10.541	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.310	75	5224	11.842	ug/l	92
82) 4-Chlorotoluene	12.786	91	62279	11.217	ug/l	96
83) tert-Butylbenzene	13.005	119	63506	10.287	ug/l	98
84) 1,2,4-Trimethylbenzene	13.048	105	67906	10.444	ug/l	100
85) sec-Butylbenzene	13.182	105	92610	10.596	ug/l	98
86) p-Isopropyltoluene	13.298	119	74892	10.196	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	39016	10.388	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	39379	10.559	ug/l	95
89) n-Butylbenzene	13.627	91	67632	10.280	ug/l	97
90) Hexachloroethane	13.889	117	16030	10.788	ug/l	95
91) 1,2-Dichlorobenzene	13.670	146	35252	10.763	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	2296	11.372	ug/l	87
93) 1,2,4-Trichlorobenzene	14.932	180	17451	8.702	ug/l	98
94) Hexachlorobutadiene	15.029	225	11988	8.631	ug/l	99
95) Naphthalene	15.151	128	27103	8.409	ug/l	98
96) 1,2,3-Trichlorobenzene	15.334	180	14804	8.729	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021021.D
Acq On : 03 Feb 2025 10:57
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021021.D
Acq On : 03 Feb 2025 10:57
Operator : SY/MD
Sample : VSTDIC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_Y

Client Sample Id :

VSTDIC010

Manual Integrations

APPROVED

Reviewed By : Mahesh Dadoda 02/04/2025

Supervised By : Semsettin Yesilyurt 02/04/2025

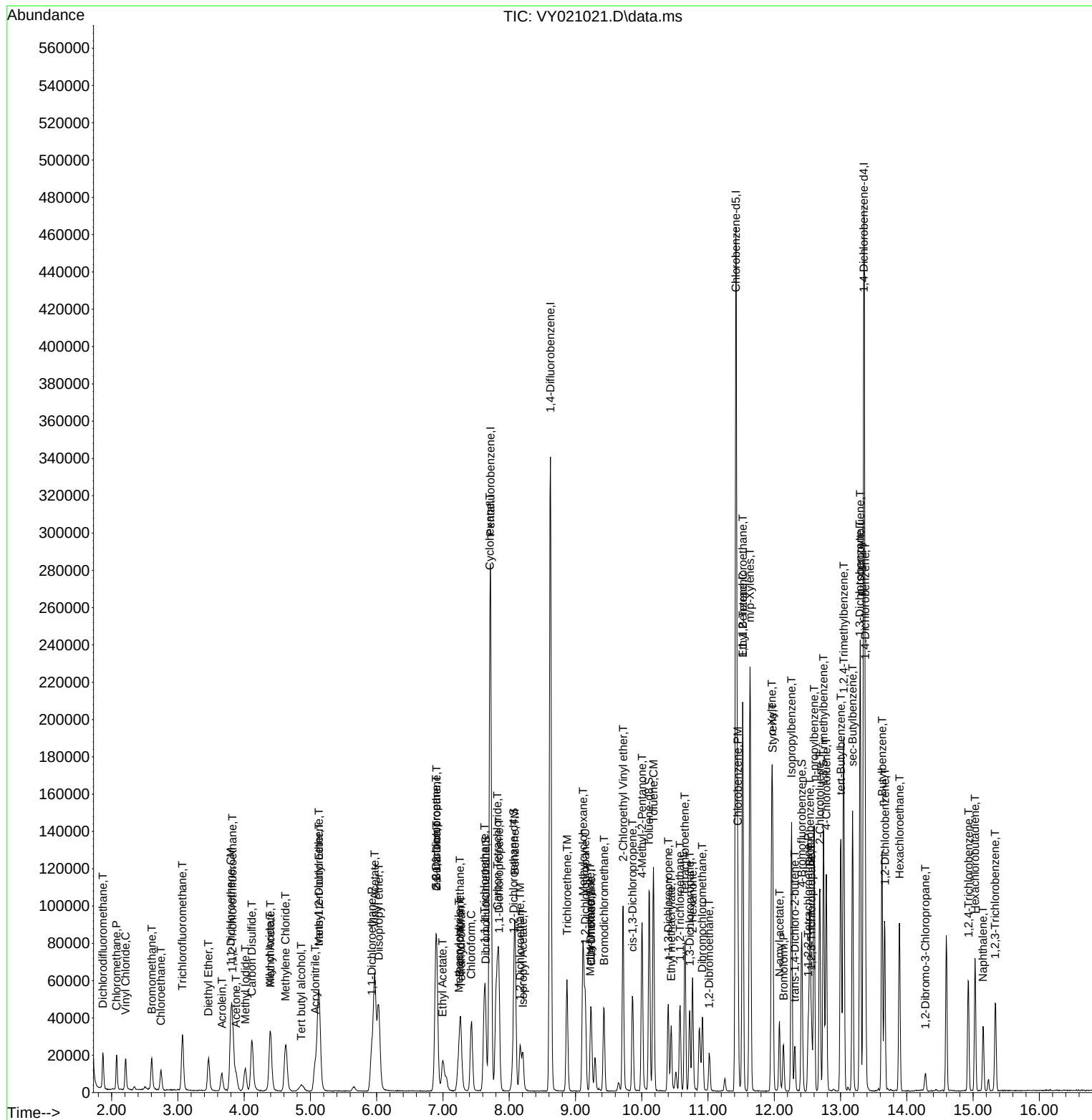
Quant Time: Feb 03 12:38:07 2025

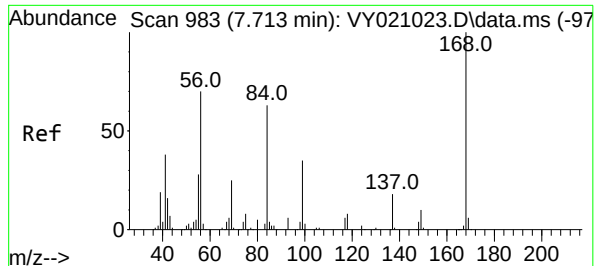
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M

Quant Title : SW846 8260

QLast Update : Mon Feb 03 12:36:41 2025

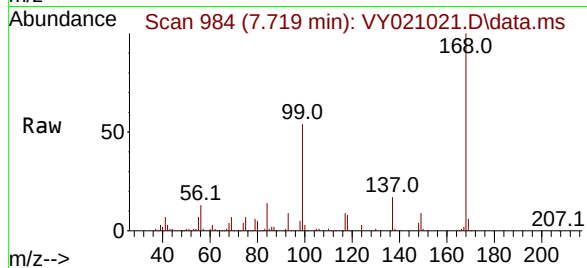
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

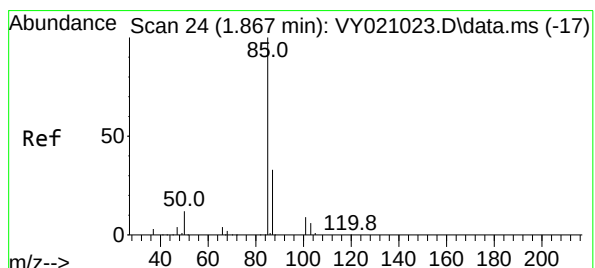
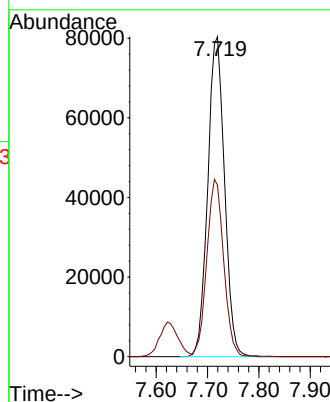
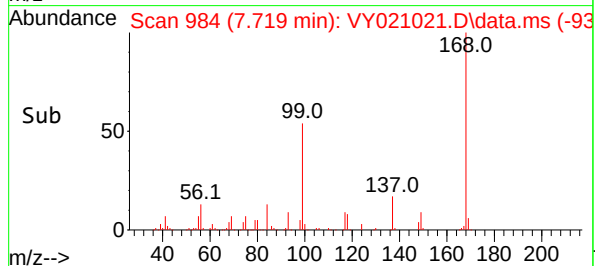
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010



Tgt Ion: 168 Resp: 182294
Ion Ratio Lower Upper
168 100
99 53.6 42.2 63.2

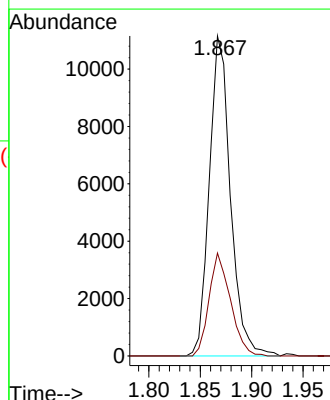
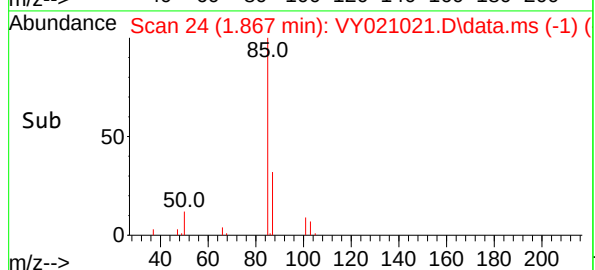
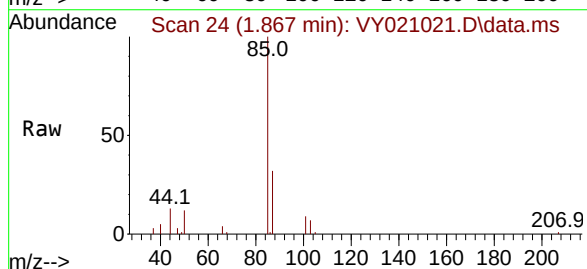
Manual Integrations
APPROVED

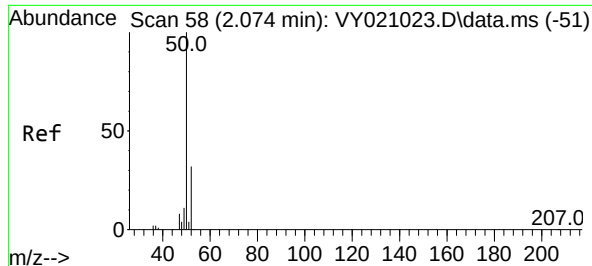
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#2
Dichlorodifluoromethane
Concen: 10.296 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

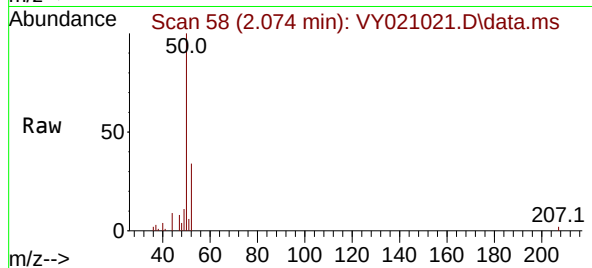
Tgt Ion: 85 Resp: 15959
Ion Ratio Lower Upper
85 100
87 32.1 16.3 48.9





#3
Chloromethane
Concen: 16.458 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

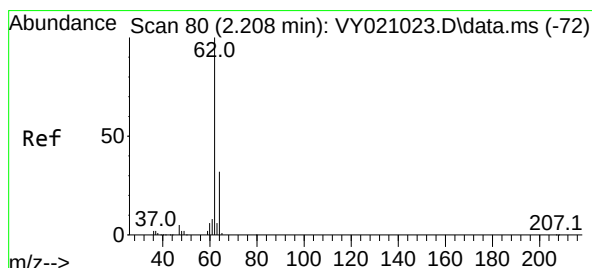
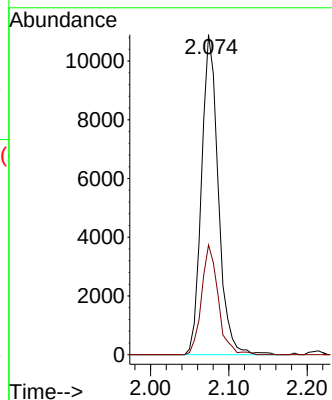
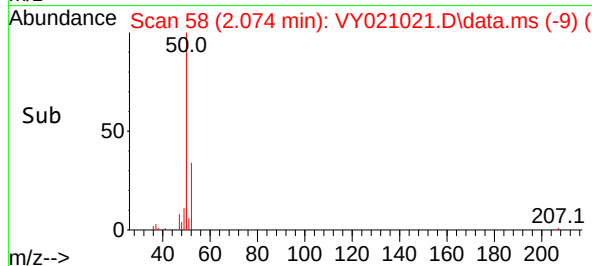
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010



Tgt Ion: 50 Resp: 16219
Ion Ratio Lower Upper
50 100
52 34.3 26.3 39.5

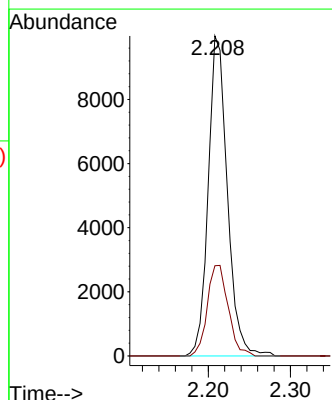
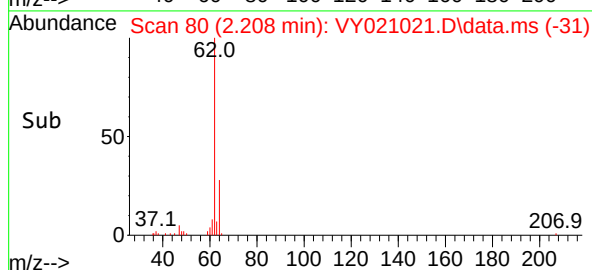
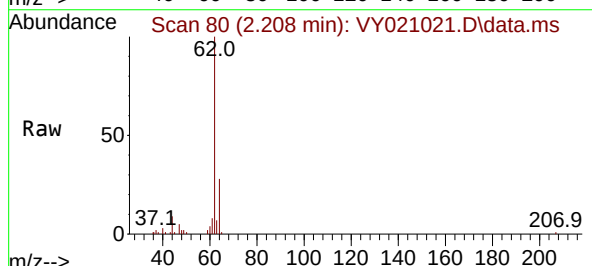
Manual Integrations
APPROVED

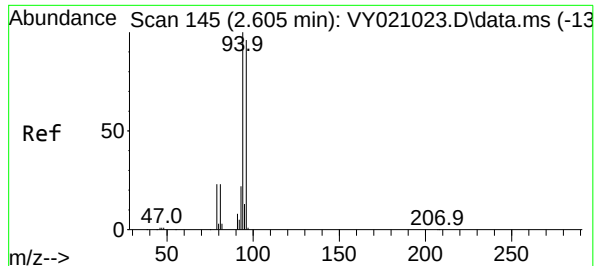
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#4
Vinyl Chloride
Concen: 15.839 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

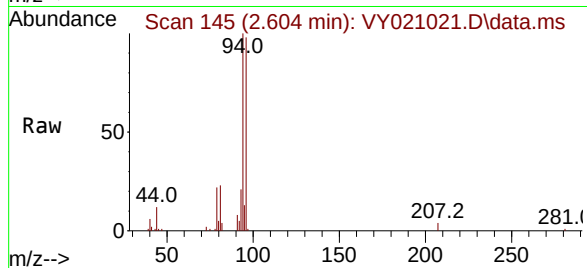
Tgt Ion: 62 Resp: 16094
Ion Ratio Lower Upper
62 100
64 28.2 25.4 38.2





#5
Bromomethane
Concen: 14.599 ug/l
RT: 2.604 min Scan# 145
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

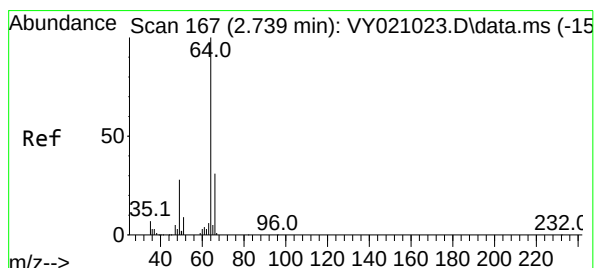
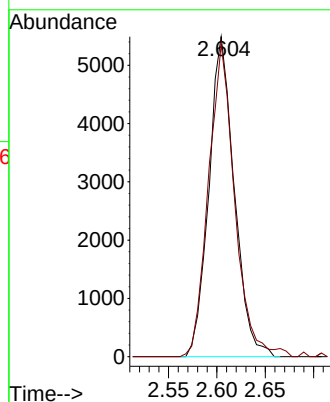
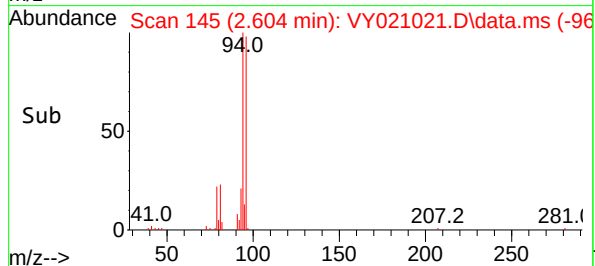
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010



Tgt Ion: 94 Resp: 1004
Ion Ratio Lower Upper
94 100
96 97.7 77.4 116.0

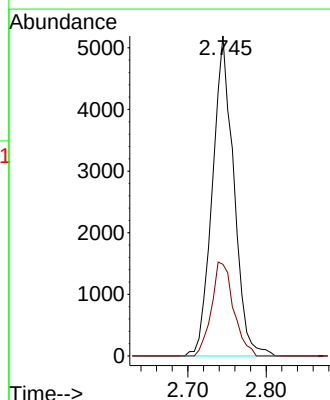
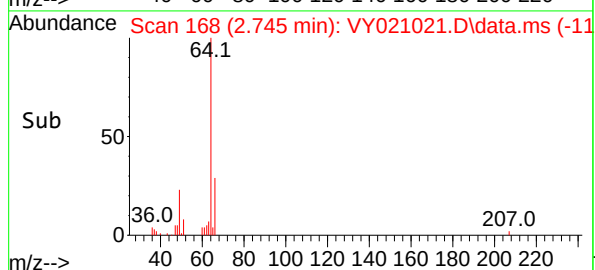
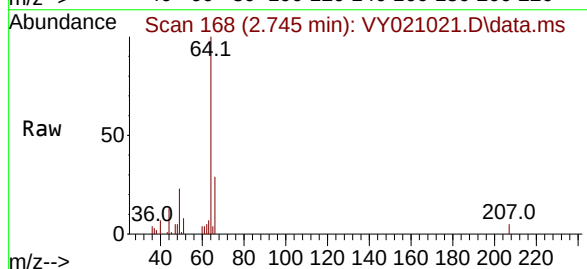
Manual Integrations
APPROVED

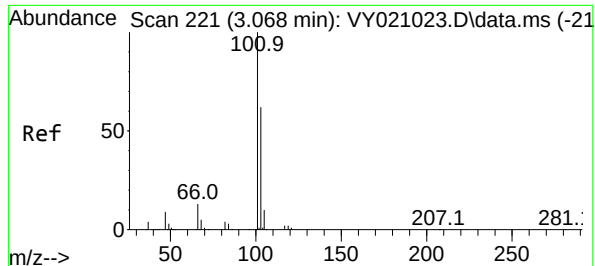
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#6
Chloroethane
Concen: 16.561 ug/l
RT: 2.745 min Scan# 168
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

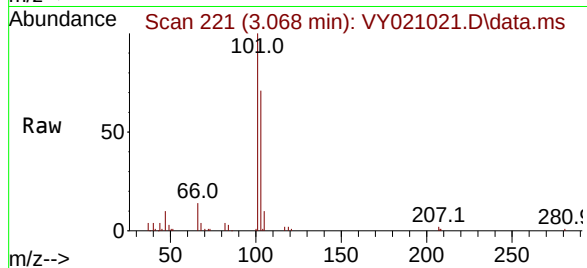
Tgt Ion: 64 Resp: 9830
Ion Ratio Lower Upper
64 100
66 28.6 25.0 37.4





#7
Trichlorofluoromethane
Concen: 12.097 ug/l
RT: 3.068 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

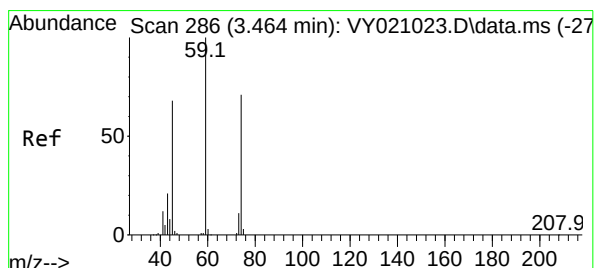
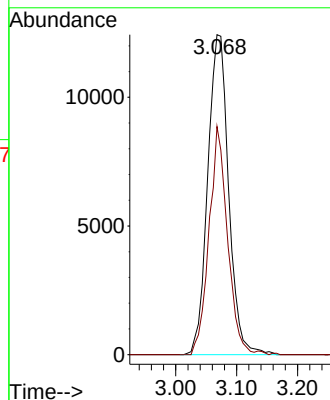
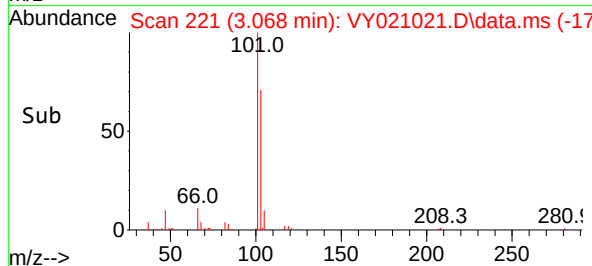
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010



Tgt Ion:101 Resp: 2966
Ion Ratio Lower Upper
101 100
103 71.3 50.9 76.3

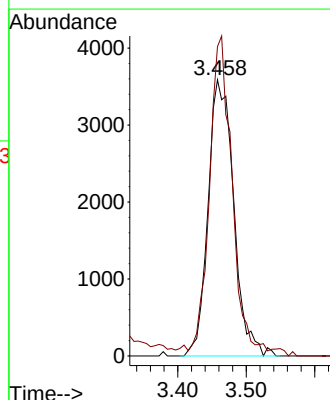
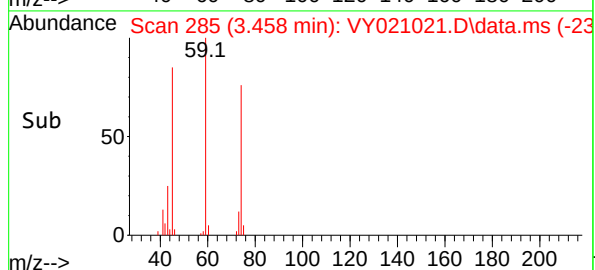
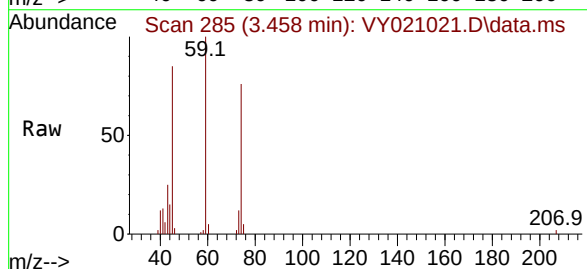
Manual Integrations
APPROVED

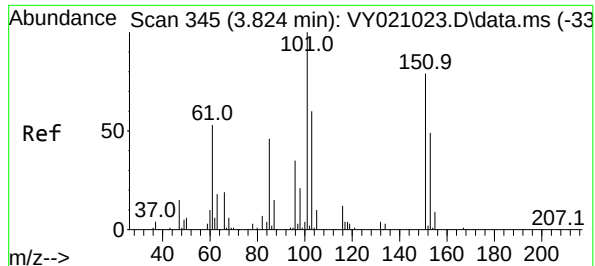
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#8
Diethyl Ether
Concen: 12.745 ug/l
RT: 3.458 min Scan# 285
Delta R.T. -0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion: 74 Resp: 9330
Ion Ratio Lower Upper
74 100
45 97.0 43.4 130.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.194 ug/l

RT: 3.824 min Scan# 345

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

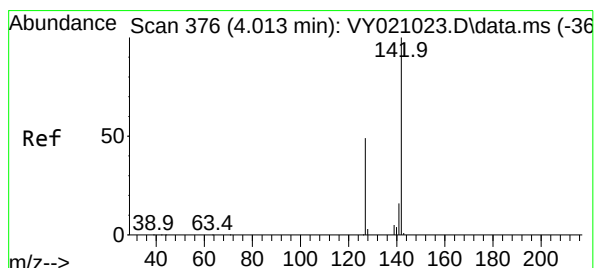
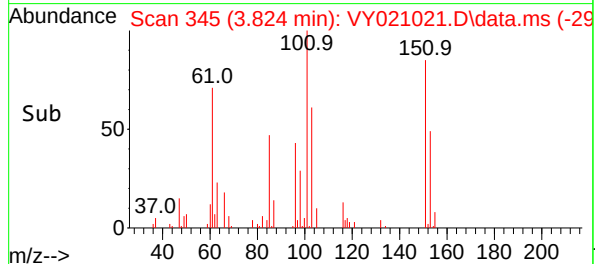
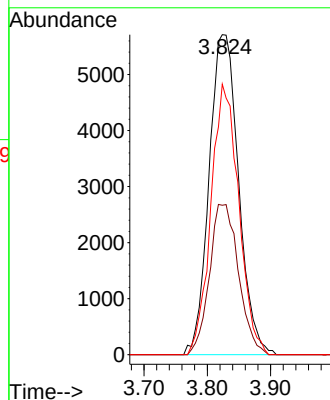
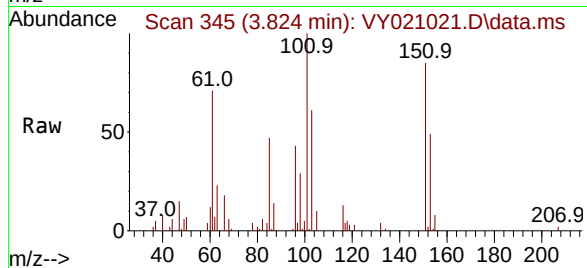
ClientSampleId :

VSTDIC010

Tgt Ion:	101	Resp:	1848
Ion	Ratio	Lower	Upper
101	100		
85	46.3	34.9	52.3
151	79.6	66.8	100.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#10

Methyl Iodide

Concen: 10.258 ug/l

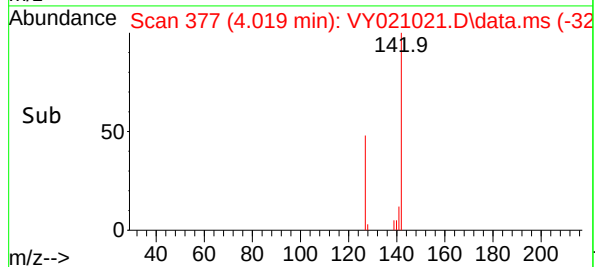
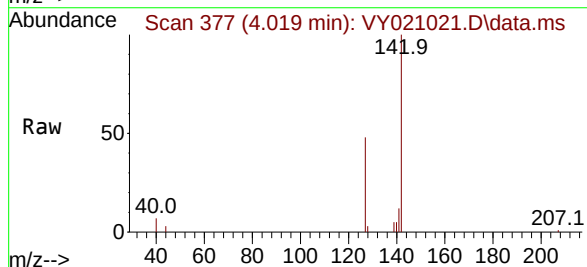
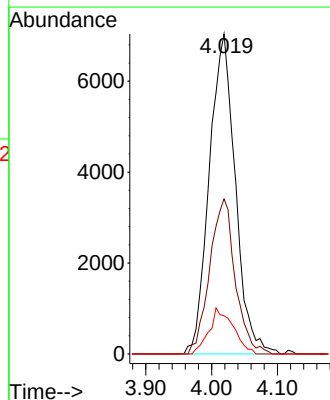
RT: 4.019 min Scan# 377

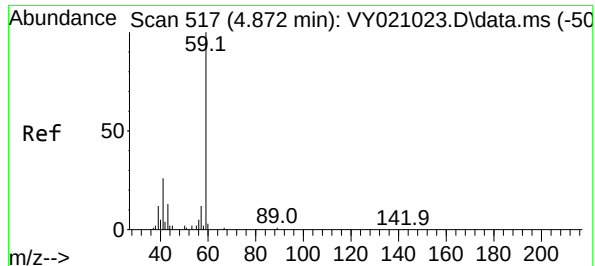
Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	142	Resp:	19381
Ion	Ratio	Lower	Upper
142	100		
127	47.5	38.9	58.3
141	13.3	11.7	17.5





#11

Tert butyl alcohol

Concen: 63.135 ug/l m

RT: 4.860 min Scan# 517

Delta R.T. -0.018 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 59 Resp: 7158

Ion Ratio Lower Upper

59 100

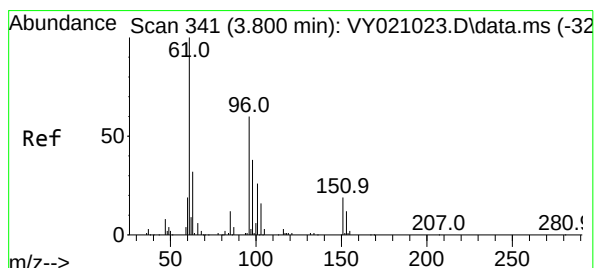
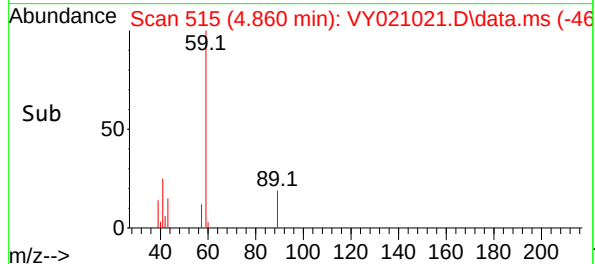
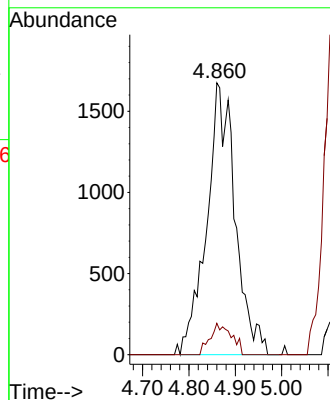
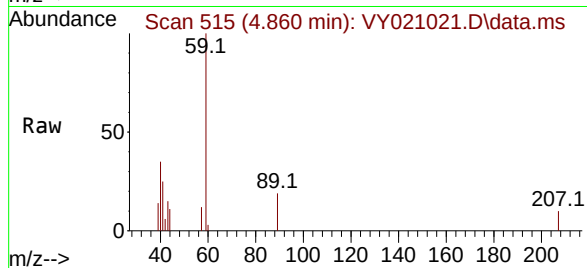
57 8.6 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#12

1,1-Dichloroethene

Concen: 11.131 ug/l

RT: 3.799 min Scan# 341

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

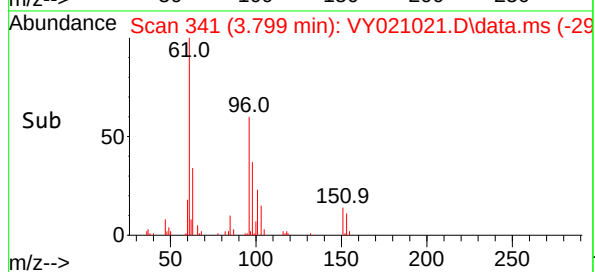
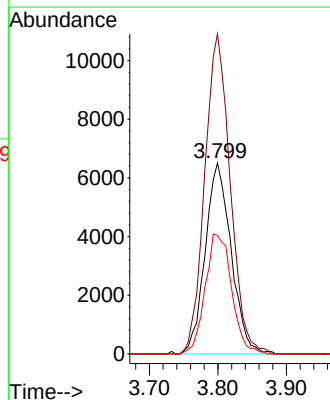
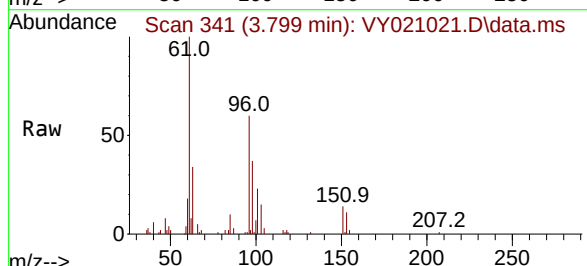
Tgt Ion: 96 Resp: 17176

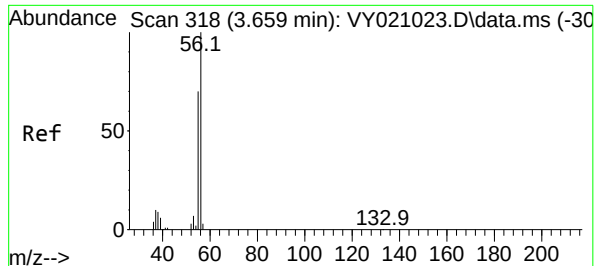
Ion Ratio Lower Upper

96 100

61 167.5 120.8 181.2

98 62.0 50.6 76.0





#13

Acrolein

Concen: 79.726 ug/l

RT: 3.665 min Scan# 318

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion: 56 Resp: 10409

Ion Ratio Lower Upper

56 100

55 73.3 56.1 84.1

Instrument :

MSVOA_Y

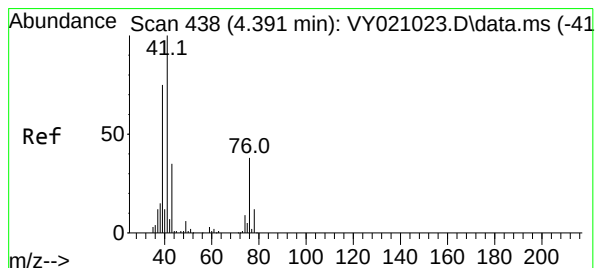
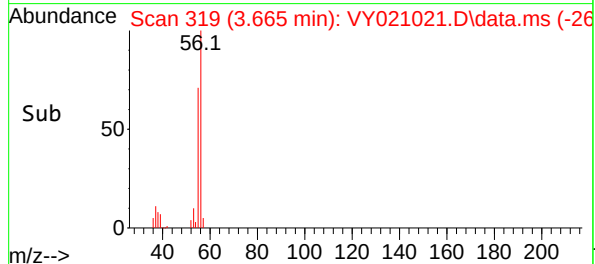
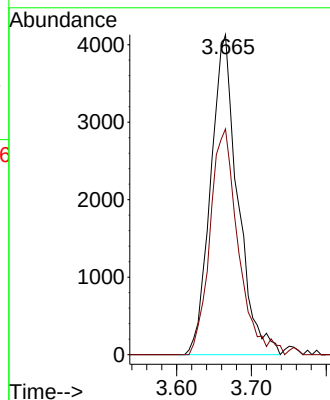
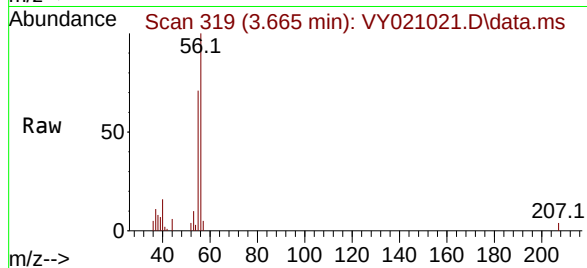
ClientSampleId :

VSTDICC010

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#14

Allyl chloride

Concen: 13.358 ug/l

RT: 4.391 min Scan# 438

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

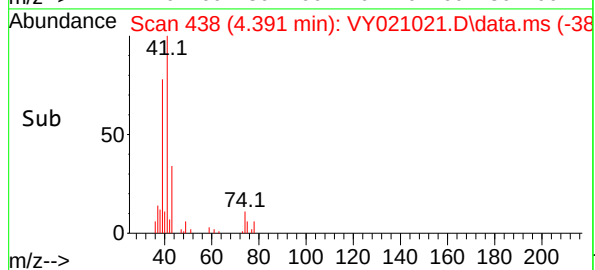
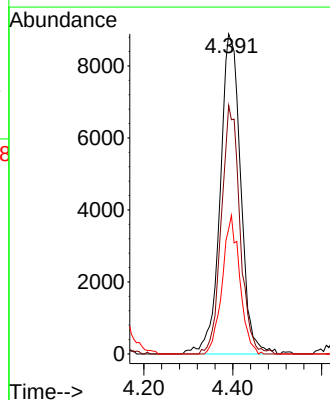
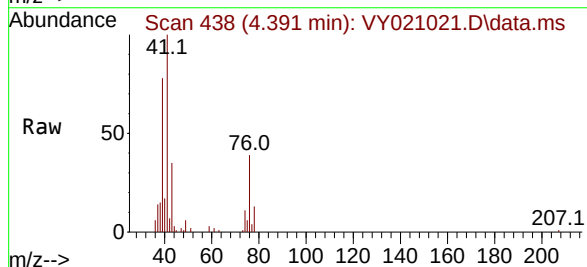
Tgt Ion: 41 Resp: 28376

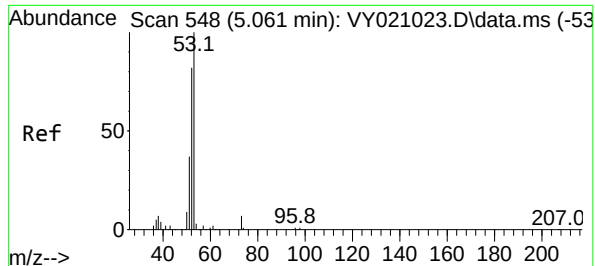
Ion Ratio Lower Upper

41 100

39 70.7 53.5 80.3

76 37.1 34.6 52.0





#15

Acrylonitrile

Concen: 63.446 ug/l

RT: 5.074 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

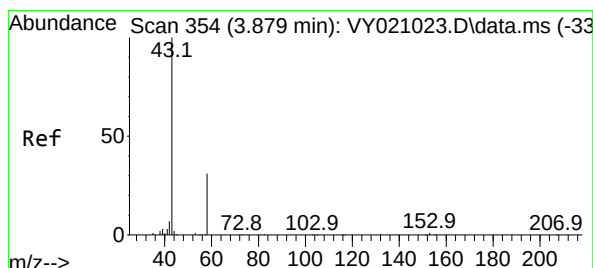
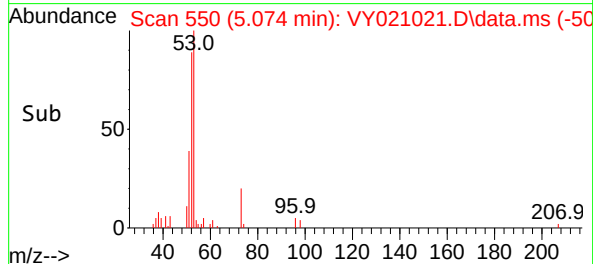
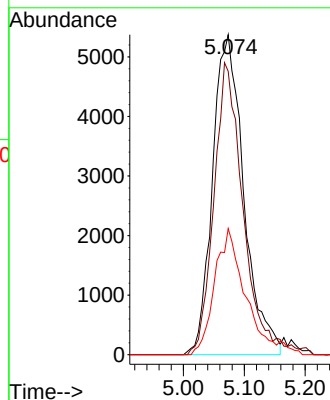
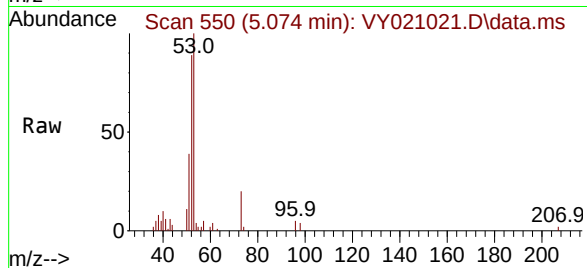
ClientSampleId :

VSTDICC010

Tgt Ion: 53	Resp: 19104
Ion Ratio	Lower Upper
53 100	
52 86.0	66.2 99.4
51 38.0	29.4 44.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#16

Acetone

Concen: 71.438 ug/l

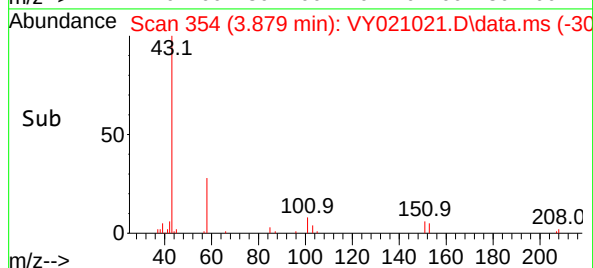
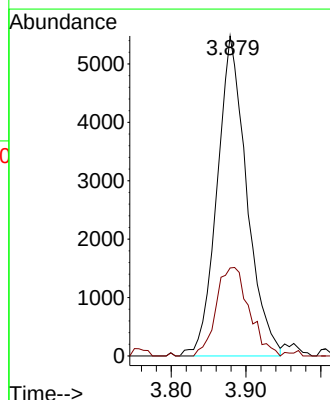
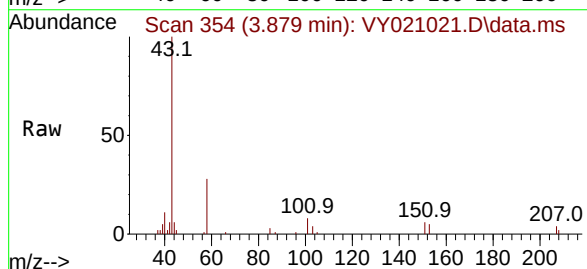
RT: 3.879 min Scan# 354

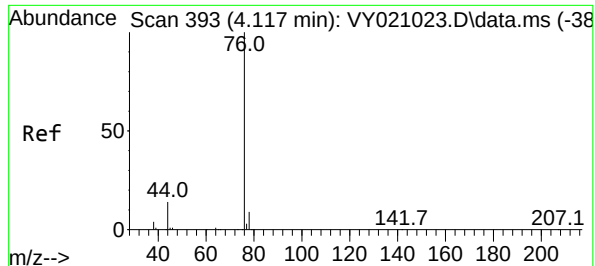
Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion: 43	Resp: 15112
Ion Ratio	Lower Upper
43 100	
58 27.5	28.4 42.6#





#17

Carbon Disulfide

Concen: 11.171 ug/l

RT: 4.116 min Scan# 393

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 5308

Ion Ratio Lower Upper

76 100

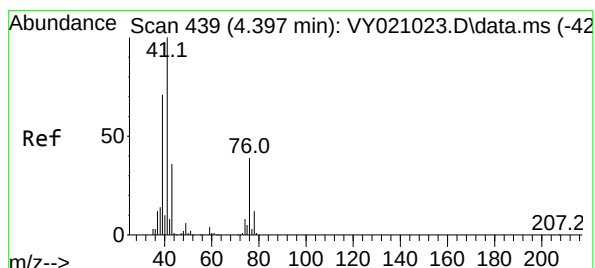
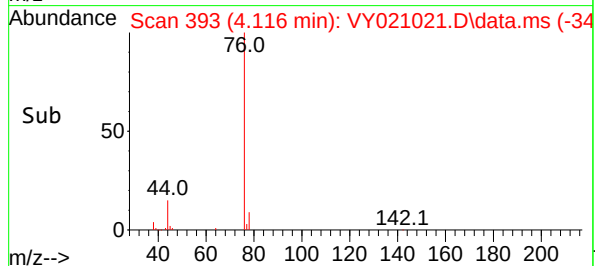
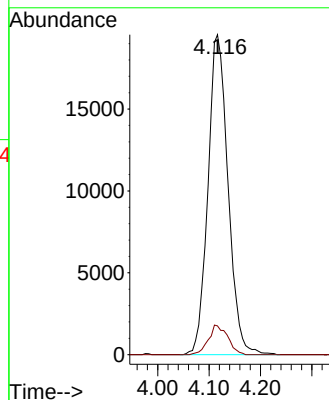
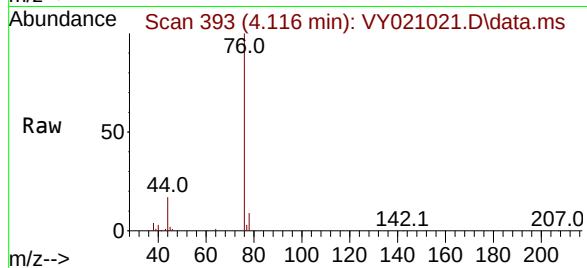
78 9.0 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#18

Methyl Acetate

Concen: 13.911 ug/l

RT: 4.397 min Scan# 439

Delta R.T. 0.006 min

Lab File: VY021021.D

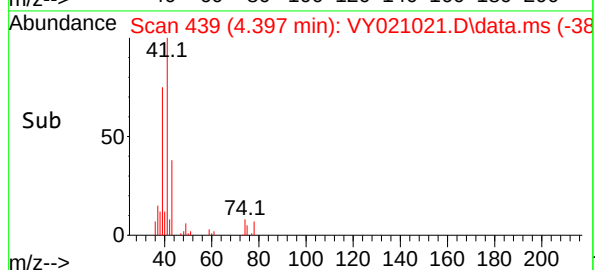
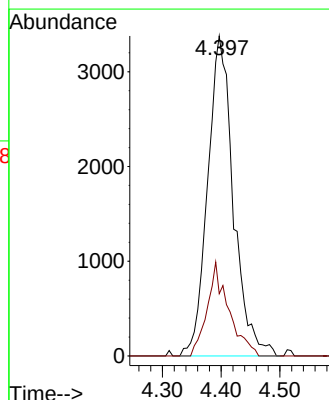
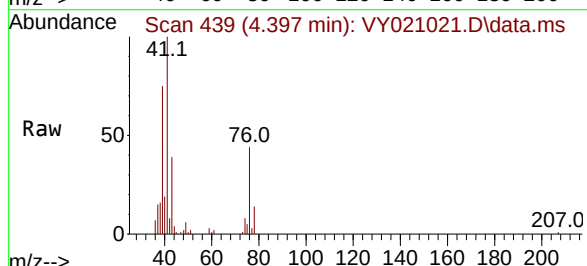
Acq: 03 Feb 2025 10:57

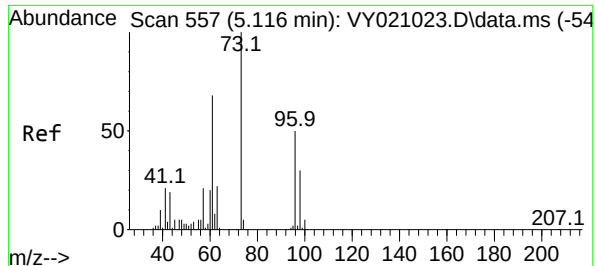
Tgt Ion: 43 Resp: 10297

Ion Ratio Lower Upper

43 100

74 24.6 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 12.033 ug/l

RT: 5.128 min Scan# 51

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 73 Resp: 43210

Ion Ratio Lower Upper

73 100

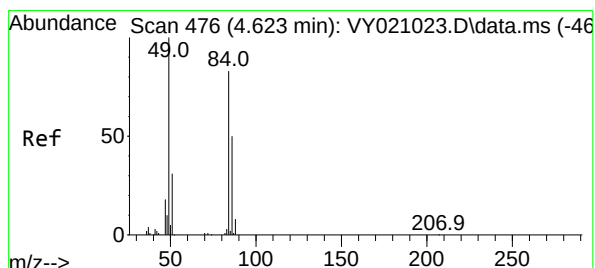
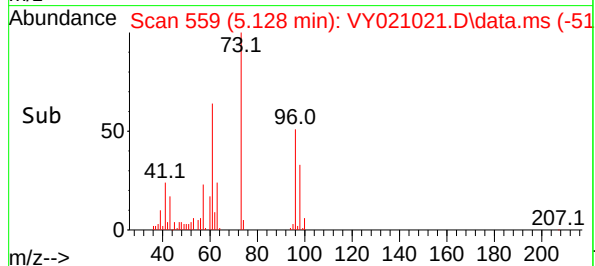
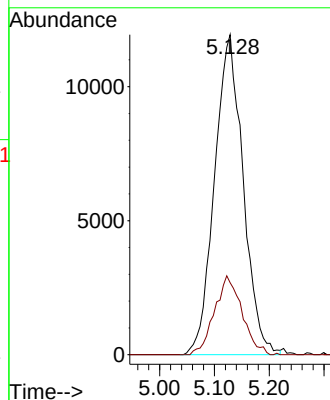
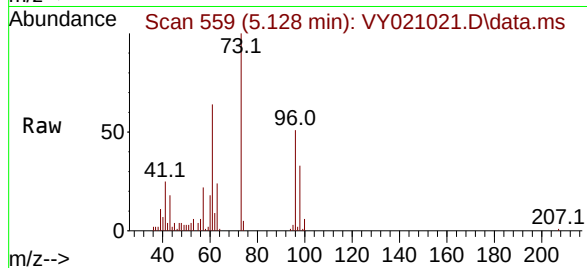
57 22.5 16.6 25.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#20

Methylene Chloride

Concen: 11.829 ug/l

RT: 4.622 min Scan# 476

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion: 84 Resp: 18455

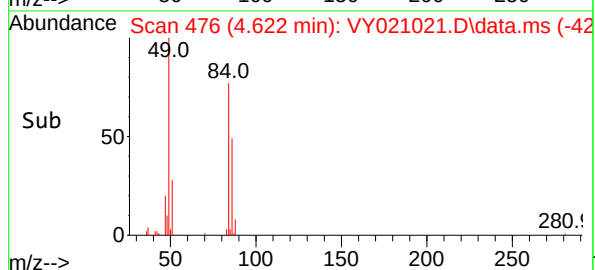
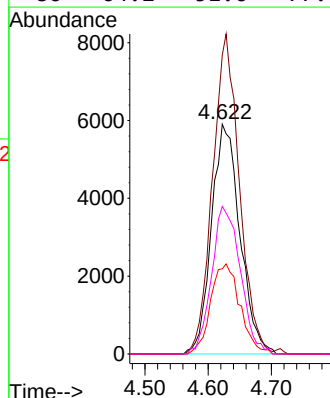
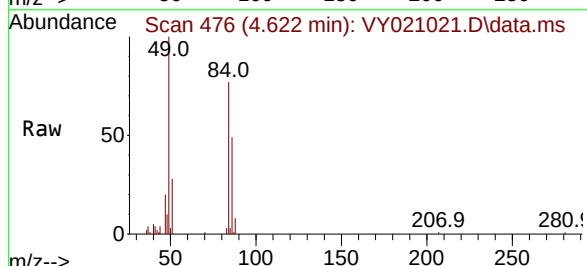
Ion Ratio Lower Upper

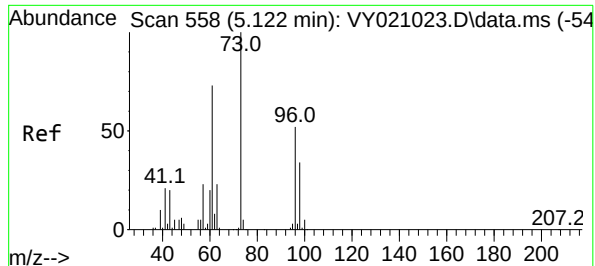
84 100

49 130.0 88.3 132.5

51 37.0 27.7 41.5

86 64.2 51.6 77.4





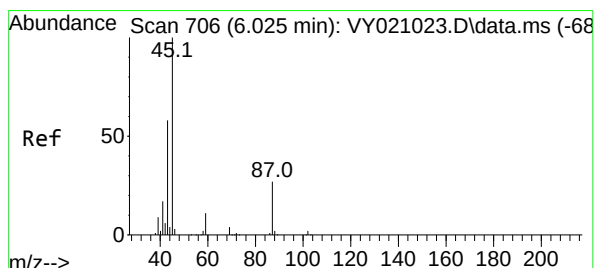
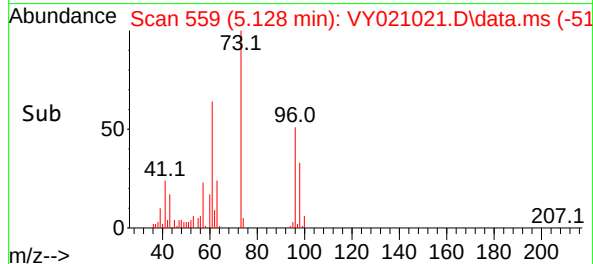
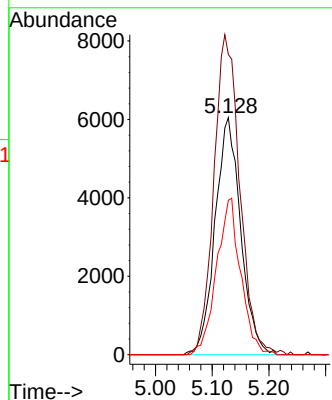
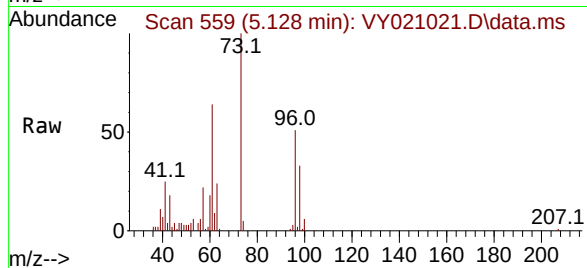
#21
trans-1,2-Dichloroethene
Concen: 11.426 ug/l
RT: 5.128 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 1890
Ion Ratio Lower Upper
96 100
61 126.5 101.5 152.3
98 65.1 52.0 78.0

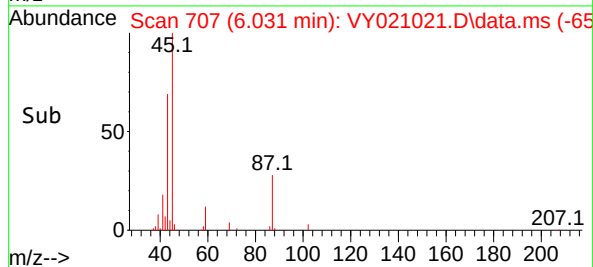
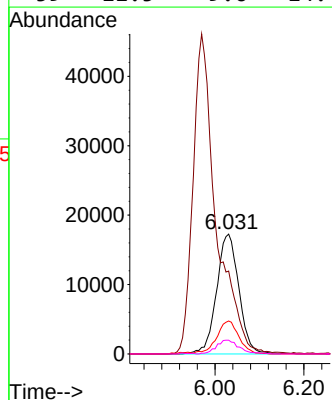
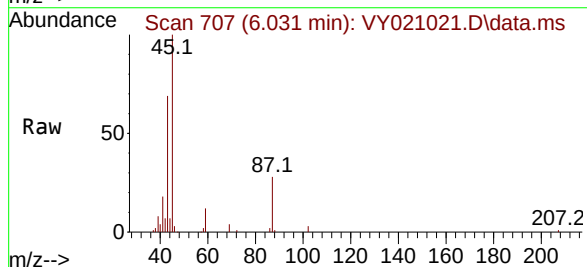
Manual Integrations
APPROVED

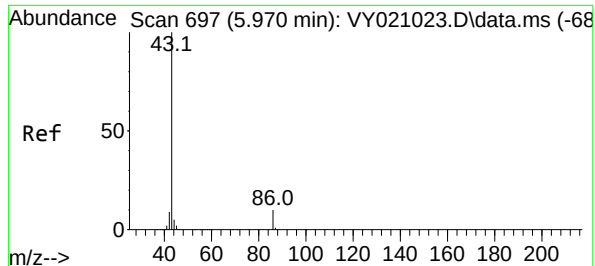
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#22
Diisopropyl ether
Concen: 13.831 ug/l
RT: 6.031 min Scan# 707
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion: 45 Resp: 59888
Ion Ratio Lower Upper
45 100
43 67.8 45.1 67.7#
87 27.5 25.0 37.4
59 11.5 9.6 14.4





#23

Vinyl Acetate

Concen: 69.409 ug/l

RT: 5.970 min Scan# 64

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 16643

Ion Ratio Lower Upper

43 100

86 9.9

9.7

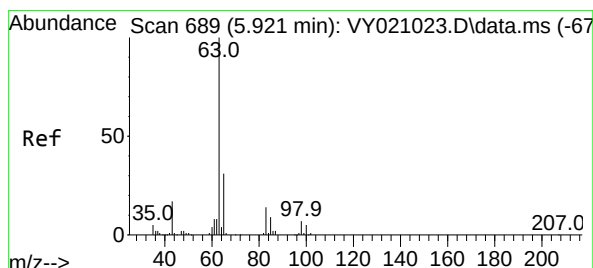
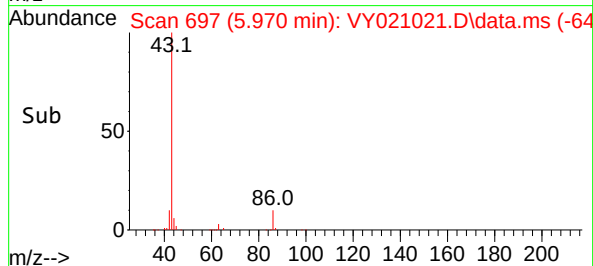
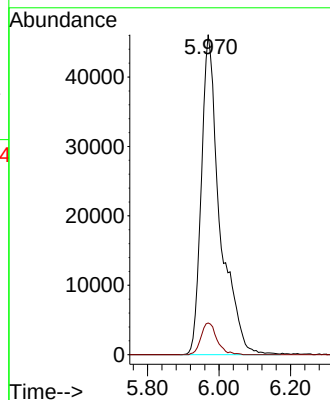
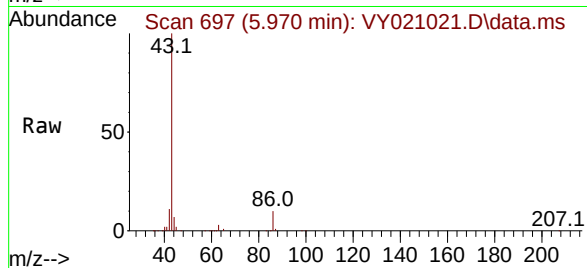
14.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#24

1,1-Dichloroethane

Concen: 12.375 ug/l

RT: 5.927 min Scan# 690

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion: 63 Resp: 34569

Ion Ratio Lower Upper

63 100

98 6.8

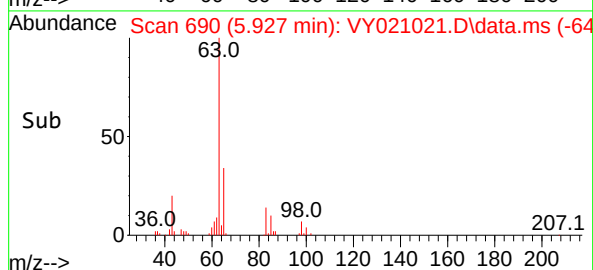
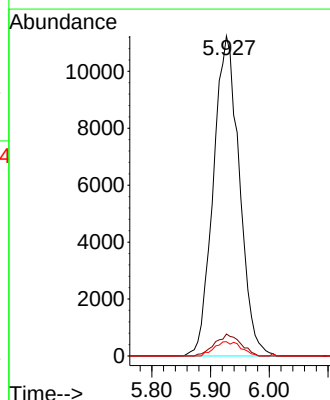
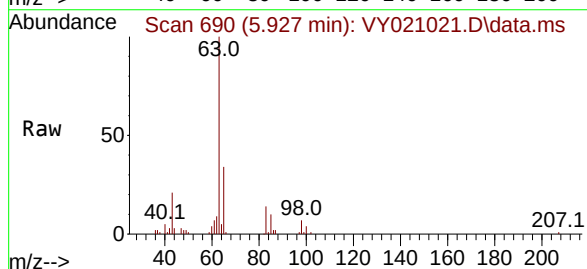
3.7

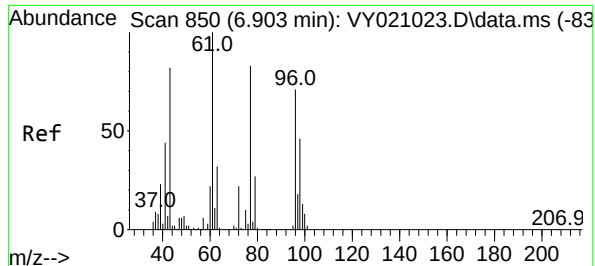
11.1

100 4.4

2.4

7.2





#25

2-Butanone

Concen: 67.624 ug/l

RT: 6.902 min Scan# 850

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 2426

Ion Ratio Lower Upper

43 100

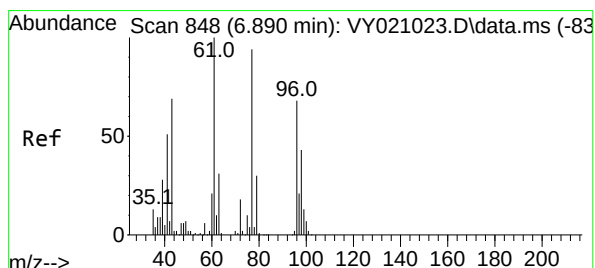
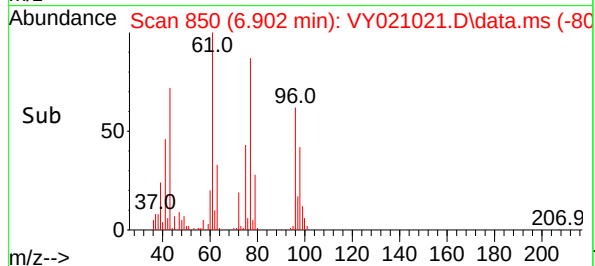
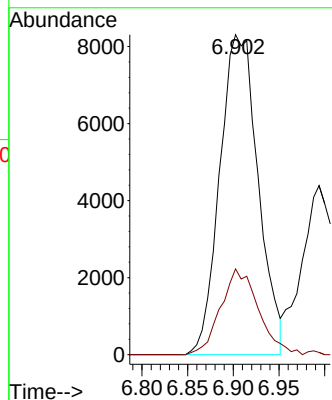
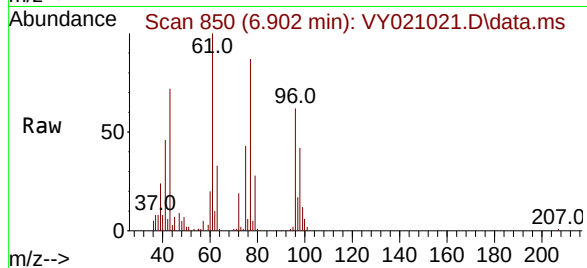
72 26.8 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#26

2,2-Dichloropropane

Concen: 11.915 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.006 min

Lab File: VY021021.D

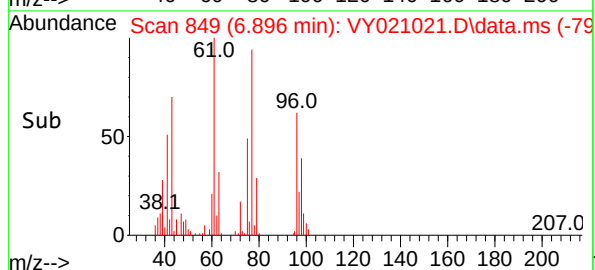
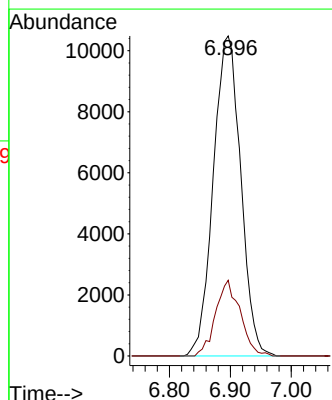
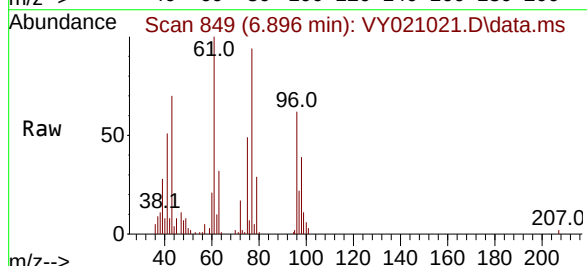
Acq: 03 Feb 2025 10:57

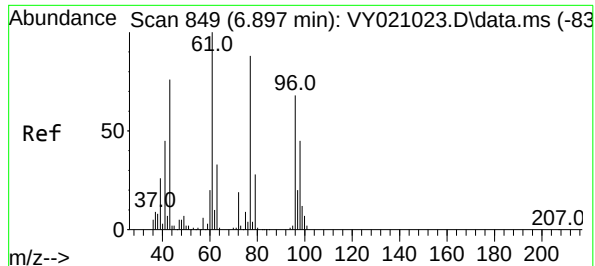
Tgt Ion: 77 Resp: 32771

Ion Ratio Lower Upper

77 100

97 21.3 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 11.206 ug/l

RT: 6.902 min Scan# 849

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

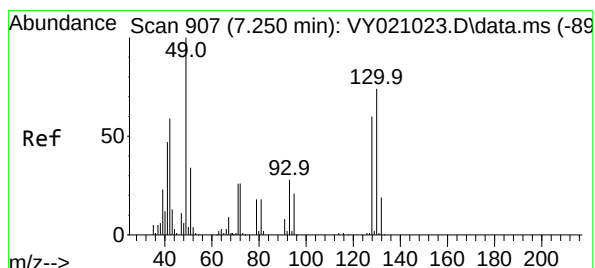
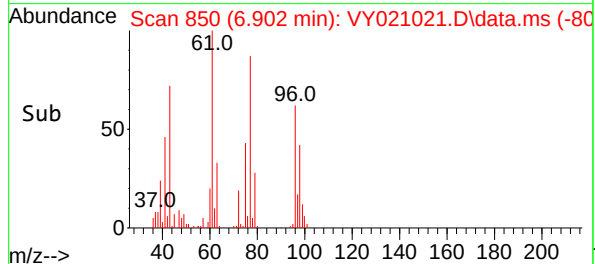
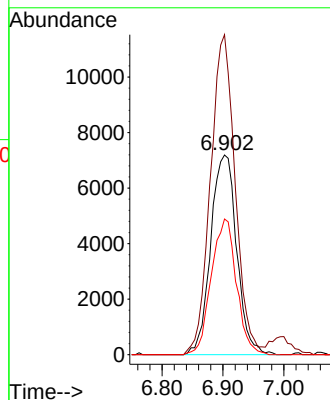
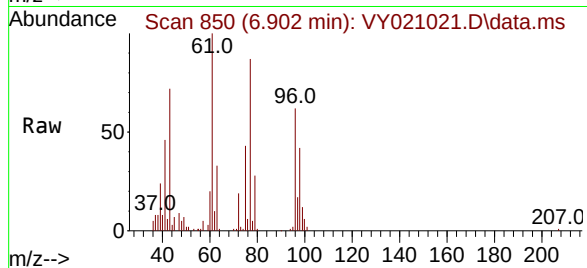
ClientSampleId :

VSTDIC010

Tgt Ion:	96	Resp:	21309
Ion	Ratio	Lower	Upper
96	100		
61	152.6	0.0	274.0
98	65.8	0.0	130.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#28

Bromochloromethane

Concen: 12.892 ug/l

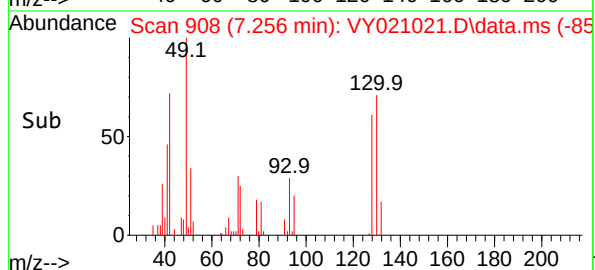
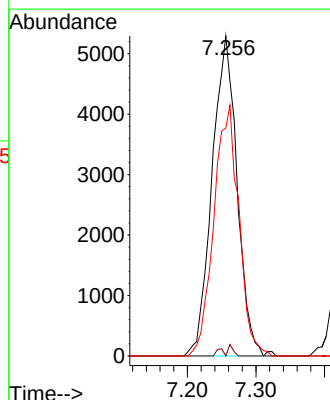
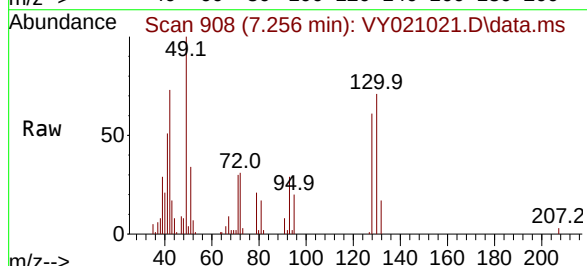
RT: 7.256 min Scan# 908

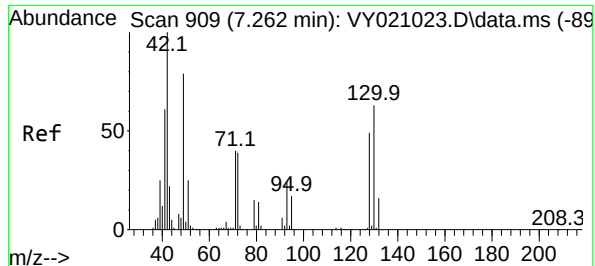
Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	49	Resp:	13417
Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	5.0
130	78.2	73.2	109.8





#29

Tetrahydrofuran

Concen: 69.395 ug/l

RT: 7.274 min Scan# 911

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

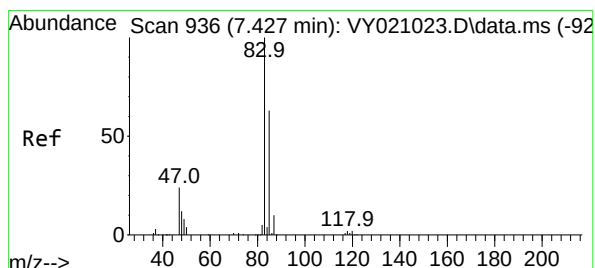
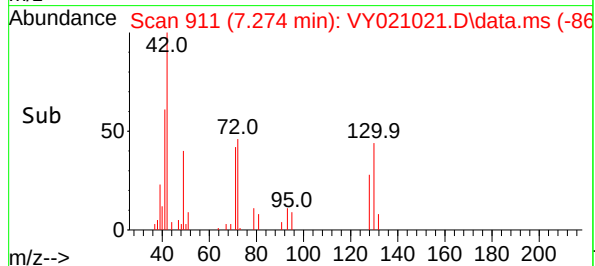
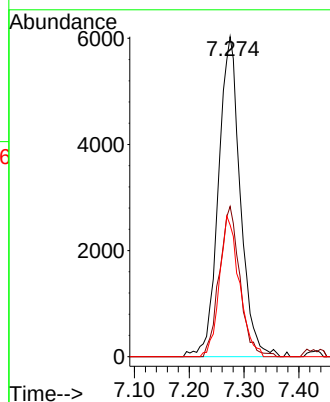
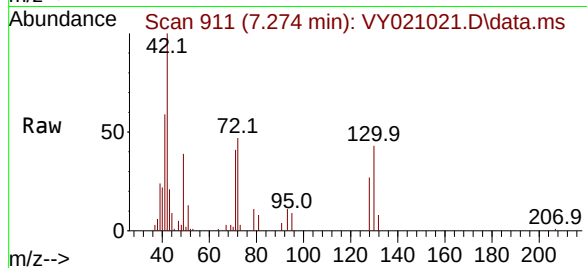
ClientSampleId :

VSTDIC010

Tgt Ion:	42	Resp:	16758
Ion	Ratio	Lower	Upper
42	100		
72	43.8	39.3	58.9
71	39.8	36.1	54.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#30

Chloroform

Concen: 12.247 ug/l

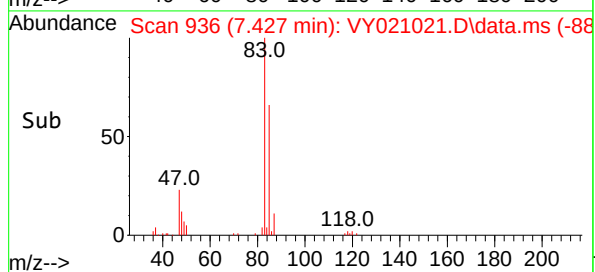
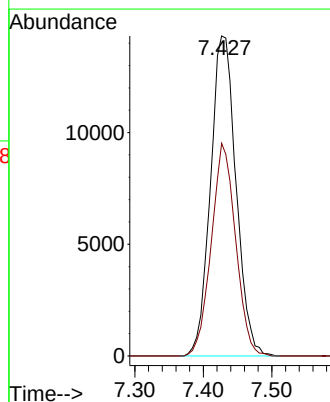
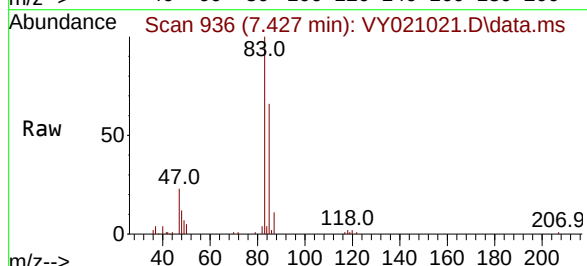
RT: 7.427 min Scan# 936

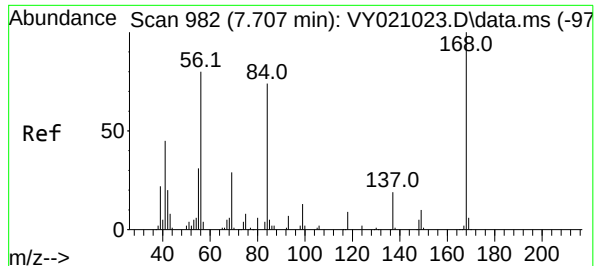
Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	83	Resp:	37054
Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.9	79.3





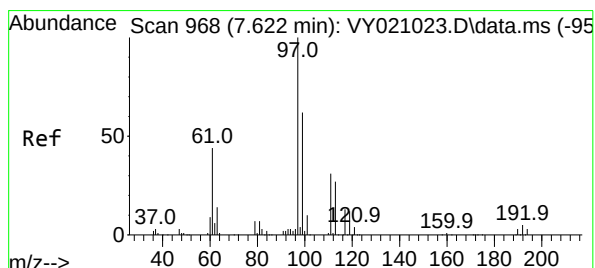
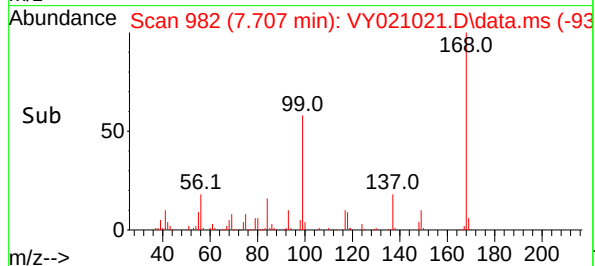
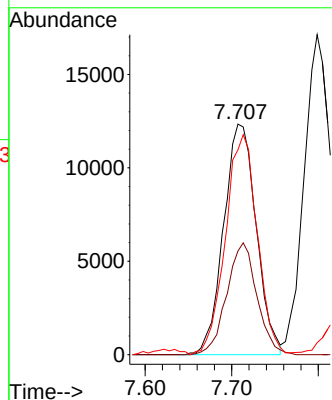
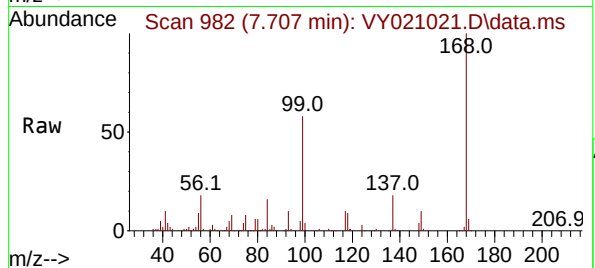
#31
Cyclohexane
Concen: 11.819 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 32272
Ion Ratio Lower Upper
56 100
69 44.9 27.7 41.5
84 87.6 77.5 116.3

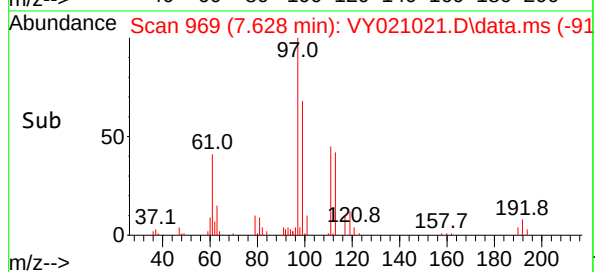
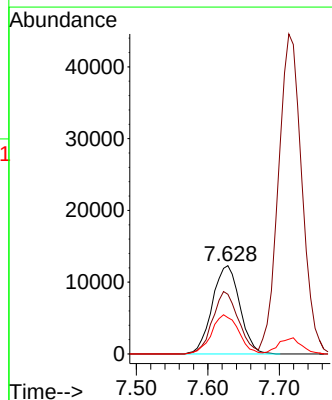
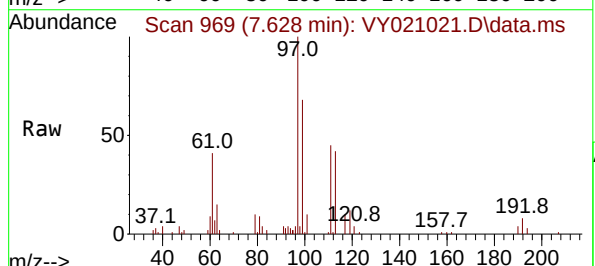
Manual Integrations
APPROVED

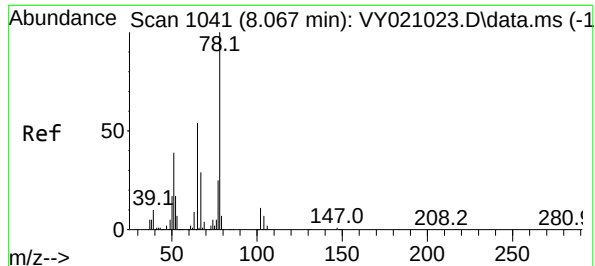
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#32
1,1,1-Trichloroethane
Concen: 11.223 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion: 97 Resp: 32862
Ion Ratio Lower Upper
97 100
99 66.6 51.4 77.0
61 43.8 31.4 47.0





#33

1,2-Dichloroethane-d4

Concen: 13.075 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 65 Resp: 20294

Ion Ratio Lower Upper

65 100

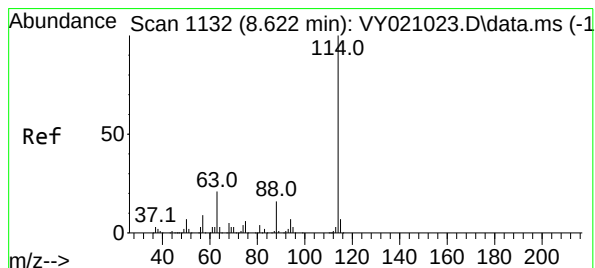
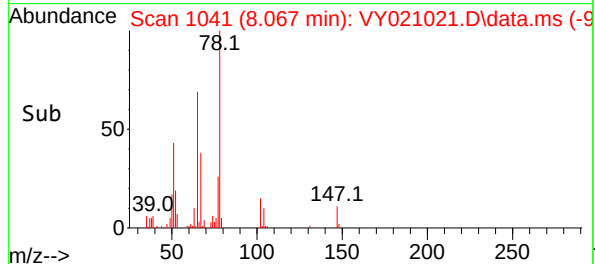
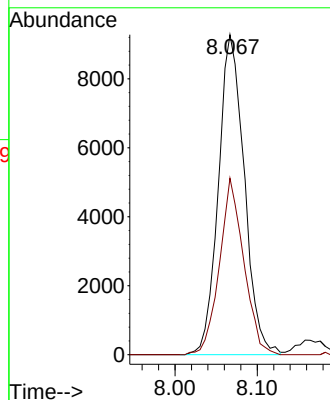
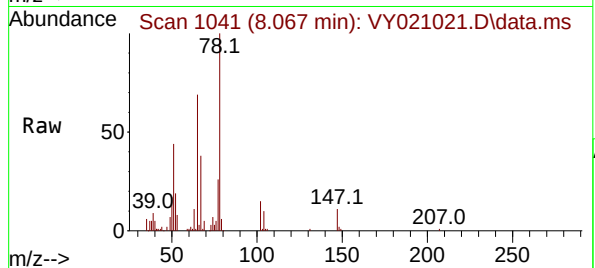
67 51.8 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

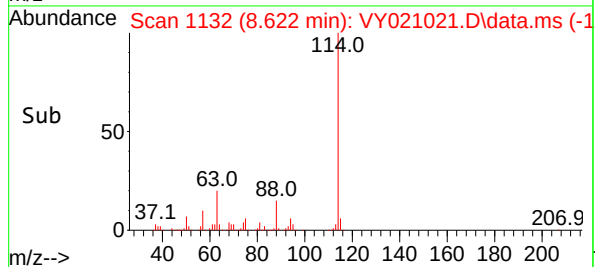
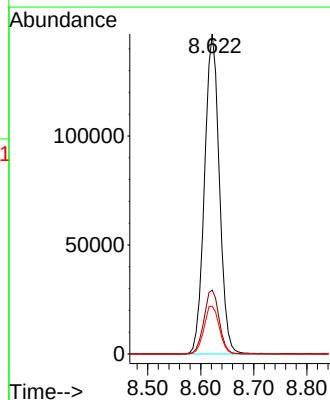
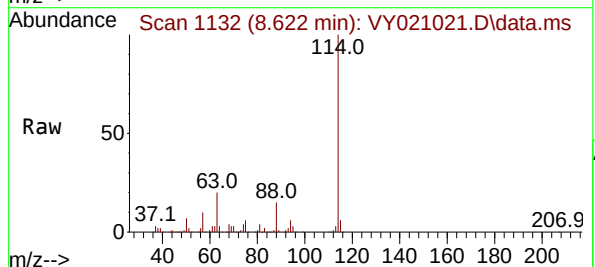
Tgt Ion:114 Resp: 285332

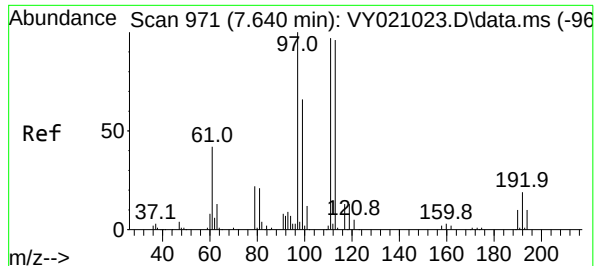
Ion Ratio Lower Upper

114 100

63 20.0 0.0 37.2

88 15.0 0.0 29.6





#35

Dibromofluoromethane

Concen: 10.859 ug/l

RT: 7.646 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

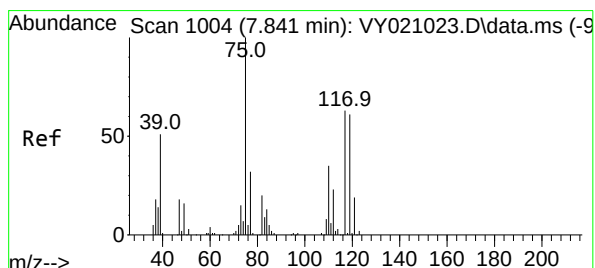
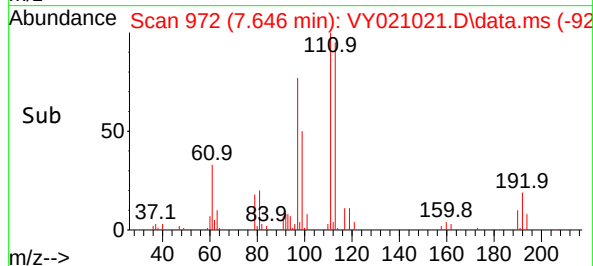
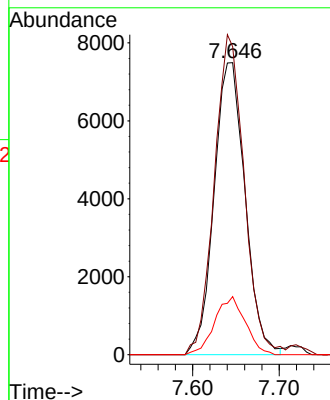
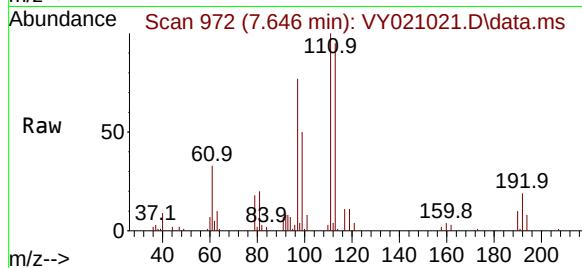
ClientSampleId :

VSTDICC010

Tgt Ion:	113	Resp:	1862
Ion	Ratio	Lower	Upper
113	100		
111	105.3	82.6	123.8
192	19.6	16.8	25.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#36

1,1-Dichloropropene

Concen: 10.820 ug/l

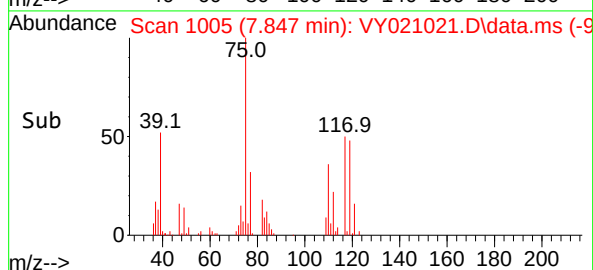
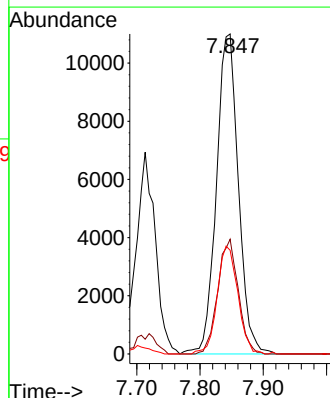
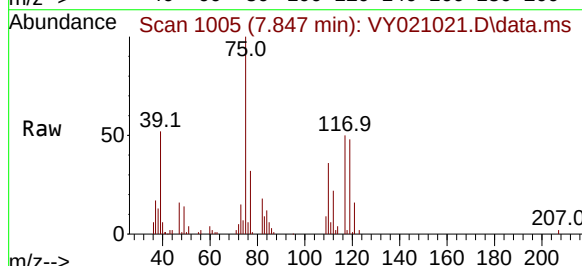
RT: 7.847 min Scan# 1005

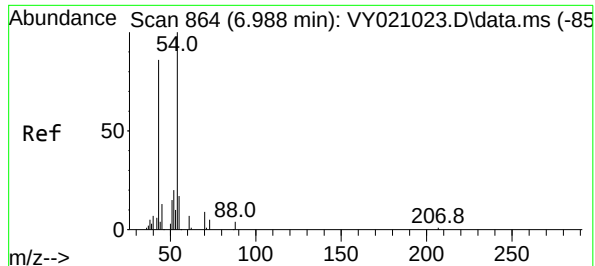
Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	75	Resp:	26479
Ion	Ratio	Lower	Upper
75	100		
110	33.6	18.4	55.2
77	31.8	24.9	37.3





#37

Ethyl Acetate

Concen: 13.017 ug/l

RT: 6.994 min Scan# 80

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

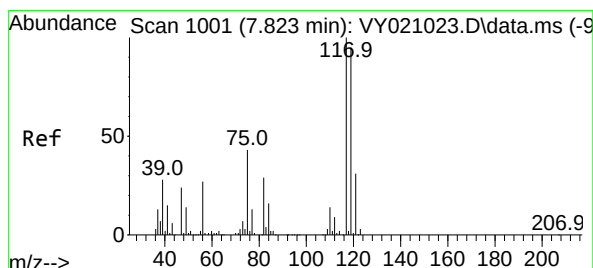
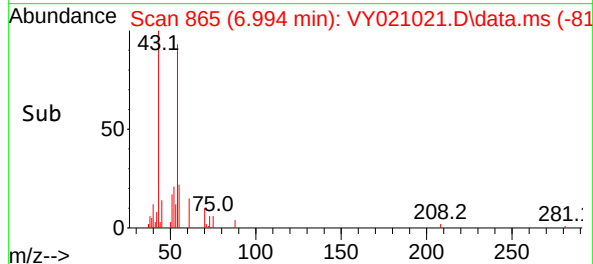
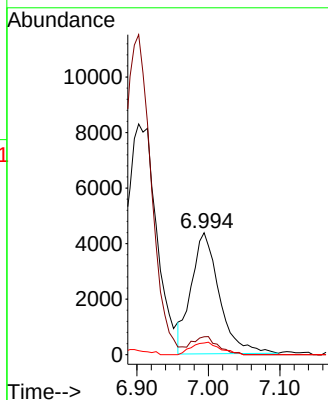
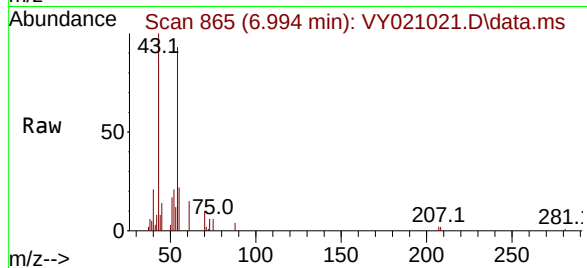
Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC010

Tgt Ion:	43	Resp:	11870
Ion	Ratio	Lower	Upper
43	100		
61	13.2	11.4	17.0
70	10.3	9.6	14.4

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#38

Carbon Tetrachloride

Concen: 10.389 ug/l

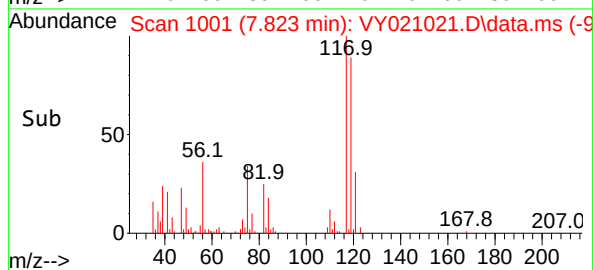
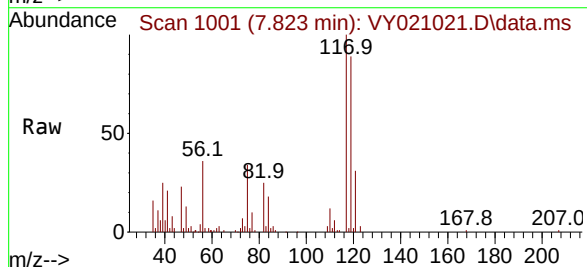
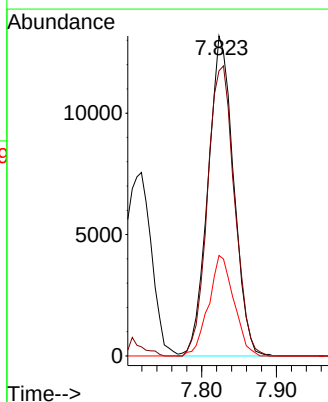
RT: 7.823 min Scan# 1001

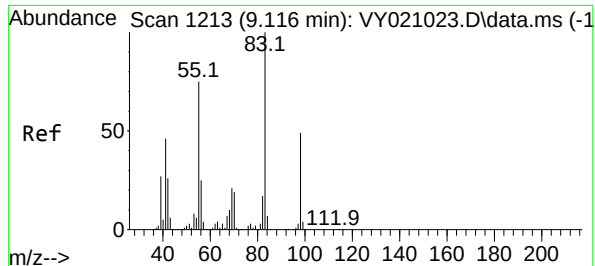
Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	117	Resp:	31462
Ion	Ratio	Lower	Upper
117	100		
119	89.1	75.0	112.6
121	31.4	24.2	36.2





#39

Methylcyclohexane

Concen: 9.549 ug/l

RT: 9.115 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

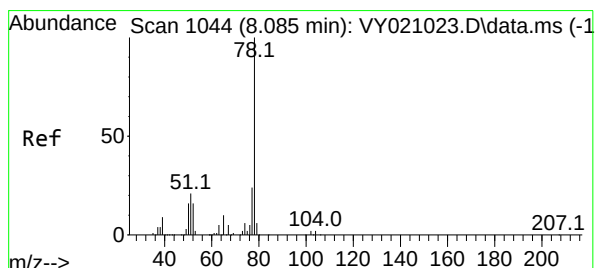
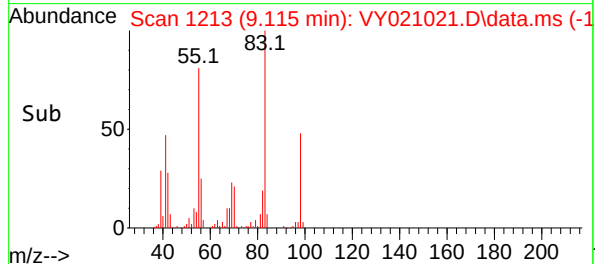
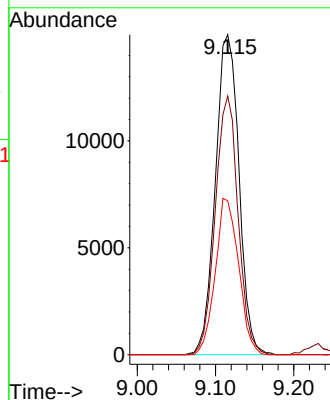
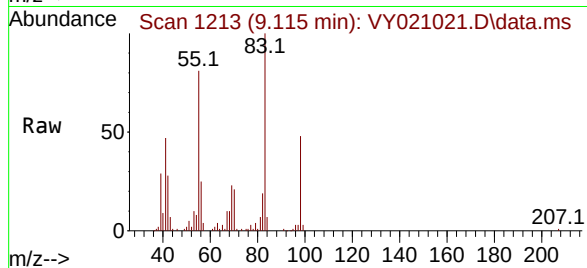
VSTDIC010

Tgt Ion:	83	Resp:	3139
Ion	Ratio	Lower	Upper
83	100		
55	80.9	54.9	82.3
98	48.1	40.5	60.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#40

Benzene

Concen: 10.950 ug/l

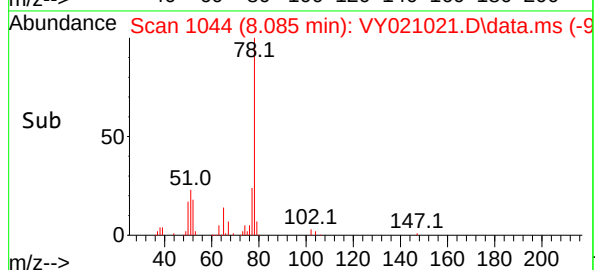
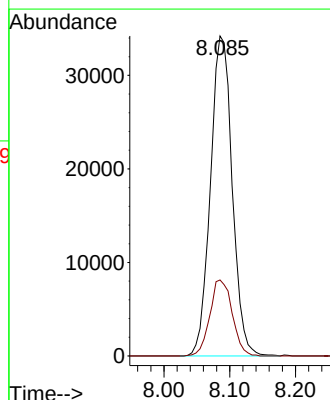
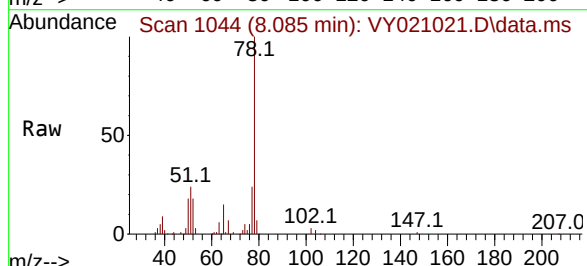
RT: 8.085 min Scan# 1044

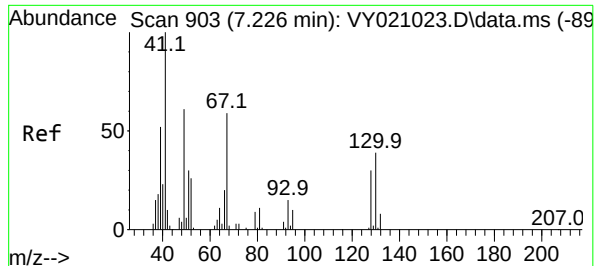
Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	78	Resp:	78846
Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.4	29.2





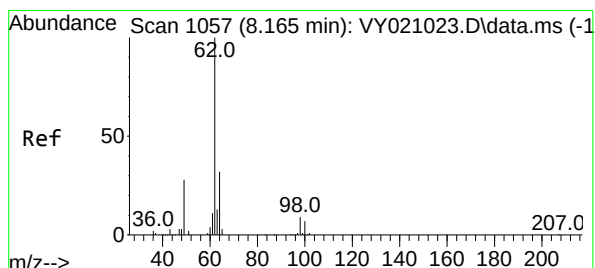
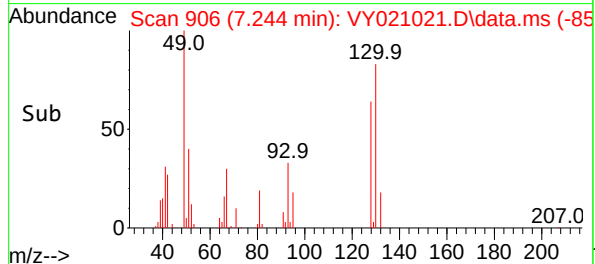
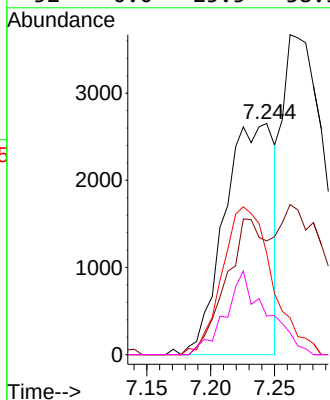
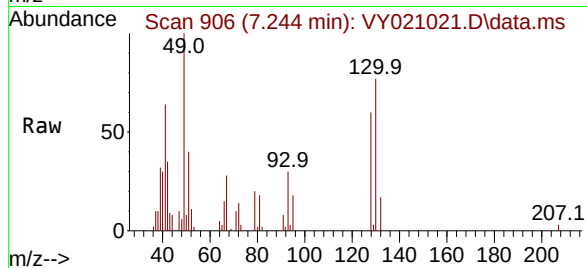
#41
Methacrylonitrile
Concen: 14.253 ug/l m
RT: 7.244 min Scan# 903
Delta R.T. 0.019 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:	41	Resp:	719
Ion Ratio	Lower	Upper	
41	100		
39	57.7	41.6	62.4
67	0.0	63.8	95.6
52	0.0	25.5	38.3

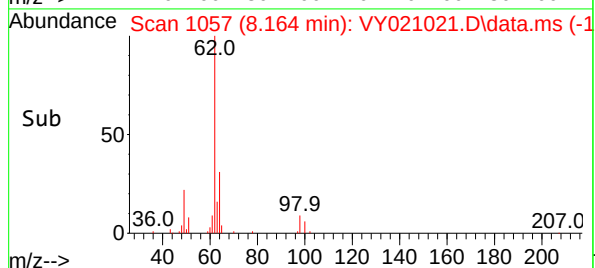
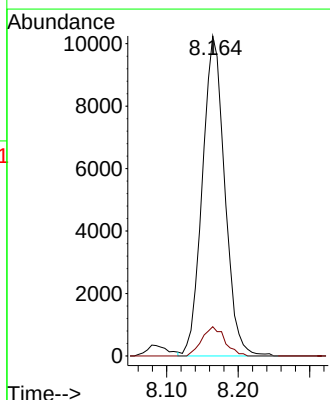
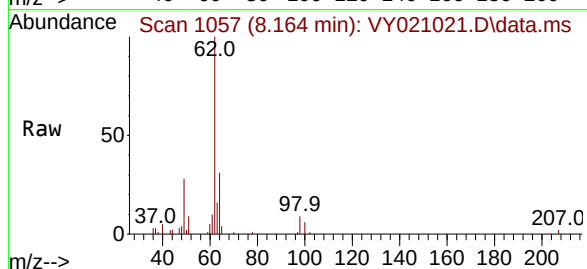
Manual Integrations
APPROVED

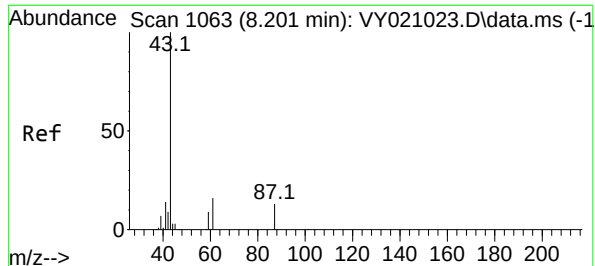
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#42
1,2-Dichloroethane
Concen: 12.201 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion:	62	Resp:	22281
Ion Ratio	Lower	Upper	
62	100		
98	9.4	0.0	19.4





#43

Isopropyl Acetate

Concen: 13.055 ug/l

RT: 8.207 min Scan# 1064

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

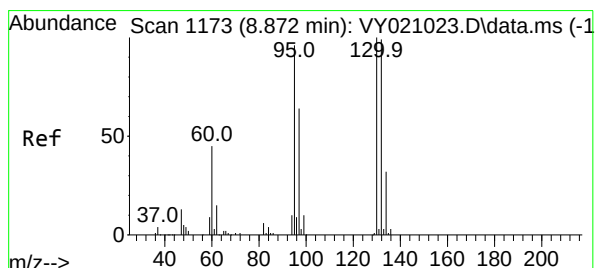
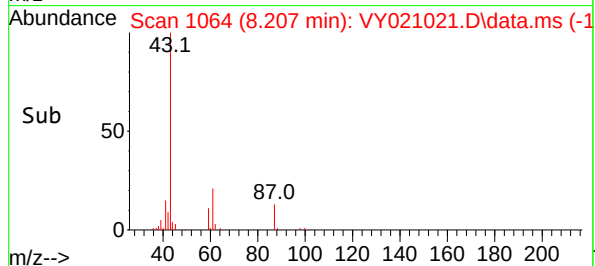
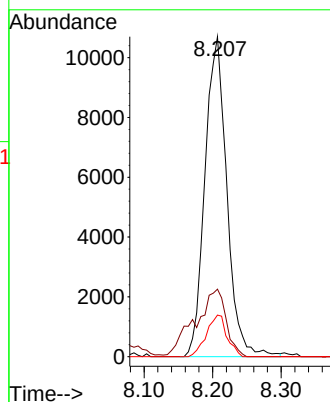
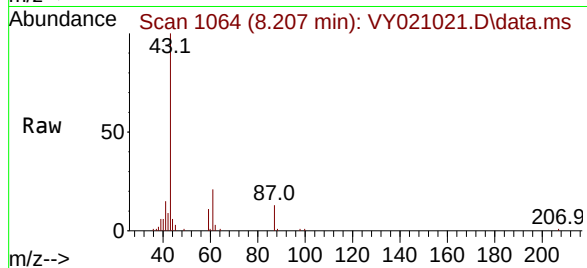
Tgt Ion: 43	Resp: 2379
Ion Ratio	Lower Upper
43	100
61	29.8 15.8 23.6
87	12.1 12.5 18.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#44

Trichloroethene

Concen: 10.197 ug/l

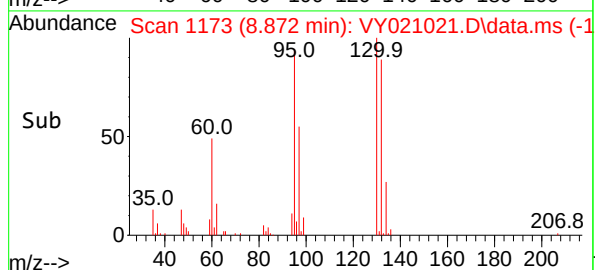
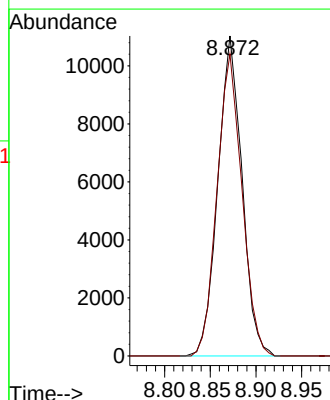
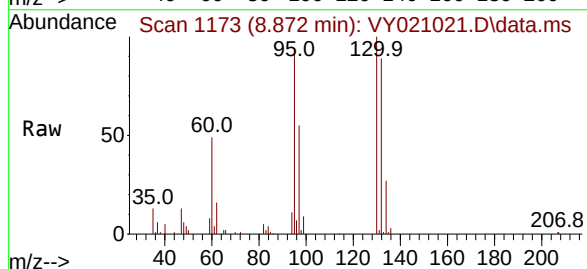
RT: 8.872 min Scan# 1173

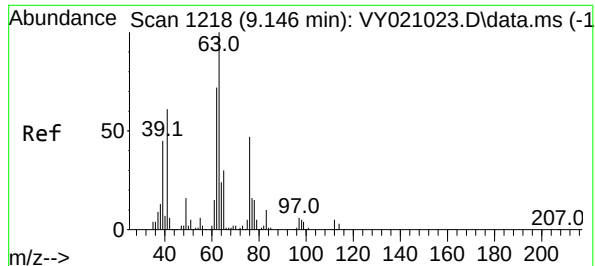
Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:130	Resp: 20261
Ion Ratio	Lower Upper
130	100
95	94.4 0.0 189.6





#45

1,2-Dichloropropane

Concen: 11.627 ug/l

RT: 9.146 min Scan# 1218

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 63 Resp: 1876

Ion Ratio Lower Upper

63 100

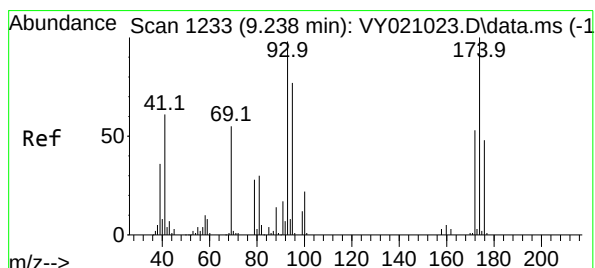
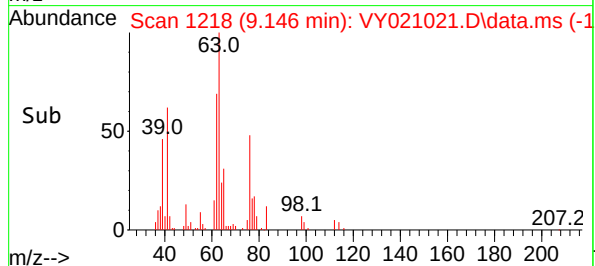
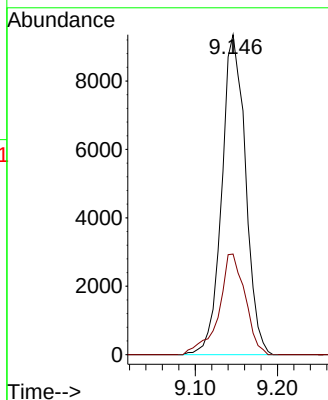
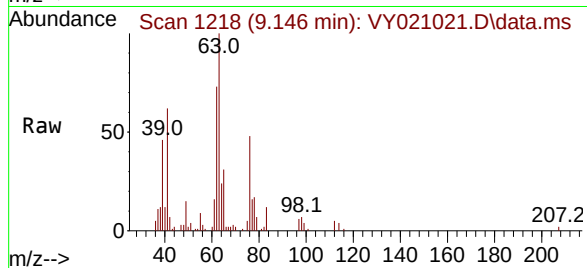
65 31.5 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#46

Dibromomethane

Concen: 11.191 ug/l

RT: 9.237 min Scan# 1233

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

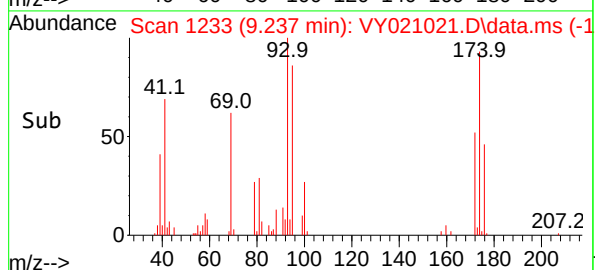
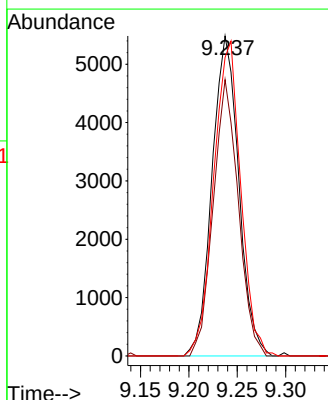
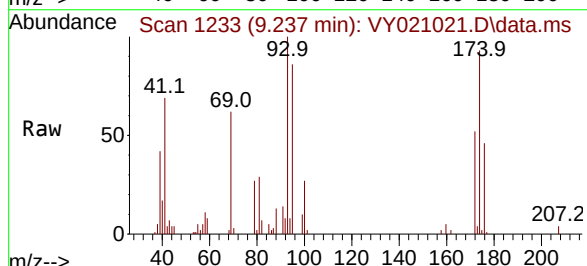
Tgt Ion: 93 Resp: 10511

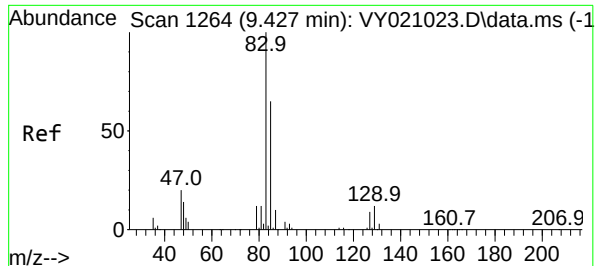
Ion Ratio Lower Upper

93 100

95 81.3 65.8 98.8

174 99.5 88.1 132.1





#47

Bromodichloromethane

Concen: 11.570 ug/l

RT: 9.432 min Scan# 1265

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

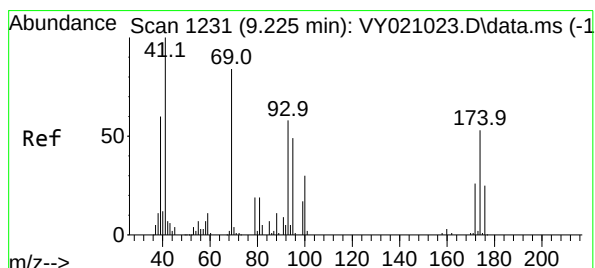
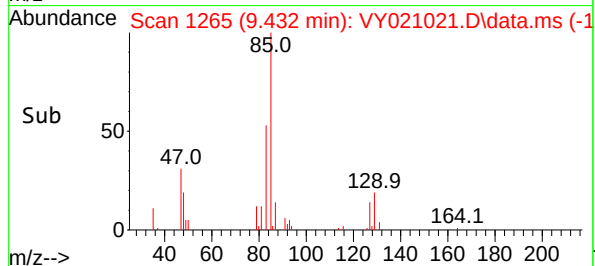
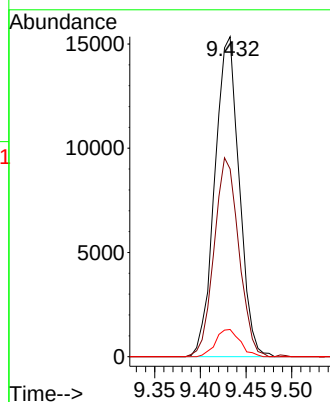
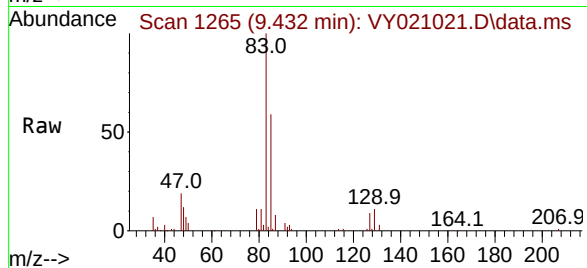
ClientSampleId :

VSTDICC010

Tgt Ion:	83	Resp:	2853
Ion	Ratio	Lower	Upper
83	100		
85	58.7	49.6	74.4
127	8.5	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#48

Methyl methacrylate

Concen: 11.866 ug/l

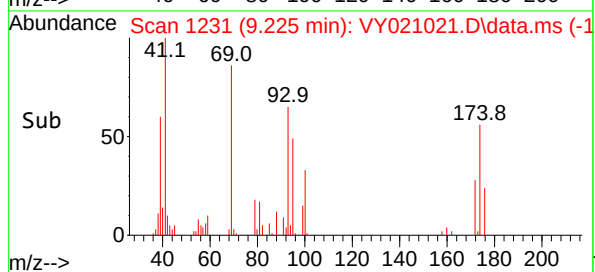
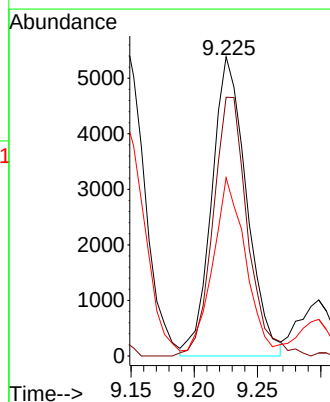
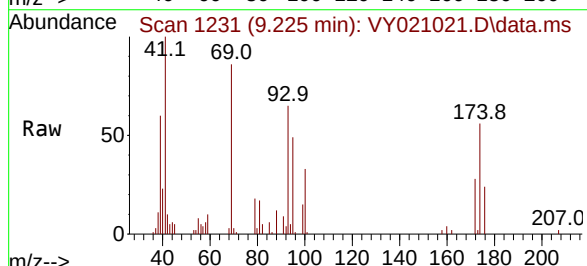
RT: 9.225 min Scan# 1231

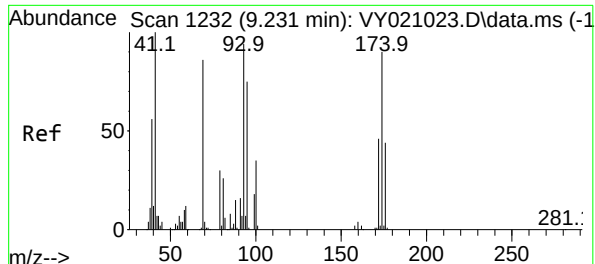
Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	41	Resp:	10297
Ion	Ratio	Lower	Upper
41	100		
69	85.7	75.6	113.4
39	54.0	41.3	61.9





#49

1,4-Dioxane

Concen: 188.876 ug/l

RT: 9.231 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

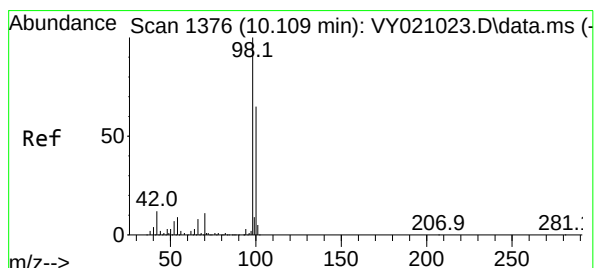
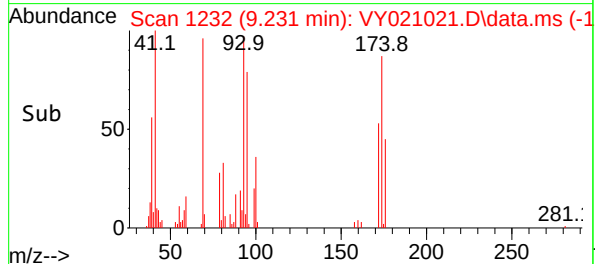
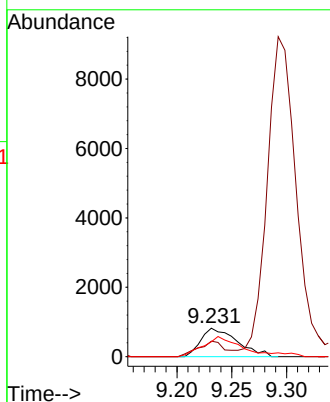
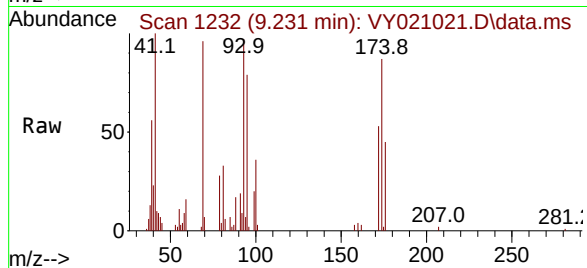
ClientSampleId :

VSTDICC010

Tgt Ion:	88	Resp:	188
Ion	Ratio	Lower	Upper
88	100		
43	39.2	24.2	36.4
58	79.4	57.3	85.9

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#50

Toluene-d8

Concen: 10.540 ug/l

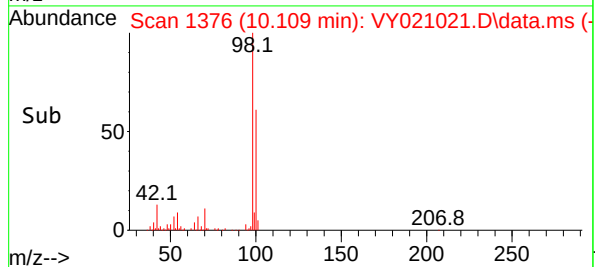
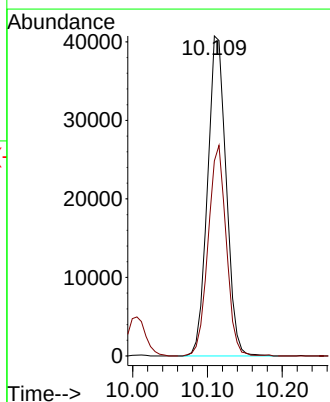
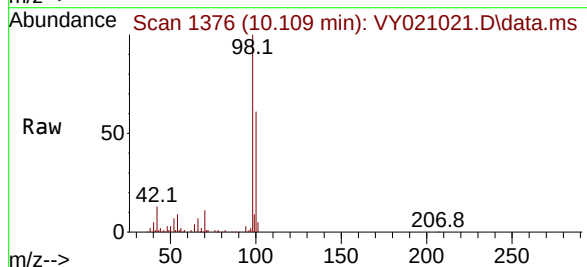
RT: 10.109 min Scan# 1376

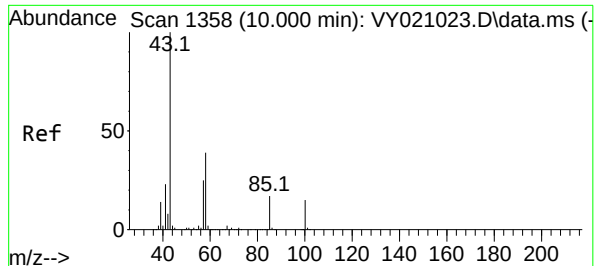
Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	98	Resp:	70569
Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.6	79.0





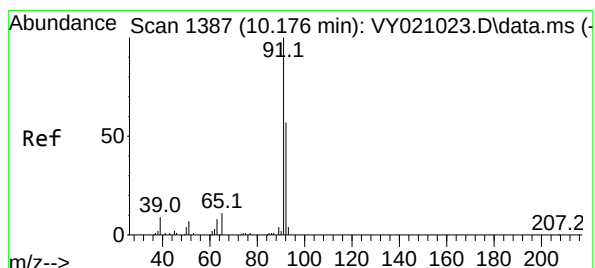
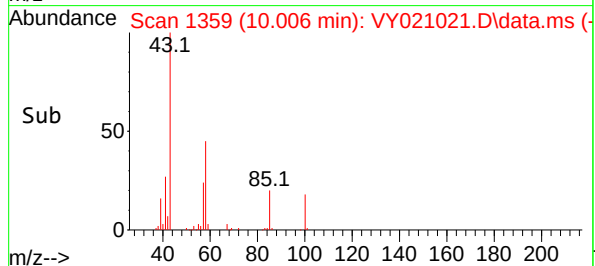
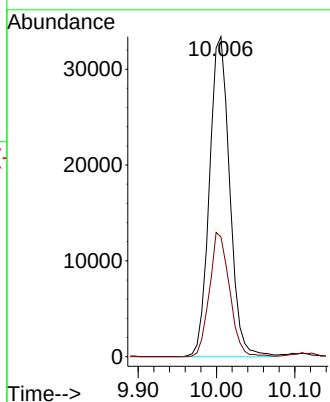
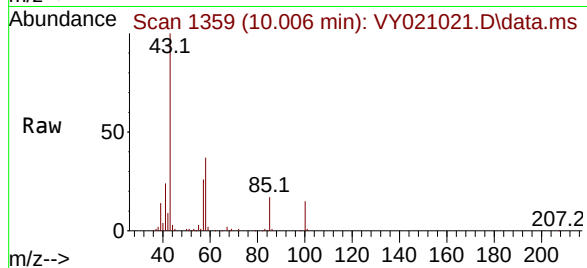
#51
4-Methyl-2-Pentanone
Concen: 64.159 ug/l
RT: 10.006 min Scan# 1358
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 60088
Ion Ratio Lower Upper
43 100
58 38.5 33.8 50.8

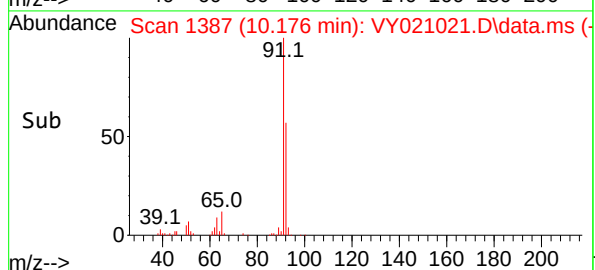
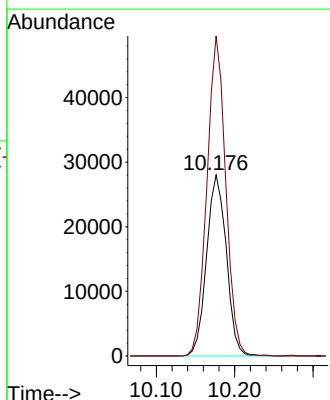
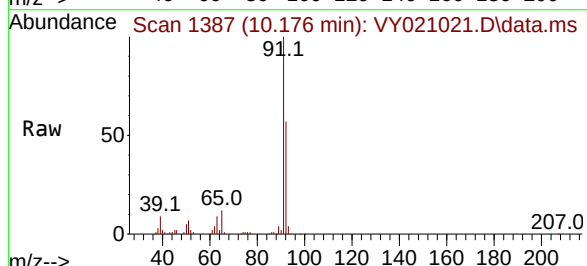
Manual Integrations
APPROVED

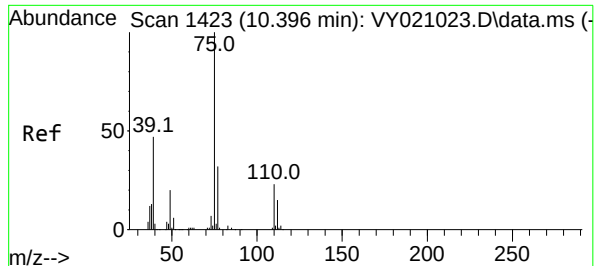
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#52
Toluene
Concen: 10.457 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

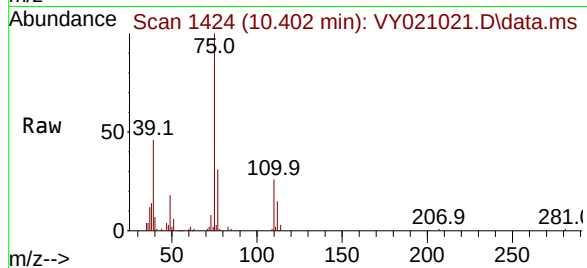
Tgt Ion: 92 Resp: 48876
Ion Ratio Lower Upper
92 100
91 168.9 135.8 203.8





#53
t-1,3-Dichloropropene
Concen: 10.888 ug/l
RT: 10.402 min Scan# 1424
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

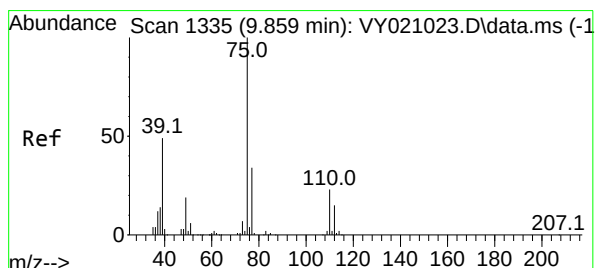
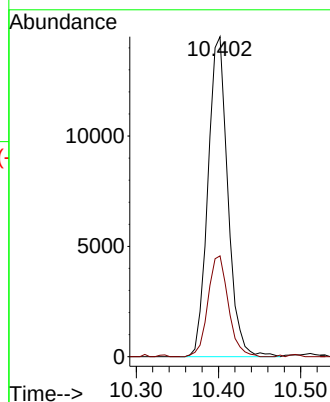
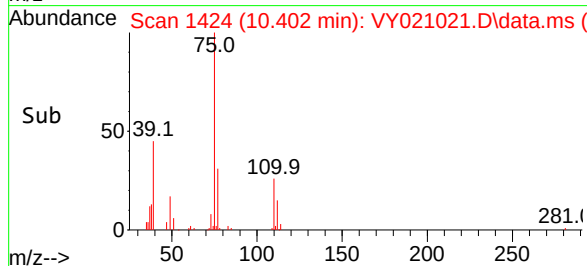
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010



Tgt Ion: 75 Resp: 2430
Ion Ratio Lower Upper
75 100
77 31.5 25.9 38.9

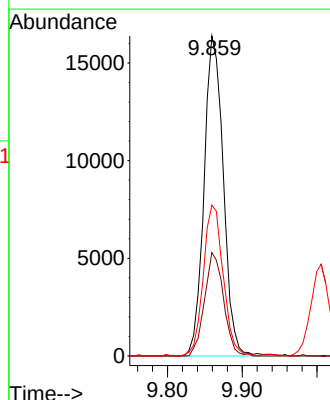
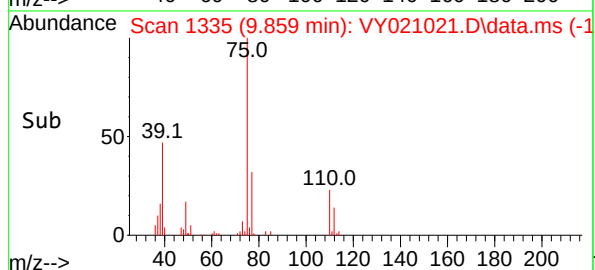
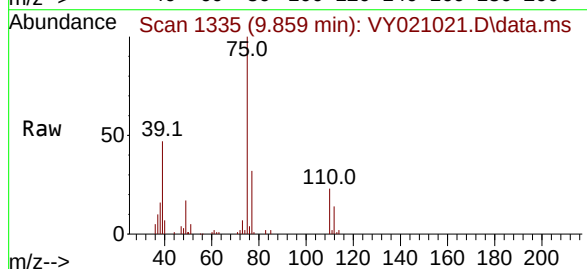
Manual Integrations
APPROVED

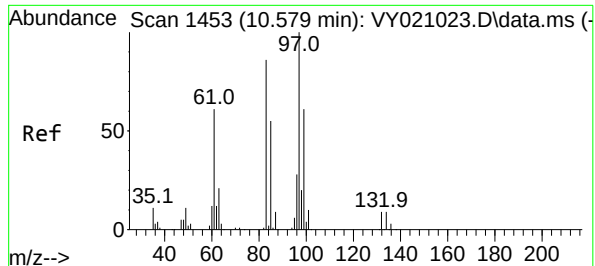
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#54
cis-1,3-Dichloropropene
Concen: 11.031 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion: 75 Resp: 29426
Ion Ratio Lower Upper
75 100
77 32.3 25.4 38.0
39 47.1 32.2 48.2





#55

1,1,2-Trichloroethane

Concen: 10.748 ug/l

RT: 10.579 min Scan# 1453

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

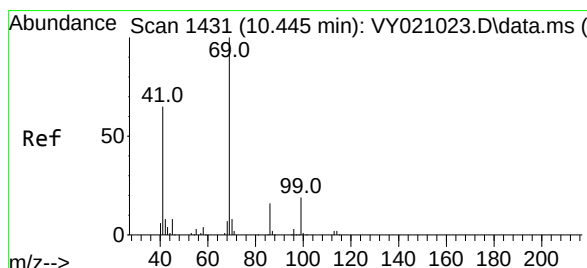
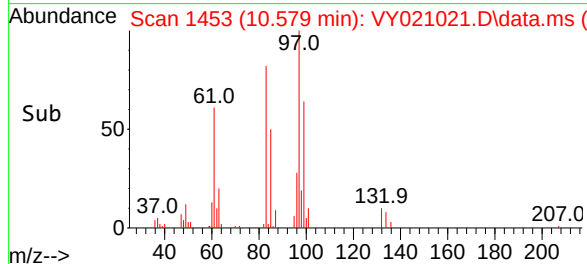
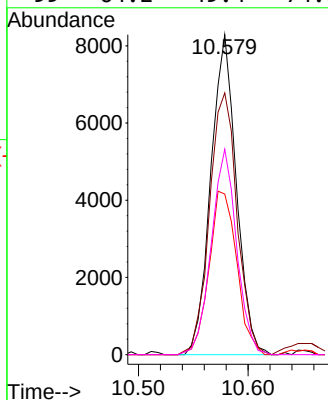
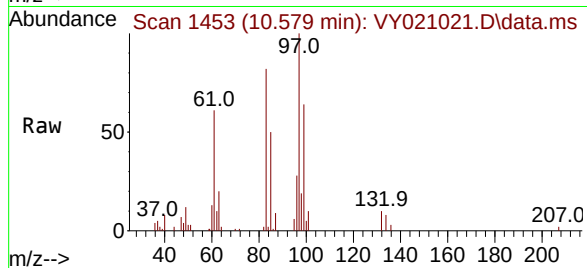
VSTDICC010

Tgt Ion:	97	Resp:	1342
Ion	Ratio	Lower	Upper
97	100		
83	81.8	67.7	101.5
85	50.2	43.4	65.2
99	64.2	49.4	74.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#56

Ethyl methacrylate

Concen: 10.341 ug/l

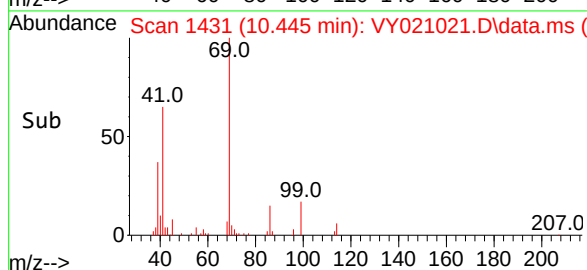
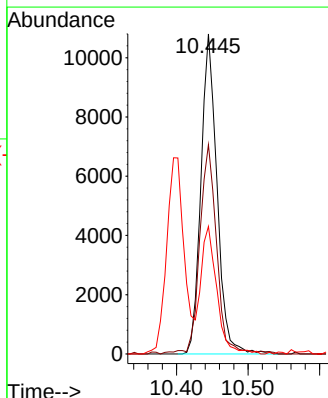
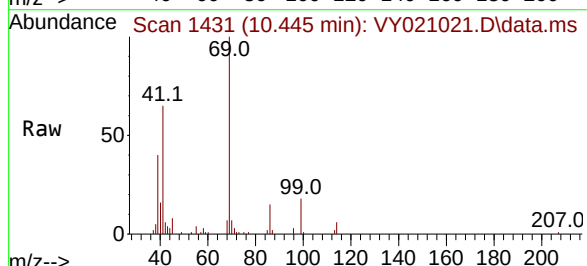
RT: 10.445 min Scan# 1431

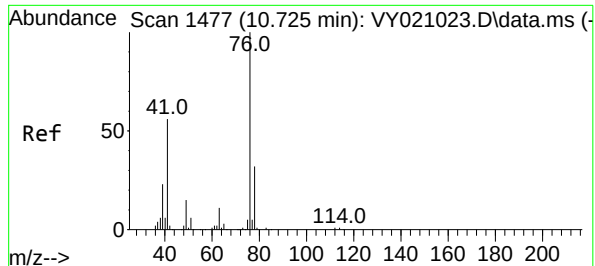
Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	69	Resp:	16883
Ion	Ratio	Lower	Upper
69	100		
41	68.3	46.3	69.5
39	38.7	24.5	36.7





#57

1,3-Dichloropropane

Concen: 11.042 ug/l

RT: 10.725 min Scan# 1477

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 2337

Ion Ratio Lower Upper

76 100

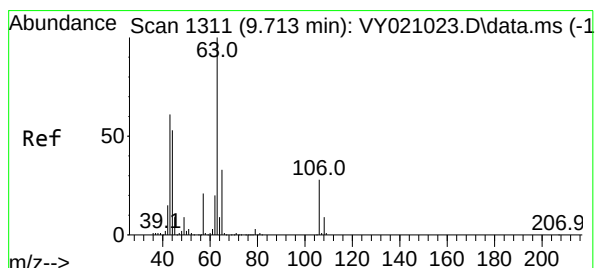
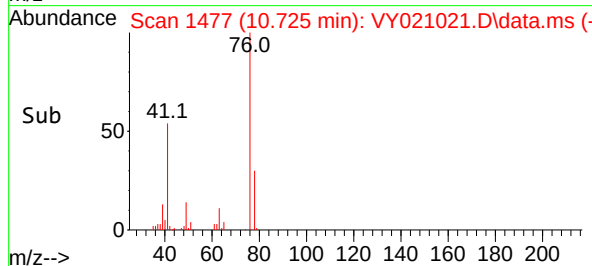
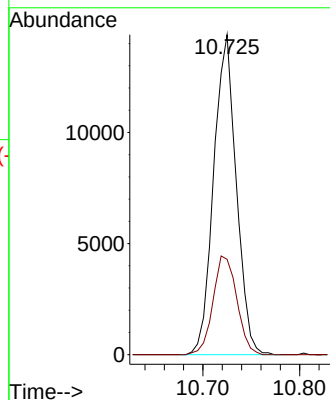
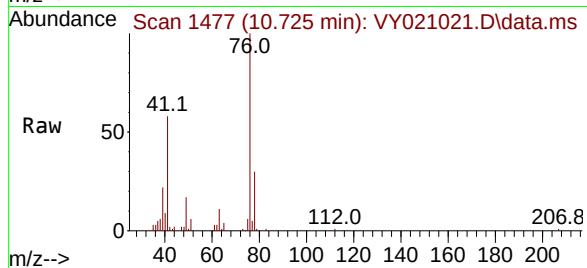
78 32.5 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#58

2-Chloroethyl Vinyl ether

Concen: 60.048 ug/l

RT: 9.719 min Scan# 1312

Delta R.T. 0.006 min

Lab File: VY021021.D

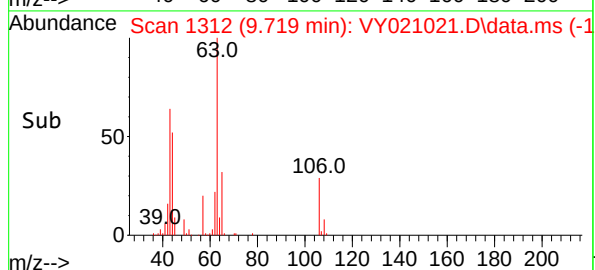
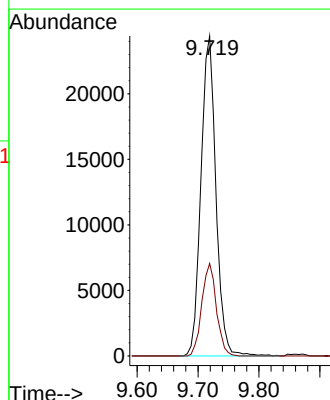
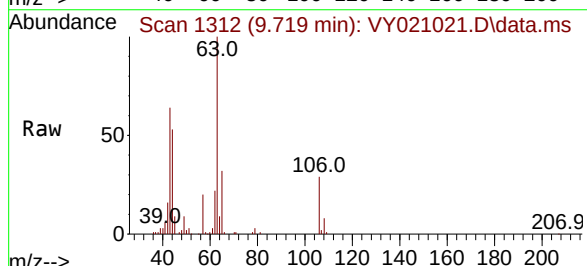
Acq: 03 Feb 2025 10:57

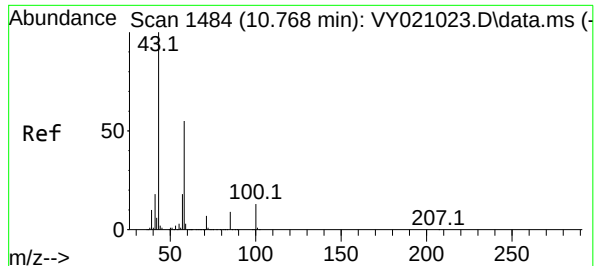
Tgt Ion: 63 Resp: 41611

Ion Ratio Lower Upper

63 100

106 28.2 24.7 37.1





#59

2-Hexanone

Concen: 61.283 ug/l

RT: 10.768 min Scan# 1484

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 37300

Ion Ratio Lower Upper

43 100

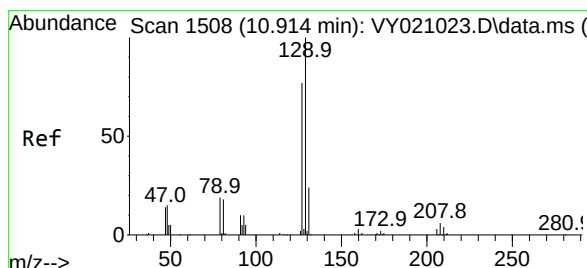
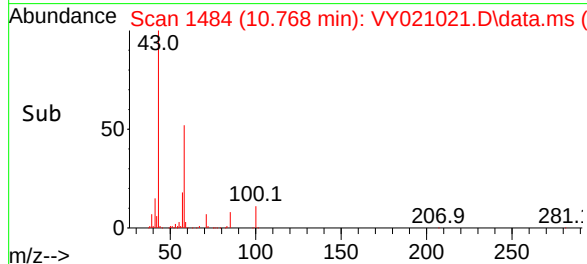
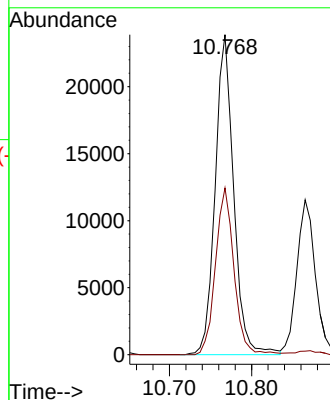
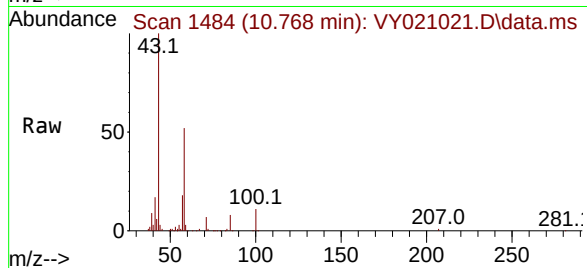
58 52.1 29.8 89.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#60

Dibromochloromethane

Concen: 10.585 ug/l

RT: 10.914 min Scan# 1508

Delta R.T. 0.000 min

Lab File: VY021021.D

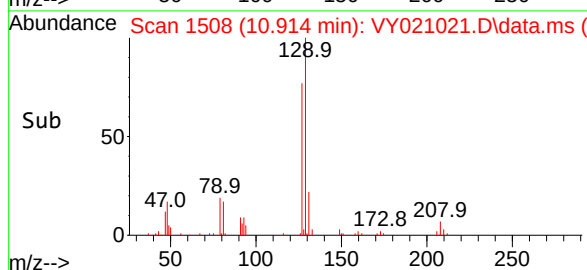
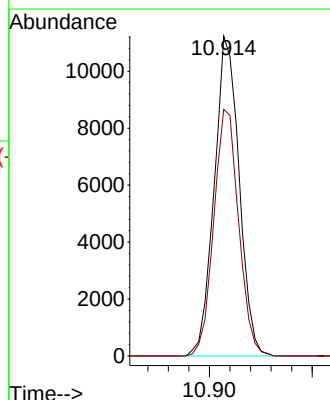
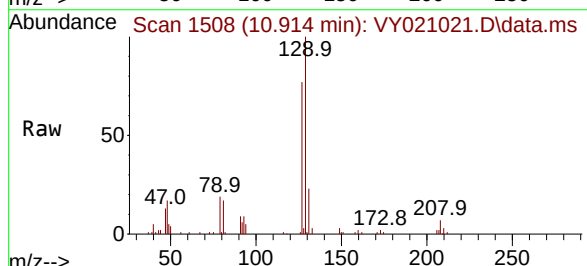
Acq: 03 Feb 2025 10:57

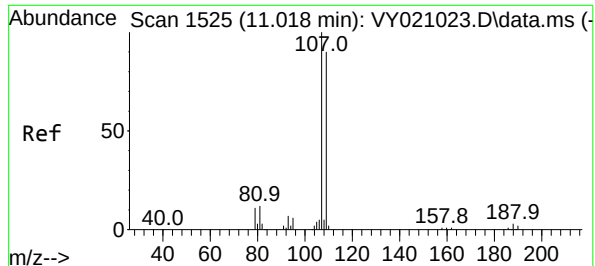
Tgt Ion:129 Resp: 18851

Ion Ratio Lower Upper

129 100

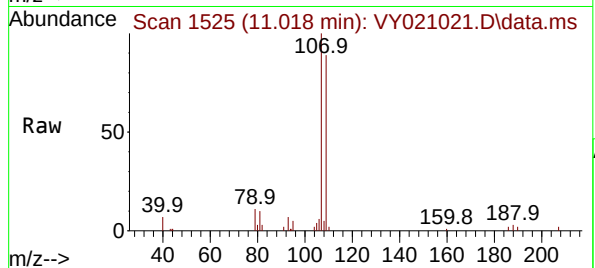
127 77.2 38.5 115.3





#61
1,2-Dibromoethane
Concen: 10.684 ug/l
RT: 11.018 min Scan# 1525
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

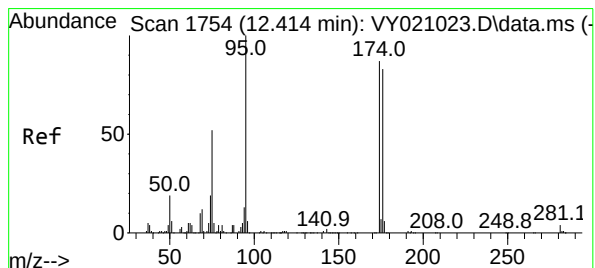
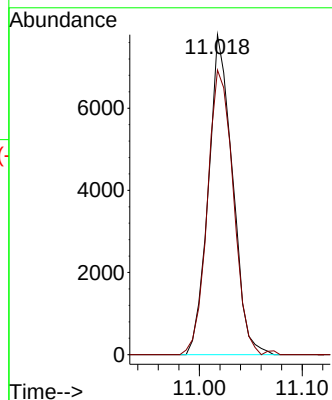
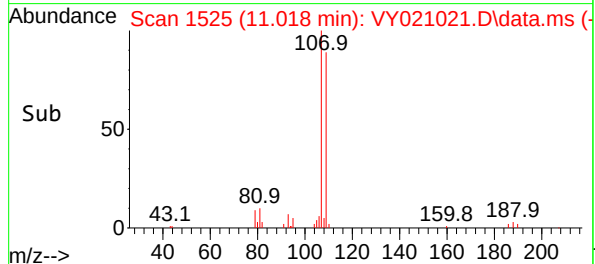
Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC010



Tgt Ion:107 Resp: 12740
Ion Ratio Lower Upper
107 100
109 95.5 76.6 114.8

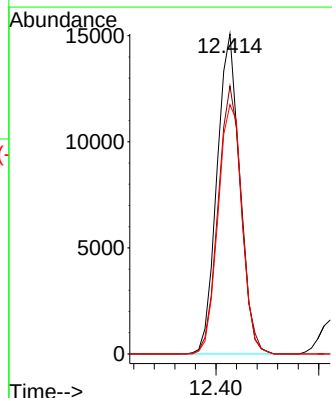
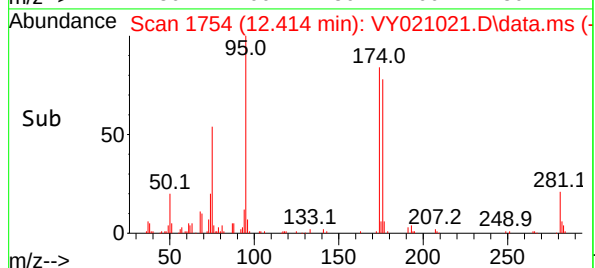
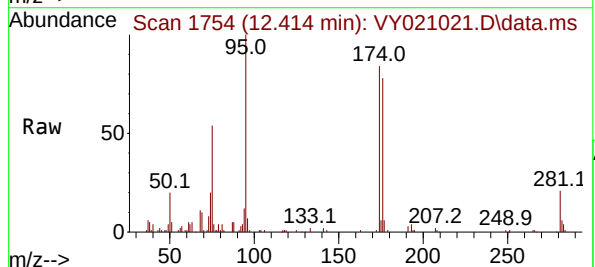
Manual Integrations
APPROVED

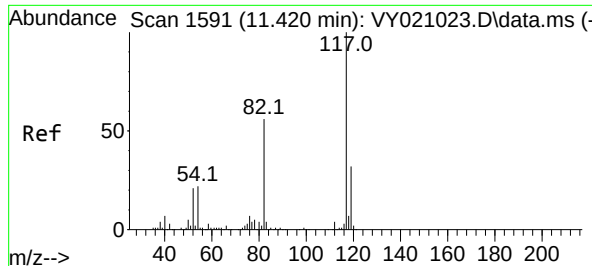
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#62
4-Bromofluorobenzene
Concen: 10.362 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

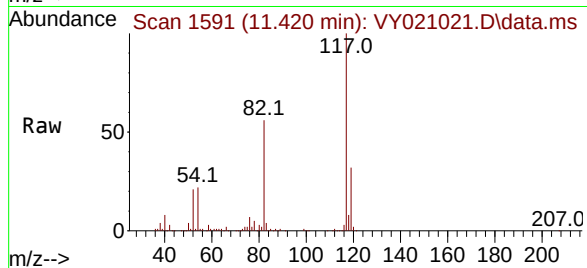
Tgt Ion: 95 Resp: 23279
Ion Ratio Lower Upper
95 100
174 85.2 0.0 181.2
176 82.2 0.0 175.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

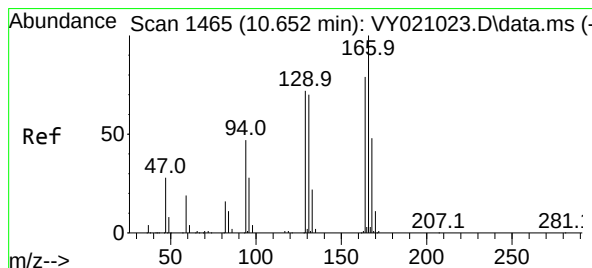
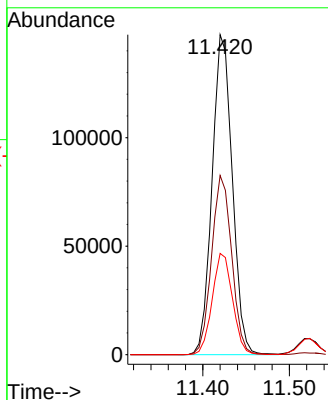
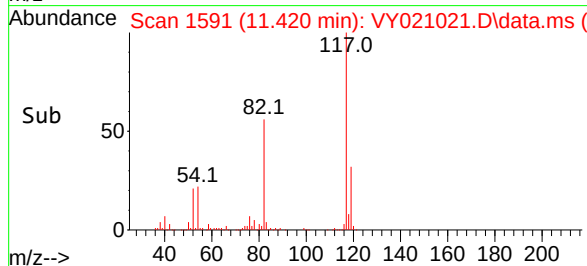
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010



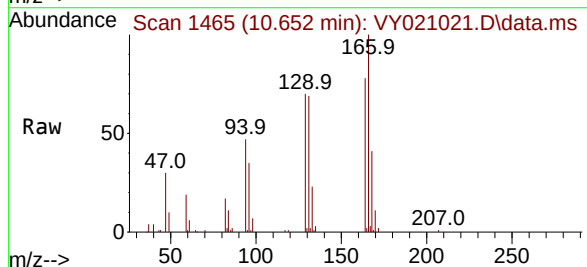
Tgt Ion:117 Resp: 239030
Ion Ratio Lower Upper
117 100
82 56.0 44.2 66.2
119 31.6 25.9 38.9

Manual Integrations
APPROVED

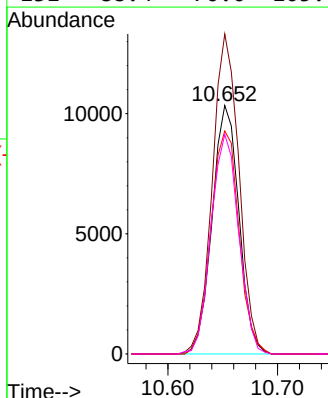
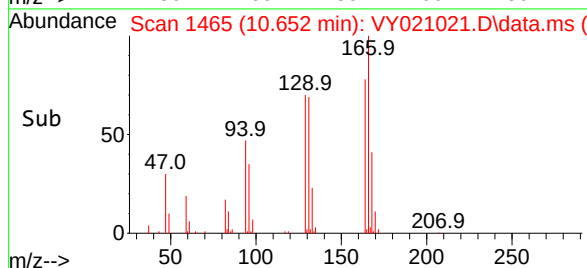
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

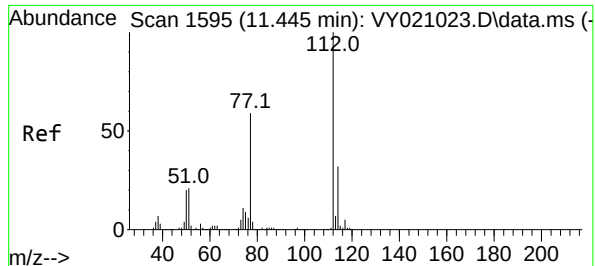


#64
Tetrachloroethene
Concen: 9.730 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57



Tgt Ion:164 Resp: 17544
Ion Ratio Lower Upper
164 100
166 128.8 100.4 150.6
129 89.8 70.8 106.2
131 88.4 70.0 105.0





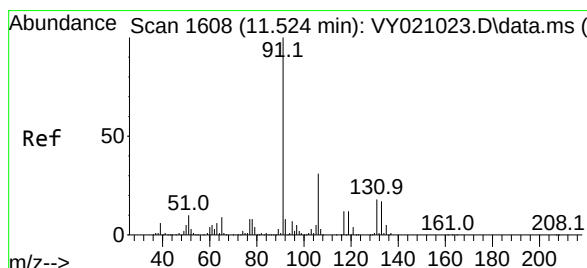
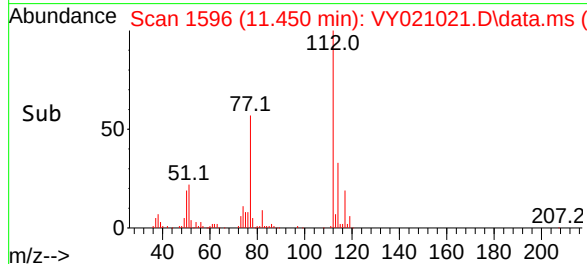
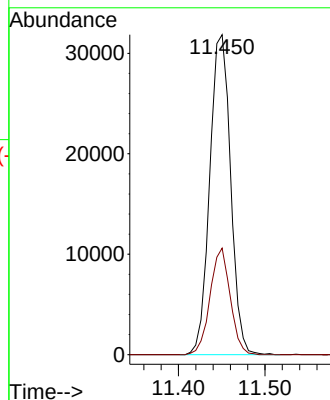
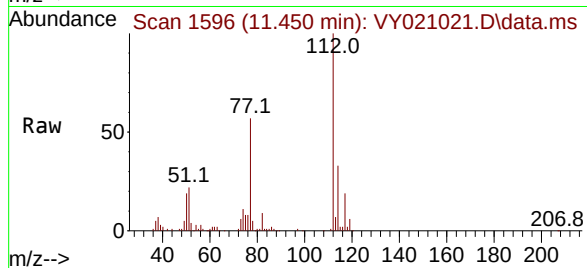
#65
Chlorobenzene
Concen: 10.583 ug/l
RT: 11.450 min Scan# 1595
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 53298
Ion Ratio Lower Upper
112 100
114 33.3 24.6 37.0

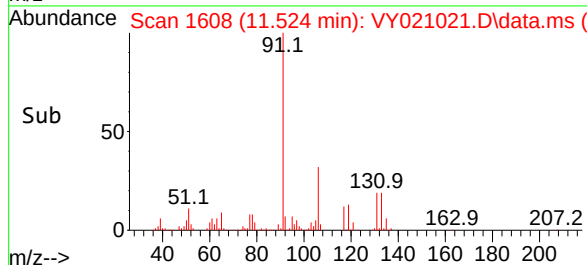
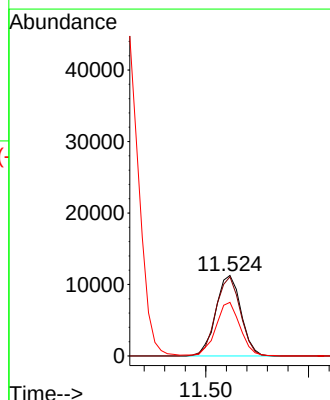
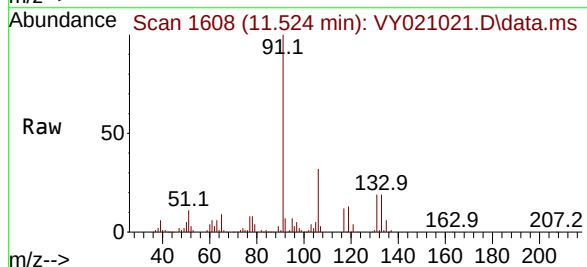
Manual Integrations
APPROVED

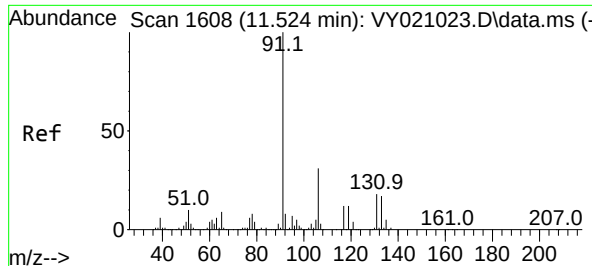
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 10.714 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion:131 Resp: 19150
Ion Ratio Lower Upper
131 100
133 96.1 48.7 146.1
119 64.1 31.4 94.3





#67

Ethyl Benzene

Concen: 10.411 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 9078

Ion Ratio Lower Upper

91 100

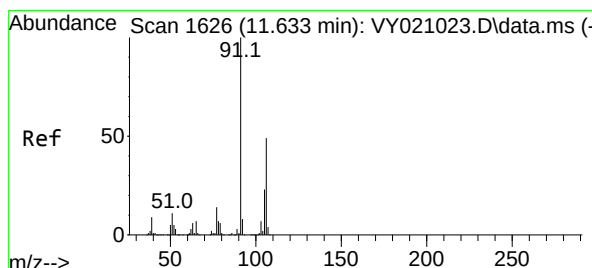
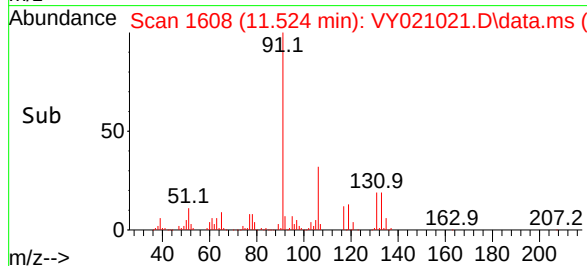
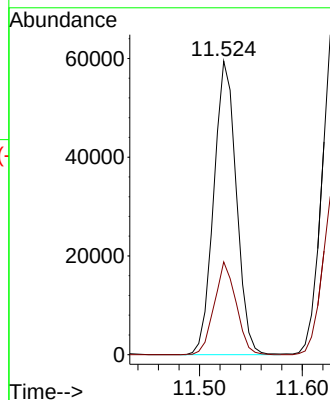
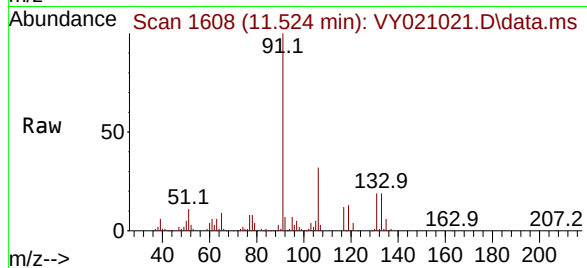
106 31.6 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#68

m/p-Xylenes

Concen: 20.624 ug/l

RT: 11.633 min Scan# 1626

Delta R.T. 0.000 min

Lab File: VY021021.D

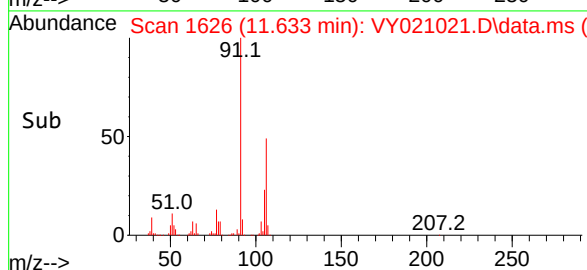
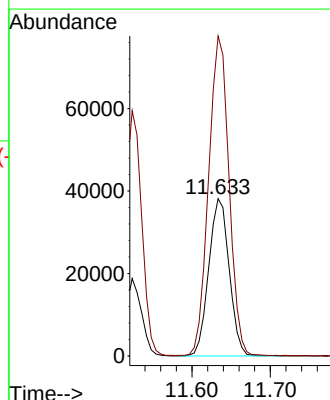
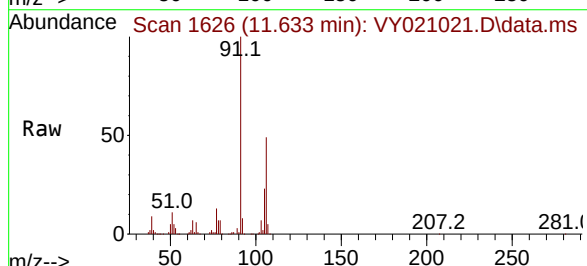
Acq: 03 Feb 2025 10:57

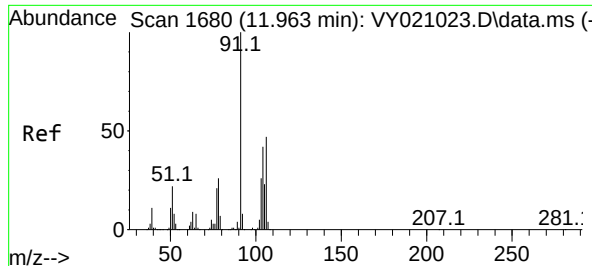
Tgt Ion:106 Resp: 69094

Ion Ratio Lower Upper

106 100

91 203.2 160.0 240.0





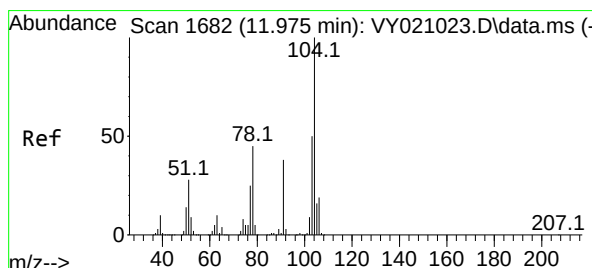
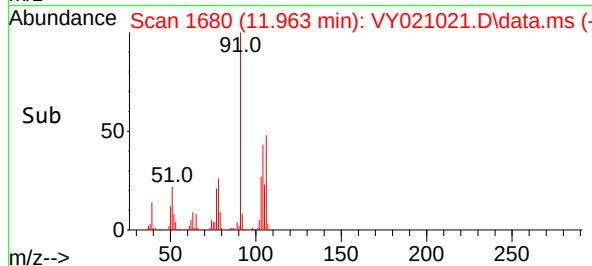
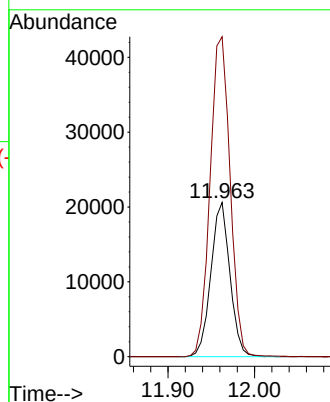
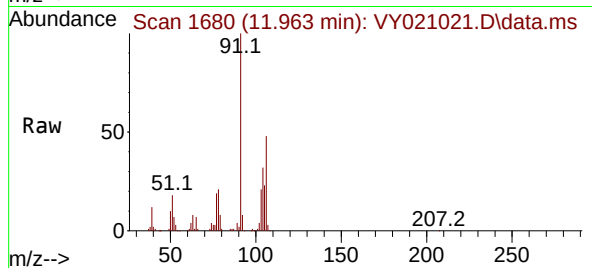
#69
o-Xylene
Concen: 10.106 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC010

Tgt Ion:106 Resp: 3147
Ion Ratio Lower Upper
106 100
91 218.6 105.8 317.6

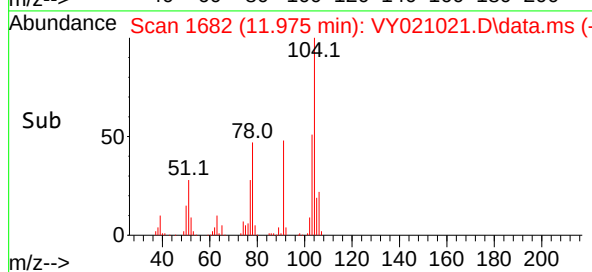
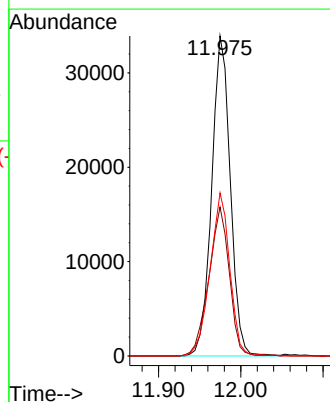
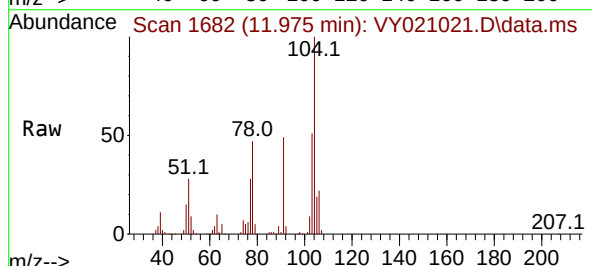
Manual Integrations
APPROVED

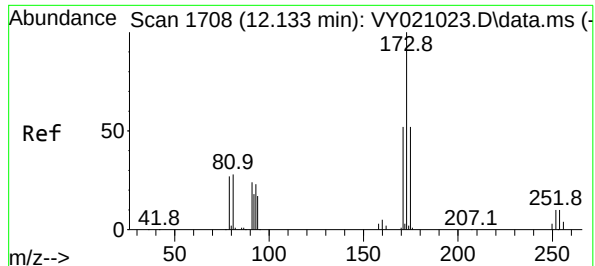
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#70
Styrene
Concen: 10.334 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

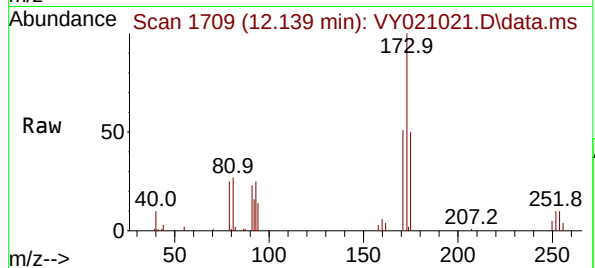
Tgt Ion:104 Resp: 53436
Ion Ratio Lower Upper
104 100
78 51.0 39.0 58.4
103 54.3 43.7 65.5





#71
Bromoform
Concen: 10.088 ug/l
RT: 12.139 min Scan# 1709
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

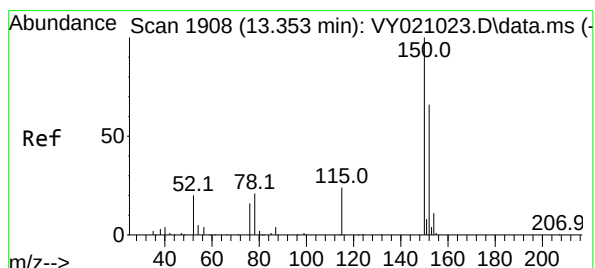
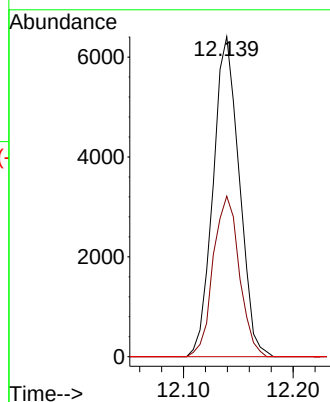
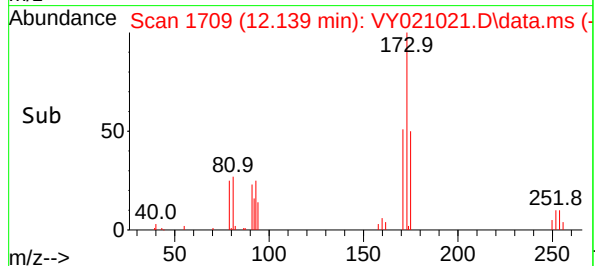
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010



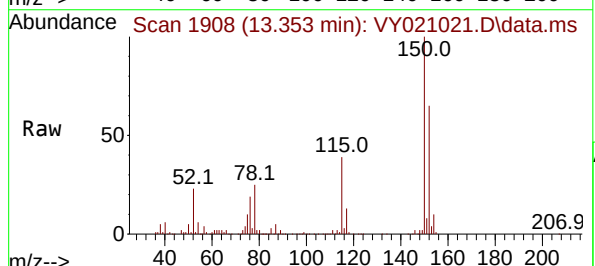
Tgt Ion:173 Resp: 1062
Ion Ratio Lower Upper
173 100
175 50.1 24.1 72.2
254 0.0 0.0 0.0

Manual Integrations
APPROVED

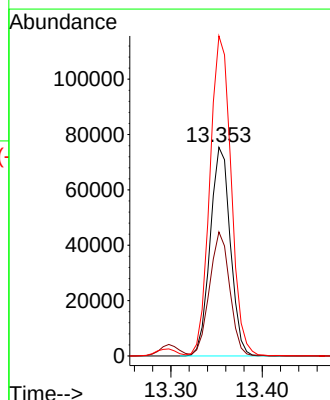
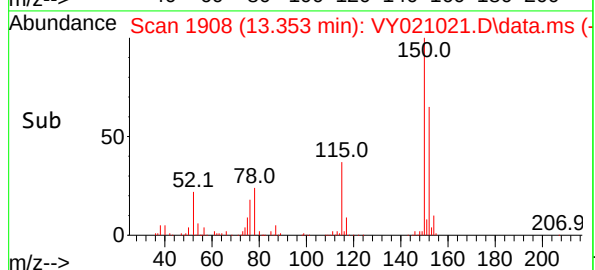
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

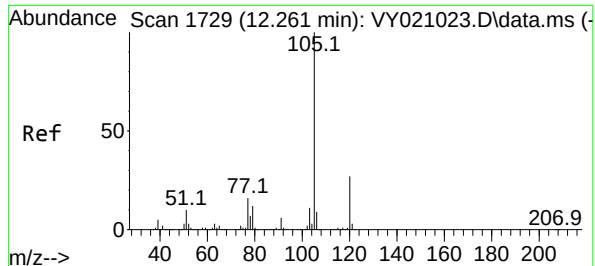


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57



Tgt Ion:152 Resp: 115682
Ion Ratio Lower Upper
152 100
115 59.3 28.4 85.2
150 161.1 0.0 342.8





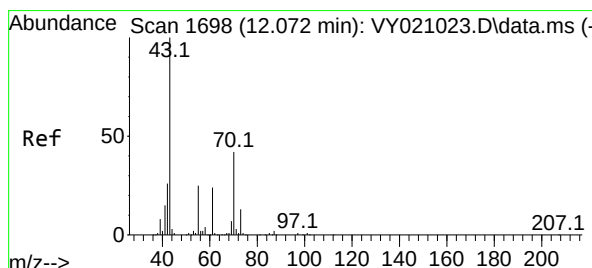
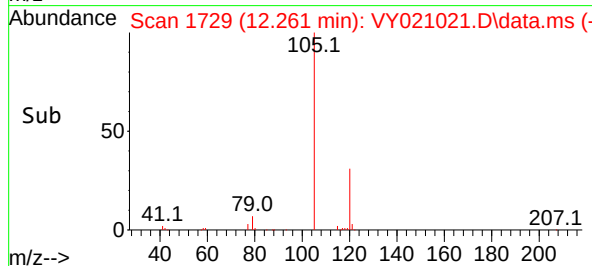
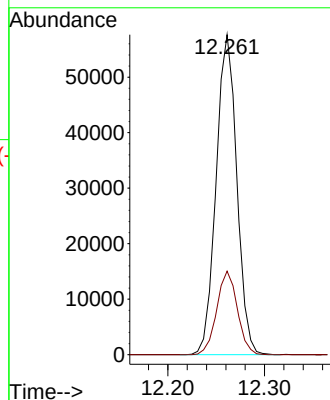
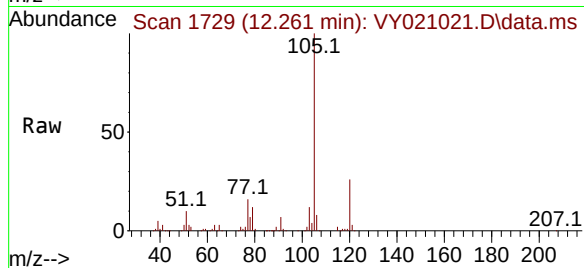
#73
Isopropylbenzene
Concen: 10.522 ug/l
RT: 12.261 min Scan# 1729
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 105 Resp: 8549
Ion Ratio Lower Upper
105 100
120 26.0 13.4 40.2

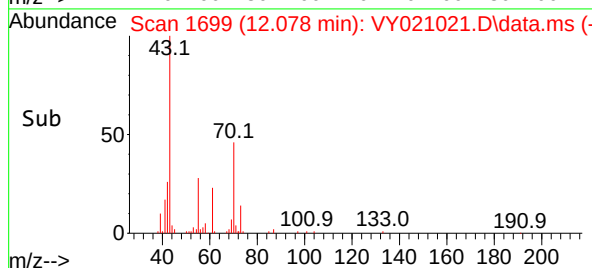
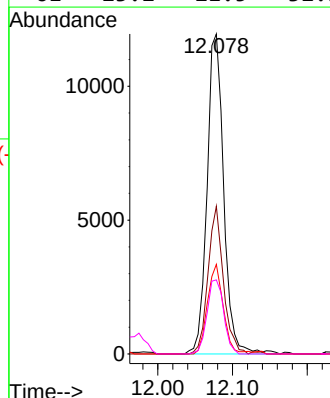
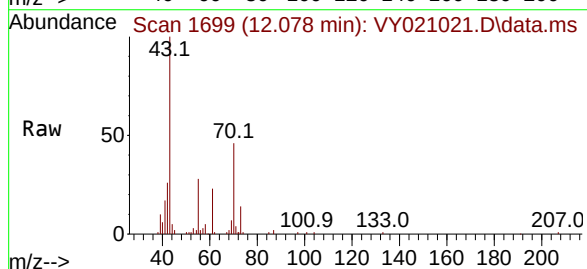
Manual Integrations
APPROVED

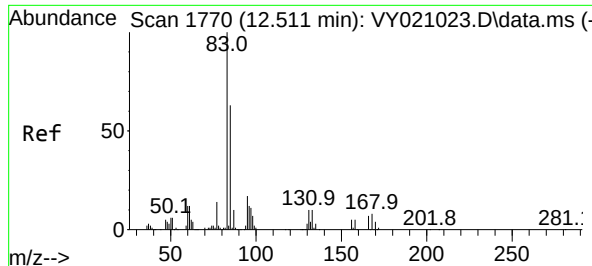
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#74
N-ethyl acetate
Concen: 12.524 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion: 43 Resp: 18529
Ion Ratio Lower Upper
43 100
70 42.6 39.3 58.9
55 27.0 22.3 33.5
61 23.2 21.5 32.3





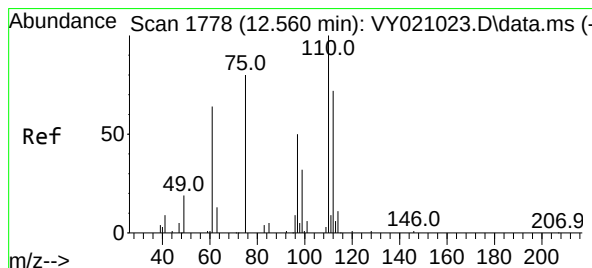
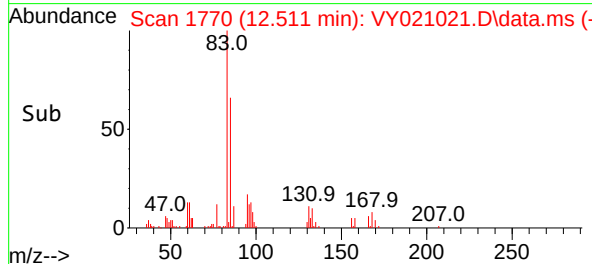
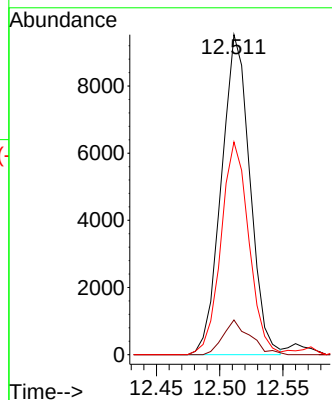
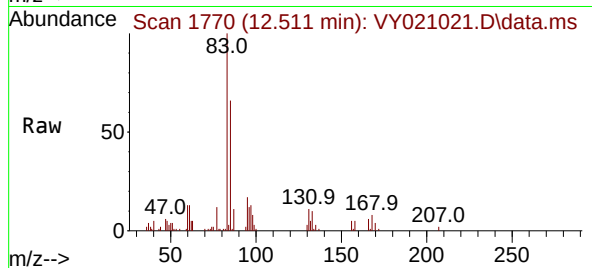
#75
1,1,2,2-Tetrachloroethane
Concen: 11.393 ug/l
RT: 12.511 min Scan# 1770
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 1494
Ion Ratio Lower Upper
83 100
131 10.2 5.7 17.1
85 65.5 31.9 95.9

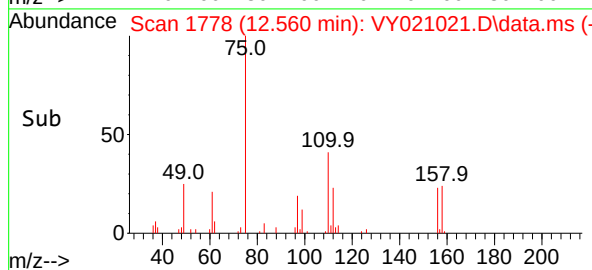
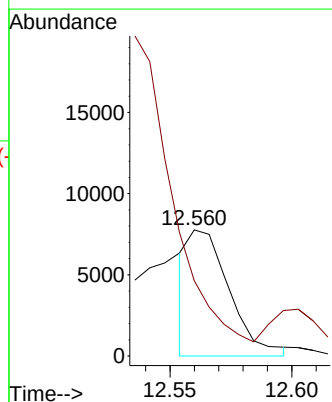
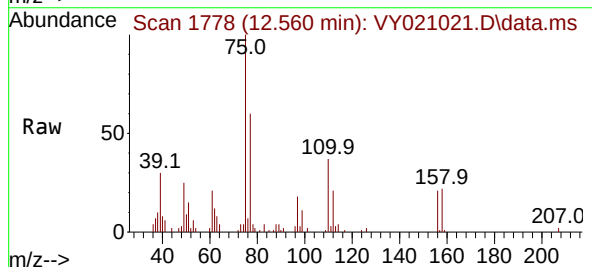
Manual Integrations
APPROVED

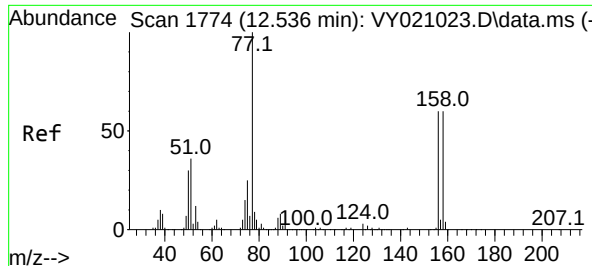
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#76
1,2,3-Trichloropropane
Concen: 9.926 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion: 75 Resp: 9090
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





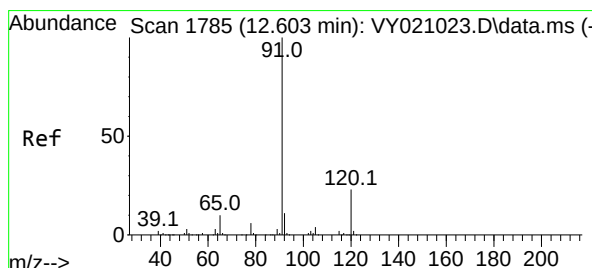
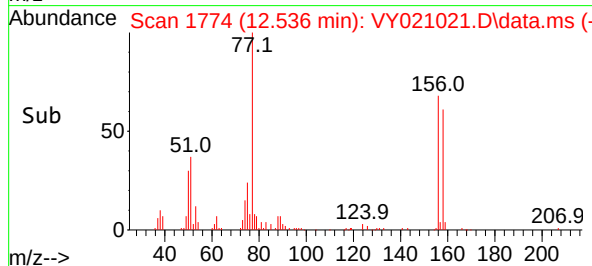
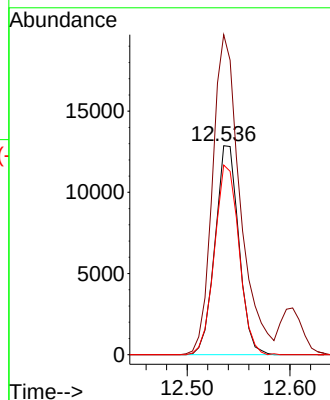
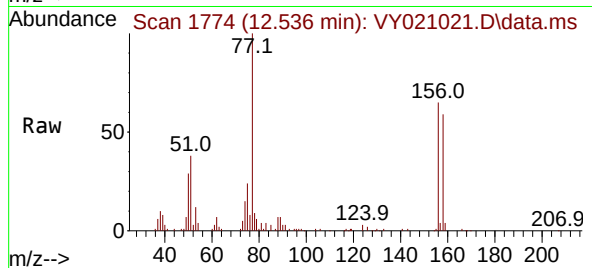
#77
Bromobenzene
Concen: 10.712 ug/l
RT: 12.536 min Scan# 1774
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 156 Resp: 20634
Ion Ratio Lower Upper
156 100
77 177.9 83.3 249.9
158 94.0 48.3 144.9

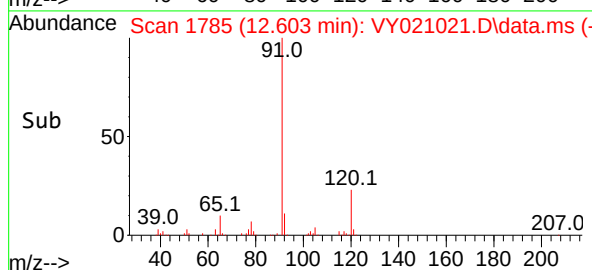
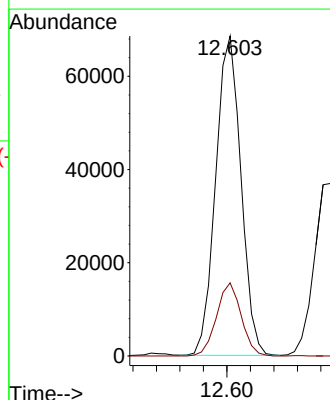
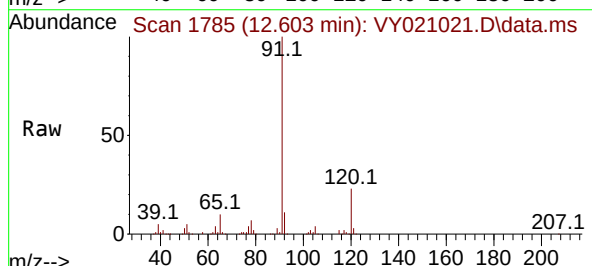
Manual Integrations
APPROVED

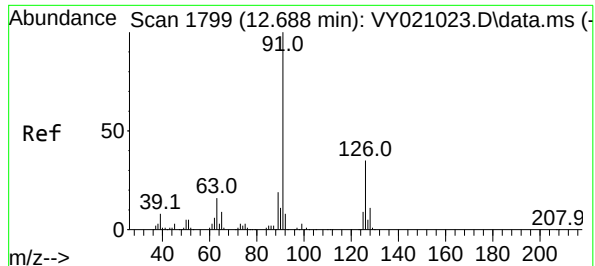
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#78
n-propylbenzene
Concen: 10.738 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion: 91 Resp: 102250
Ion Ratio Lower Upper
91 100
120 22.4 11.8 35.4





#79

2-Chlorotoluene

Concen: 10.991 ug/l

RT: 12.688 min Scan# 1799

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 59630

Ion Ratio Lower Upper

91 100

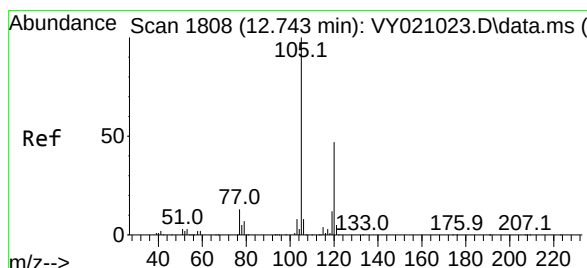
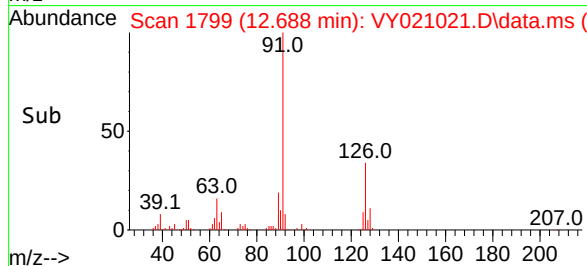
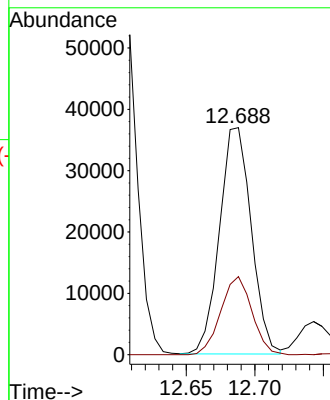
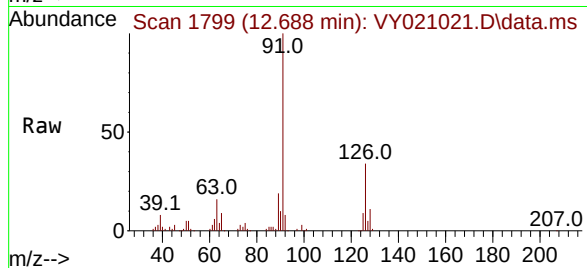
126 33.7 17.3 51.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#80

1,3,5-Trimethylbenzene

Concen: 10.541 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. 0.000 min

Lab File: VY021021.D

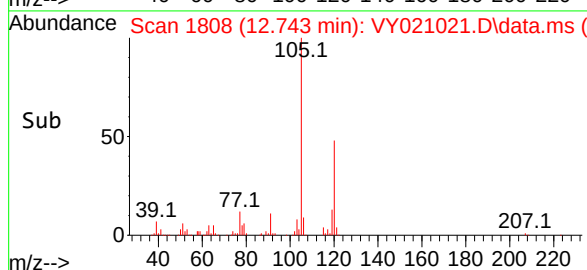
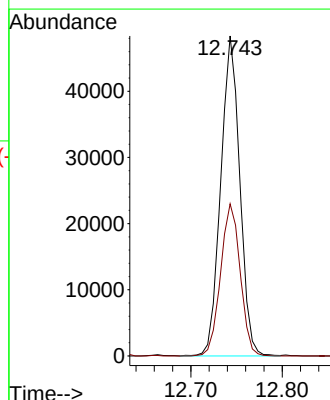
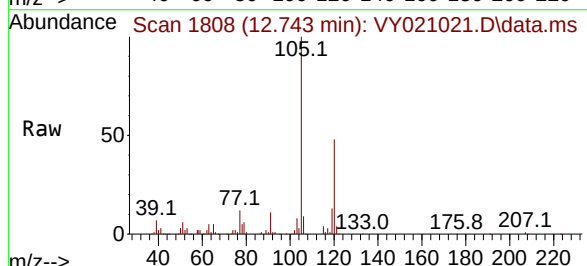
Acq: 03 Feb 2025 10:57

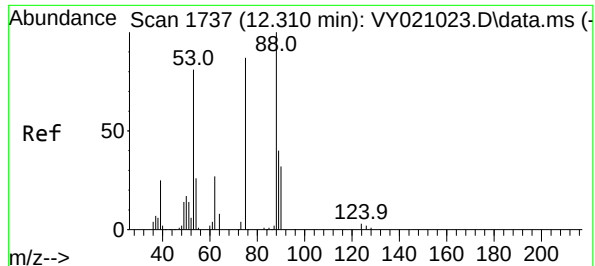
Tgt Ion:105 Resp: 70161

Ion Ratio Lower Upper

105 100

120 48.8 24.3 72.9





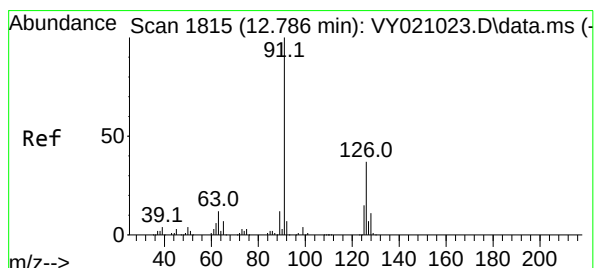
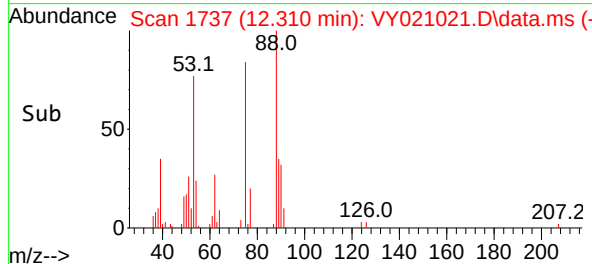
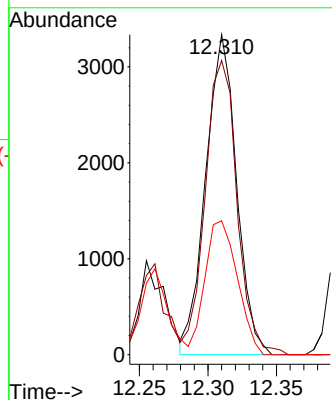
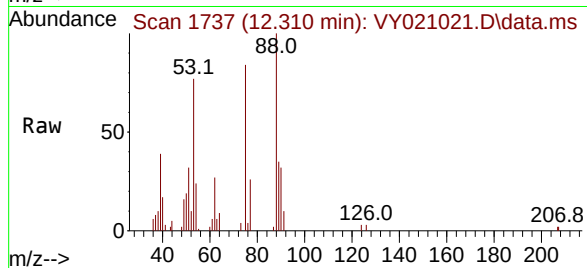
#81
trans-1,4-Dichloro-2-butene
Concen: 11.842 ug/l
RT: 12.310 min Scan# 1737
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 5224
Ion Ratio Lower Upper
75 100
53 94.9 68.6 103.0
89 43.8 38.1 57.1

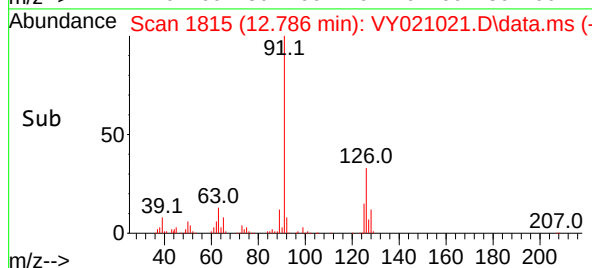
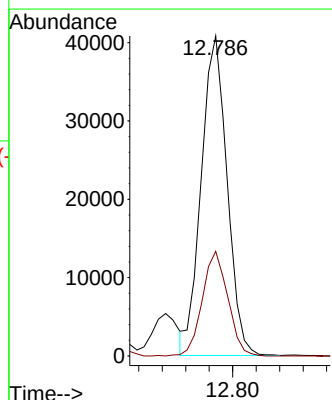
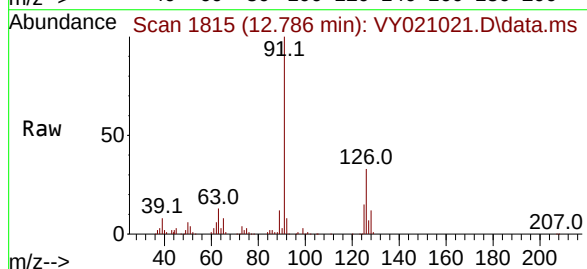
Manual Integrations
APPROVED

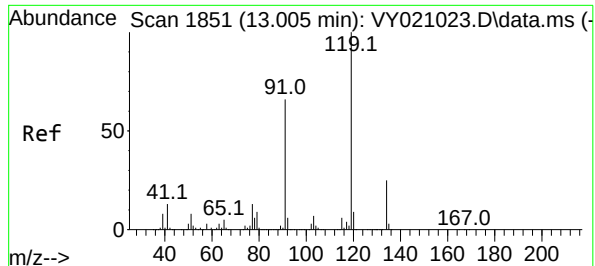
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#82
4-Chlorotoluene
Concen: 11.217 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion: 91 Resp: 62279
Ion Ratio Lower Upper
91 100
126 32.3 17.3 52.0





#83

tert-Butylbenzene

Concen: 10.287 ug/l

RT: 13.005 min Scan# 1851

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

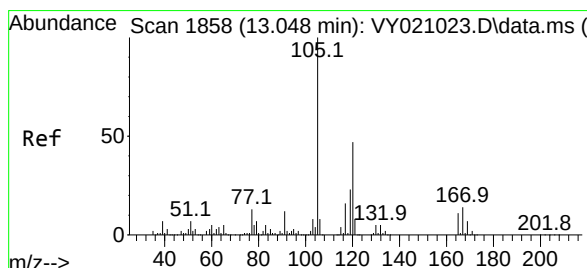
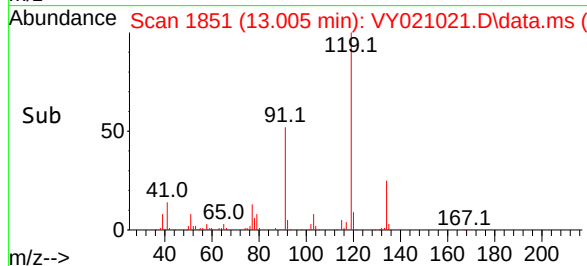
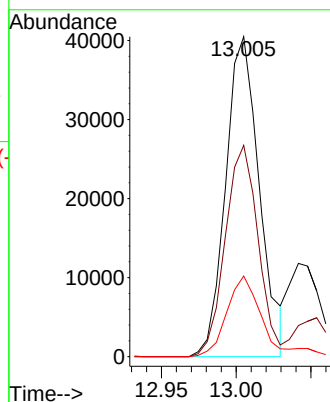
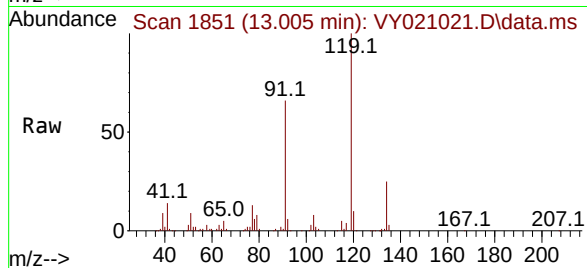
Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC010

Tgt Ion:	119	Resp:	63500
Ion Ratio	Lower	Upper	
119	100		
91	64.2	31.4	94.0
134	26.7	13.1	39.1

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#84

1,2,4-Trimethylbenzene

Concen: 10.444 ug/l

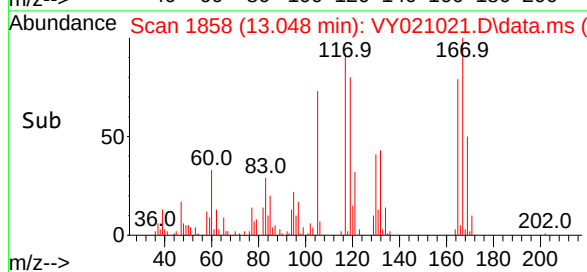
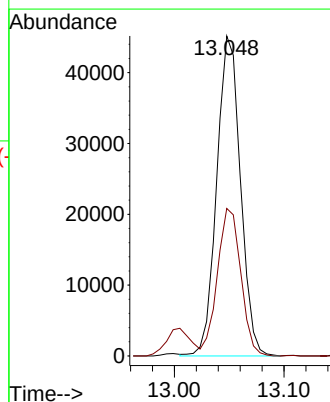
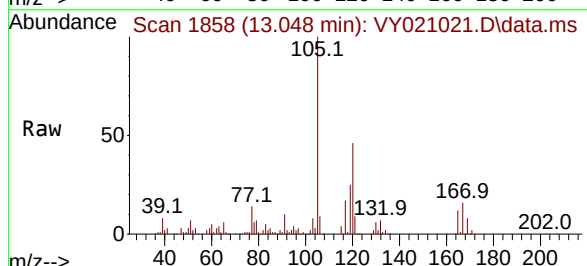
RT: 13.048 min Scan# 1858

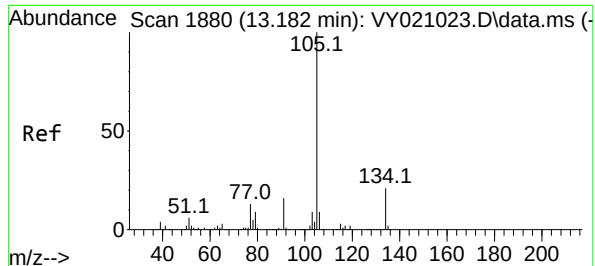
Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	105	Resp:	67906
Ion Ratio	Lower	Upper	
105	100		
120	45.6	22.7	68.0





#85

sec-Butylbenzene

Concen: 10.596 ug/l

RT: 13.182 min Scan# 1880

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC010

Tgt Ion:105 Resp: 92610

Ion Ratio Lower Upper

105 100

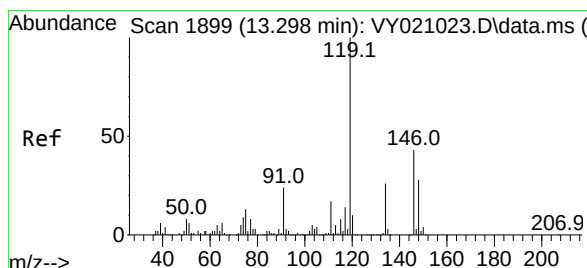
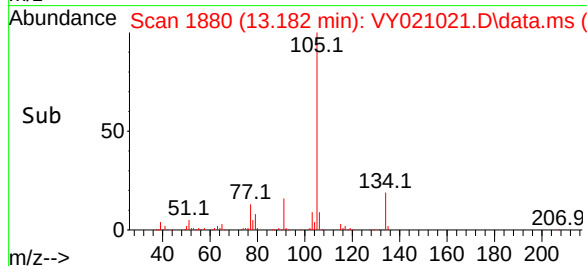
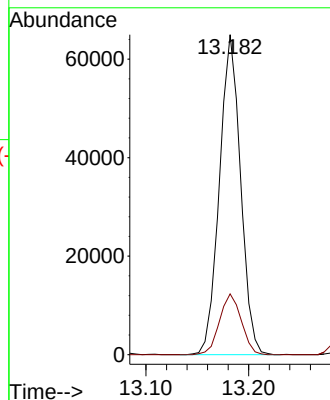
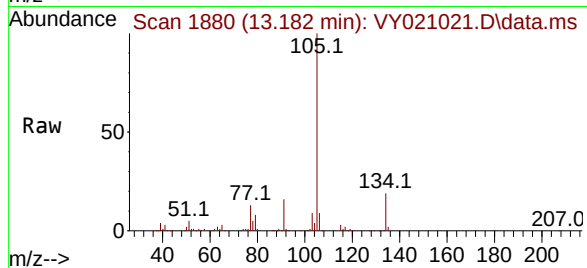
134 19.6 10.3 30.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#86

p-Isopropyltoluene

Concen: 10.196 ug/l

RT: 13.298 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

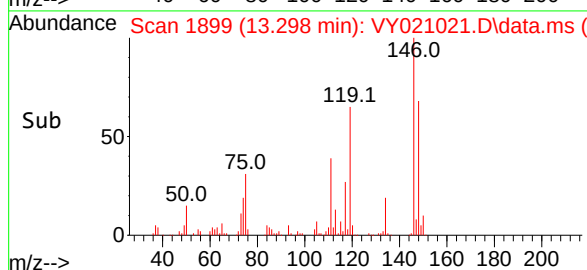
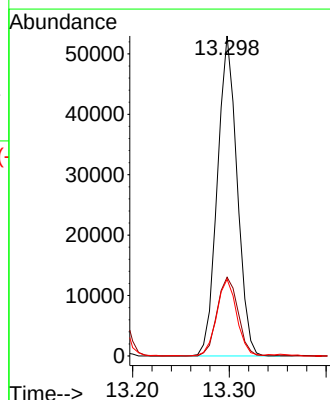
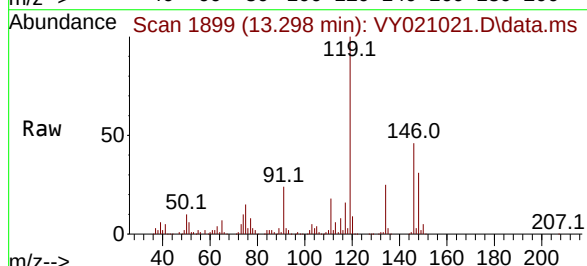
Tgt Ion:119 Resp: 74892

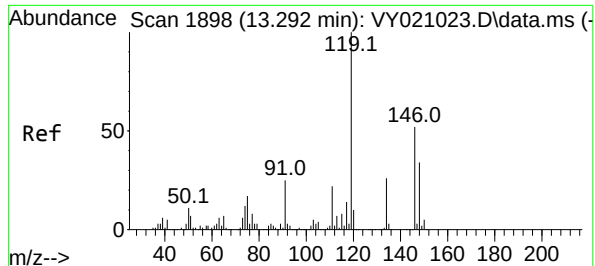
Ion Ratio Lower Upper

119 100

134 26.2 13.1 39.3

91 24.4 11.5 34.5





#87

1,3-Dichlorobenzene

Concen: 10.388 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

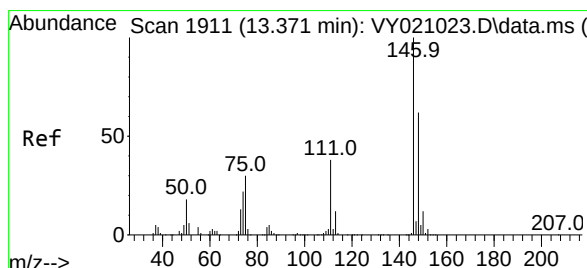
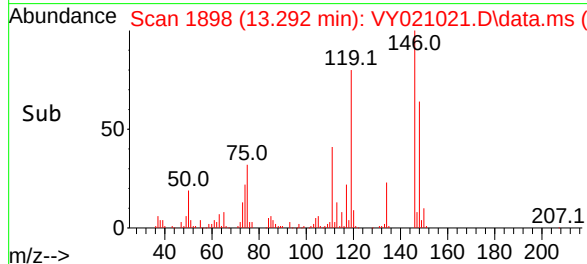
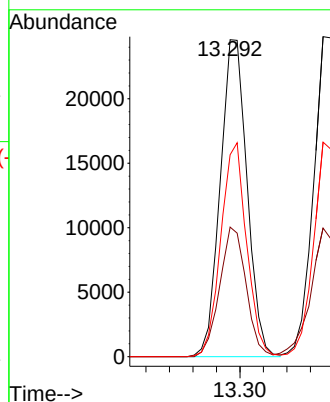
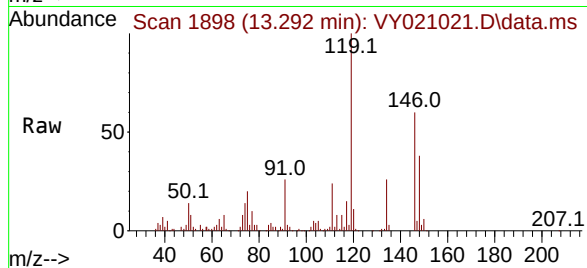
VSTDIC010

Tgt Ion:	146	Resp:	39010
Ion Ratio	Lower	Upper	
146	100		
111	40.3	19.7	59.1
148	64.9	32.1	96.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 10.559 ug/l

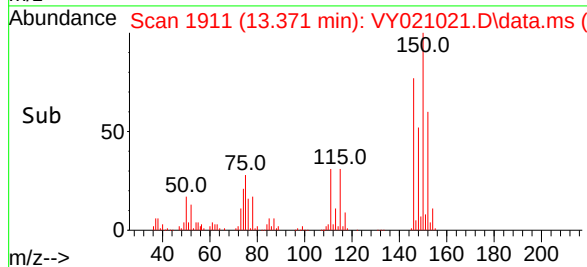
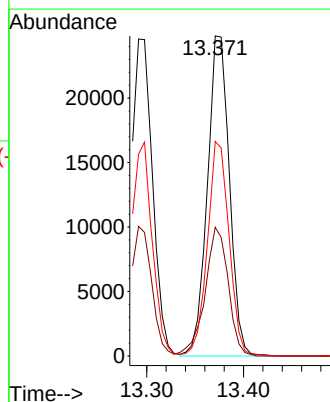
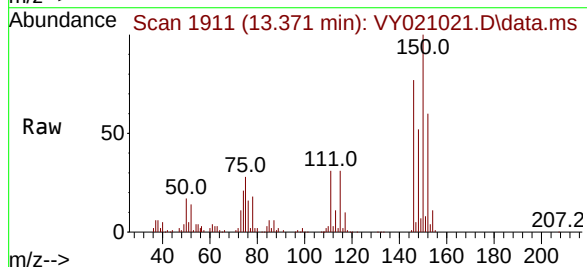
RT: 13.371 min Scan# 1911

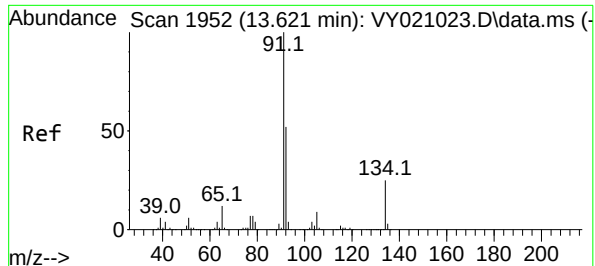
Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	146	Resp:	39379
Ion Ratio	Lower	Upper	
146	100		
111	42.2	19.0	57.0
148	65.8	31.6	95.0





#89

n-Butylbenzene

Concen: 10.280 ug/l

RT: 13.627 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

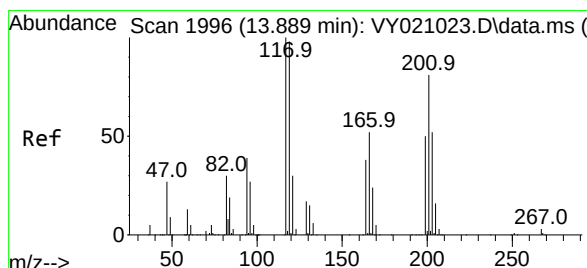
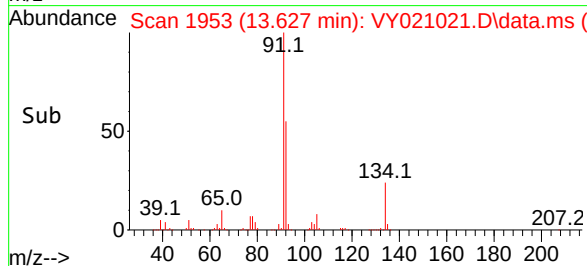
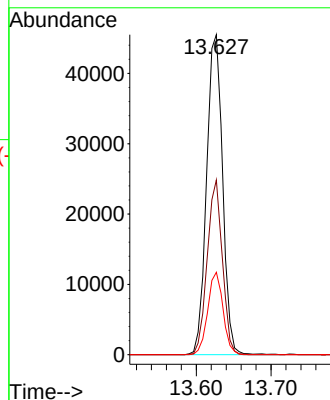
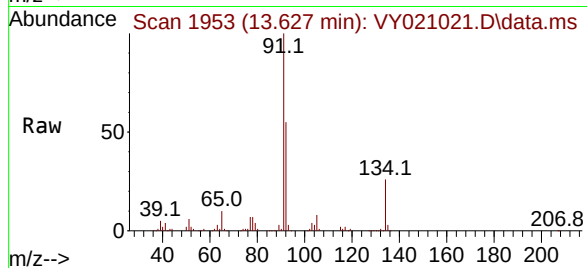
ClientSampleId :

VSTDIC010

Tgt Ion:	91	Resp:	6763
Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.7	80.1
134	24.6	13.7	41.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#90

Hexachloroethane

Concen: 10.788 ug/l

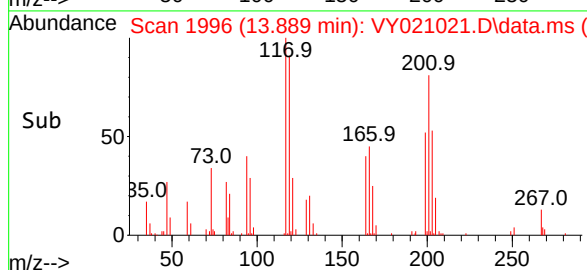
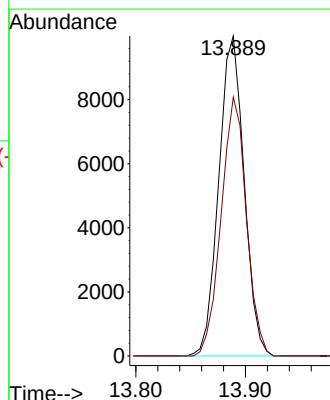
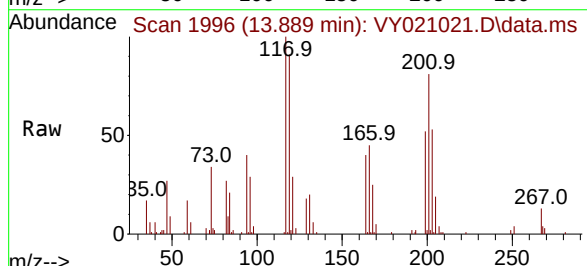
RT: 13.889 min Scan# 1996

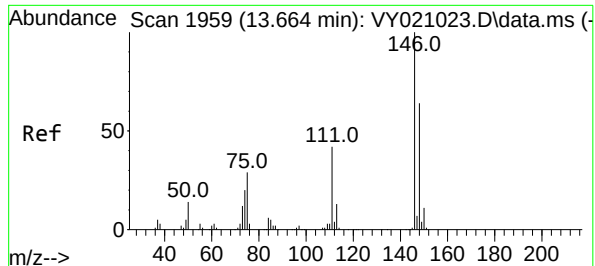
Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Tgt Ion:	117	Resp:	16030
Ion	Ratio	Lower	Upper
117	100		
201	80.4	42.5	127.5





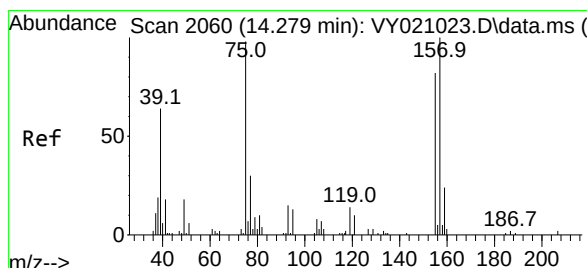
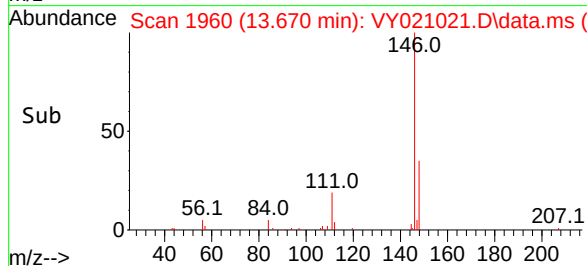
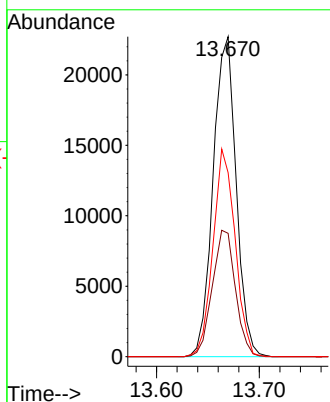
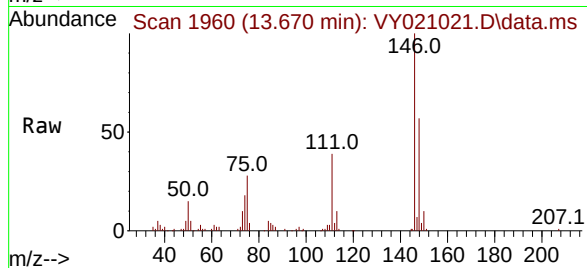
#91
1,2-Dichlorobenzene
Concen: 10.763 ug/l
RT: 13.670 min Scan# 1959
Delta R.T. 0.006 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC010

Tgt Ion:146 Resp: 3525
Ion Ratio Lower Upper
146 100
111 39.8 20.3 60.8
148 62.4 32.2 96.6

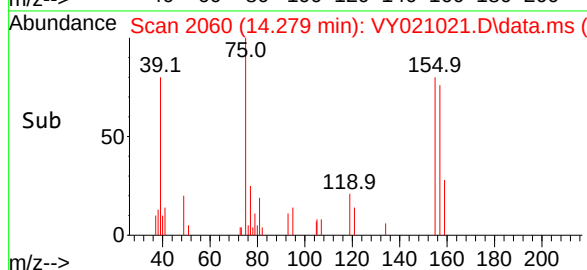
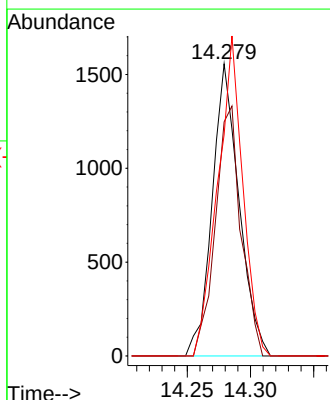
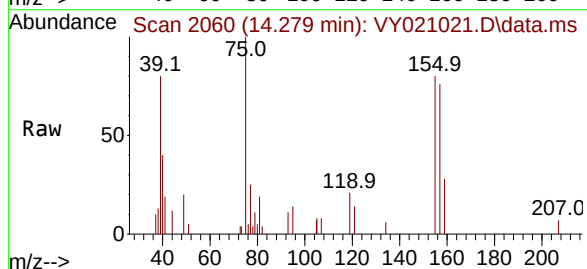
Manual Integrations
APPROVED

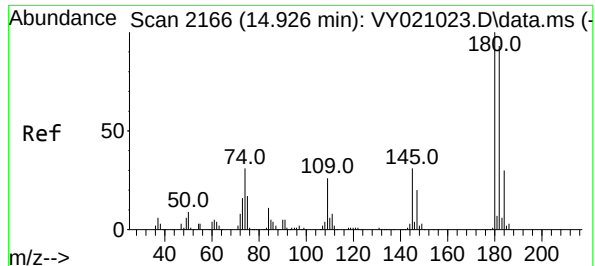
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 11.372 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion: 75 Resp: 2296
Ion Ratio Lower Upper
75 100
155 82.0 45.9 137.6
157 102.7 59.3 177.9





#93

1,2,4-Trichlorobenzene

Concen: 8.702 ug/l

RT: 14.932 min Scan# 2167

Delta R.T. 0.006 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

Instrument :

MSVOA_Y

ClientSampleId :

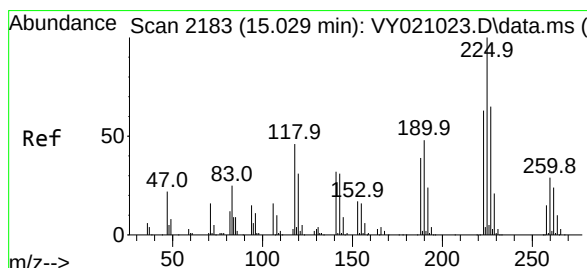
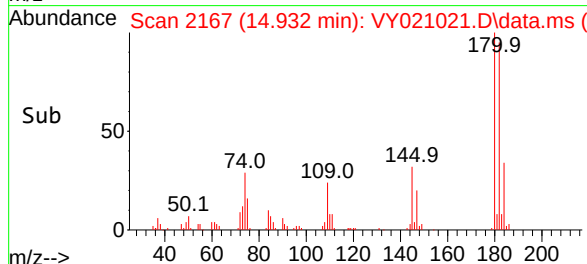
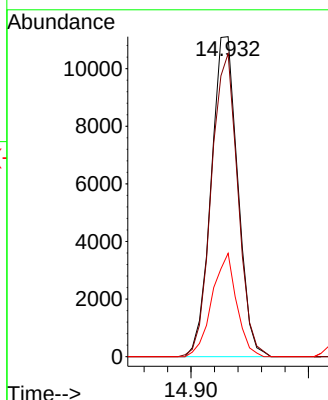
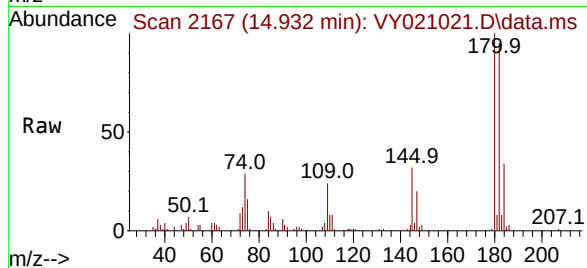
VSTDIC010

Tgt Ion:	180	Resp:	1745
Ion Ratio	Lower	Upper	
180	100		
182	94.2	48.3	144.8
145	29.9	15.3	45.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#94

Hexachlorobutadiene

Concen: 8.631 ug/l

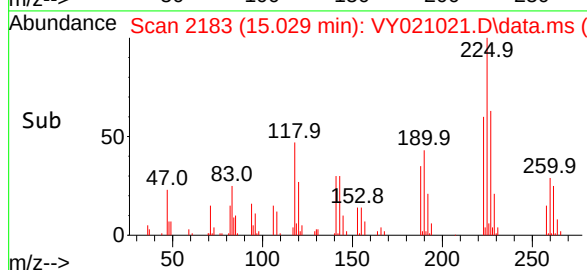
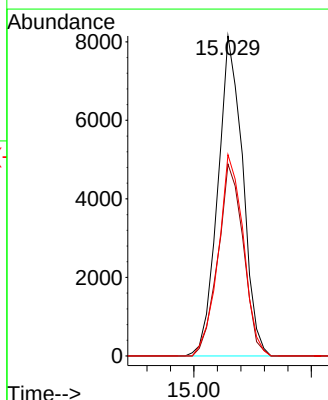
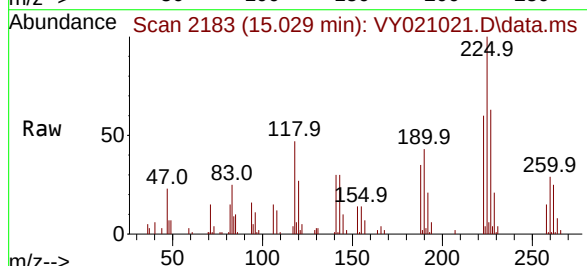
RT: 15.029 min Scan# 2183

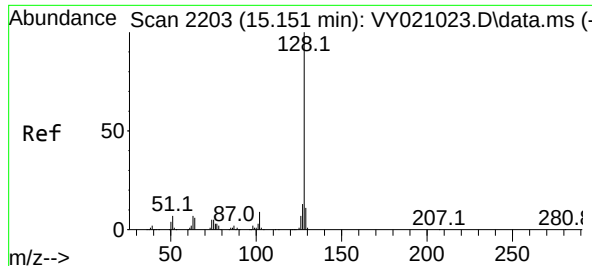
Delta R.T. 0.000 min

Lab File: VY021021.D

Acq: 03 Feb 2025 10:57

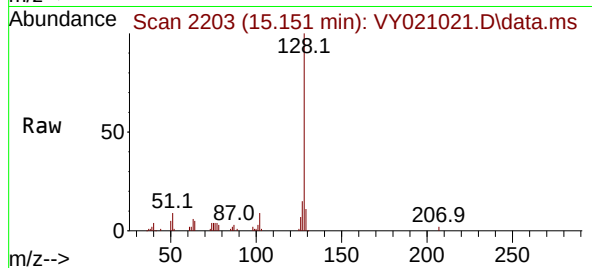
Tgt Ion:	225	Resp:	11988
Ion Ratio	Lower	Upper	
225	100		
223	61.1	31.4	94.2
227	63.5	31.8	95.3





#95
Naphthalene
Concen: 8.409 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. -0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

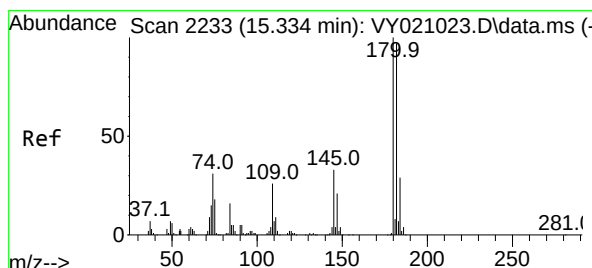
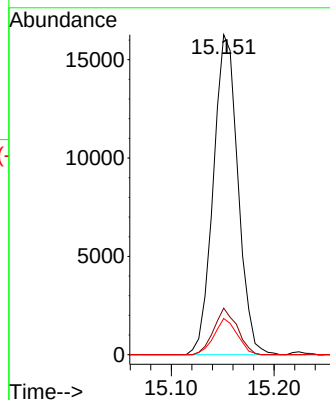
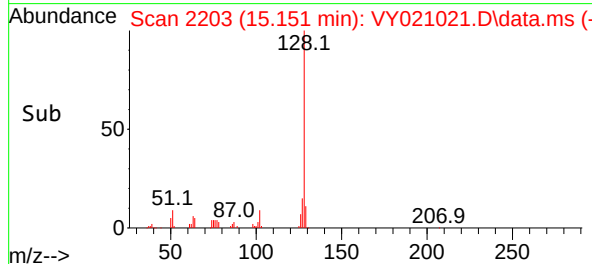
Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC010



Tgt Ion:128 Resp: 2710
Ion Ratio Lower Upper
128 100
127 13.9 10.2 15.4
129 10.6 8.8 13.2

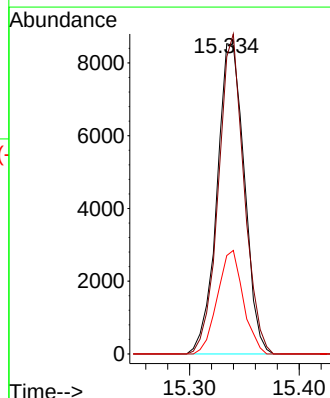
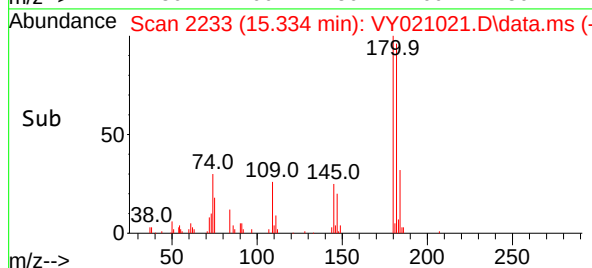
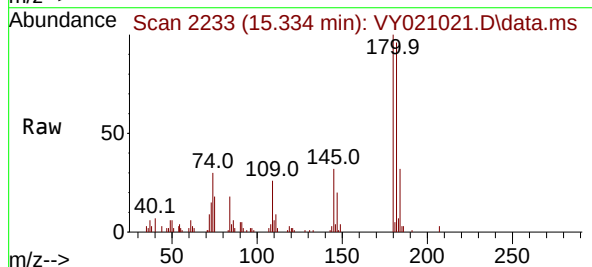
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 8.729 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. -0.000 min
Lab File: VY021021.D
Acq: 03 Feb 2025 10:57

Tgt Ion:180 Resp: 14804
Ion Ratio Lower Upper
180 100
182 96.2 47.7 143.1
145 31.4 15.6 46.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021022.D
 Acq On : 03 Feb 2025 11:20
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 12:36:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	183569	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	284501	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	244590	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	116948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	35087	22.450	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	44.900%#		
35) Dibromofluoromethane	7.640	113	34279	20.042	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	40.080%#		
50) Toluene-d8	10.109	98	129662	19.423	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	38.840%#		
62) 4-Bromofluorobenzene	12.414	95	42182	18.831	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery =	37.660%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	30336	19.435	ug/l	99
3) Chloromethane	2.074	50	29923	30.154	ug/l	98
4) Vinyl Chloride	2.208	62	29658	28.986	ug/l	99
5) Bromomethane	2.598	94	18302	26.423	ug/l	90
6) Chloroethane	2.739	64	17634	29.503	ug/l	97
7) Trichlorofluoromethane	3.068	101	55451	22.457	ug/l	98
8) Diethyl Ether	3.458	74	18232	24.733	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.830	101	34675	20.855	ug/l	95
10) Methyl Iodide	4.013	142	38697	20.338	ug/l	99
11) Tert butyl alcohol	4.878	59	12889	112.894	ug/l #	90
12) 1,1-Dichloroethene	3.793	96	32389	20.845	ug/l	90
13) Acrolein	3.659	56	20427	155.371	ug/l	100
14) Allyl chloride	4.391	41	55315	25.859	ug/l	92
15) Acrylonitrile	5.067	53	38612	127.343	ug/l	97
16) Acetone	3.873	43	28518	133.874	ug/l	95
17) Carbon Disulfide	4.116	76	101973	21.308	ug/l	99
18) Methyl Acetate	4.391	43	19673	26.393	ug/l	92
19) Methyl tert-butyl Ether	5.116	73	85748	23.710	ug/l	98
20) Methylene Chloride	4.629	84	34701	22.087	ug/l	94
21) trans-1,2-Dichloroethene	5.122	96	36879	22.137	ug/l	94
22) Diisopropyl ether	6.025	45	120281	27.585	ug/l	94
23) Vinyl Acetate	5.970	43	331355	137.224	ug/l	95
24) 1,1-Dichloroethane	5.927	63	67799	24.102	ug/l	98
25) 2-Butanone	6.902	43	46083	127.520	ug/l	95
26) 2,2-Dichloropropane	6.890	77	61862	22.336	ug/l	97
27) cis-1,2-Dichloroethene	6.896	96	42356	22.120	ug/l	93
28) Bromochloromethane	7.250	49	27966	26.684	ug/l	83
29) Tetrahydrofuran	7.268	42	32271	132.707	ug/l	90
30) Chloroform	7.427	83	69562	22.832	ug/l	98
31) Cyclohexane	7.707	56	59268	21.556	ug/l	94
32) 1,1,1-Trichloroethane	7.622	97	63645	21.585	ug/l	96
36) 1,1-Dichloropropene	7.841	75	50918	20.868	ug/l	96
37) Ethyl Acetate	6.988	43	23724	26.080	ug/l #	96
38) Carbon Tetrachloride	7.823	117	59433	19.683	ug/l	96
39) Methylcyclohexane	9.116	83	61029	18.619	ug/l	92
40) Benzene	8.085	78	150967	21.027	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021022.D
 Acq On : 03 Feb 2025 11:20
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M

Quant Title : SW846 8260

QLast Update : Mon Feb 03 12:36:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.250	41	15142m	30.084	ug/l	
42) 1,2-Dichloroethane	8.164	62	41726	22.916	ug/l	98
43) Isopropyl Acetate	8.201	43	45505	25.040	ug/l	97
44) Trichloroethene	8.872	130	38841	19.606	ug/l	100
45) 1,2-Dichloropropane	9.146	63	36268	22.538	ug/l	99
46) Dibromomethane	9.237	93	20417	21.802	ug/l	93
47) Bromodichloromethane	9.426	83	53424	21.723	ug/l	97
48) Methyl methacrylate	9.225	41	19957	23.066	ug/l	91
49) 1,4-Dioxane	9.237	88	3939	395.839	ug/l #	90
51) 4-Methyl-2-Pentanone	10.006	43	114844	122.983	ug/l	94
52) Toluene	10.176	92	95614	20.517	ug/l	98
53) t-1,3-Dichloropropene	10.396	75	47690	21.429	ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	57105	21.469	ug/l #	89
55) 1,1,2-Trichloroethane	10.579	97	26314	21.129	ug/l	98
56) Ethyl methacrylate	10.445	69	34126	20.963	ug/l #	86
57) 1,3-Dichloropropane	10.725	76	45784	21.690	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.719	63	83057	120.208	ug/l	95
59) 2-Hexanone	10.768	43	72555	119.535	ug/l	92
60) Dibromochloromethane	10.914	129	36853	20.754	ug/l	99
61) 1,2-Dibromoethane	11.018	107	24505	20.600	ug/l	97
64) Tetrachloroethene	10.652	164	34418	18.655	ug/l	97
65) Chlorobenzene	11.444	112	103141	20.015	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.524	131	36817	20.130	ug/l	99
67) Ethyl Benzene	11.524	91	182430	20.446	ug/l	99
68) m/p-Xylenes	11.633	106	138826	40.497	ug/l	97
69) o-Xylene	11.963	106	64616	20.276	ug/l	98
70) Styrene	11.975	104	108143	20.439	ug/l	99
71) Bromoform	12.139	173	21254	19.718	ug/l #	100
73) Isopropylbenzene	12.261	105	171836	20.921	ug/l	100
74) N-amyl acetate	12.078	43	37235	24.896	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.511	83	29712	22.410	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	21952m	23.712	ug/l	
77) Bromobenzene	12.536	156	40491	20.793	ug/l	95
78) n-propylbenzene	12.603	91	206279	21.429	ug/l	98
79) 2-Chlorotoluene	12.688	91	118673	21.638	ug/l	100
80) 1,3,5-Trimethylbenzene	12.743	105	142319	21.150	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.310	75	9872	22.135	ug/l	93
82) 4-Chlorotoluene	12.786	91	121872	21.712	ug/l	100
83) tert-Butylbenzene	13.005	119	128881	20.651	ug/l	98
84) 1,2,4-Trimethylbenzene	13.048	105	139446	21.214	ug/l	99
85) sec-Butylbenzene	13.182	105	185044	20.943	ug/l	99
86) p-Isopropyltoluene	13.298	119	154555	20.815	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	77631	20.446	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	76342	20.248	ug/l	97
89) n-Butylbenzene	13.627	91	138532	20.829	ug/l	98
90) Hexachloroethane	13.889	117	31796	21.166	ug/l	93
91) 1,2-Dichlorobenzene	13.663	146	67363	20.344	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4160	20.380	ug/l	88
93) 1,2,4-Trichlorobenzene	14.932	180	34770	17.150	ug/l	98
94) Hexachlorobutadiene	15.029	225	24481	17.435	ug/l	97
95) Naphthalene	15.151	128	55021	16.886	ug/l	100
96) 1,2,3-Trichlorobenzene	15.340	180	29301	17.090	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021022.D
Acq On : 03 Feb 2025 11:20
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

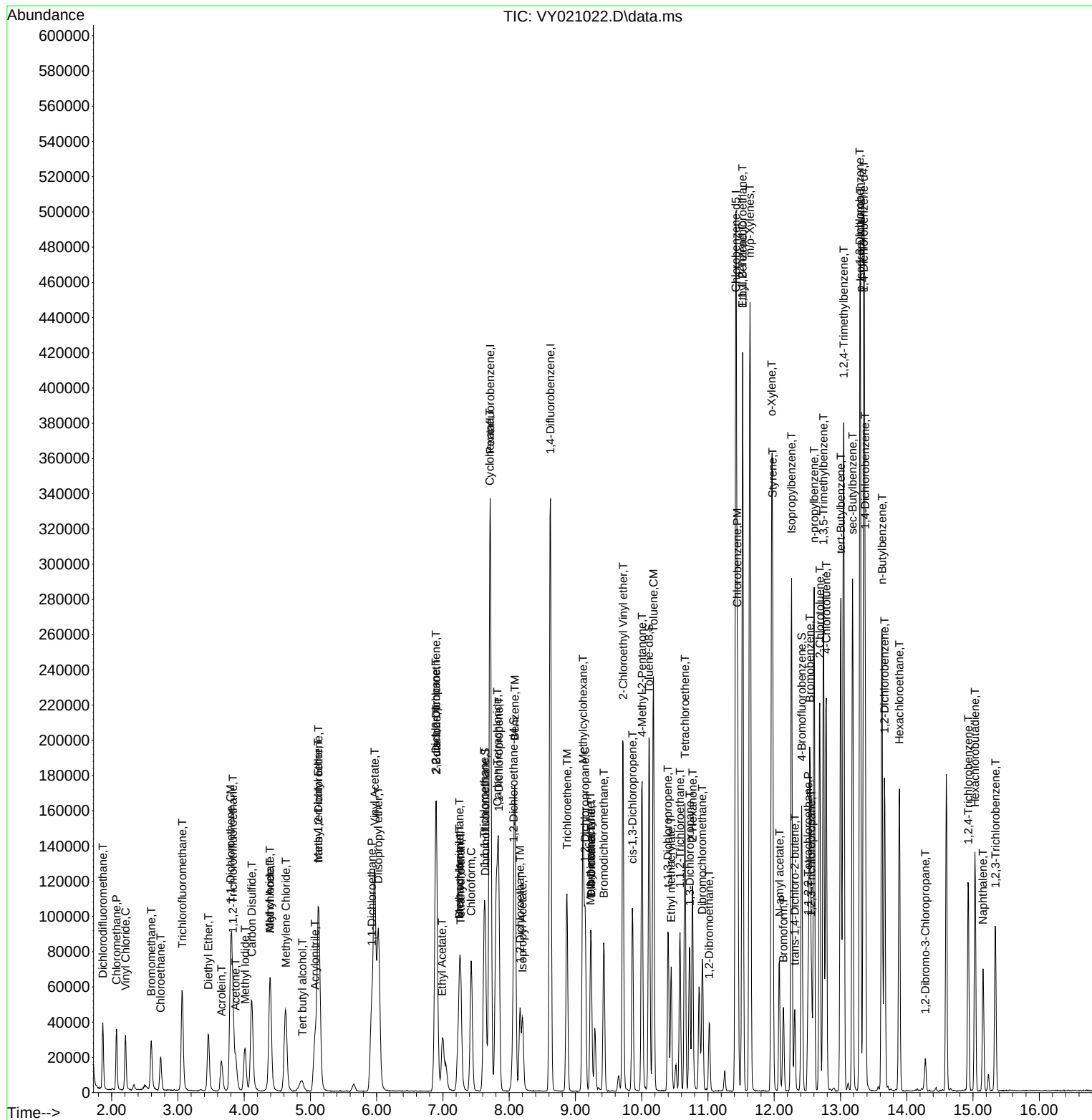
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 Data File : VY021022.D
 Acq On : 03 Feb 2025 11:20
 Operator : SY/MD
 Sample : VSTDIC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

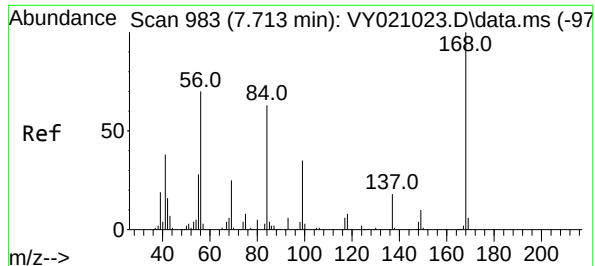
Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:38:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 12:36:41 2025
 Response via : Initial Calibration





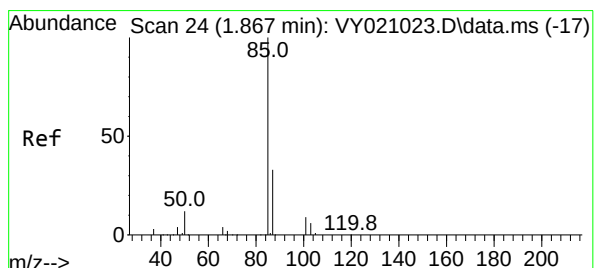
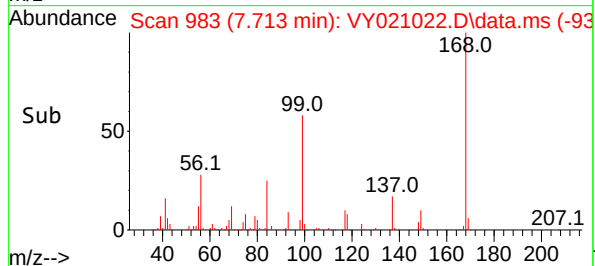
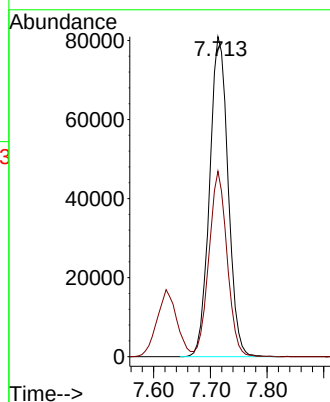
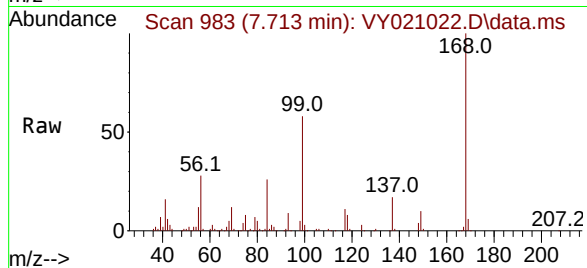
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 183569
Ion Ratio Lower Upper
168 100
99 57.9 42.2 63.2

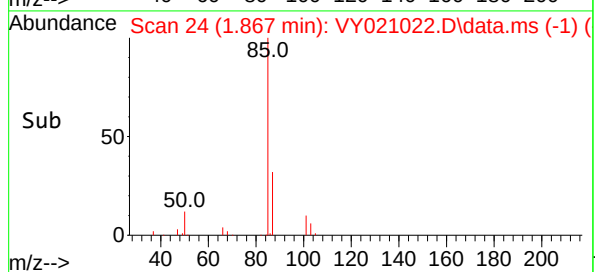
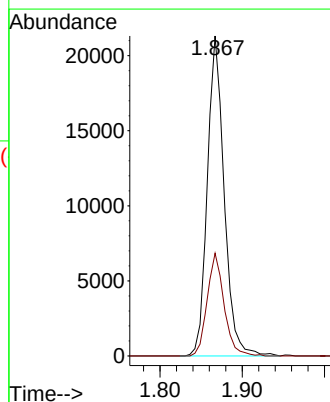
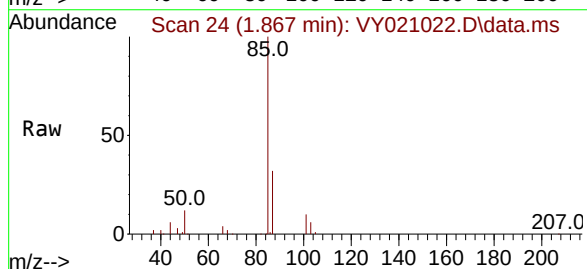
Manual Integrations
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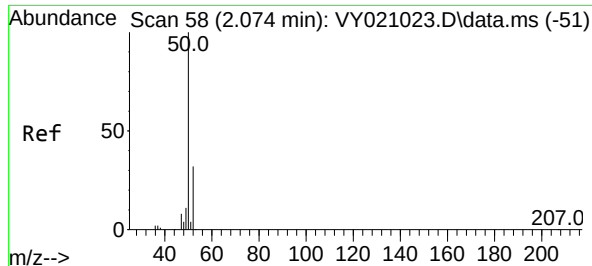
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#2
Dichlorodifluoromethane
Concen: 19.435 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion: 85 Resp: 30336
Ion Ratio Lower Upper
85 100
87 32.1 16.3 48.9





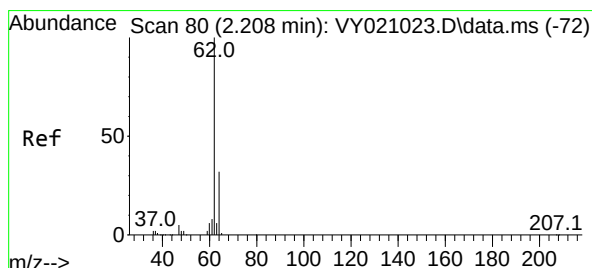
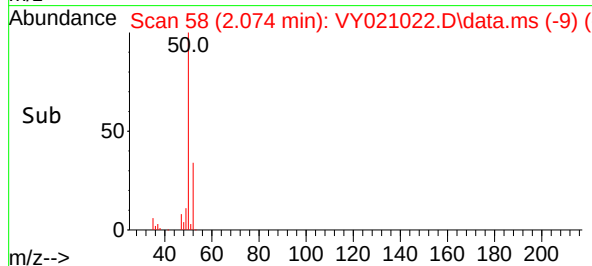
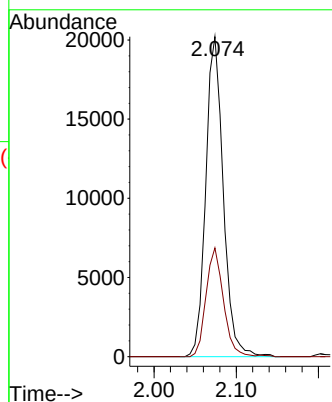
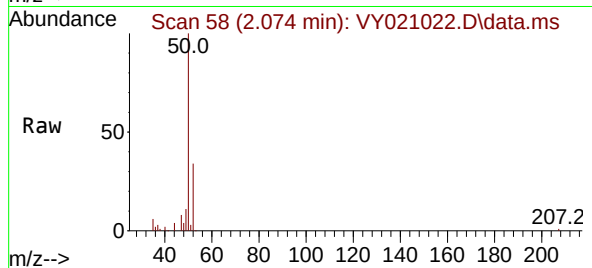
#3
Chloromethane
Concen: 30.154 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 2992
Ion Ratio Lower Upper
50 100
52 34.0 26.3 39.5

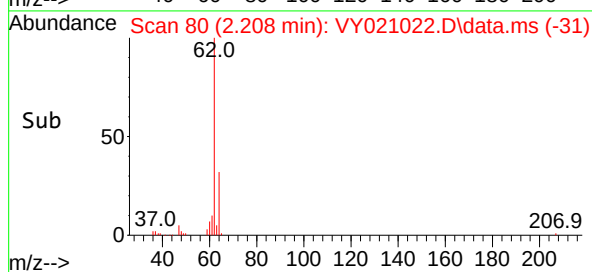
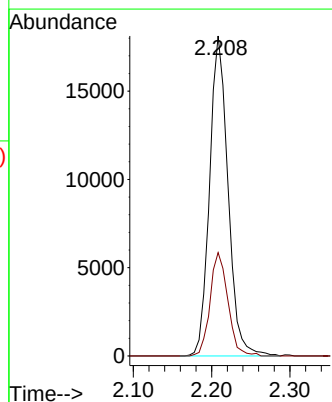
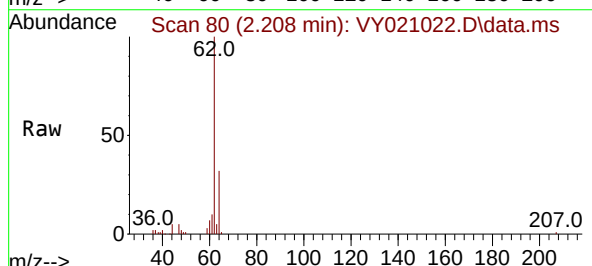
Manual Integrations
APPROVED

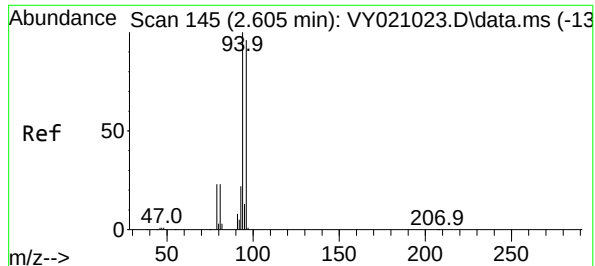
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#4
Vinyl Chloride
Concen: 28.986 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion: 62 Resp: 29658
Ion Ratio Lower Upper
62 100
64 32.3 25.4 38.2





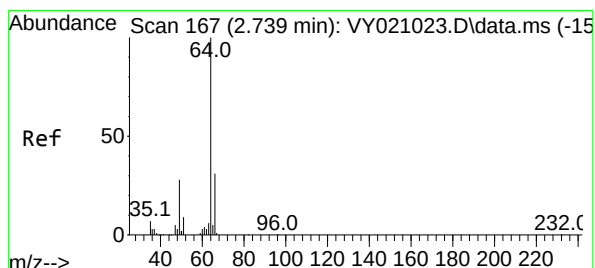
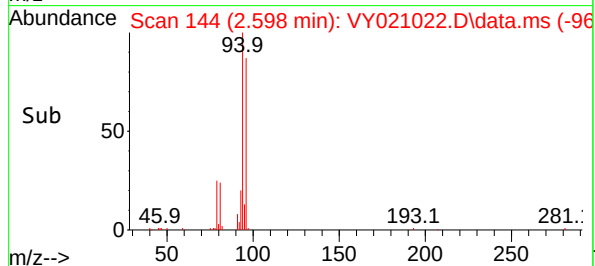
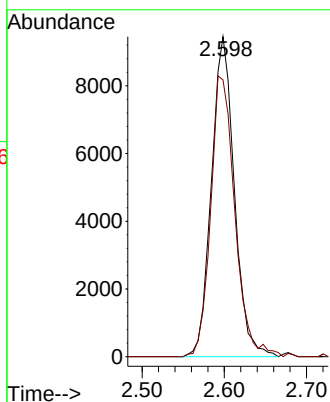
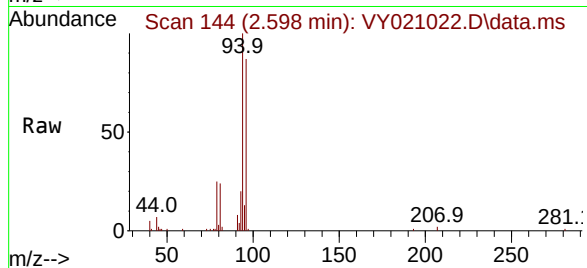
#5
Bromomethane
Concen: 26.423 ug/l
RT: 2.598 min Scan# 145
Delta R.T. -0.006 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 1830
Ion Ratio Lower Upper
94 100
96 86.5 77.4 116.0

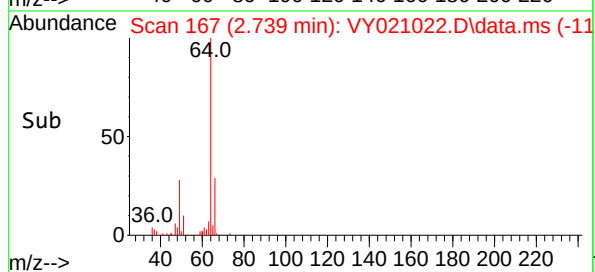
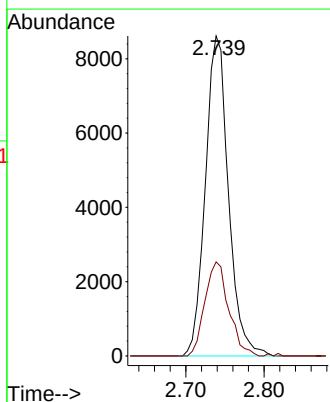
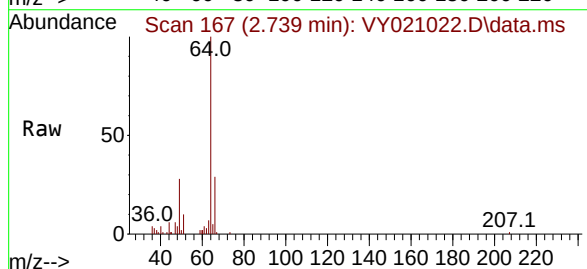
Manual Integrations
APPROVED

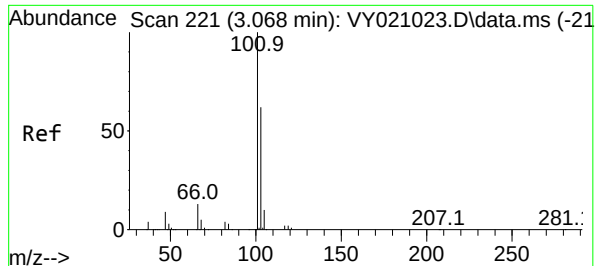
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#6
Chloroethane
Concen: 29.503 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

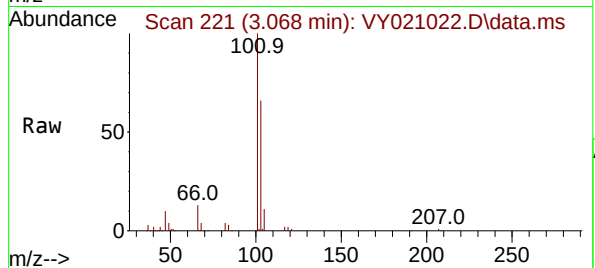
Tgt Ion: 64 Resp: 17634
Ion Ratio Lower Upper
64 100
66 29.4 25.0 37.4





#7
Trichlorofluoromethane
Concen: 22.457 ug/l
RT: 3.068 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

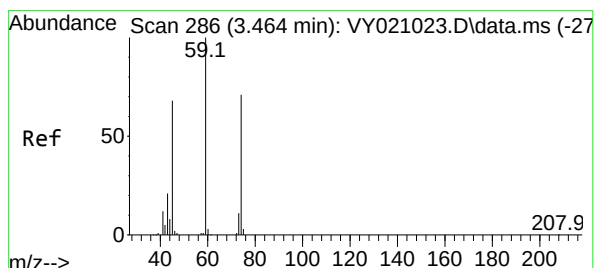
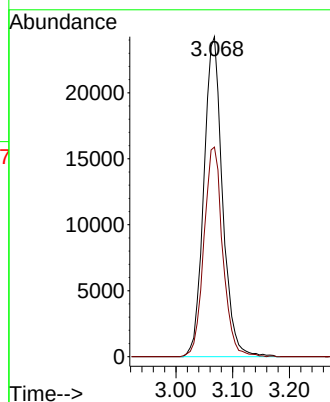
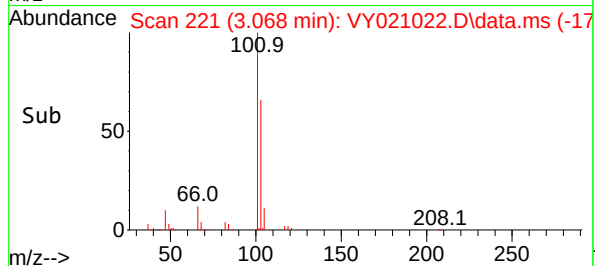
Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC020



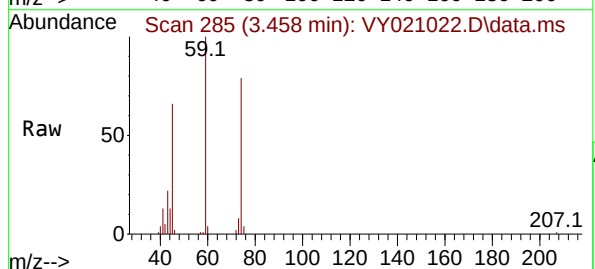
Tgt Ion:101 Resp: 5545
Ion Ratio Lower Upper
101 100
103 65.5 50.9 76.3

Manual Integrations
APPROVED

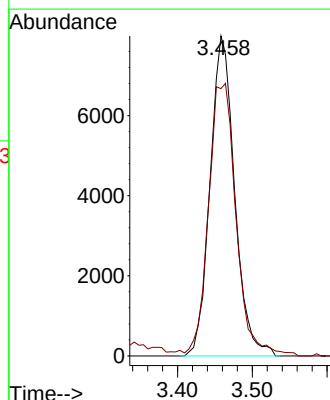
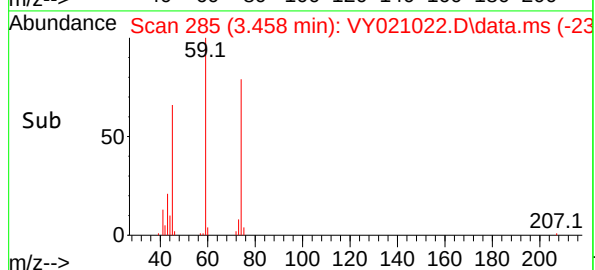
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

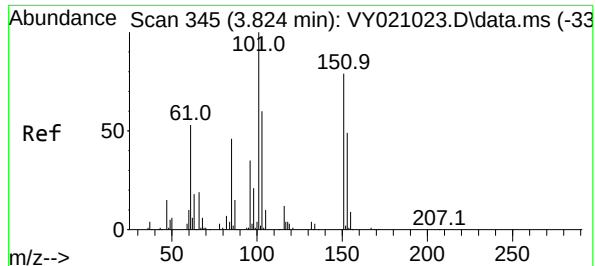


#8
Diethyl Ether
Concen: 24.733 ug/l
RT: 3.458 min Scan# 285
Delta R.T. -0.006 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20



Tgt Ion: 74 Resp: 18232
Ion Ratio Lower Upper
74 100
45 95.6 43.4 130.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.855 ug/l

RT: 3.830 min Scan# 345

Delta R.T. 0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

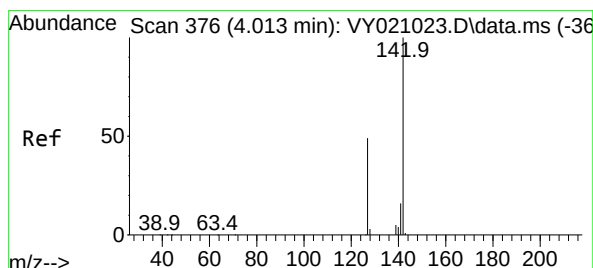
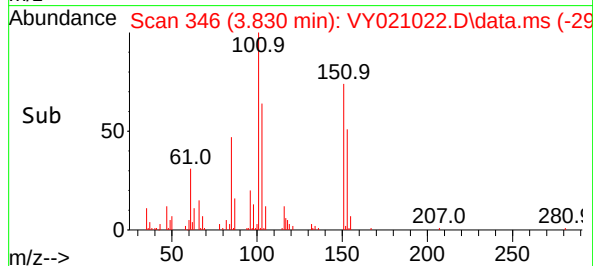
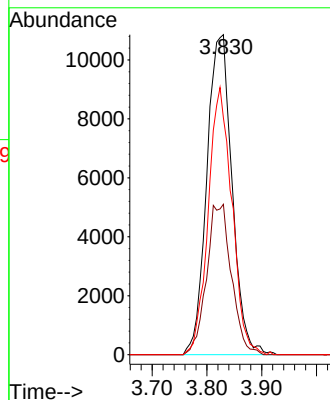
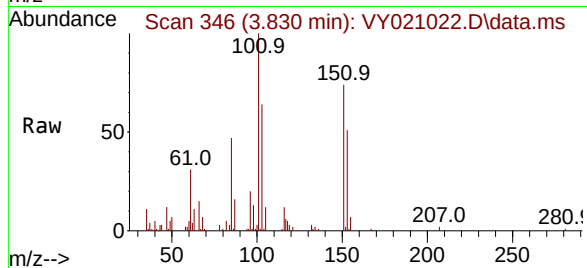
VSTDICC020

Tgt Ion:	101	Resp:	3467
Ion Ratio	Lower	Upper	
101	100		
85	46.3	34.9	52.3
151	78.7	66.8	100.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#10

Methyl Iodide

Concen: 20.338 ug/l

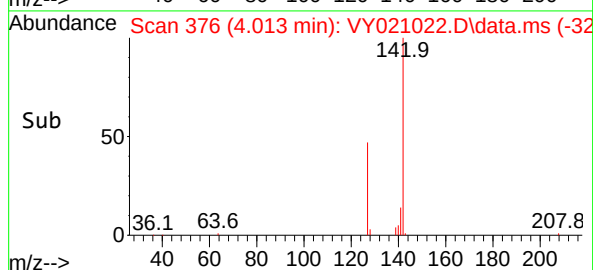
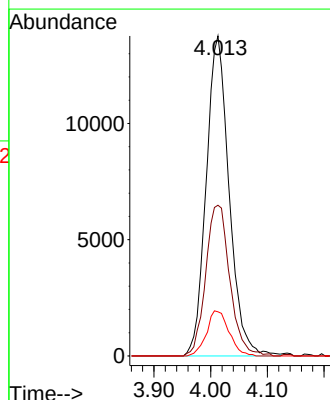
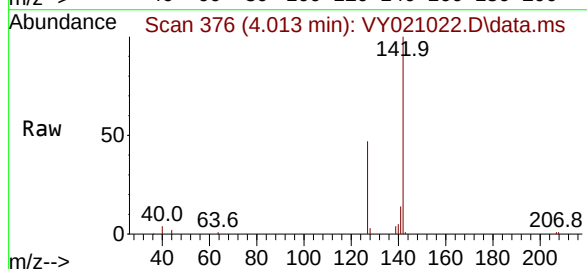
RT: 4.013 min Scan# 376

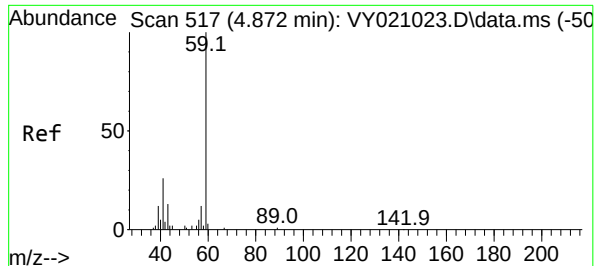
Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion:	142	Resp:	38697
Ion Ratio	Lower	Upper	
142	100		
127	49.5	38.9	58.3
141	13.8	11.7	17.5





#11

Tert butyl alcohol

Concen: 112.894 ug/l

RT: 4.878 min Scan# 517

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 12889

Ion Ratio Lower Upper

59 100

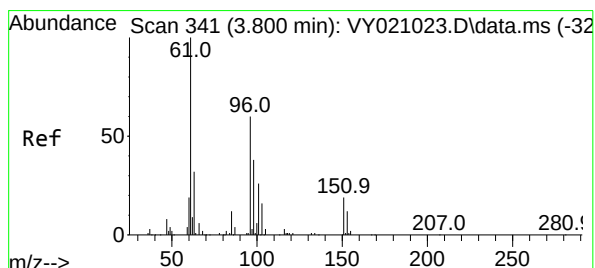
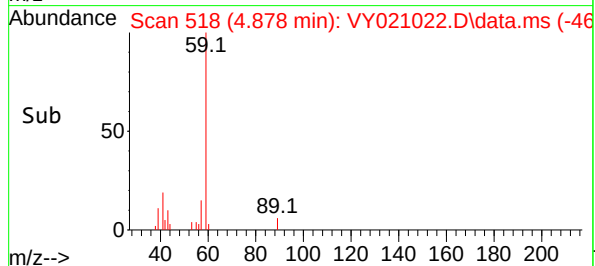
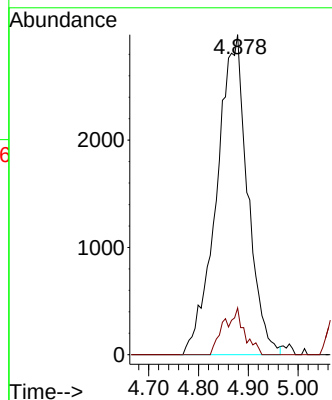
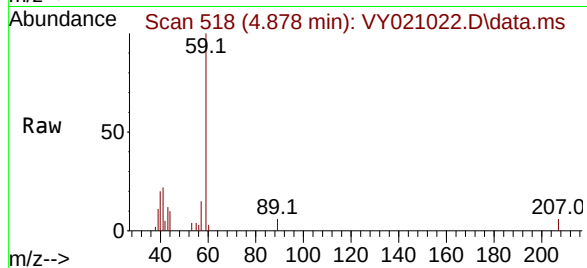
57 6.0 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#12

1,1-Dichloroethene

Concen: 20.845 ug/l

RT: 3.793 min Scan# 340

Delta R.T. -0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

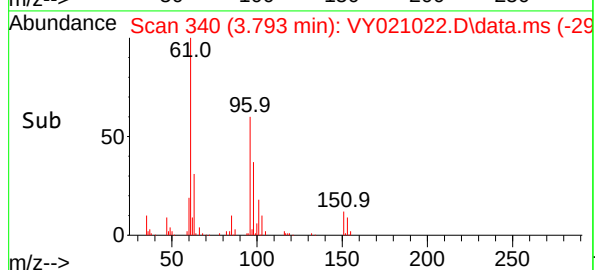
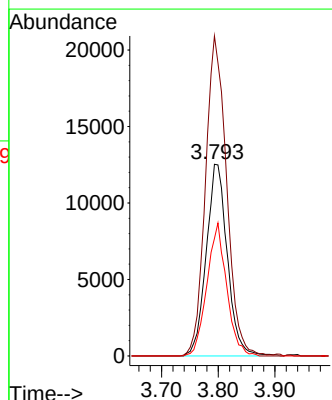
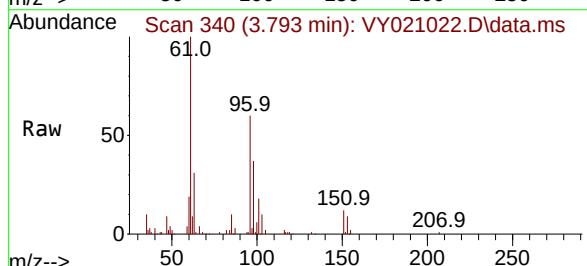
Tgt Ion: 96 Resp: 32389

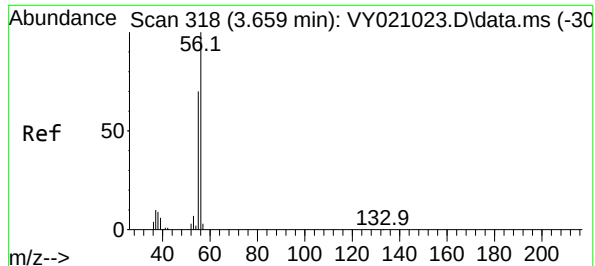
Ion Ratio Lower Upper

96 100

61 166.9 120.8 181.2

98 61.3 50.6 76.0





#13

Acrolein

Concen: 155.371 ug/l

RT: 3.659 min Scan# 318

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion: 56 Resp: 2042

Ion Ratio Lower Upper

56 100

55 70.3 56.1 84.1

Instrument :

MSVOA_Y

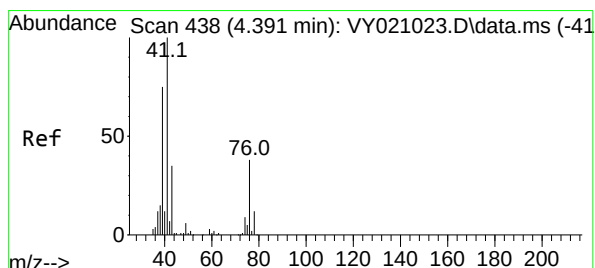
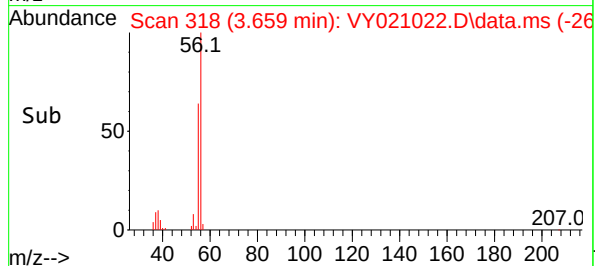
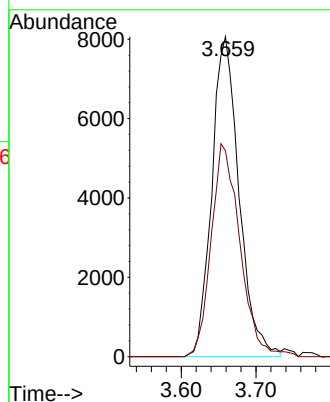
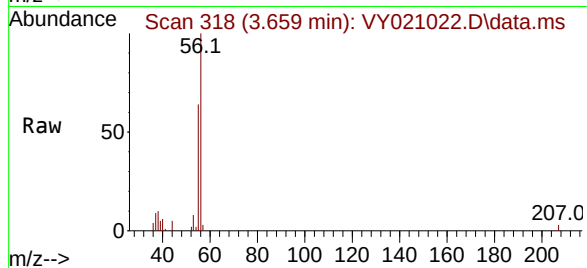
ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#14

Allyl chloride

Concen: 25.859 ug/l

RT: 4.391 min Scan# 438

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

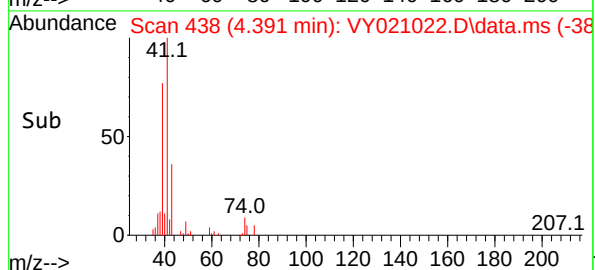
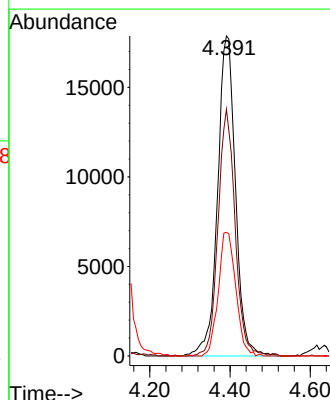
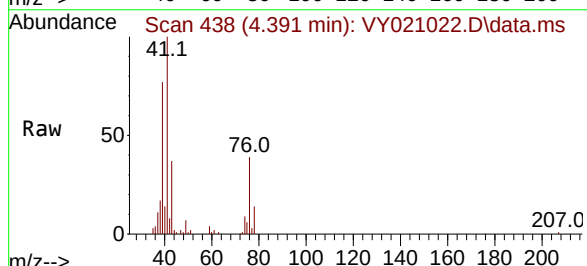
Tgt Ion: 41 Resp: 55315

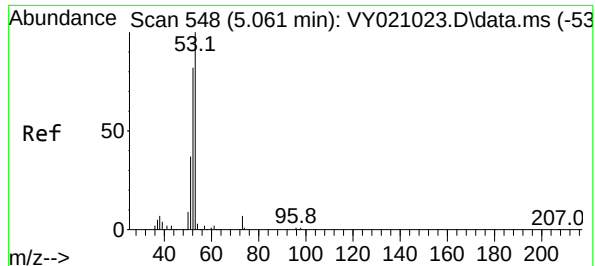
Ion Ratio Lower Upper

41 100

39 73.2 53.5 80.3

76 37.8 34.6 52.0





#15

Acrylonitrile

Concen: 127.343 ug/l

RT: 5.067 min Scan# 548

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

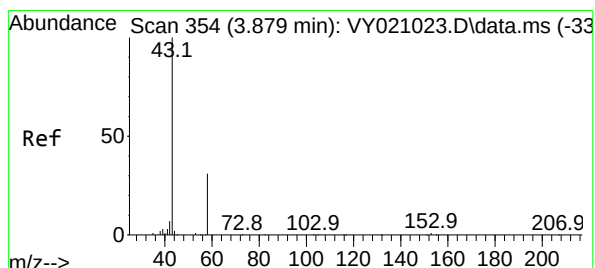
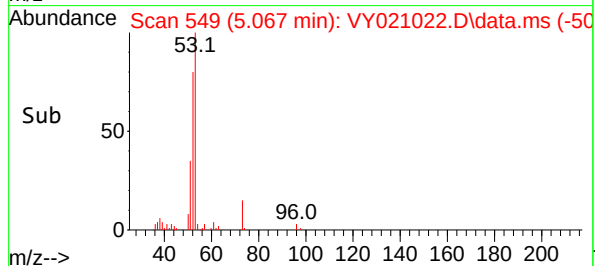
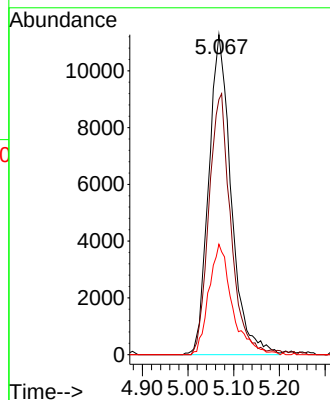
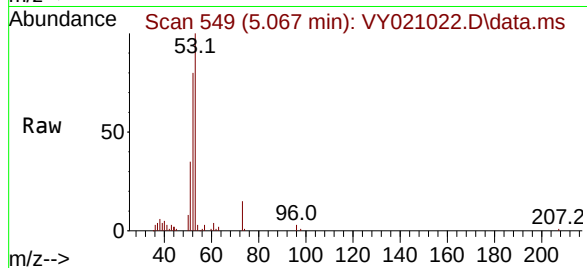
ClientSampleId :

VSTDICC020

Tgt Ion:	53	Resp:	3861
Ion	Ratio	Lower	Upper
53	100		
52	79.0	66.2	99.4
51	35.8	29.4	44.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#16

Acetone

Concen: 133.874 ug/l

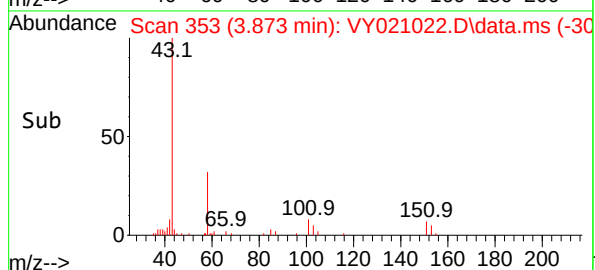
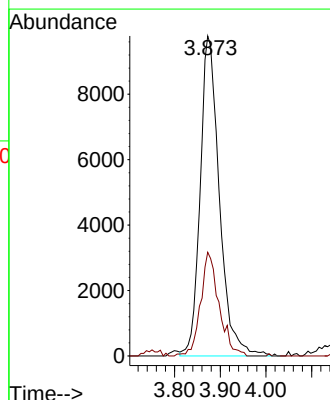
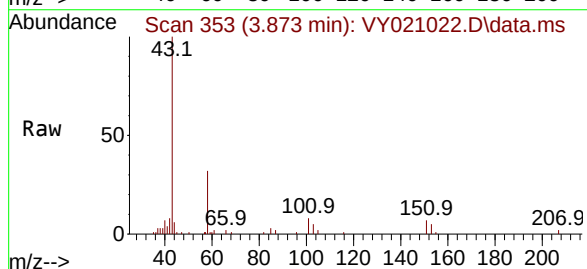
RT: 3.873 min Scan# 353

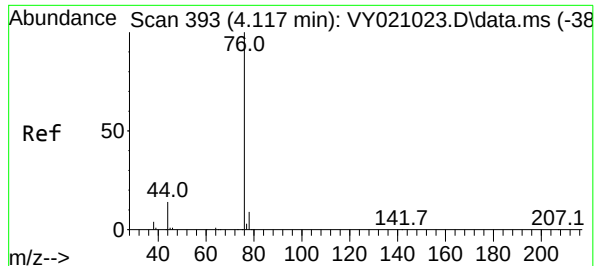
Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion:	43	Resp:	28518
Ion	Ratio	Lower	Upper
43	100		
58	32.4	28.4	42.6





#17

Carbon Disulfide

Concen: 21.308 ug/l

RT: 4.116 min Scan# 393

Delta R.T. 0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 10197

Ion Ratio Lower Upper

76 100

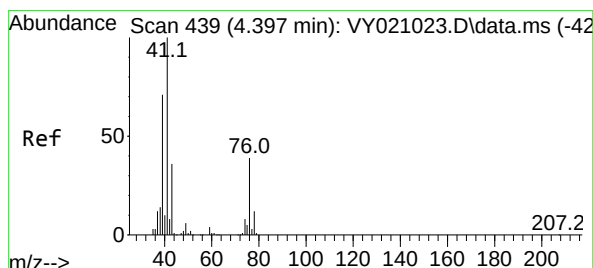
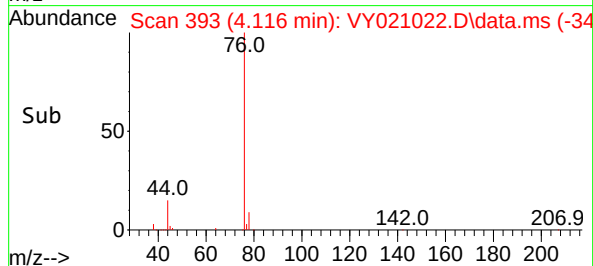
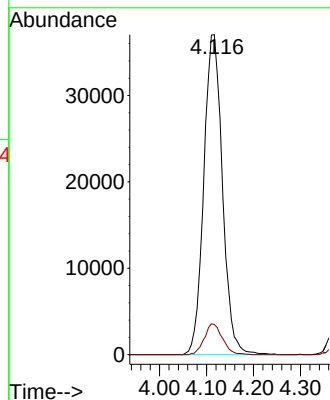
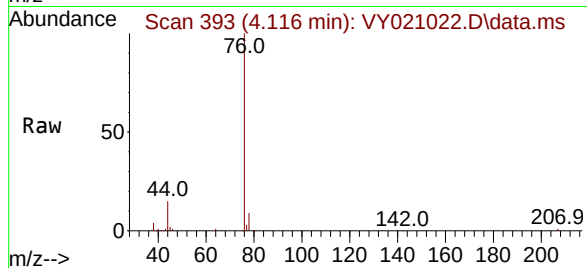
78 9.5 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#18

Methyl Acetate

Concen: 26.393 ug/l

RT: 4.391 min Scan# 438

Delta R.T. 0.000 min

Lab File: VY021022.D

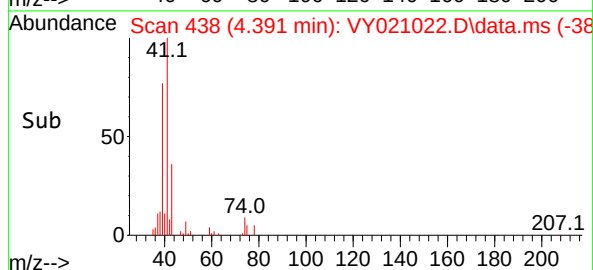
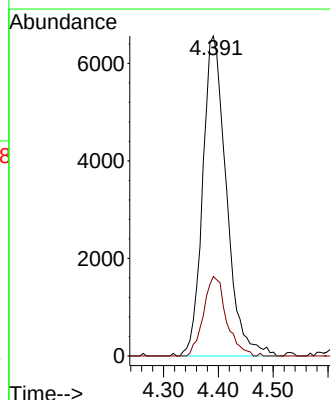
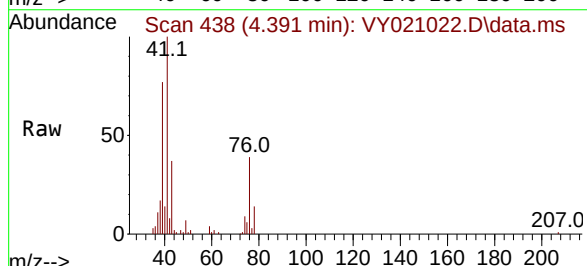
Acq: 03 Feb 2025 11:20

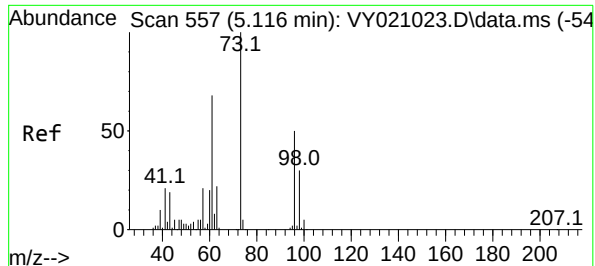
Tgt Ion: 43 Resp: 19673

Ion Ratio Lower Upper

43 100

74 23.8 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 23.710 ug/l

RT: 5.116 min Scan# 51

Delta R.T. -0.012 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 73 Resp: 8574

Ion Ratio Lower Upper

73 100

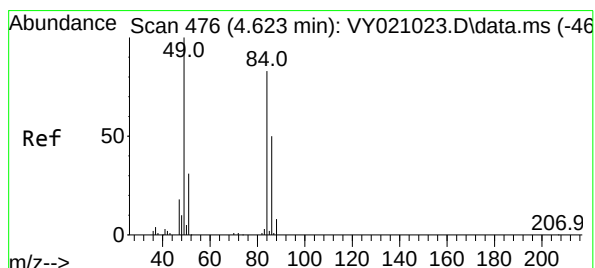
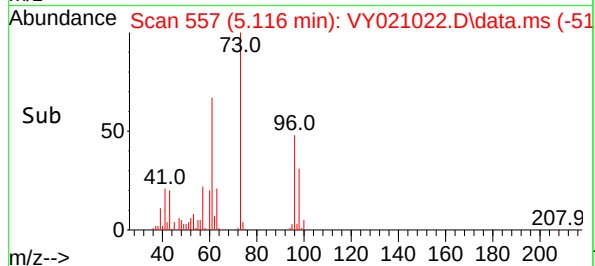
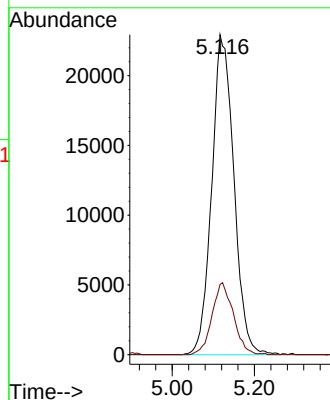
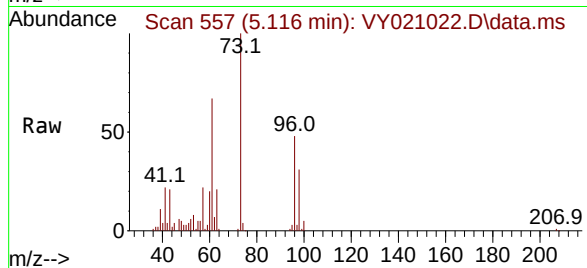
57 21.9 16.6 25.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#20

Methylene Chloride

Concen: 22.087 ug/l

RT: 4.629 min Scan# 477

Delta R.T. 0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion: 84 Resp: 34701

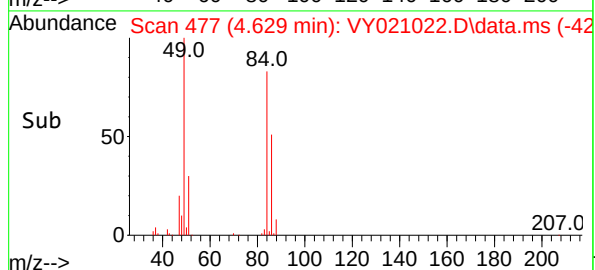
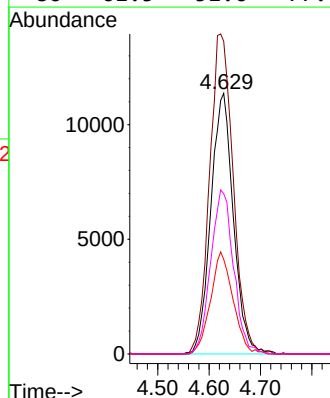
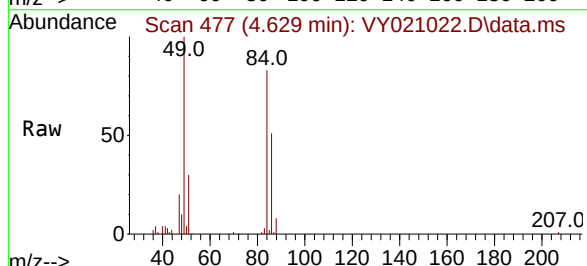
Ion Ratio Lower Upper

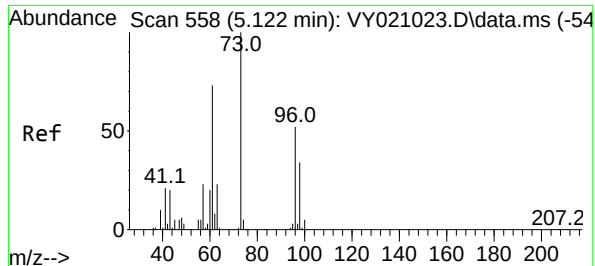
84 100

49 120.0 88.3 132.5

51 36.3 27.7 41.5

86 61.5 51.6 77.4





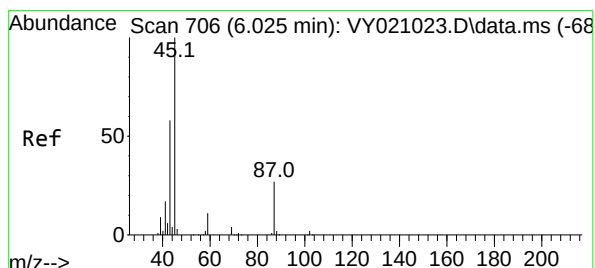
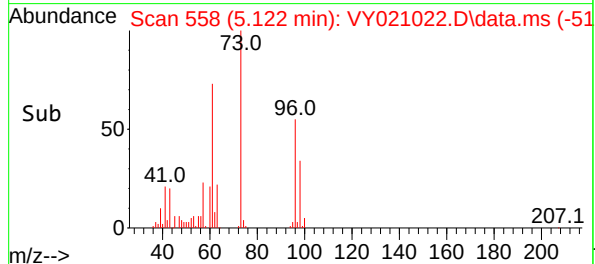
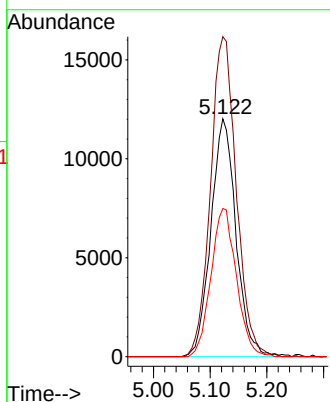
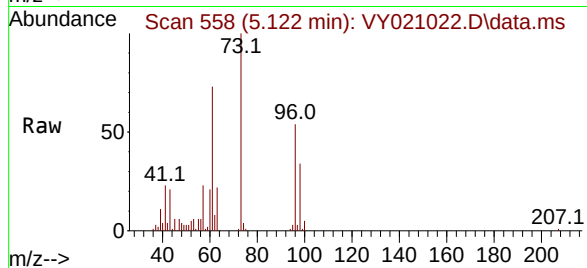
#21
trans-1,2-Dichloroethene
Concen: 22.137 ug/l
RT: 5.122 min Scan# 51
Delta R.T. -0.006 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 36879
Ion Ratio Lower Upper
96 100
61 134.5 101.5 152.3
98 62.3 52.0 78.0

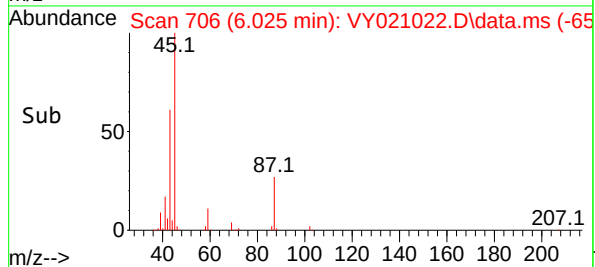
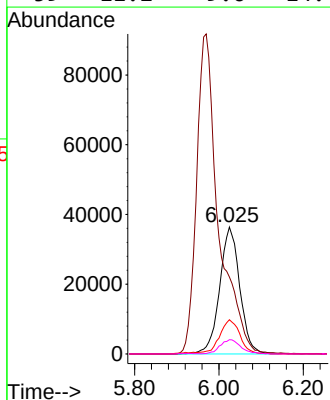
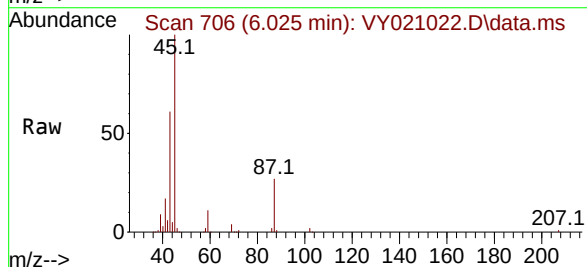
Manual Integrations
APPROVED

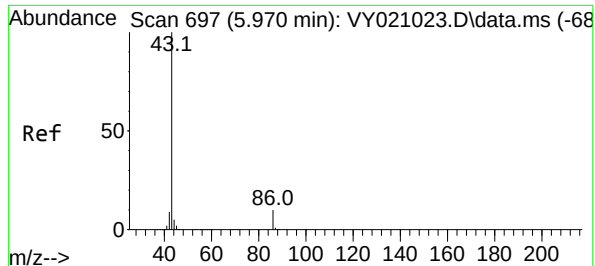
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#22
Diisopropyl ether
Concen: 27.585 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion: 45 Resp: 120281
Ion Ratio Lower Upper
45 100
43 60.3 45.1 67.7
87 27.0 25.0 37.4
59 11.2 9.6 14.4





#23

Vinyl Acetate

Concen: 137.224 ug/l

RT: 5.970 min Scan# 697

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 33135

Ion Ratio Lower Upper

43 100

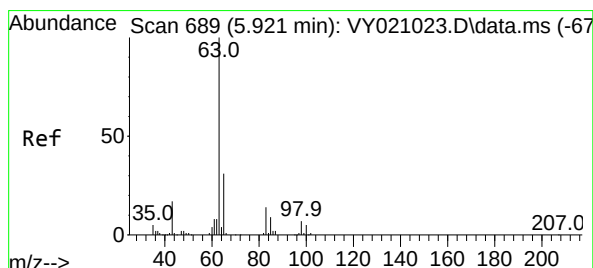
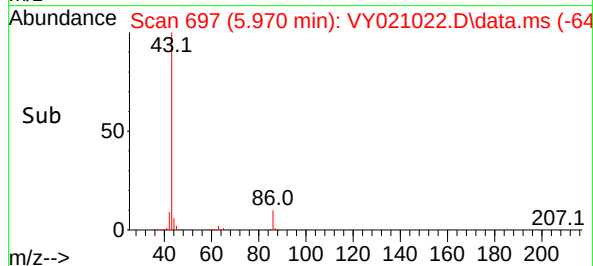
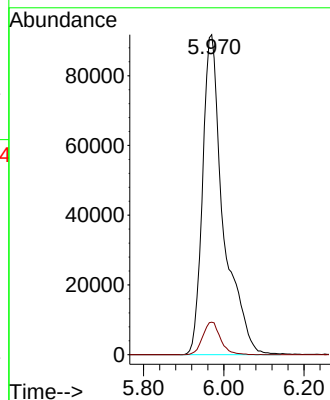
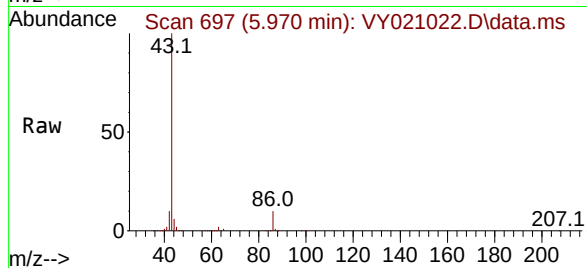
86 10.1 9.7 14.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#24

1,1-Dichloroethane

Concen: 24.102 ug/l

RT: 5.927 min Scan# 690

Delta R.T. 0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

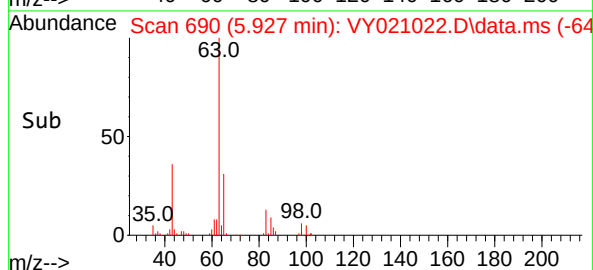
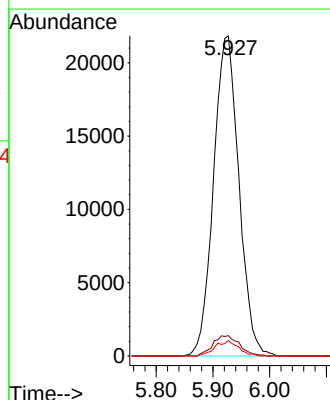
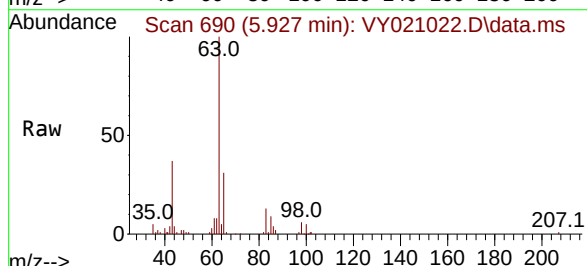
Tgt Ion: 63 Resp: 67799

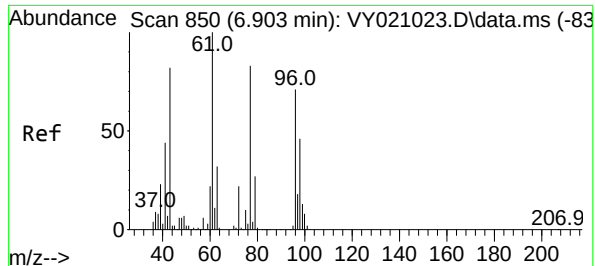
Ion Ratio Lower Upper

63 100

98 6.3 3.7 11.1

100 4.8 2.4 7.2





#25

2-Butanone

Concen: 127.520 ug/l

RT: 6.902 min Scan# 850

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 4608

Ion Ratio Lower Upper

43 100

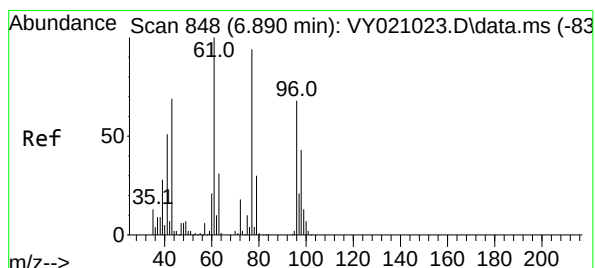
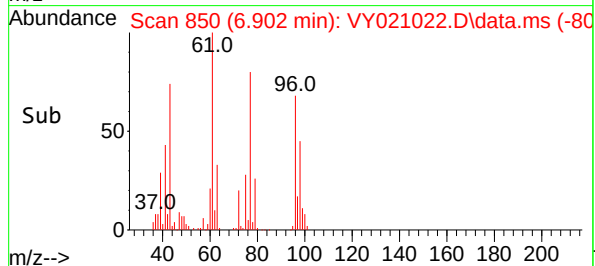
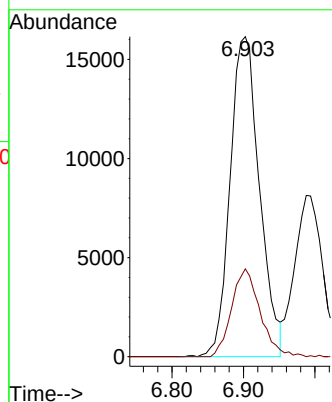
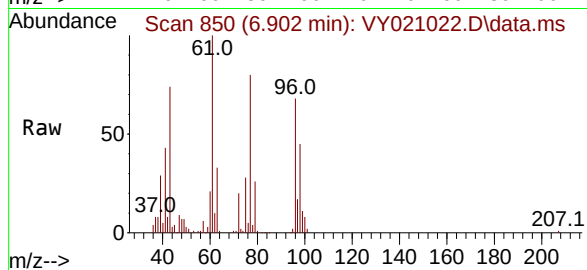
72 27.5 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#26

2,2-Dichloropropane

Concen: 22.336 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY021022.D

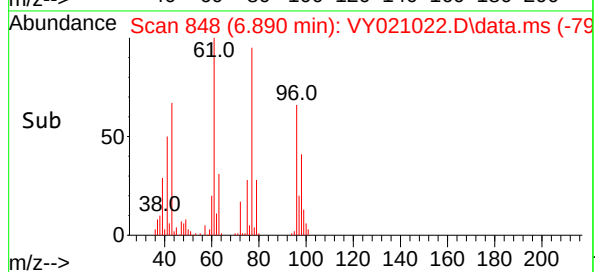
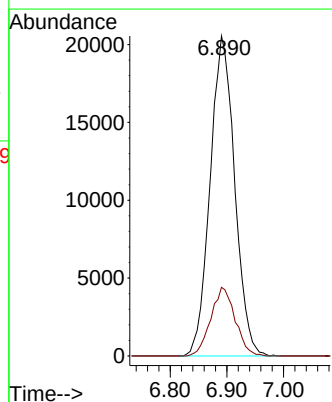
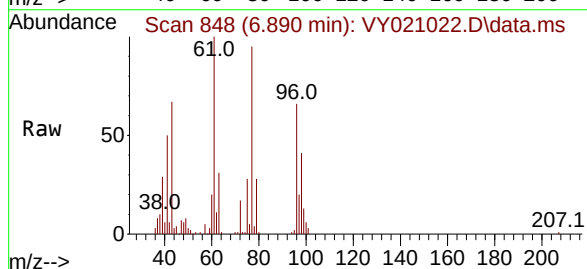
Acq: 03 Feb 2025 11:20

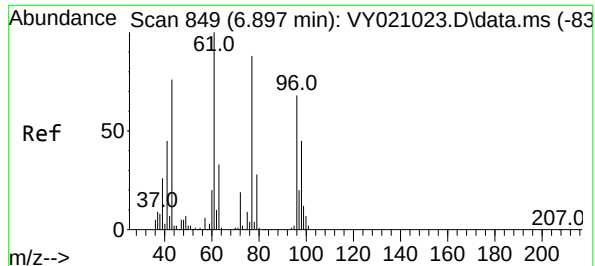
Tgt Ion: 77 Resp: 61862

Ion Ratio Lower Upper

77 100

97 21.3 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 22.120 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

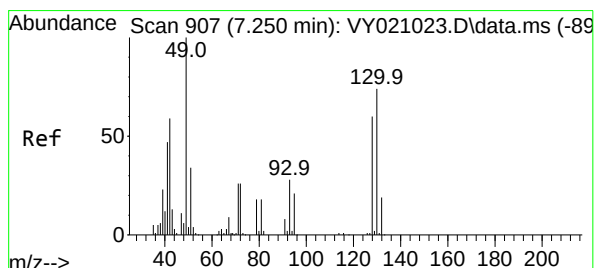
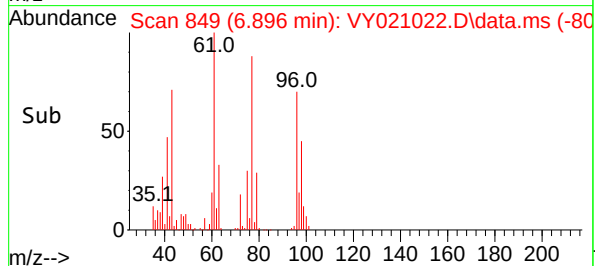
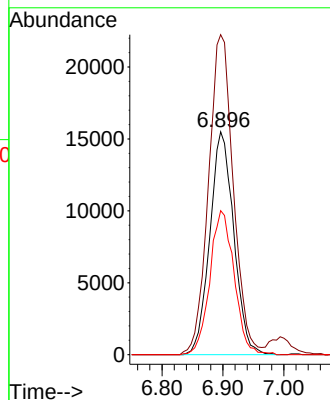
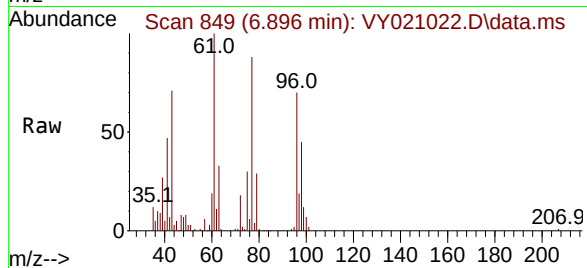
Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 96	Resp: 4235
Ion Ratio	Lower Upper
96 100	
61 148.6	0.0 274.0
98 65.6	0.0 130.4

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#28

Bromochloromethane

Concen: 26.684 ug/l

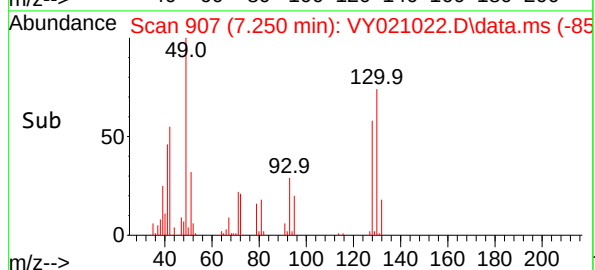
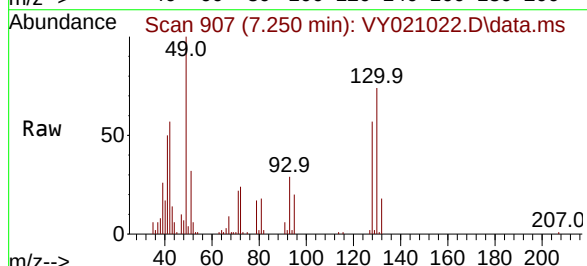
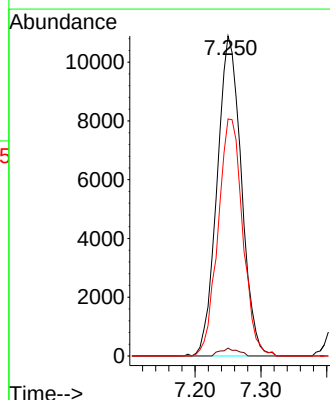
RT: 7.250 min Scan# 907

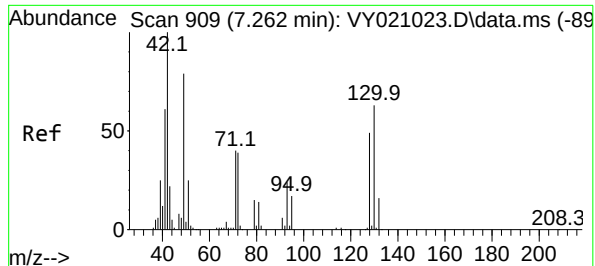
Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion: 49	Resp: 27966
Ion Ratio	Lower Upper
49 100	
129 1.8	0.0 5.0
130 75.3	73.2 109.8





#29

Tetrahydrofuran

Concen: 132.707 ug/l

RT: 7.268 min Scan# 910

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

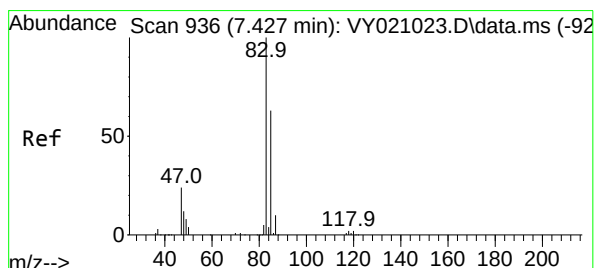
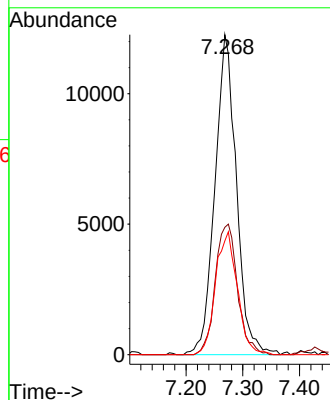
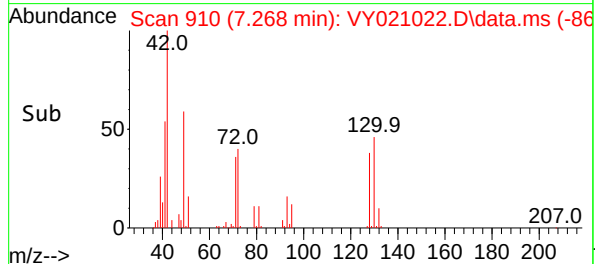
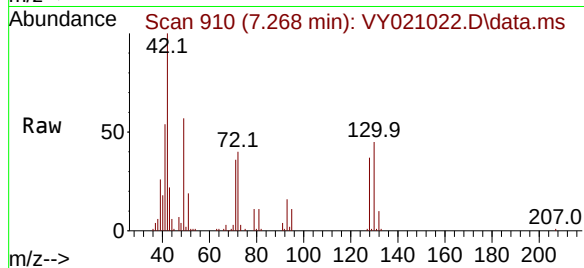
ClientSampleId :

VSTDICC020

Tgt Ion:	42	Resp:	3227
Ion	Ratio	Lower	Upper
42	100		
72	42.2	39.3	58.9
71	39.0	36.1	54.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#30

Chloroform

Concen: 22.832 ug/l

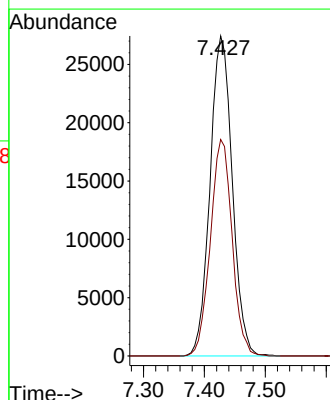
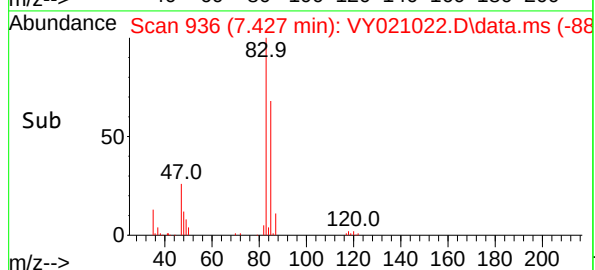
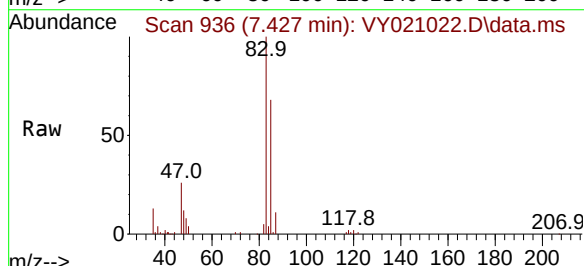
RT: 7.427 min Scan# 936

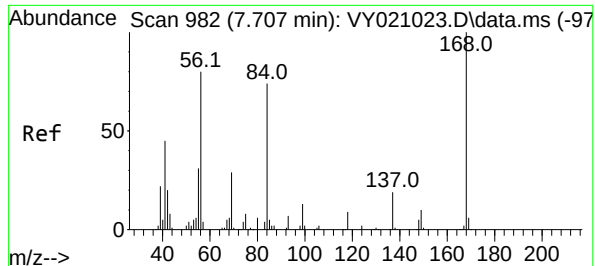
Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion:	83	Resp:	69562
Ion	Ratio	Lower	Upper
83	100		
85	67.7	52.9	79.3





#31

Cyclohexane

Concen: 21.556 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 5926

Ion Ratio Lower Upper

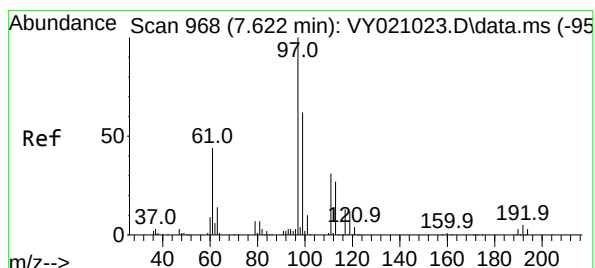
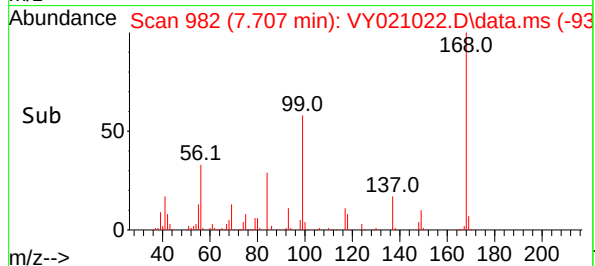
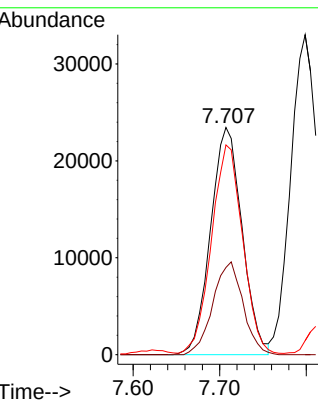
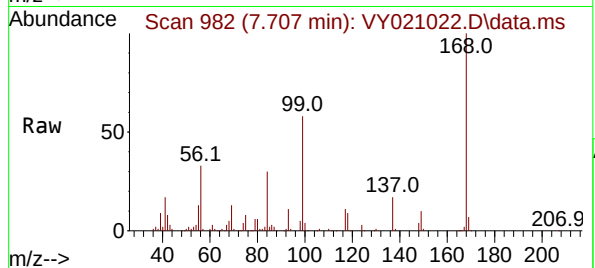
56 100

69 38.4 27.7 41.5

84 91.2 77.5 116.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#32

1,1,1-Trichloroethane

Concen: 21.585 ug/l

RT: 7.622 min Scan# 968

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

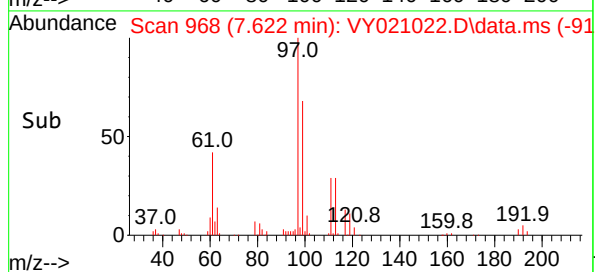
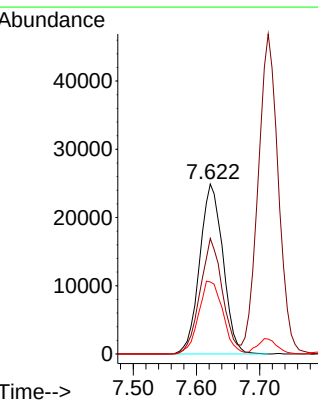
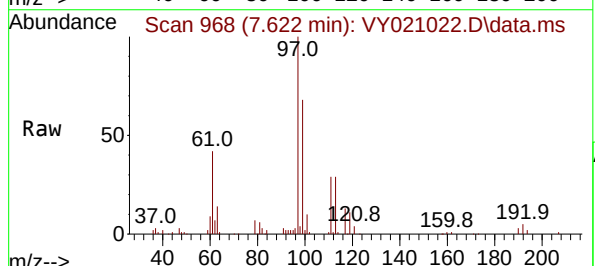
Tgt Ion: 97 Resp: 63645

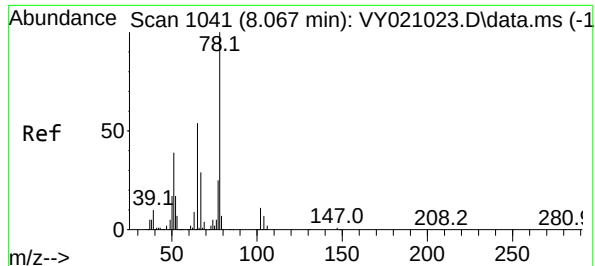
Ion Ratio Lower Upper

97 100

99 65.5 51.4 77.0

61 44.5 31.4 47.0





#33

1,2-Dichloroethane-d4

Concen: 22.450 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 3508

Ion Ratio Lower Upper

65 100

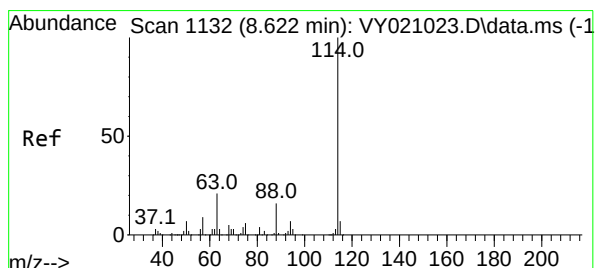
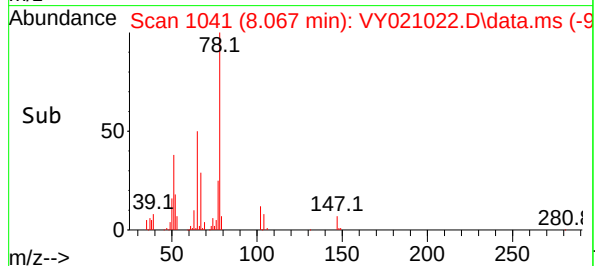
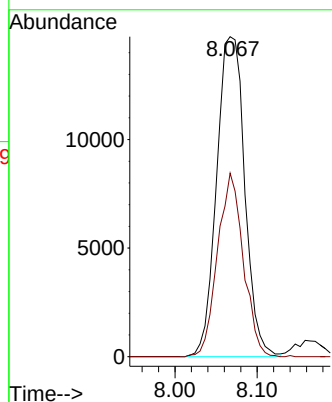
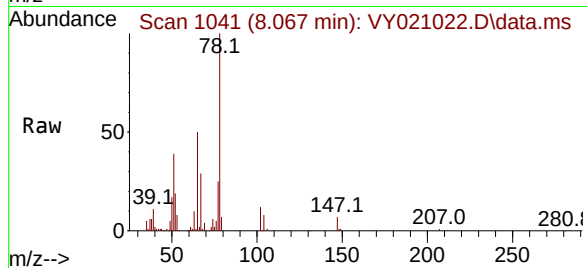
67 52.5 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

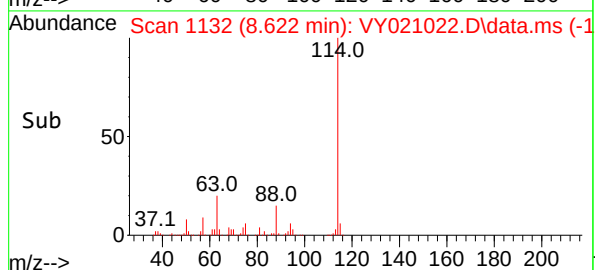
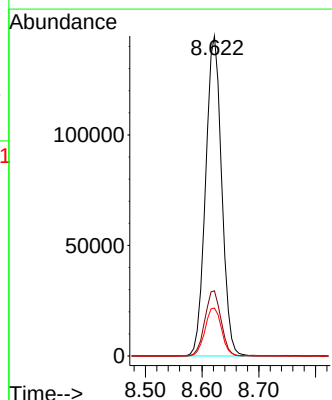
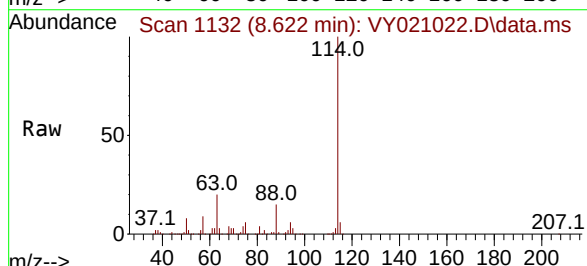
Tgt Ion:114 Resp: 284501

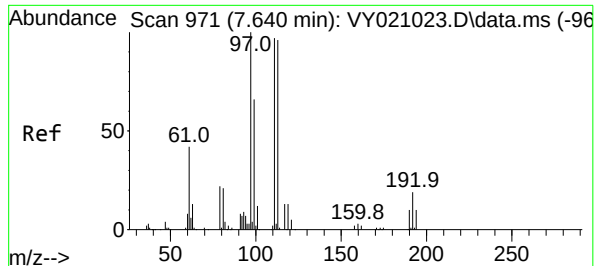
Ion Ratio Lower Upper

114 100

63 20.4 0.0 37.2

88 15.0 0.0 29.6





#35

Dibromofluoromethane

Concen: 20.042 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

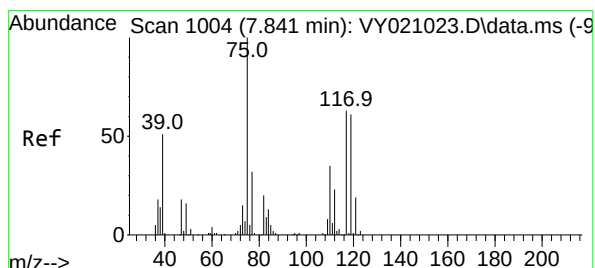
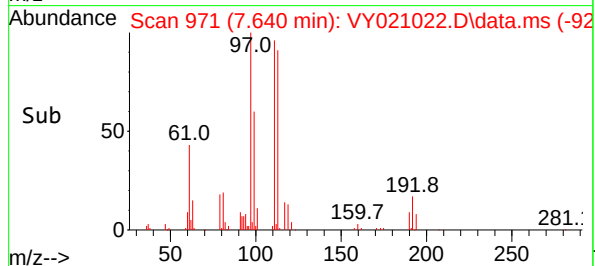
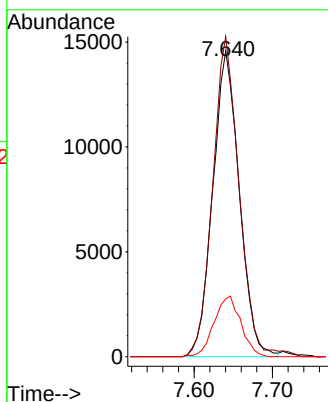
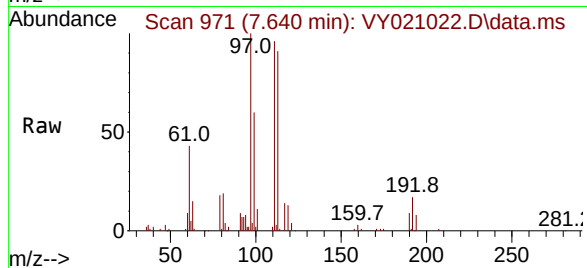
VSTDICC020

Tgt Ion:	113	Resp:	34279
Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.6	123.8
192	20.0	16.8	25.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#36

1,1-Dichloropropene

Concen: 20.868 ug/l

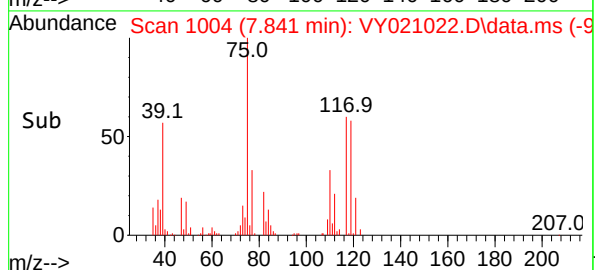
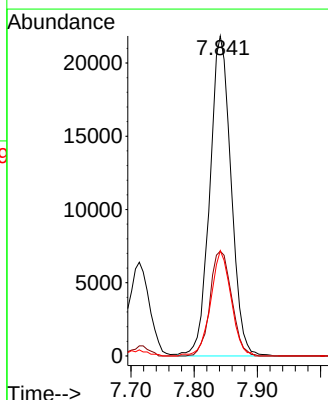
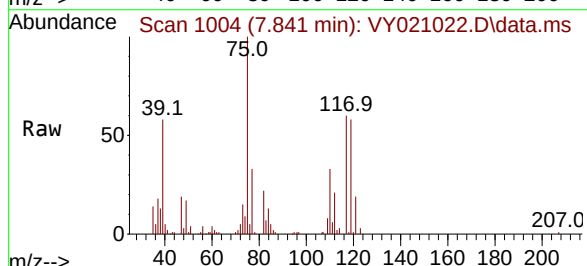
RT: 7.841 min Scan# 1004

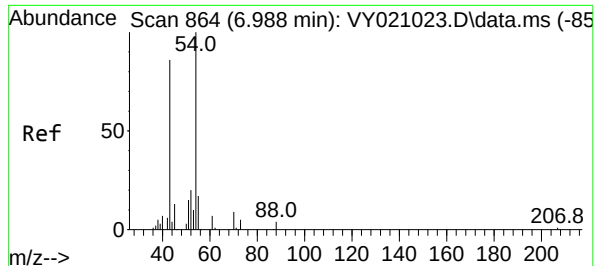
Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion:	75	Resp:	50918
Ion	Ratio	Lower	Upper
75	100		
110	33.3	18.4	55.2
77	31.6	24.9	37.3





#37

Ethyl Acetate

Concen: 26.080 ug/l

RT: 6.988 min Scan# 864

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

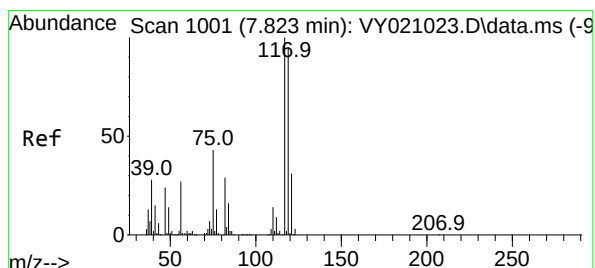
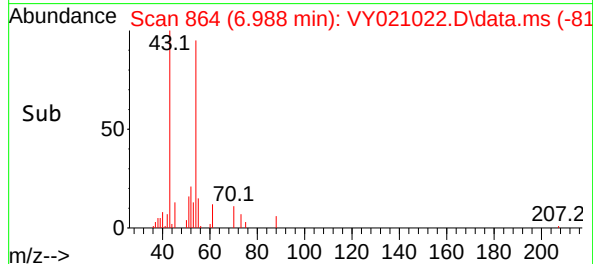
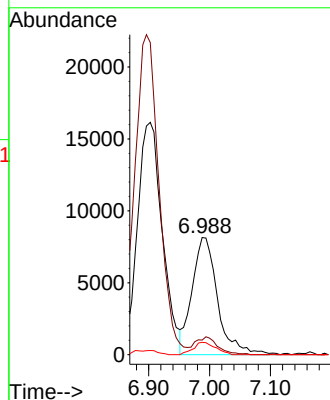
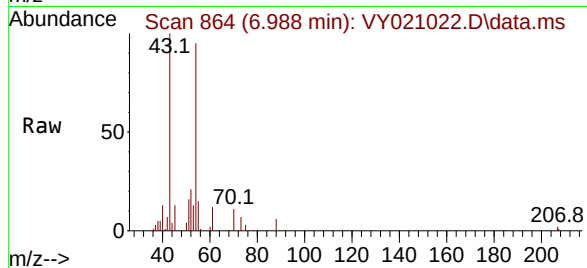
ClientSampleId :

VSTDIC020

Tgt Ion:	43	Resp:	23724
Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.4	17.0
70	9.2	9.6	14.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#38

Carbon Tetrachloride

Concen: 19.683 ug/l

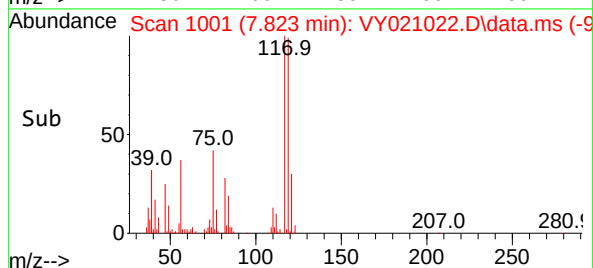
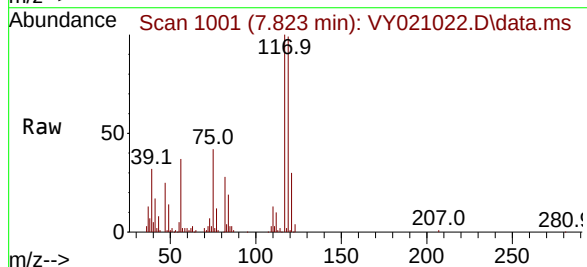
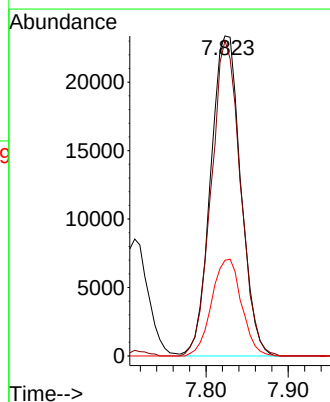
RT: 7.823 min Scan# 1001

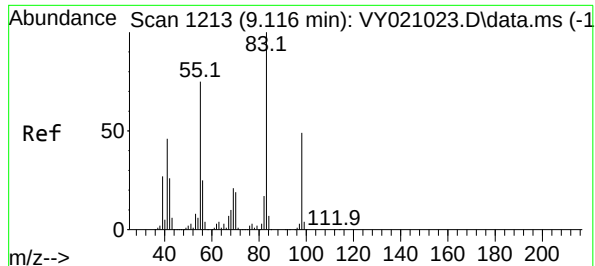
Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion:	117	Resp:	59433
Ion	Ratio	Lower	Upper
117	100		
119	98.6	75.0	112.6
121	29.9	24.2	36.2





#39

Methylcyclohexane

Concen: 18.619 ug/l

RT: 9.116 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

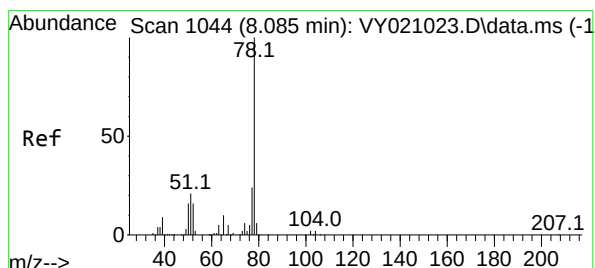
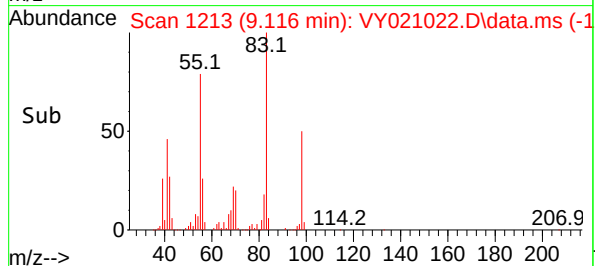
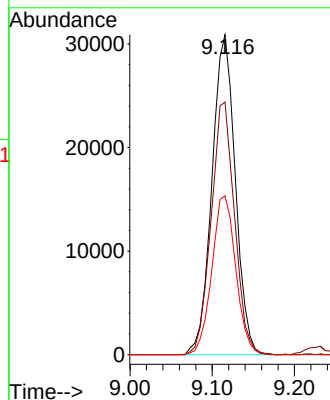
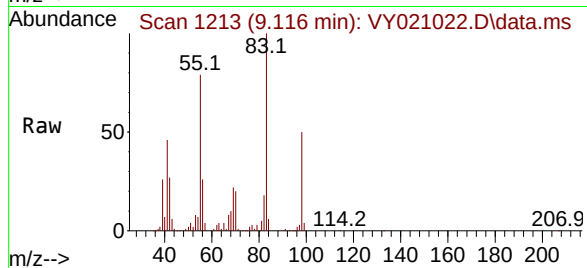
Tgt Ion:	83	Resp:	61029
Ion	Ratio	Lower	Upper
83	100		
55	78.9	54.9	82.3
98	49.7	40.5	60.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#40

Benzene

Concen: 21.027 ug/l

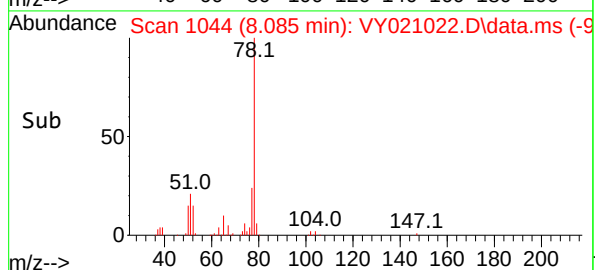
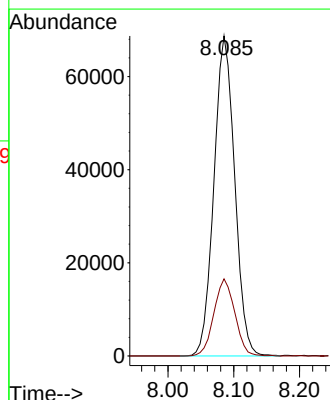
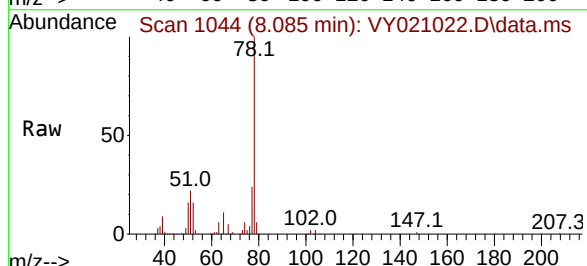
RT: 8.085 min Scan# 1044

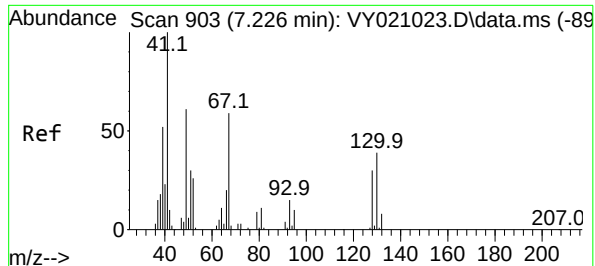
Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion:	78	Resp:	150967
Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.4	29.2





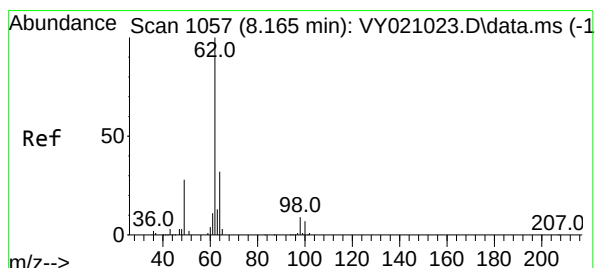
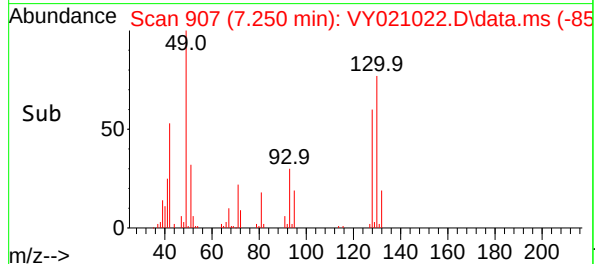
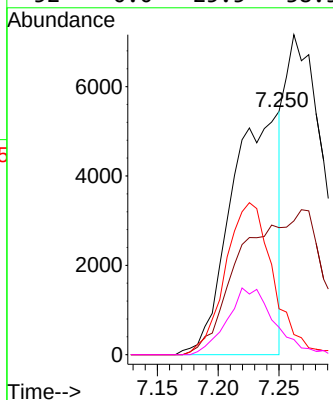
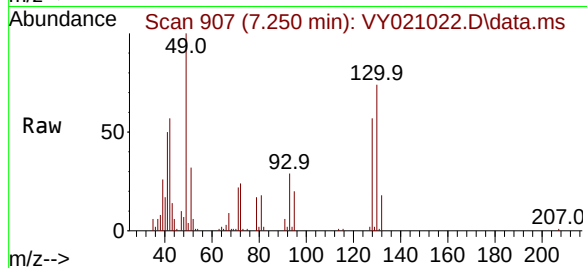
#41
Methacrylonitrile
Concen: 30.084 ug/l m
RT: 7.250 min Scan# 903
Delta R.T. 0.025 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 1514
Ion Ratio Lower Upper
41 100
39 102.2 41.6 62.4
67 0.0 63.8 95.6
52 0.0 25.5 38.3

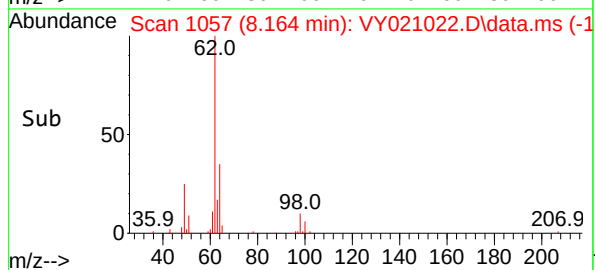
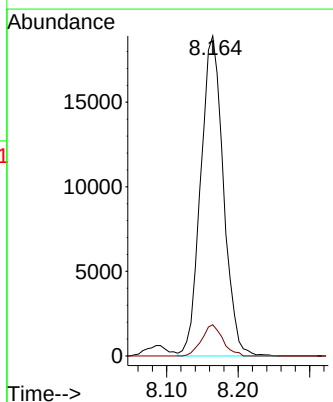
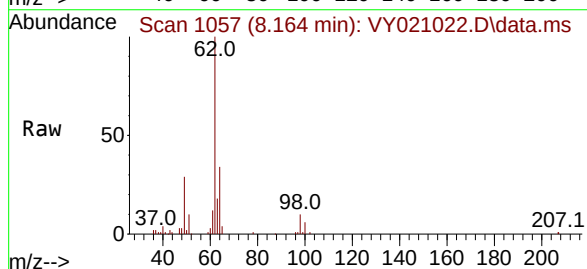
Manual Integrations
APPROVED

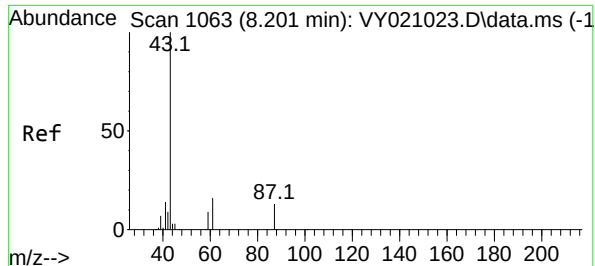
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#42
1,2-Dichloroethane
Concen: 22.916 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion: 62 Resp: 41726
Ion Ratio Lower Upper
62 100
98 9.0 0.0 19.4





#43

Isopropyl Acetate

Concen: 25.040 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

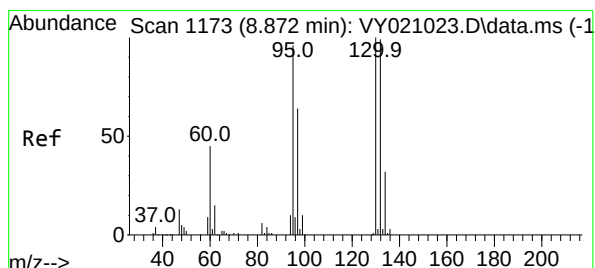
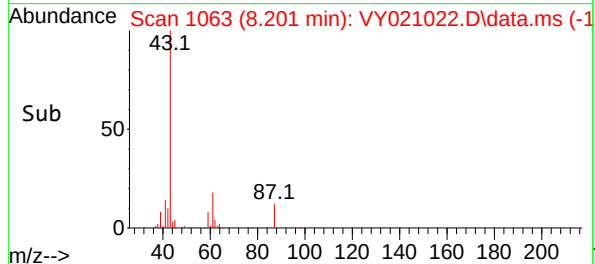
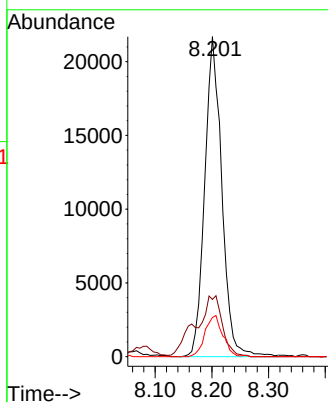
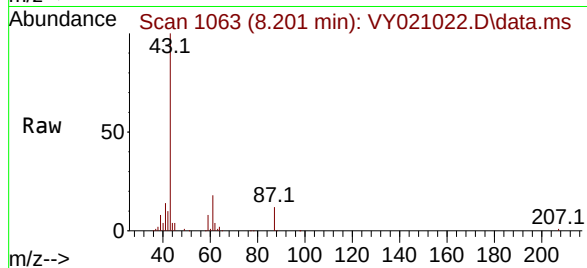
Tgt Ion:	43	Resp:	4550
Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.8	23.6
87	13.5	12.5	18.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#44

Trichloroethene

Concen: 19.606 ug/l

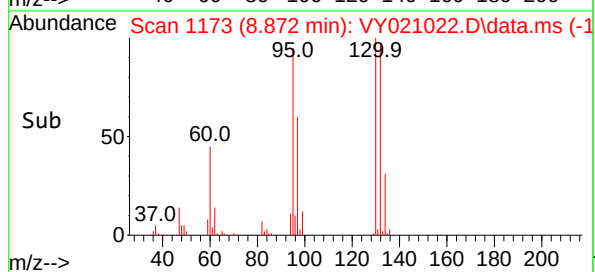
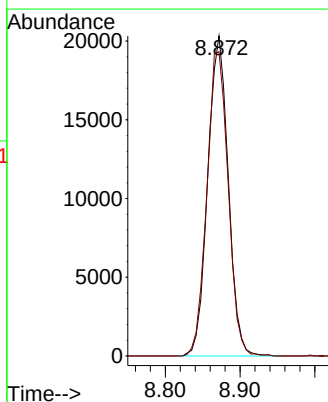
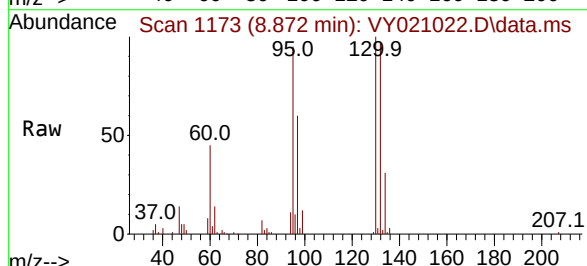
RT: 8.872 min Scan# 1173

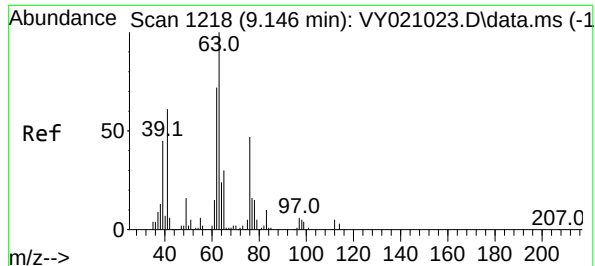
Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion:	130	Resp:	38841
Ion	Ratio	Lower	Upper
130	100		
95	95.0	0.0	189.6





#45

1,2-Dichloropropane

Concen: 22.538 ug/l

RT: 9.146 min Scan# 1218

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 3626

Ion Ratio Lower Upper

63 100

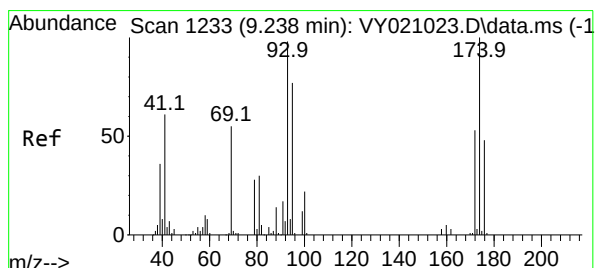
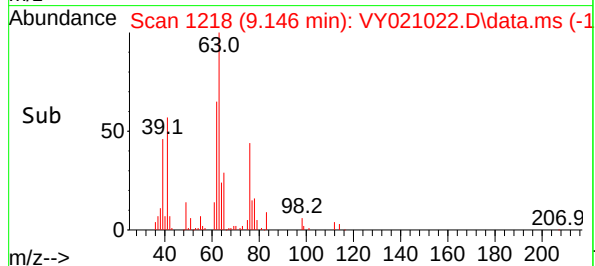
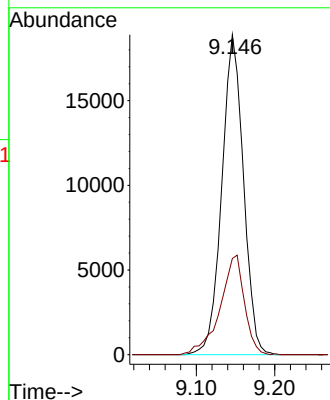
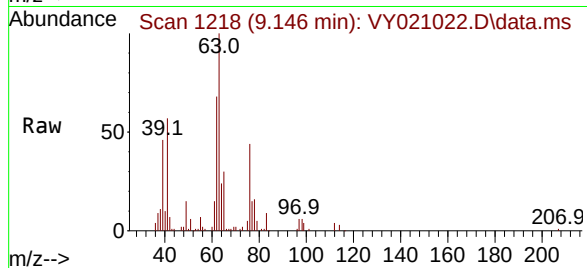
65 30.0 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#46

Dibromomethane

Concen: 21.802 ug/l

RT: 9.237 min Scan# 1233

Delta R.T. 0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

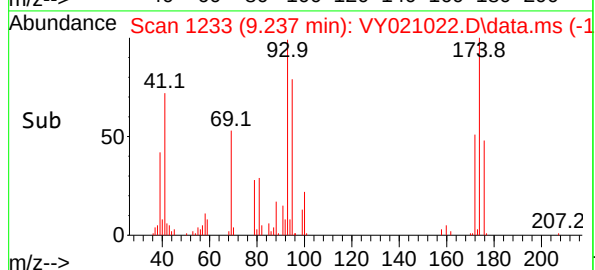
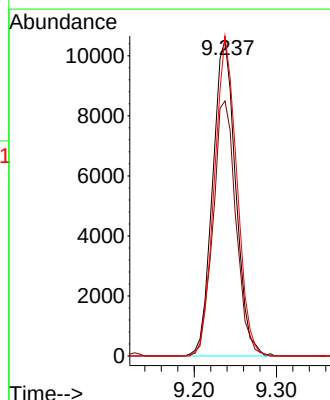
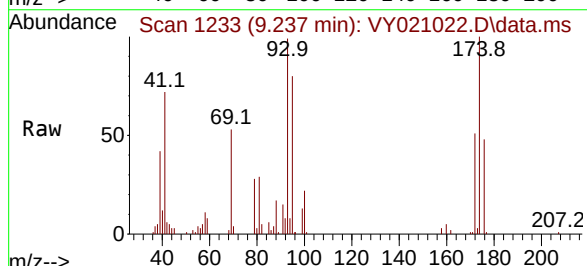
Tgt Ion: 93 Resp: 20417

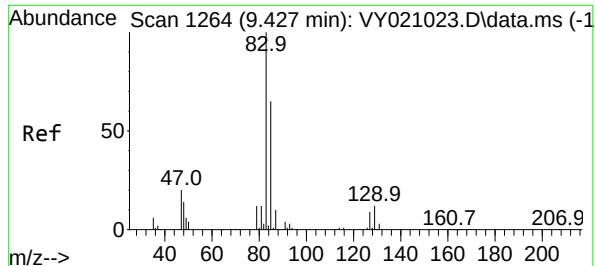
Ion Ratio Lower Upper

93 100

95 80.6 65.8 98.8

174 98.9 88.1 132.1





#47

Bromodichloromethane

Concen: 21.723 ug/l

RT: 9.426 min Scan# 1264

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

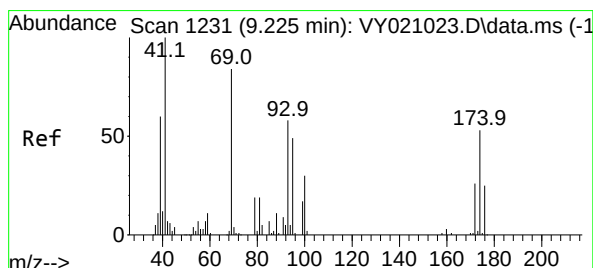
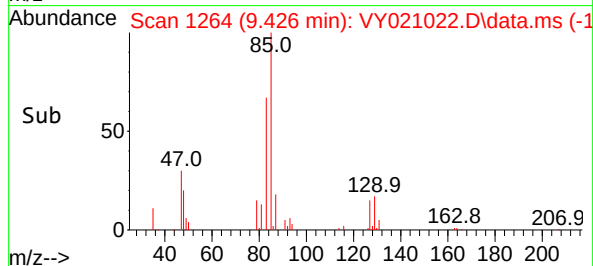
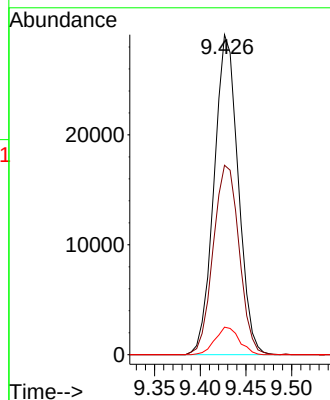
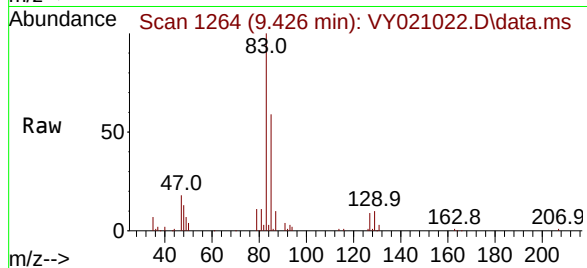
ClientSampleId :

VSTDICC020

Tgt Ion:	83	Resp:	5342
Ion	Ratio	Lower	Upper
83	100		
85	59.2	49.6	74.4
127	8.6	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#48

Methyl methacrylate

Concen: 23.066 ug/l

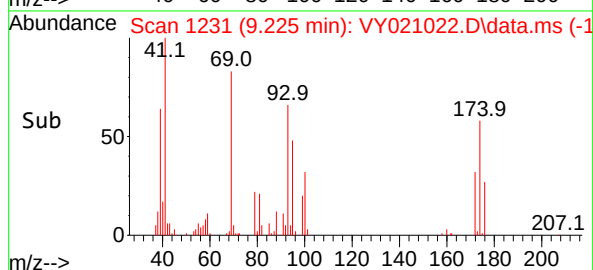
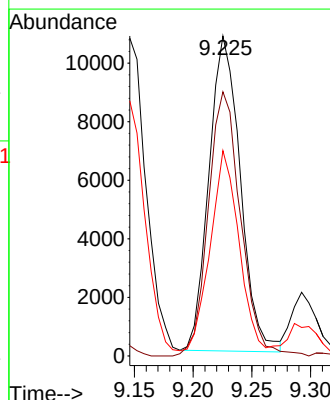
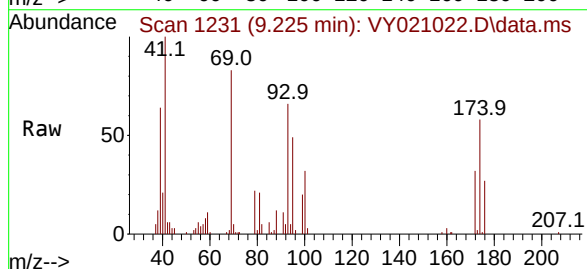
RT: 9.225 min Scan# 1231

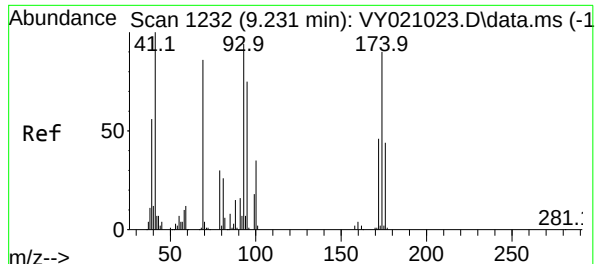
Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion:	41	Resp:	19957
Ion	Ratio	Lower	Upper
41	100		
69	86.6	75.6	113.4
39	58.1	41.3	61.9





#49

1,4-Dioxane

Concen: 395.839 ug/l

RT: 9.237 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 88 Resp: 3939

Ion Ratio Lower Upper

88 100

43 40.0 24.2 36.4

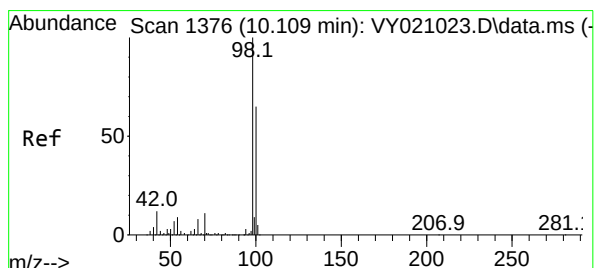
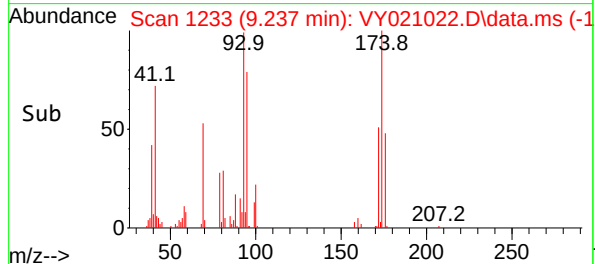
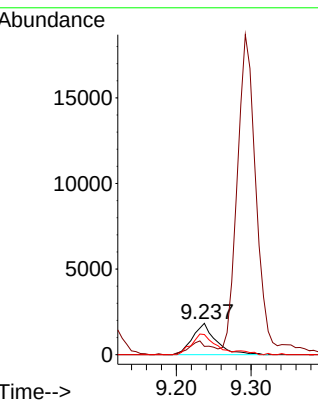
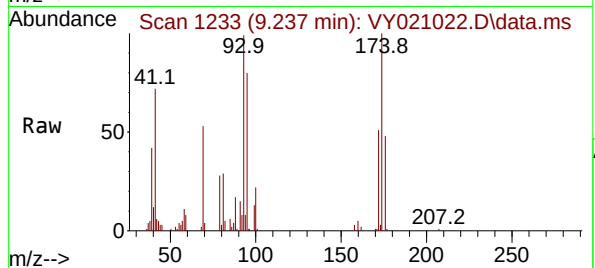
58 66.2 57.3 85.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#50

Toluene-d8

Concen: 19.423 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021022.D

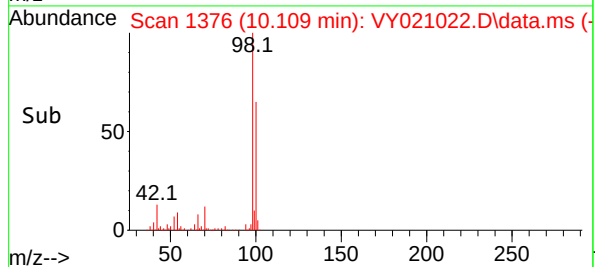
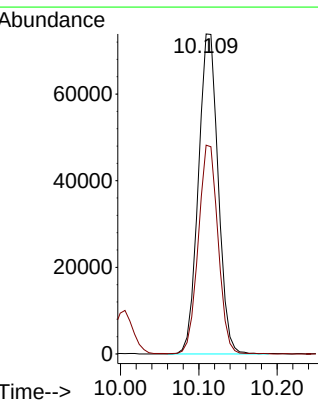
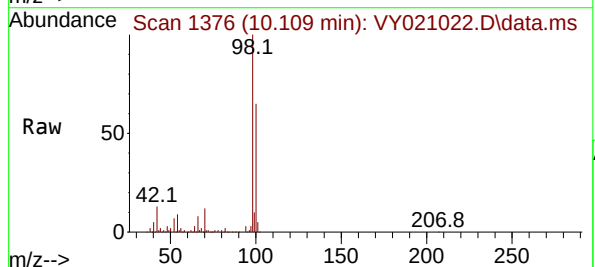
Acq: 03 Feb 2025 11:20

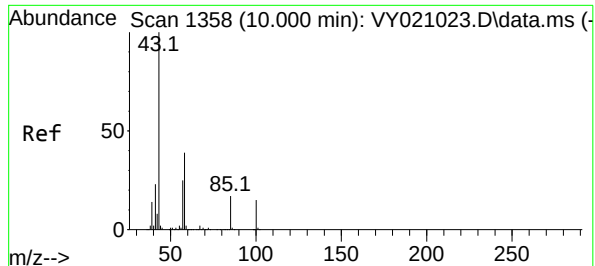
Tgt Ion: 98 Resp: 129662

Ion Ratio Lower Upper

98 100

100 65.1 52.6 79.0





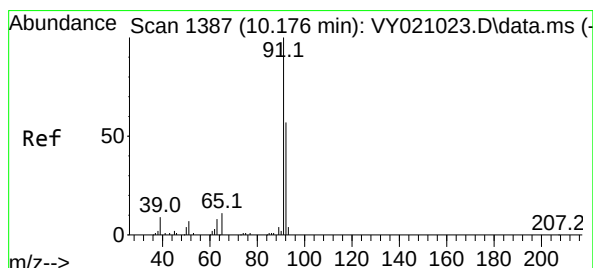
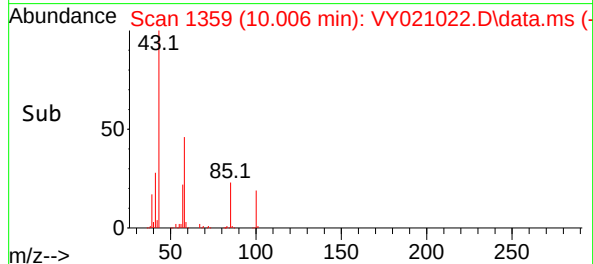
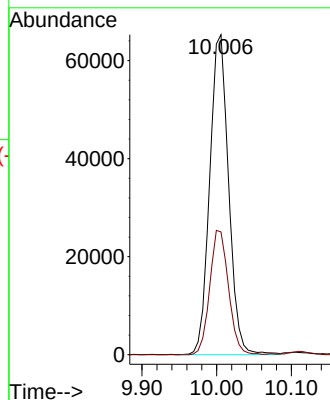
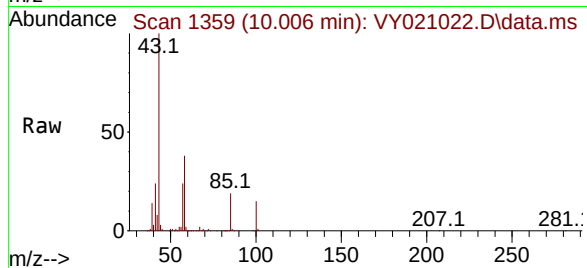
#51
4-Methyl-2-Pentanone
Concen: 122.983 ug/l
RT: 10.006 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 11484
Ion Ratio Lower Upper
43 100
58 38.6 33.8 50.8

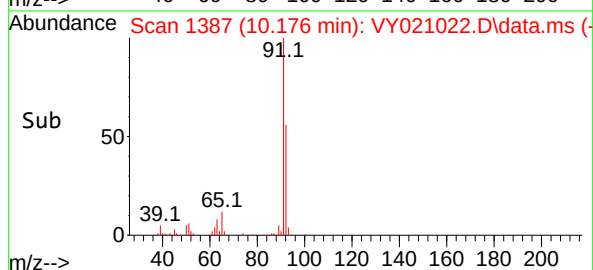
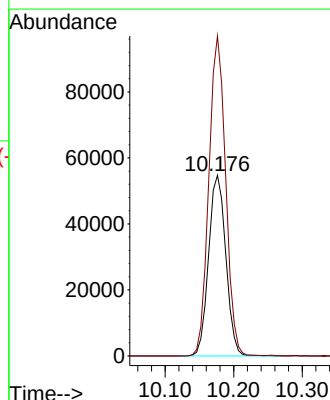
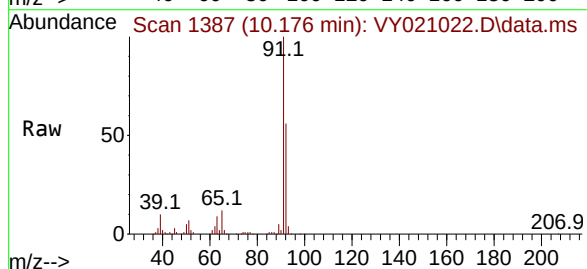
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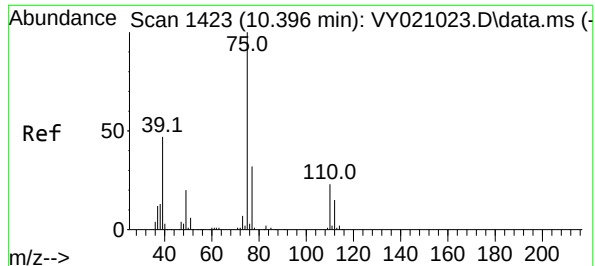
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#52
Toluene
Concen: 20.517 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion: 92 Resp: 95614
Ion Ratio Lower Upper
92 100
91 172.9 135.8 203.8





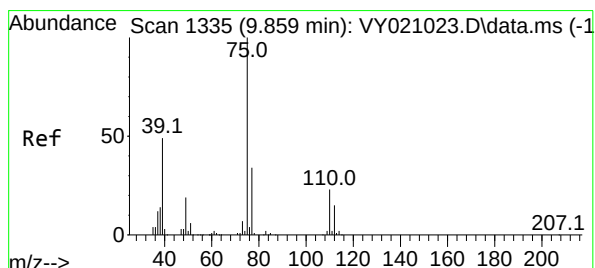
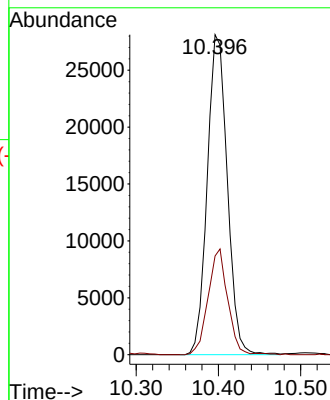
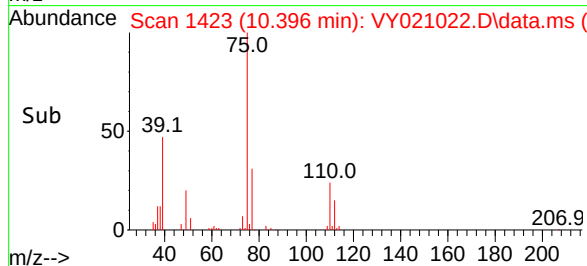
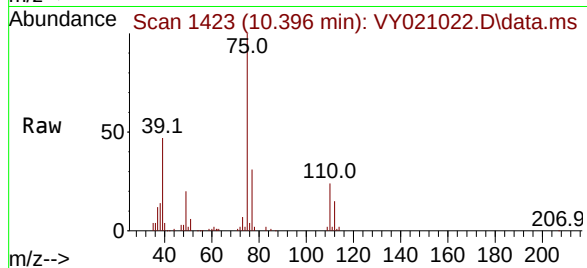
#53
t-1,3-Dichloropropene
Concen: 21.429 ug/l
RT: 10.396 min Scan# 1423
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 47690
Ion Ratio Lower Upper
75 100
77 30.9 25.9 38.9

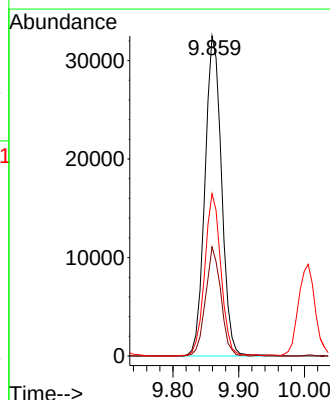
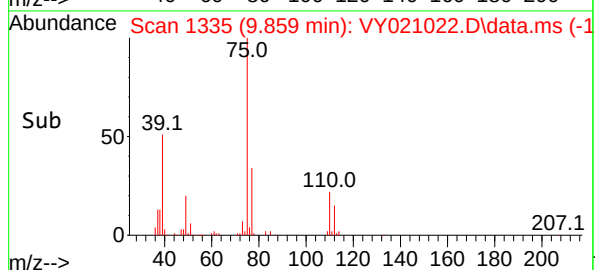
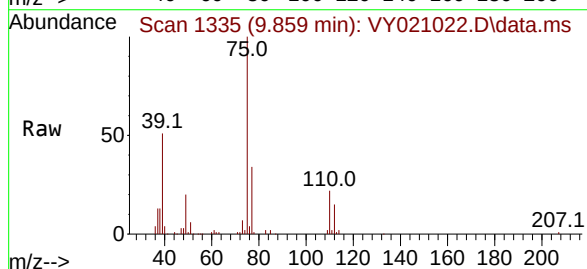
Manual Integrations
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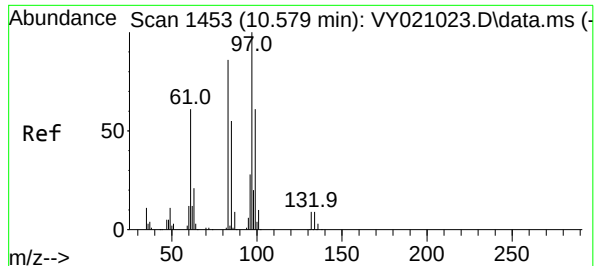
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#54
cis-1,3-Dichloropropene
Concen: 21.469 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion: 75 Resp: 57105
Ion Ratio Lower Upper
75 100
77 34.1 25.4 38.0
39 50.6 32.2 48.2#





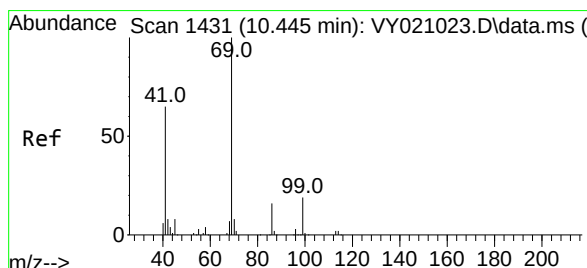
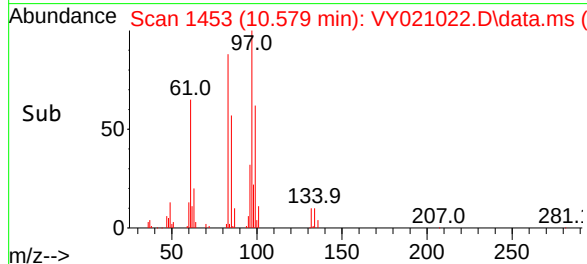
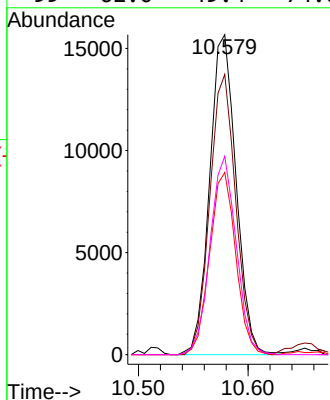
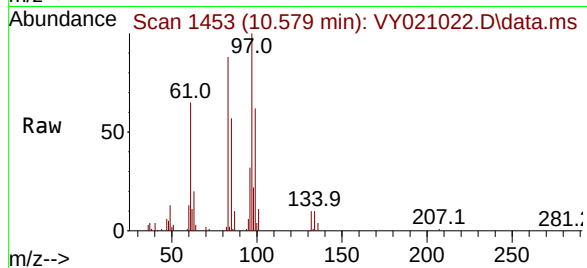
#55
1,1,2-Trichloroethane
Concen: 21.129 ug/l
RT: 10.579 min Scan# 1453
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:	97	Resp:	26314
Ion	Ratio	Lower	Upper
97	100		
83	87.6	67.7	101.5
85	56.9	43.4	65.2
99	62.0	49.4	74.0

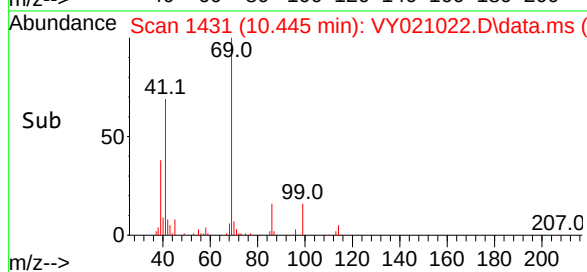
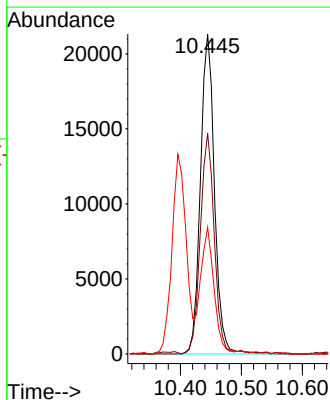
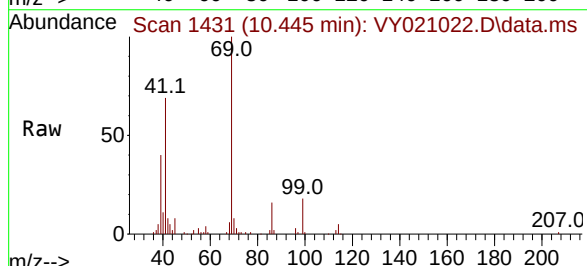
Manual Integrations
APPROVED

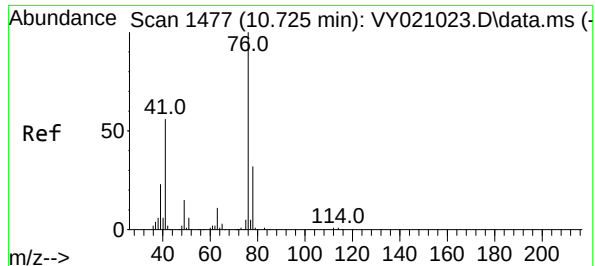
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#56
Ethyl methacrylate
Concen: 20.963 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion:	69	Resp:	34126
Ion	Ratio	Lower	Upper
69	100		
41	68.3	46.3	69.5
39	38.8	24.5	36.7#





#57

1,3-Dichloropropane

Concen: 21.690 ug/l

RT: 10.725 min Scan# 1477

Delta R.T. 0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 45784

Ion Ratio Lower Upper

76 100

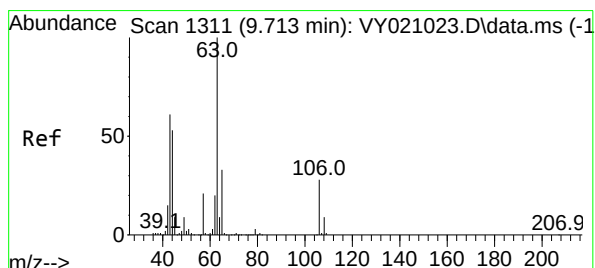
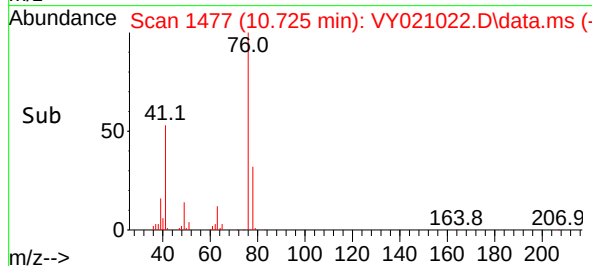
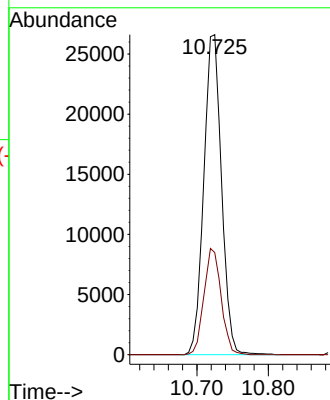
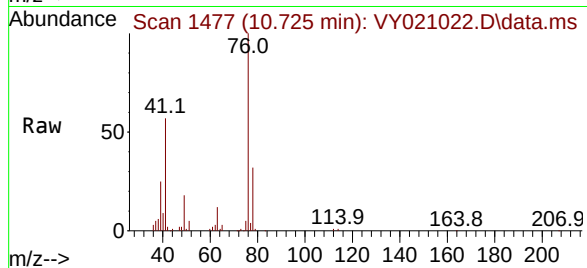
78 32.2 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#58

2-Chloroethyl Vinyl ether

Concen: 120.208 ug/l

RT: 9.719 min Scan# 1312

Delta R.T. 0.006 min

Lab File: VY021022.D

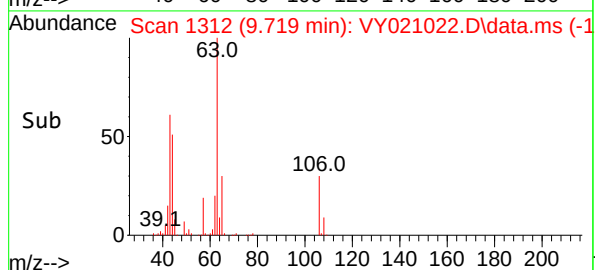
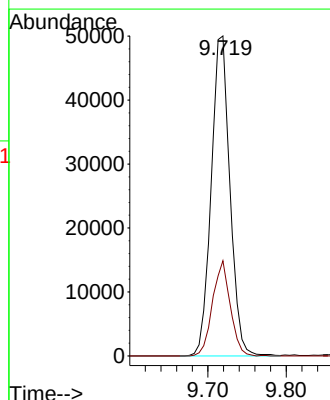
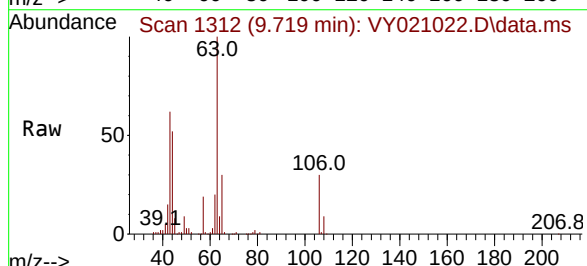
Acq: 03 Feb 2025 11:20

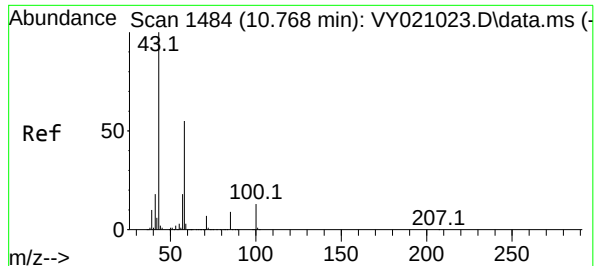
Tgt Ion: 63 Resp: 83057

Ion Ratio Lower Upper

63 100

106 28.1 24.7 37.1





#59

2-Hexanone

Concen: 119.535 ug/l

RT: 10.768 min Scan# 1484

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 7255

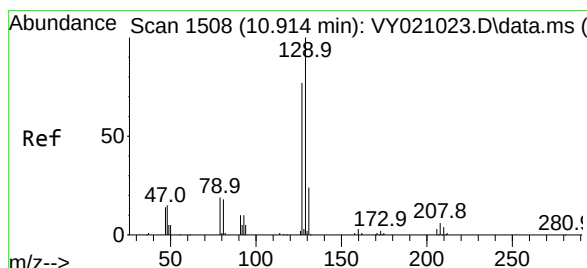
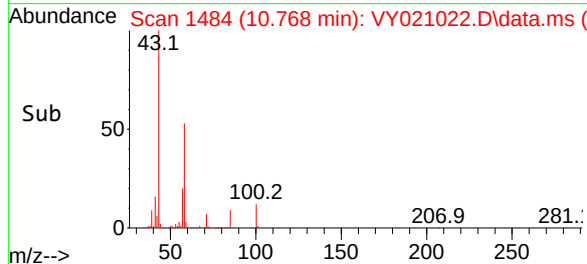
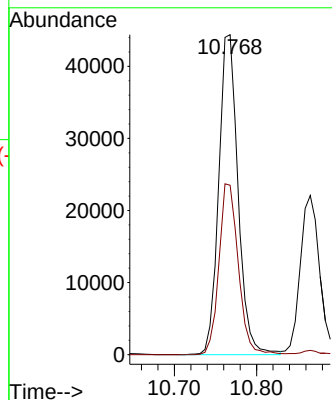
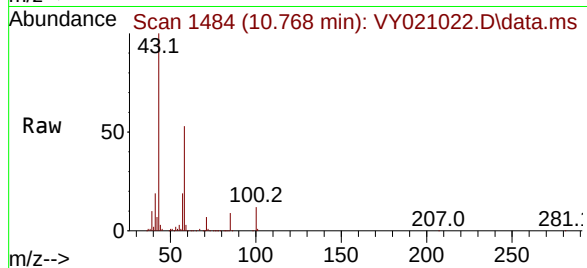
Ion Ratio Lower Upper

43 100

58 53.6 29.8 89.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#60

Dibromochloromethane

Concen: 20.754 ug/l

RT: 10.914 min Scan# 1508

Delta R.T. 0.000 min

Lab File: VY021022.D

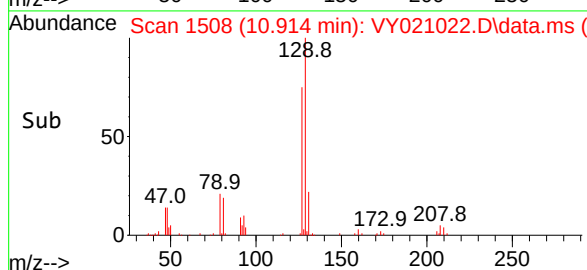
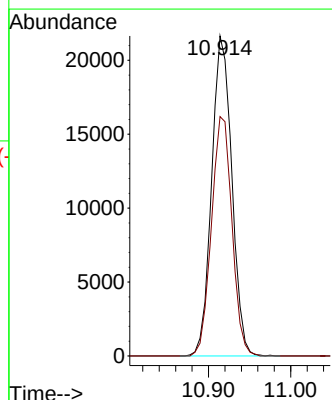
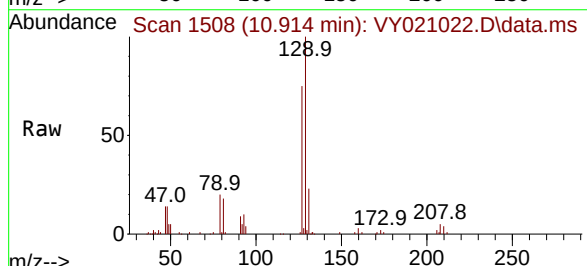
Acq: 03 Feb 2025 11:20

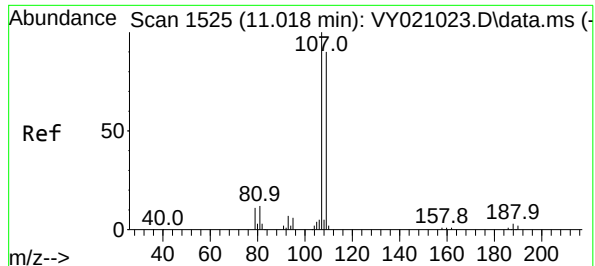
Tgt Ion:129 Resp: 36853

Ion Ratio Lower Upper

129 100

127 76.0 38.5 115.3





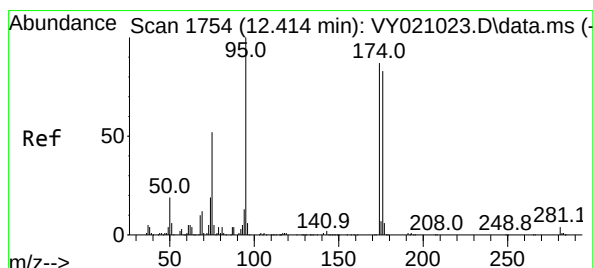
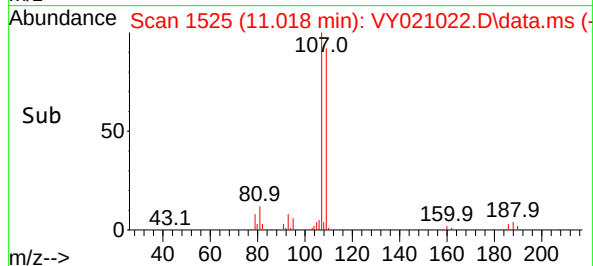
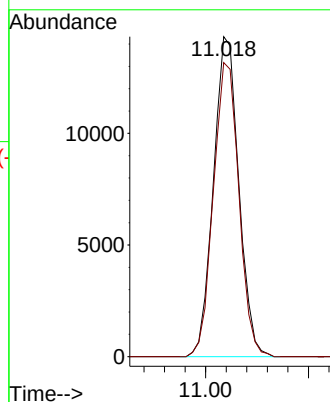
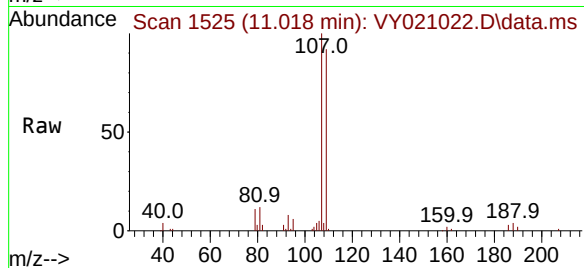
#61
1,2-Dibromoethane
Concen: 20.600 ug/l
RT: 11.018 min Scan# 1525
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 2450
Ion Ratio Lower Upper
107 100
109 92.5 76.6 114.8

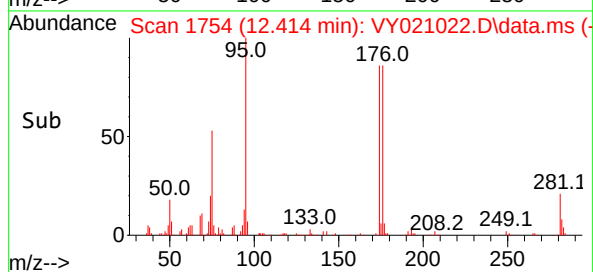
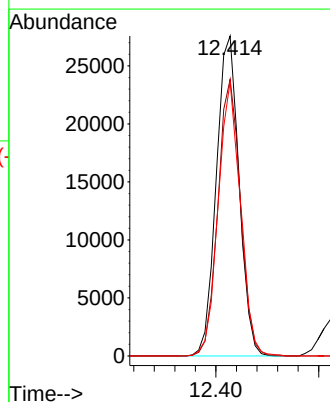
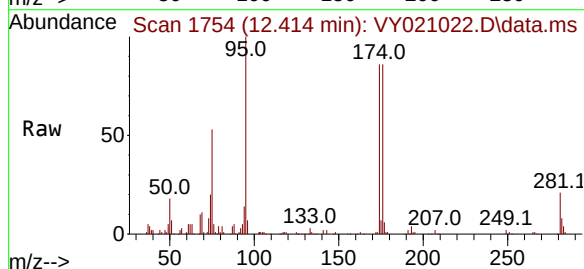
Manual Integrations
APPROVED

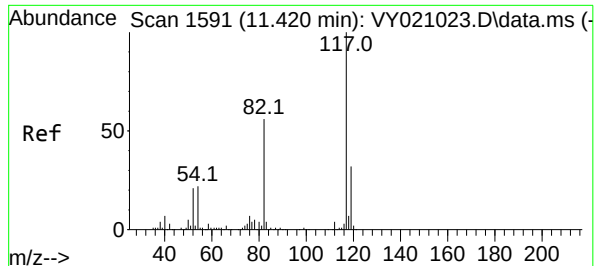
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#62
4-Bromofluorobenzene
Concen: 18.831 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

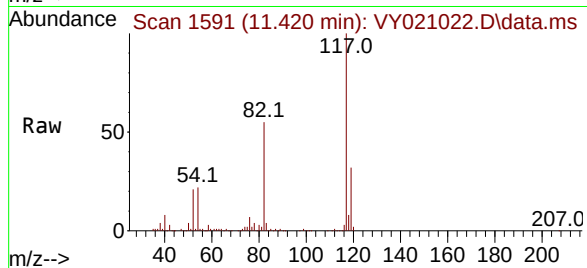
Tgt Ion: 95 Resp: 42182
Ion Ratio Lower Upper
95 100
174 85.9 0.0 181.2
176 84.1 0.0 175.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

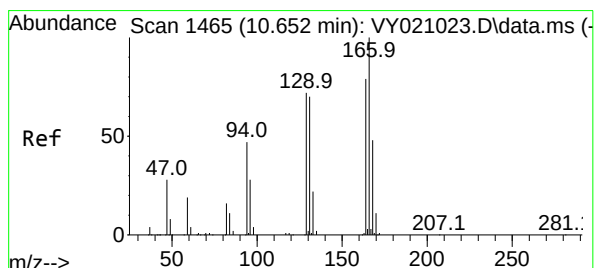
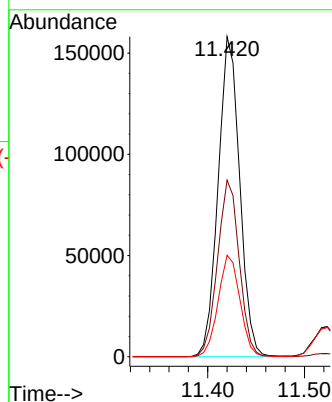
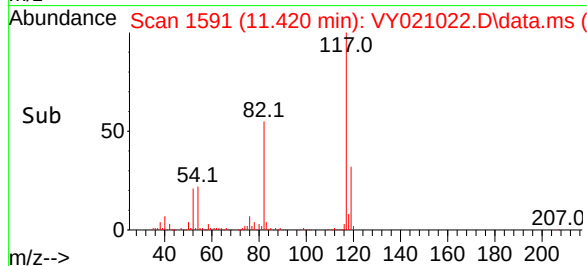
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020



Tgt Ion:117 Resp: 244590
Ion Ratio Lower Upper
117 100
82 55.1 44.2 66.2
119 31.7 25.9 38.9

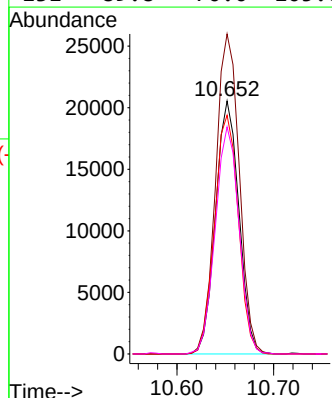
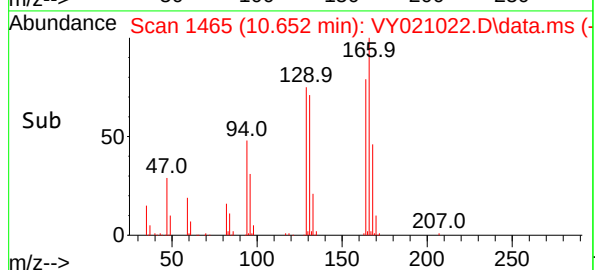
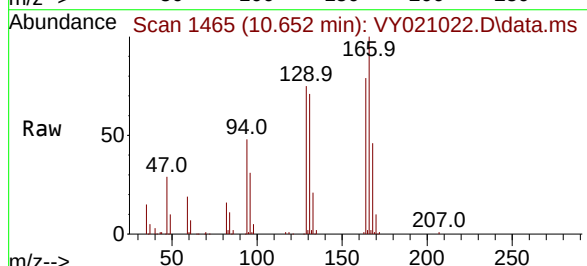
Manual Integrations
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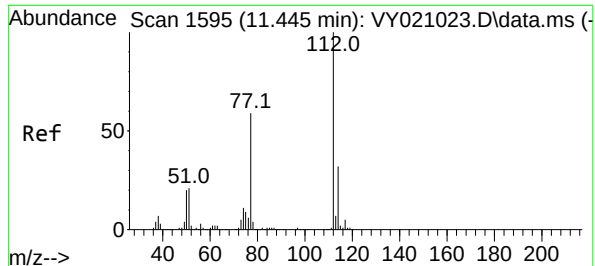
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#64
Tetrachloroethene
Concen: 18.655 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion:164 Resp: 34418
Ion Ratio Lower Upper
164 100
166 126.5 100.4 150.6
129 94.4 70.8 106.2
131 89.8 70.0 105.0





#65

Chlorobenzene

Concen: 20.015 ug/l

RT: 11.444 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion:112 Resp: 10314

Ion Ratio Lower Upper

112 100

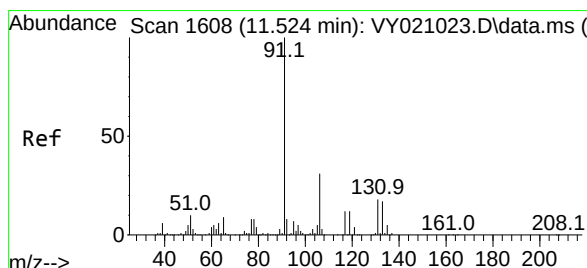
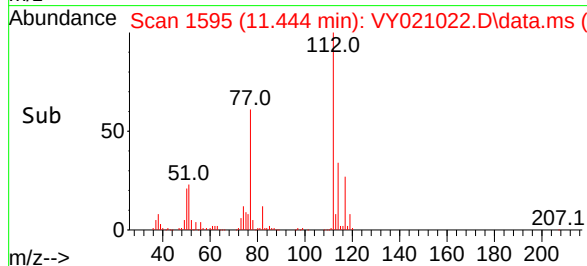
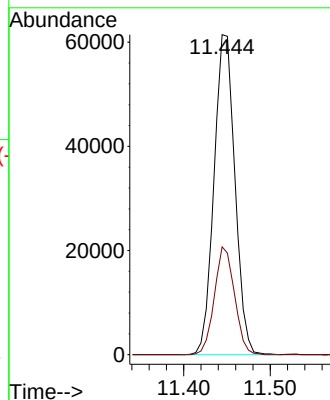
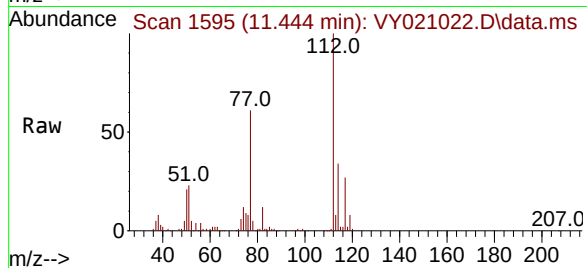
114 33.7 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 20.130 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

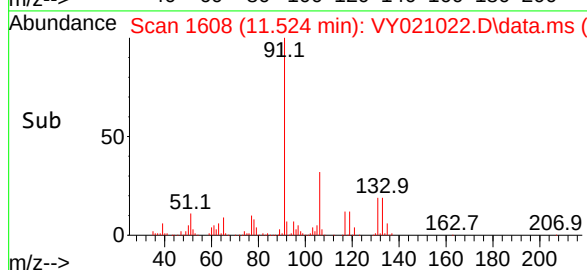
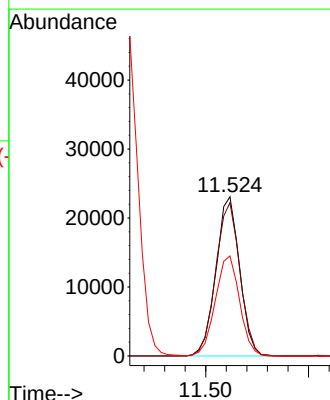
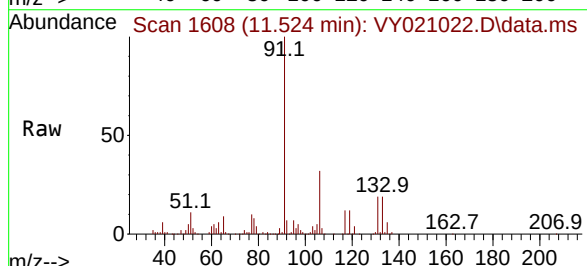
Tgt Ion:131 Resp: 36817

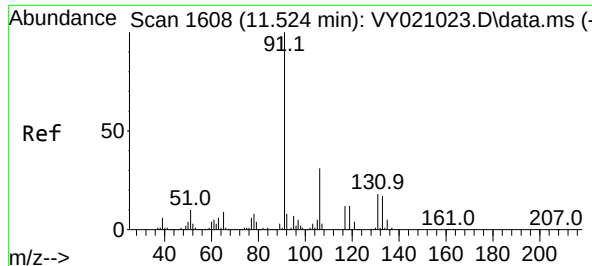
Ion Ratio Lower Upper

131 100

133 98.5 48.7 146.1

119 64.4 31.4 94.3





#67

Ethyl Benzene

Concen: 20.446 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 182430

Ion Ratio Lower Upper

91 100

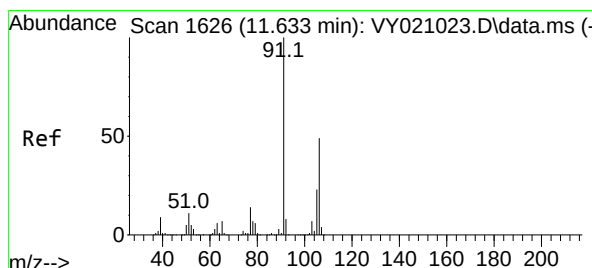
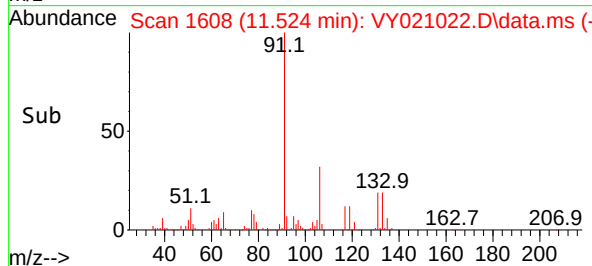
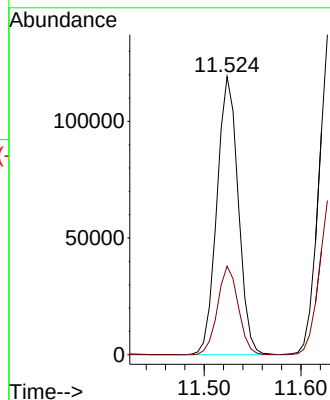
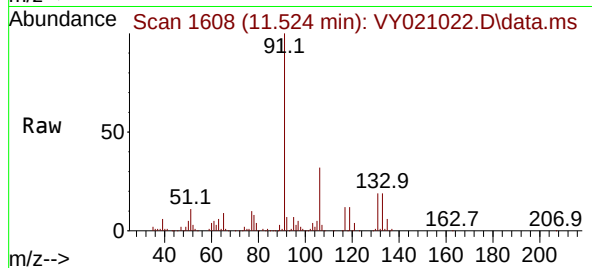
106 31.8 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#68

m/p-Xylenes

Concen: 40.497 ug/l

RT: 11.633 min Scan# 1626

Delta R.T. 0.000 min

Lab File: VY021022.D

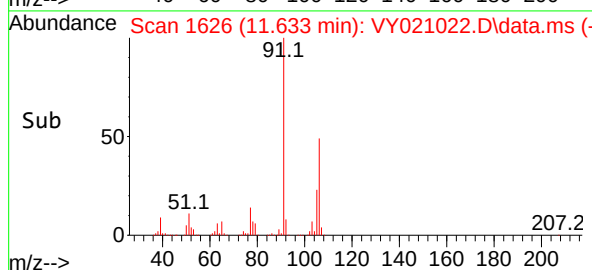
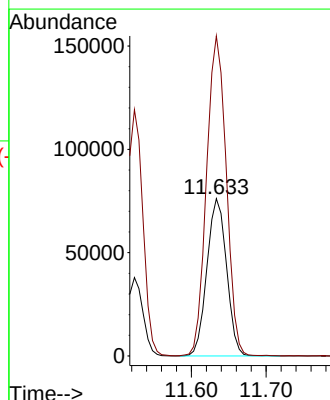
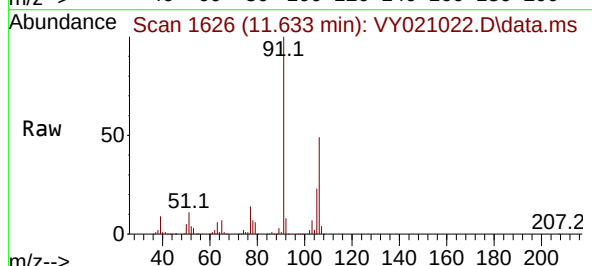
Acq: 03 Feb 2025 11:20

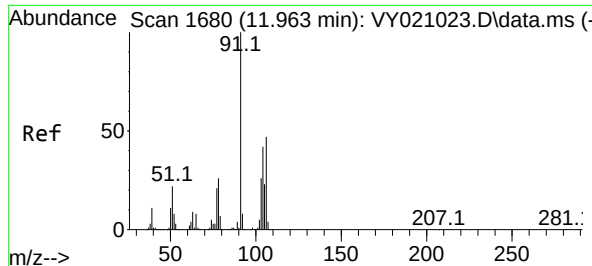
Tgt Ion:106 Resp: 138826

Ion Ratio Lower Upper

106 100

91 204.4 160.0 240.0





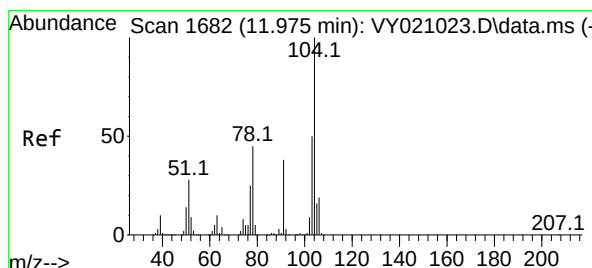
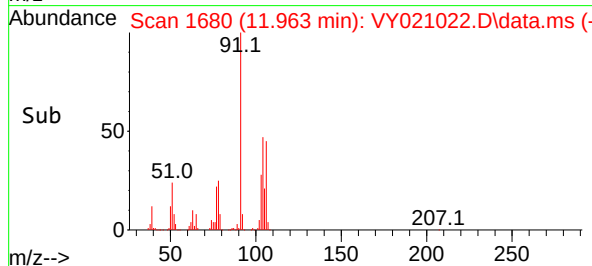
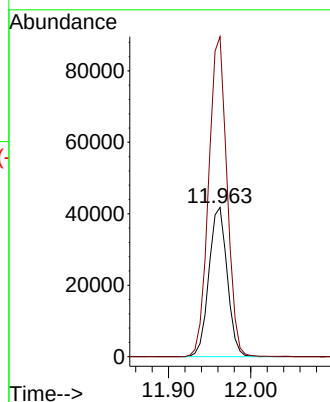
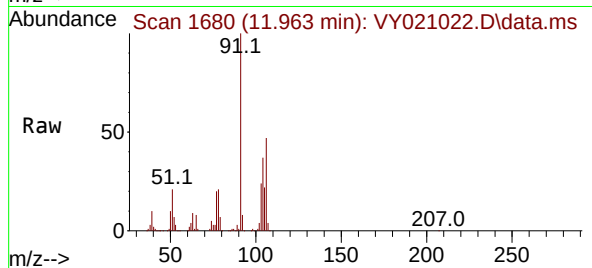
#69
o-Xylene
Concen: 20.276 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.006 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 64610
Ion Ratio Lower Upper
106 100
91 214.7 105.8 317.6

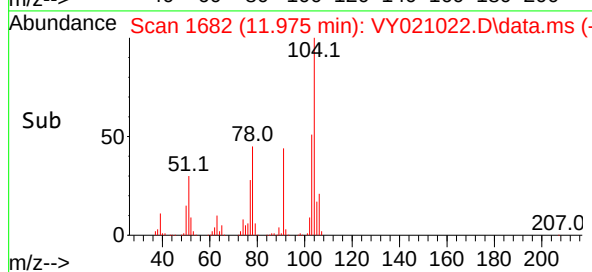
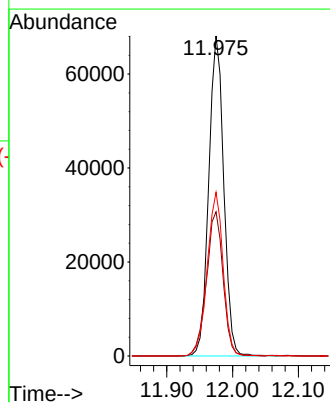
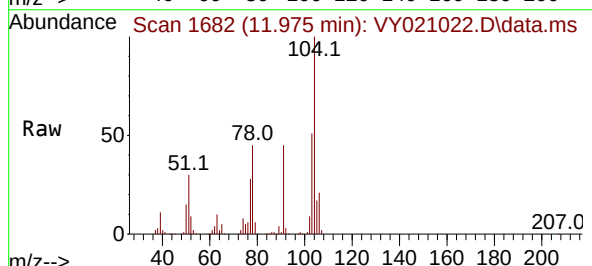
Manual Integrations
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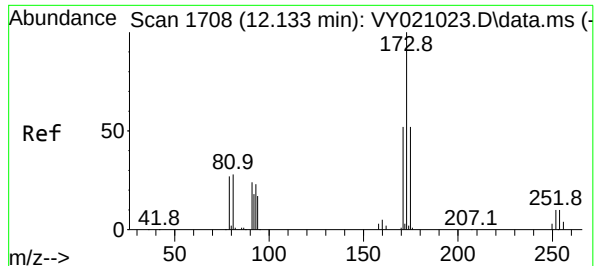
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#70
Styrene
Concen: 20.439 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion:104 Resp: 108143
Ion Ratio Lower Upper
104 100
78 49.9 39.0 58.4
103 54.2 43.7 65.5





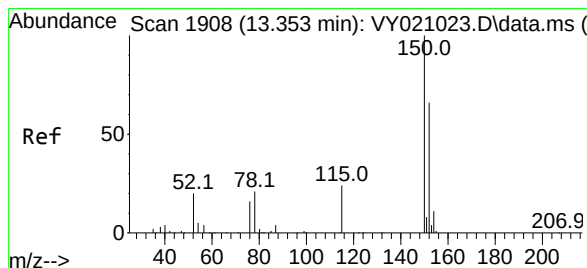
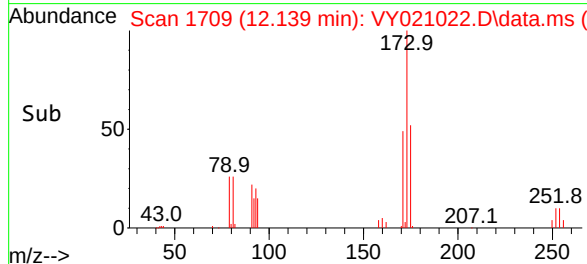
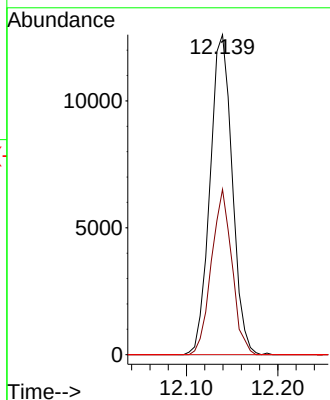
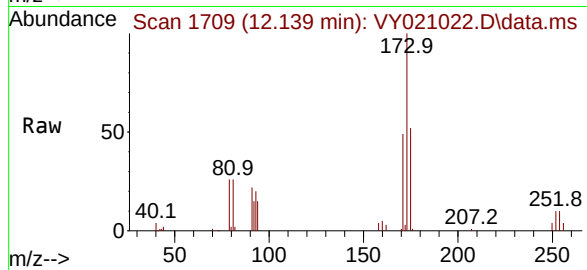
#71
Bromoform
Concen: 19.718 ug/l
RT: 12.139 min Scan# 1708
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 21254
Ion Ratio Lower Upper
173 100
175 47.8 24.1 72.2
254 0.0 0.0 0.0

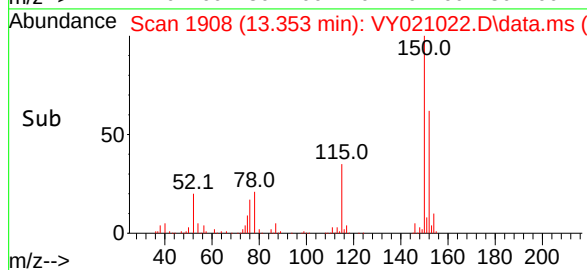
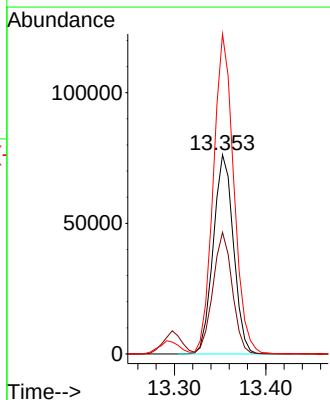
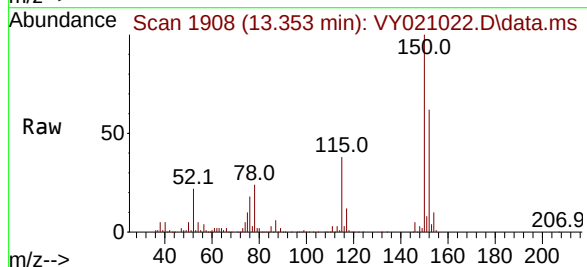
Manual Integrations
APPROVED

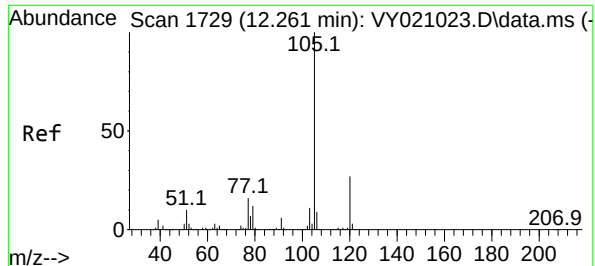
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion:152 Resp: 116948
Ion Ratio Lower Upper
152 100
115 58.7 28.4 85.2
150 162.9 0.0 342.8





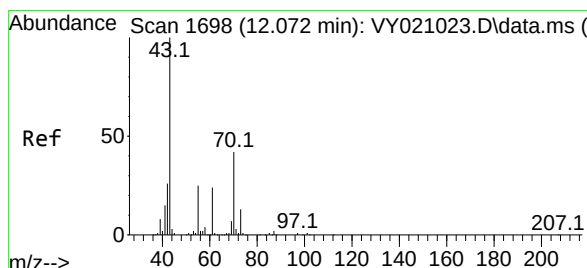
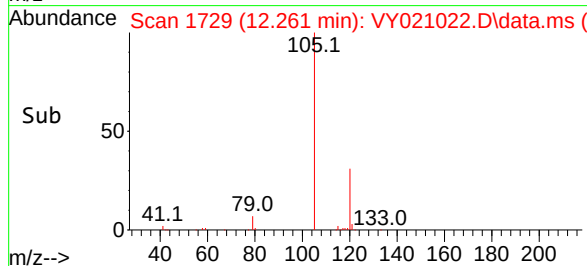
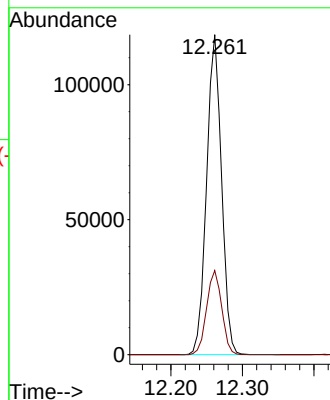
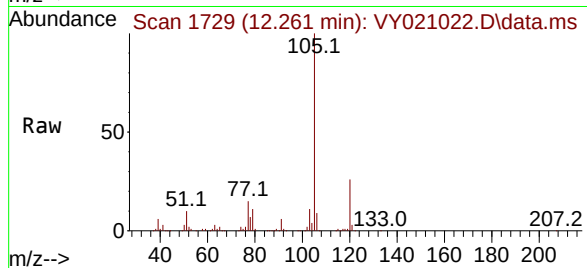
#73
Isopropylbenzene
Concen: 20.921 ug/l
RT: 12.261 min Scan# 1729
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 105 Resp: 171836
Ion Ratio Lower Upper
105 100
120 26.6 13.4 40.2

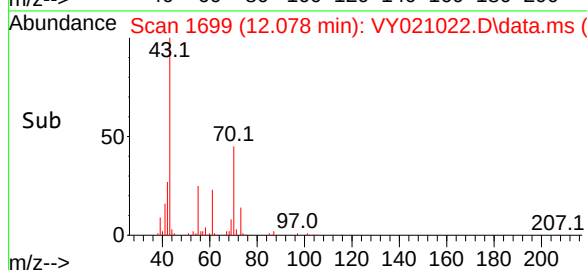
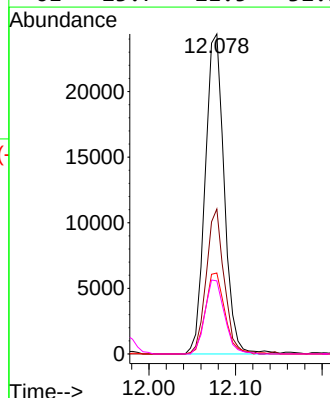
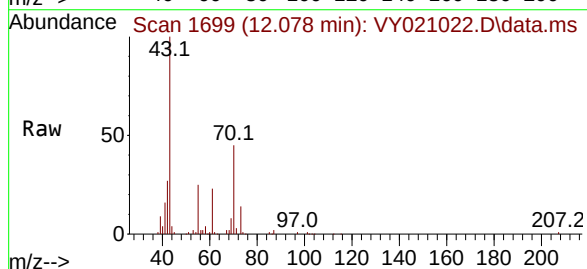
Manual Integrations
APPROVED

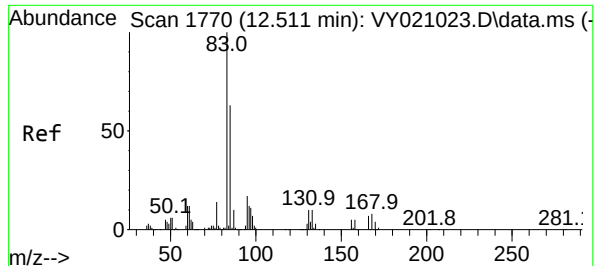
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#74
N-ethyl acetate
Concen: 24.896 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion: 43 Resp: 37235
Ion Ratio Lower Upper
43 100
70 42.5 39.3 58.9
55 26.1 22.3 33.5
61 23.7 21.5 32.3





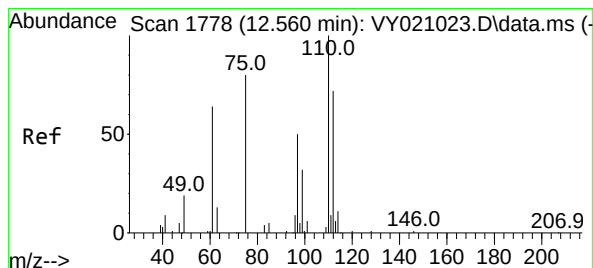
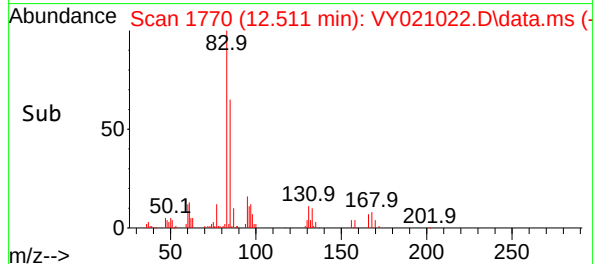
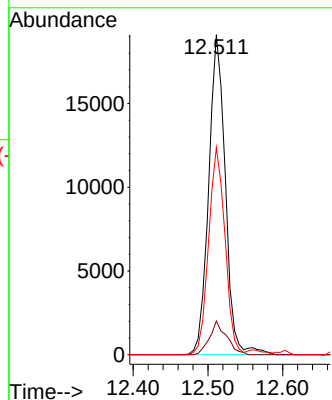
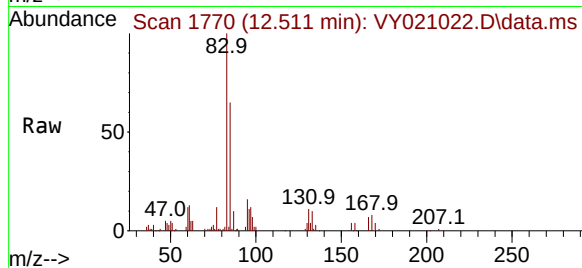
#75
1,1,2,2-Tetrachloroethane
Concen: 22.410 ug/l
RT: 12.511 min Scan# 1770
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC020

Tgt Ion: 83 Resp: 2971
Ion Ratio Lower Upper
83 100
131 10.6 5.7 17.1
85 63.4 31.9 95.9

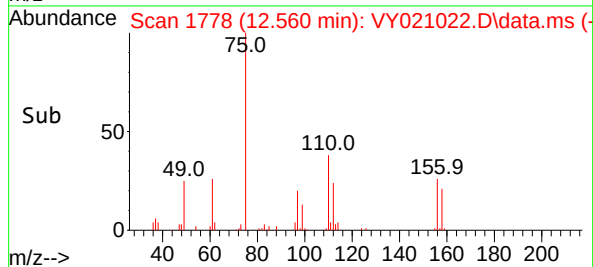
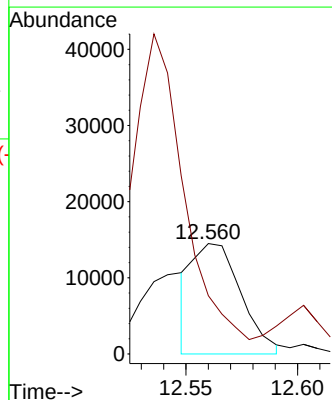
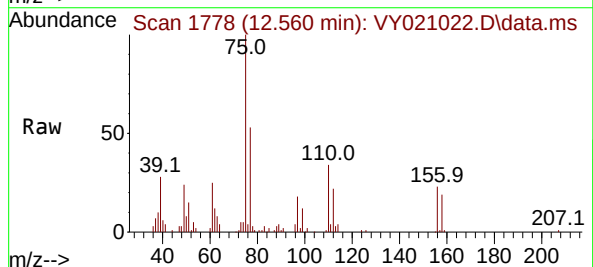
Manual Integrations
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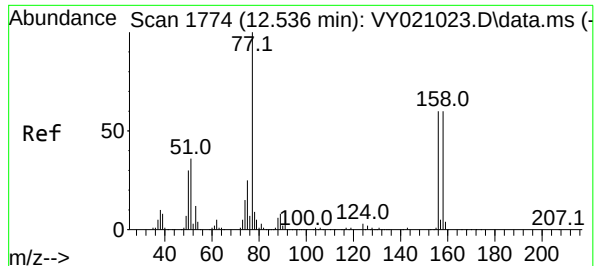
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#76
1,2,3-Trichloropropane
Concen: 23.712 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

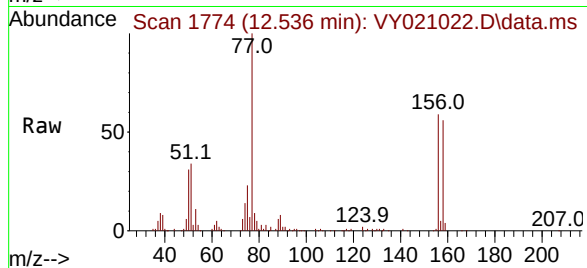
Tgt Ion: 75 Resp: 21952
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#77
Bromobenzene
Concen: 20.793 ug/l
RT: 12.536 min Scan# 1774
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

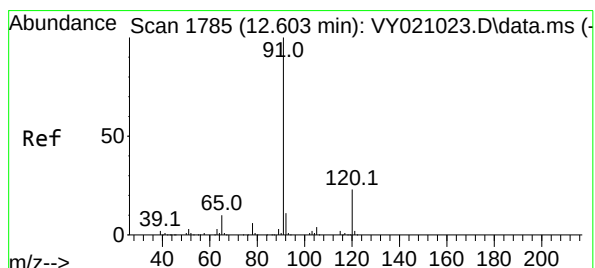
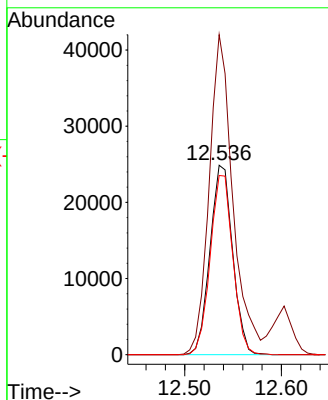
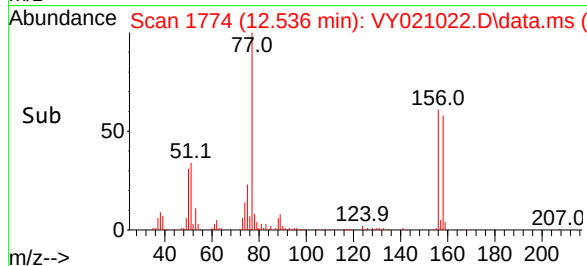
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020



Tgt Ion: 156 Resp: 4049
Ion Ratio Lower Upper
156 100
77 176.3 83.3 249.9
158 94.6 48.3 144.9

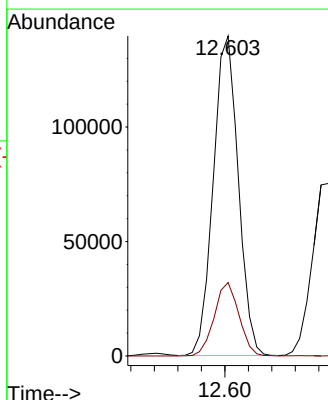
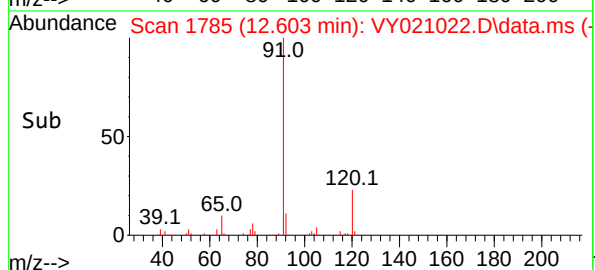
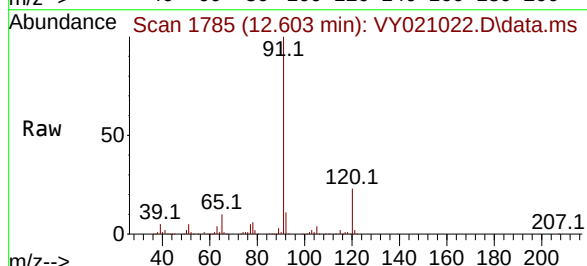
Manual Integrations
APPROVED

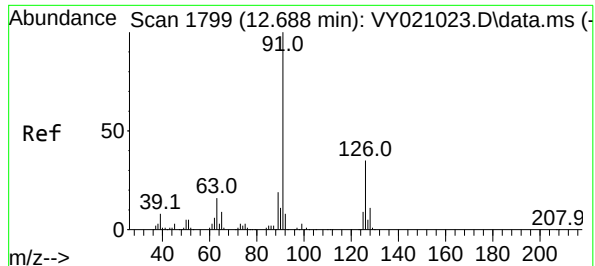
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#78
n-propylbenzene
Concen: 21.429 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion: 91 Resp: 206279
Ion Ratio Lower Upper
91 100
120 22.7 11.8 35.4





#79

2-Chlorotoluene

Concen: 21.638 ug/l

RT: 12.688 min Scan# 11867

Delta R.T. 0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 11867

Ion Ratio Lower Upper

91 100

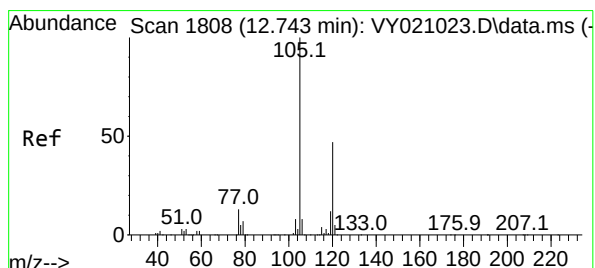
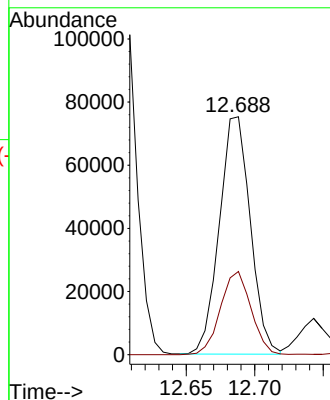
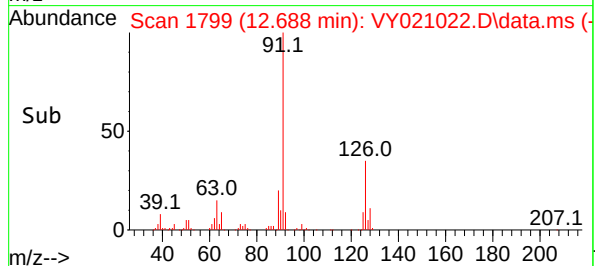
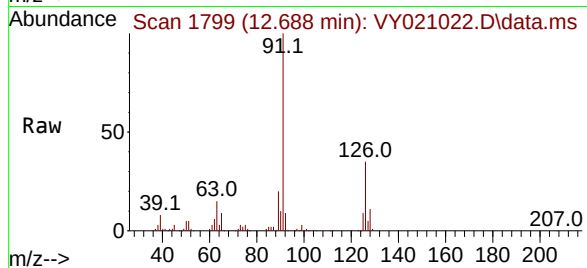
126 34.6 17.3 51.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#80

1,3,5-Trimethylbenzene

Concen: 21.150 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. 0.000 min

Lab File: VY021022.D

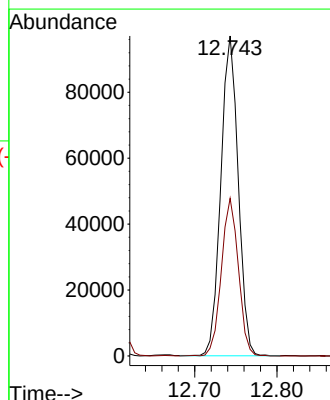
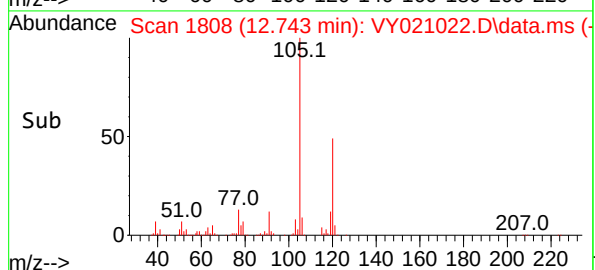
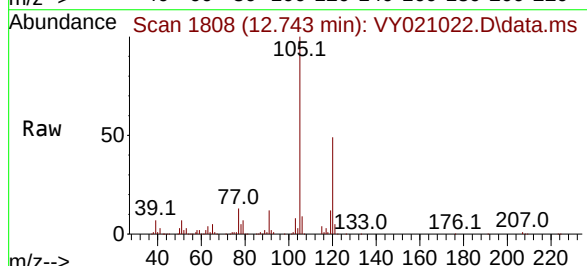
Acq: 03 Feb 2025 11:20

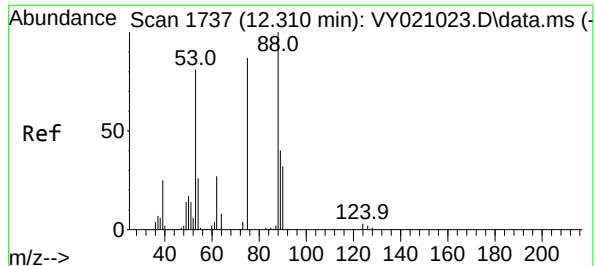
Tgt Ion:105 Resp: 142319

Ion Ratio Lower Upper

105 100

120 48.4 24.3 72.9





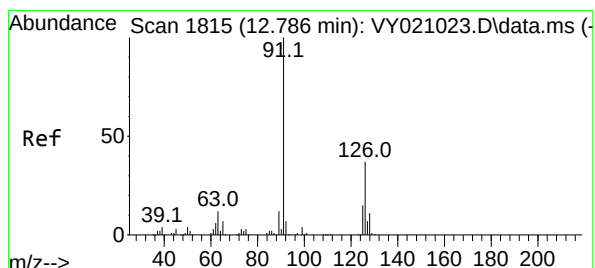
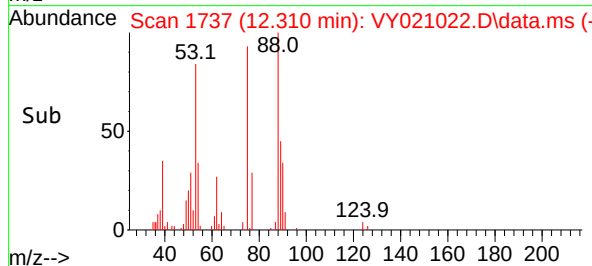
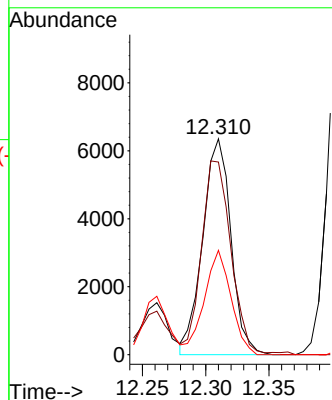
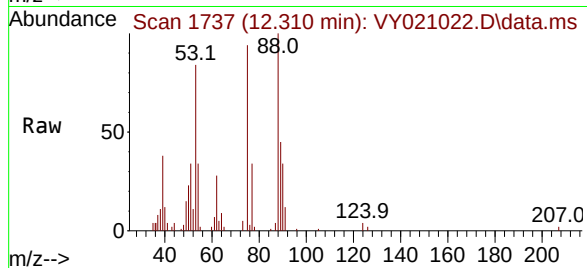
#81
trans-1,4-Dichloro-2-butene
Concen: 22.135 ug/l
RT: 12.310 min Scan# 1737
Delta R.T. 0.006 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 9872
Ion Ratio Lower Upper
75 100
53 94.1 68.6 103.0
89 46.0 38.1 57.1

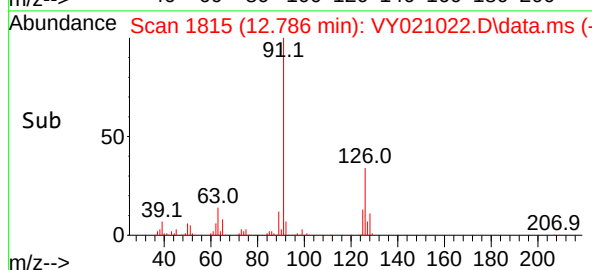
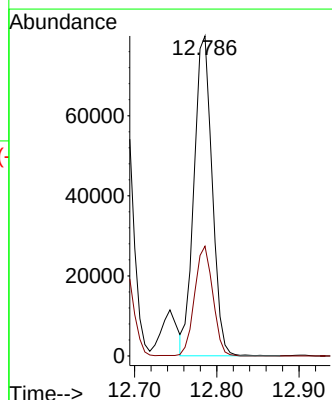
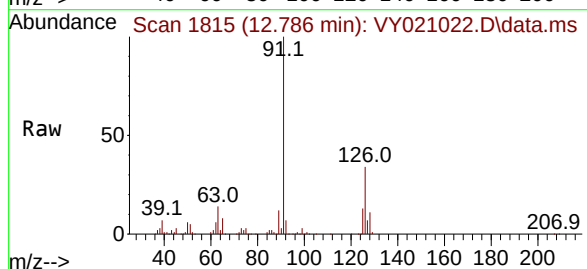
Manual Integrations
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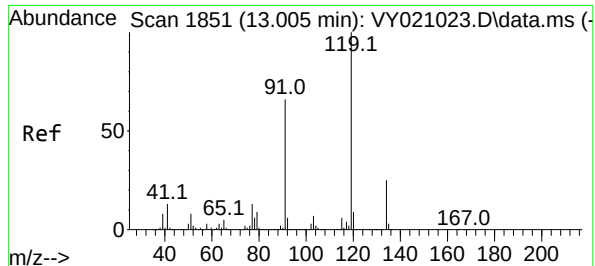
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#82
4-Chlorotoluene
Concen: 21.712 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.006 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion: 91 Resp: 121872
Ion Ratio Lower Upper
91 100
126 34.7 17.3 52.0





#83

tert-Butylbenzene

Concen: 20.651 ug/l

RT: 13.005 min Scan# 1851

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion:119 Resp: 12888

Ion Ratio Lower Upper

119 100

91 64.4 31.4 94.0

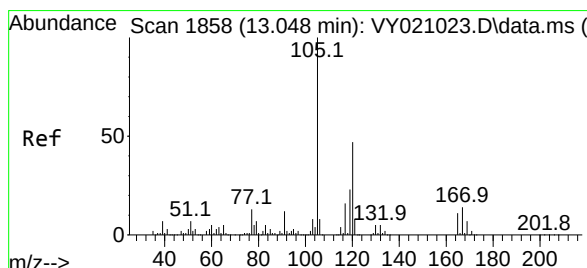
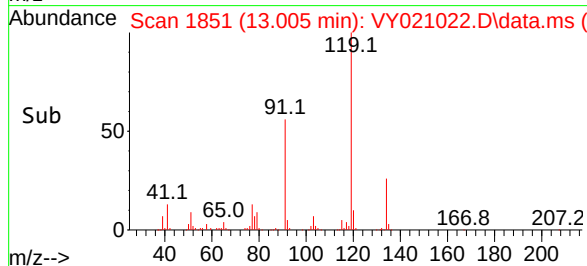
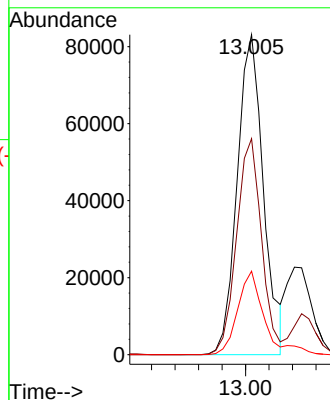
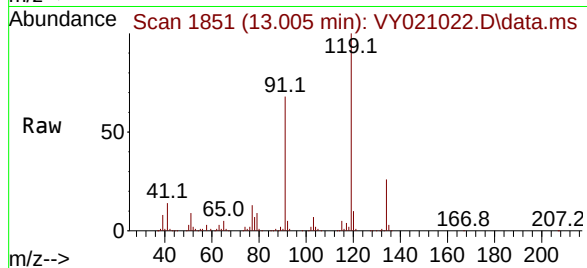
134 26.5 13.1 39.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#84

1,2,4-Trimethylbenzene

Concen: 21.214 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.000 min

Lab File: VY021022.D

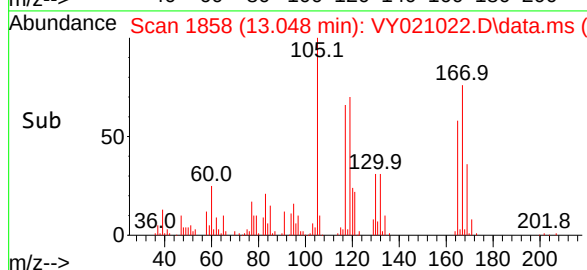
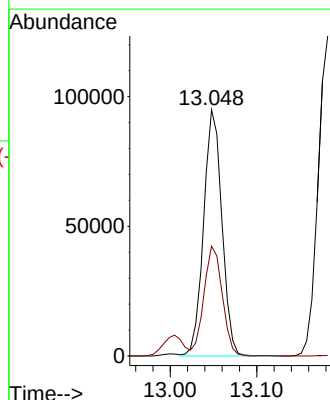
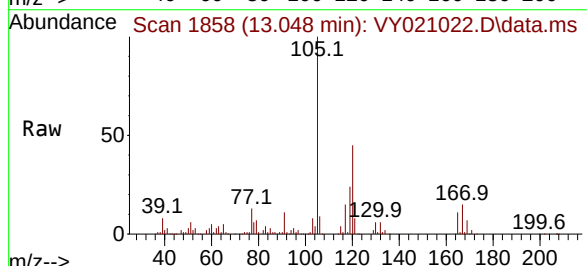
Acq: 03 Feb 2025 11:20

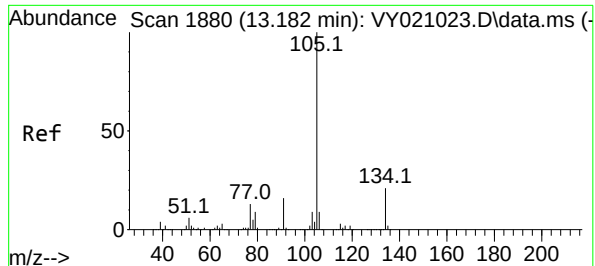
Tgt Ion:105 Resp: 139446

Ion Ratio Lower Upper

105 100

120 44.7 22.7 68.0





#85

sec-Butylbenzene

Concen: 20.943 ug/l

RT: 13.182 min Scan# 1880

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion:105 Resp: 185044

Ion Ratio Lower Upper

105 100

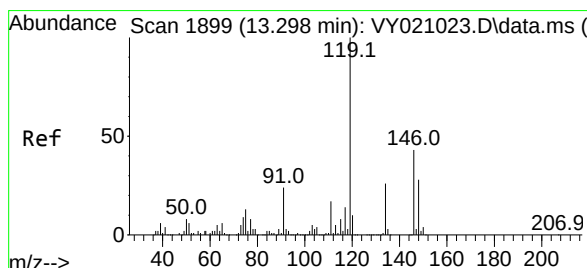
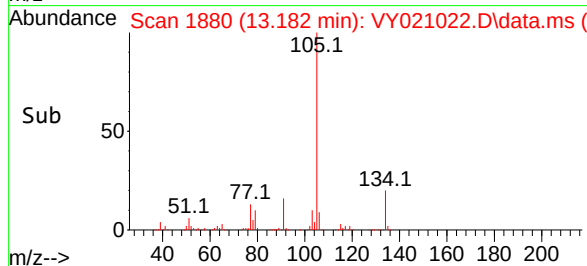
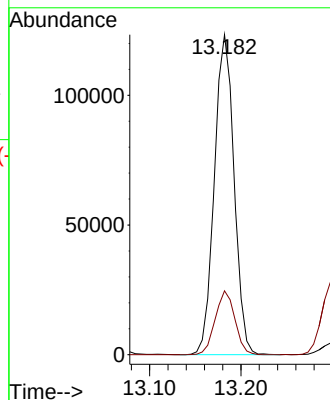
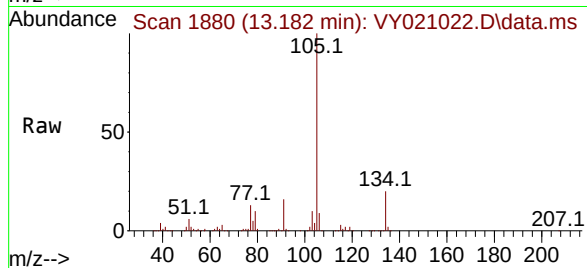
134 19.9 10.3 30.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#86

p-Isopropyltoluene

Concen: 20.815 ug/l

RT: 13.298 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

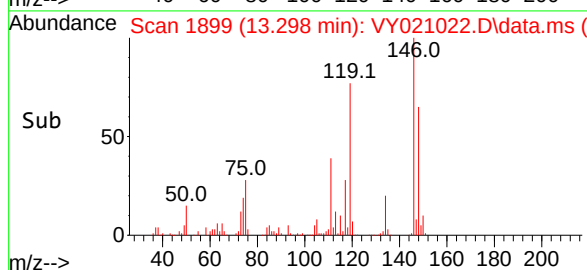
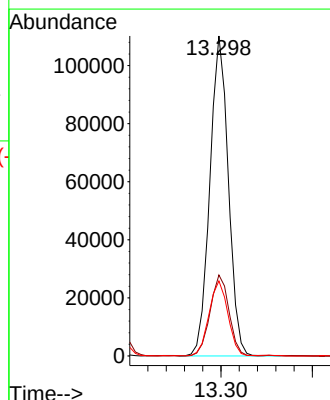
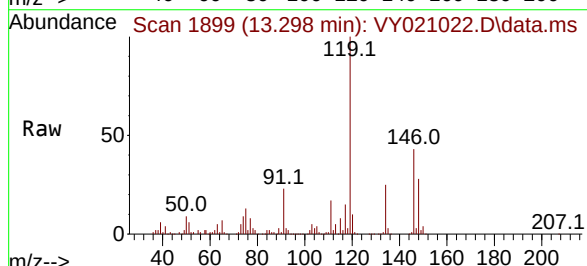
Tgt Ion:119 Resp: 154555

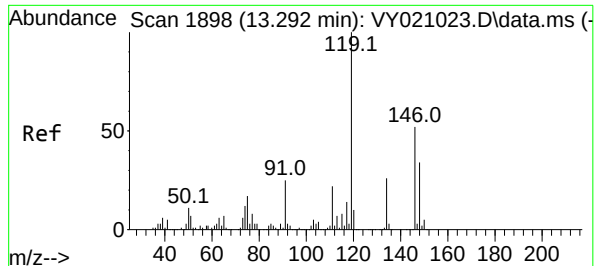
Ion Ratio Lower Upper

119 100

134 25.9 13.1 39.3

91 23.8 11.5 34.5





#87

1,3-Dichlorobenzene

Concen: 20.446 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 7763

Ion Ratio Lower Upper

146 100

111 40.4 19.7 59.1

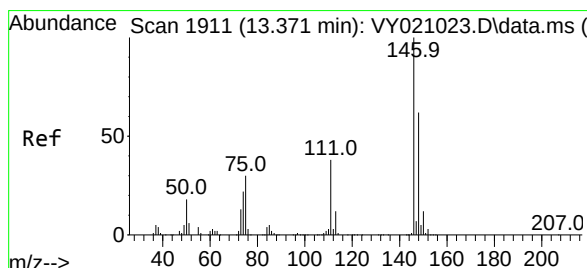
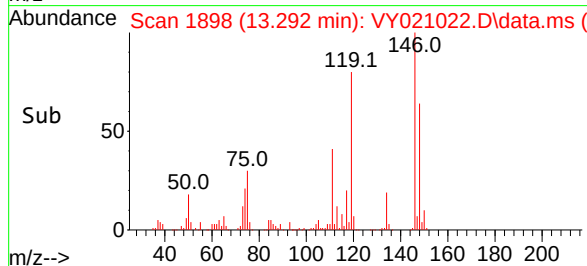
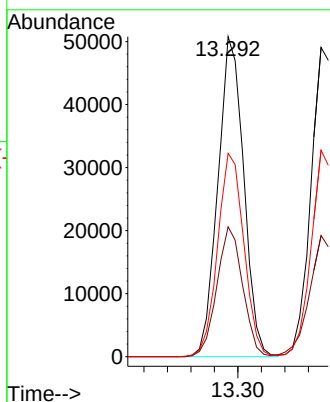
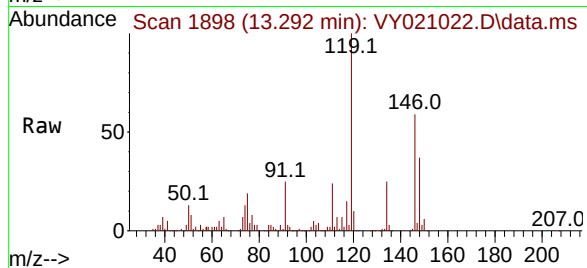
148 64.7 32.1 96.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 20.248 ug/l

RT: 13.371 min Scan# 1911

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

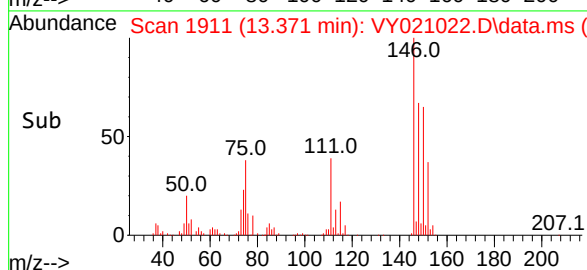
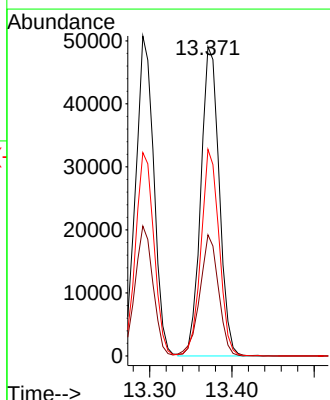
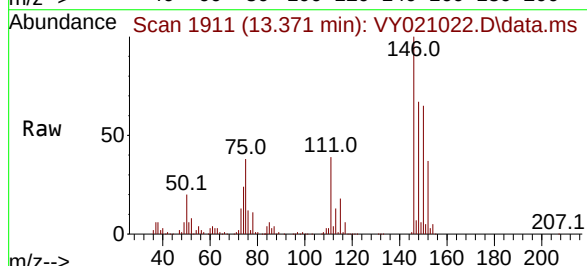
Tgt Ion:146 Resp: 76342

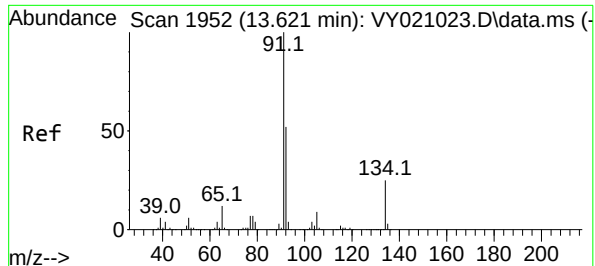
Ion Ratio Lower Upper

146 100

111 39.9 19.0 57.0

148 65.6 31.6 95.0





#89

n-Butylbenzene

Concen: 20.829 ug/l

RT: 13.627 min Scan# 1953

Delta R.T. 0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

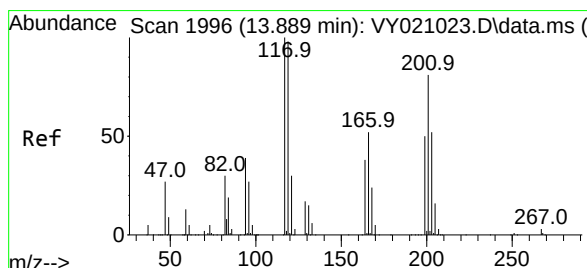
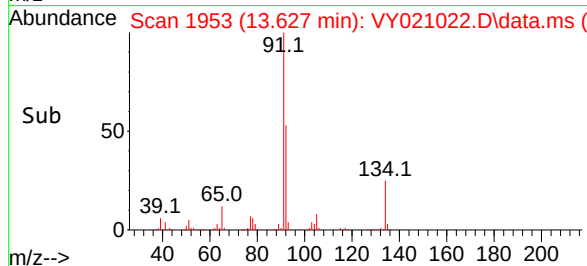
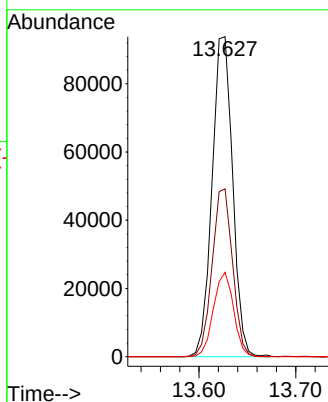
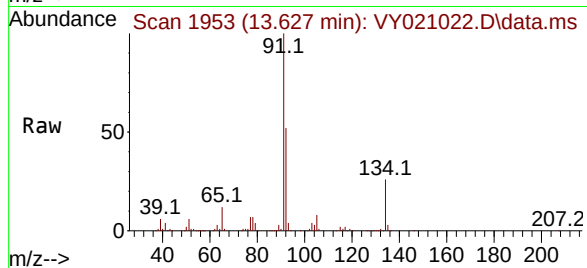
ClientSampleId :

VSTDIC020

Tgt Ion:	91	Resp:	13853
Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.7	80.1
134	25.8	13.7	41.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#90

Hexachloroethane

Concen: 21.166 ug/l

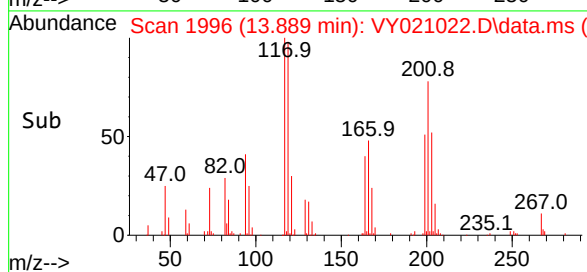
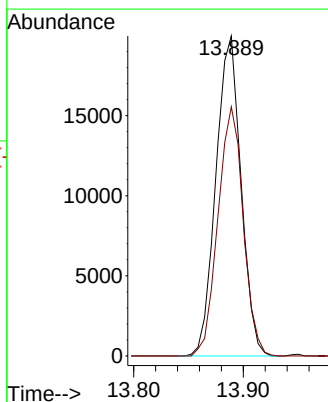
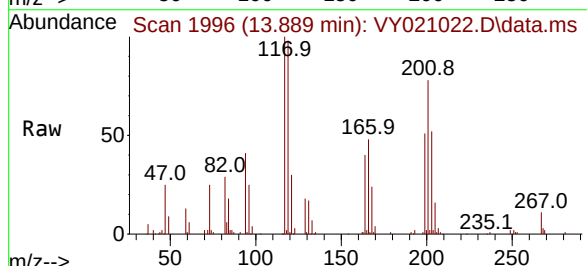
RT: 13.889 min Scan# 1996

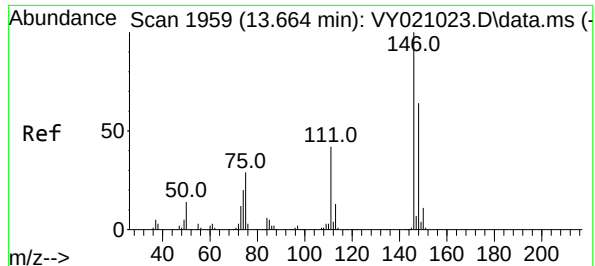
Delta R.T. 0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Tgt Ion:	117	Resp:	31796
Ion	Ratio	Lower	Upper
117	100		
201	78.2	42.5	127.5





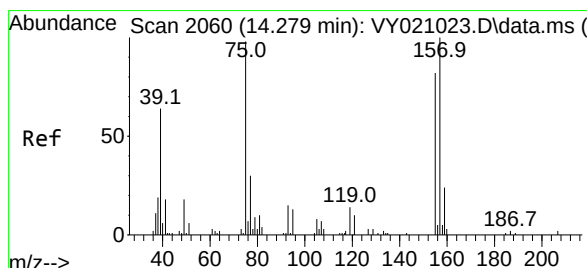
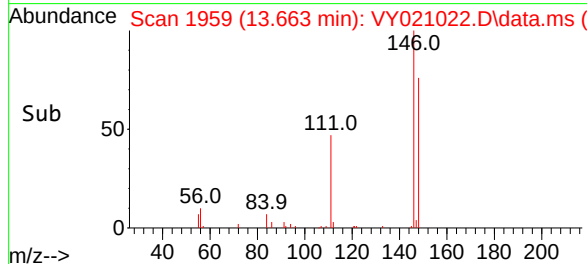
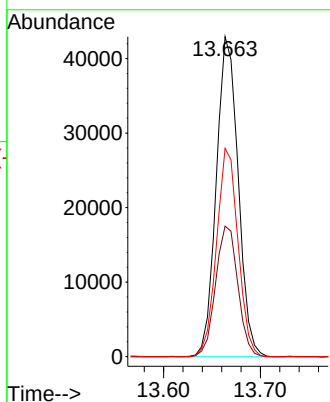
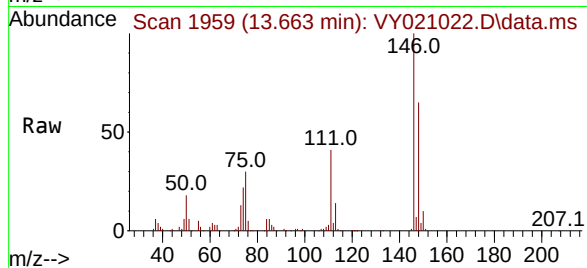
#91
1,2-Dichlorobenzene
Concen: 20.344 ug/l
RT: 13.663 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 6736
Ion Ratio Lower Upper
146 100
111 41.5 20.3 60.8
148 64.0 32.2 96.6

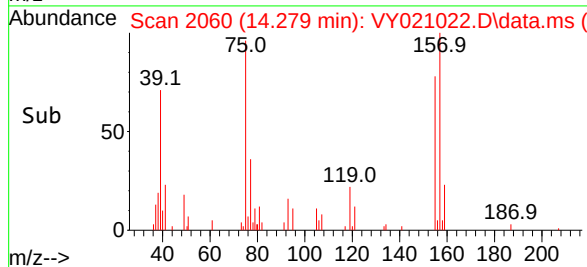
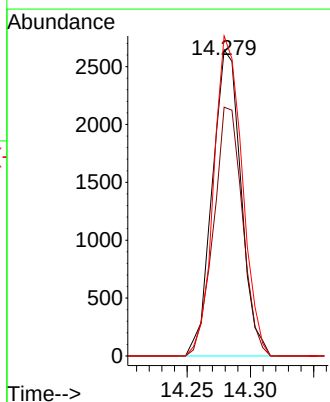
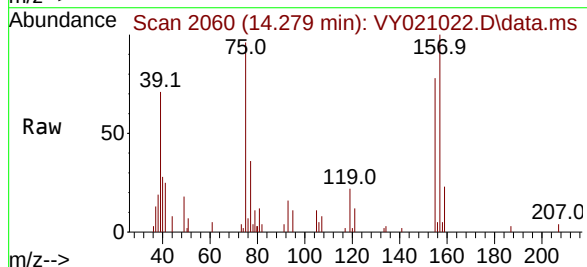
Manual Integrations
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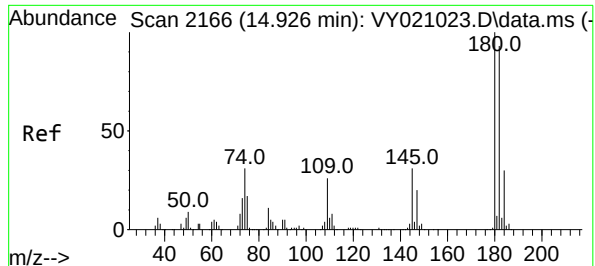
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.380 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

Tgt Ion: 75 Resp: 4160
Ion Ratio Lower Upper
75 100
155 81.6 45.9 137.6
157 103.8 59.3 177.9





#93

1,2,4-Trichlorobenzene

Concen: 17.150 ug/l

RT: 14.932 min Scan# 2166

Delta R.T. 0.006 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC020

Tgt Ion:180 Resp: 34770

Ion Ratio Lower Upper

180 100

182 94.4 48.3 144.8

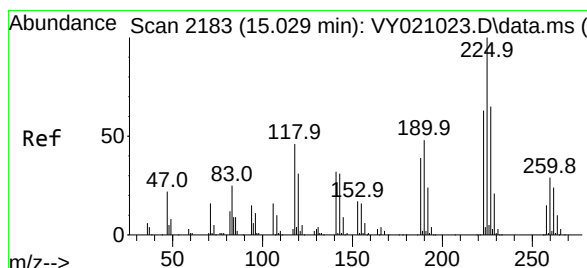
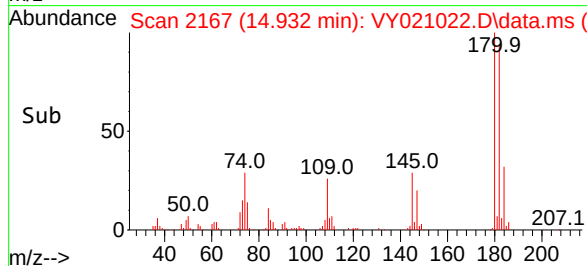
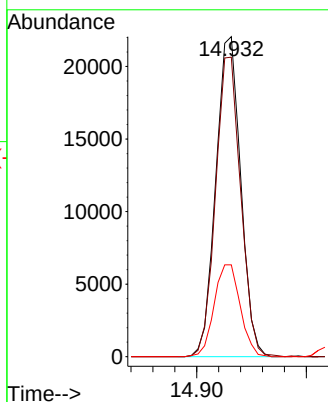
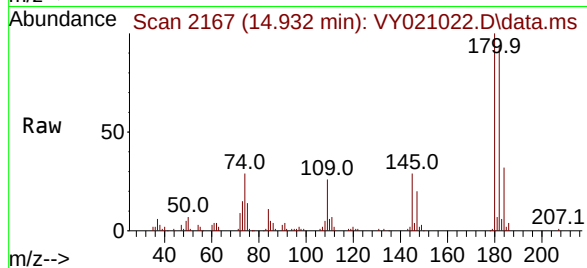
145 30.1 15.3 45.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#94

Hexachlorobutadiene

Concen: 17.435 ug/l

RT: 15.029 min Scan# 2183

Delta R.T. 0.000 min

Lab File: VY021022.D

Acq: 03 Feb 2025 11:20

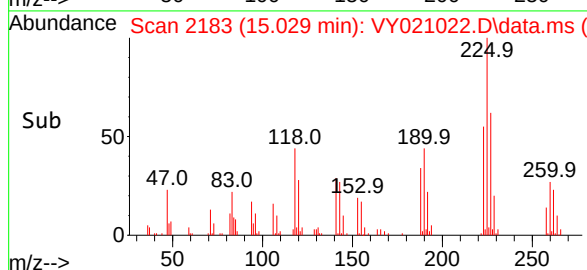
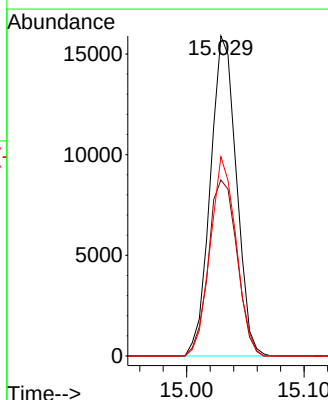
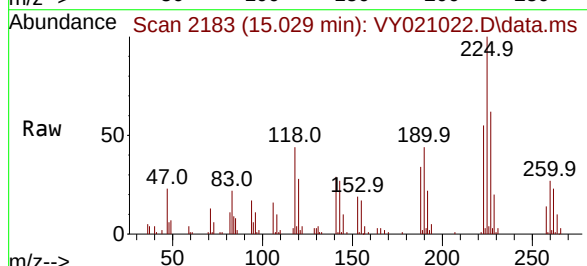
Tgt Ion:225 Resp: 24481

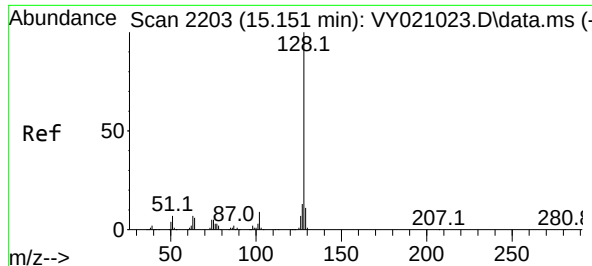
Ion Ratio Lower Upper

225 100

223 60.2 31.4 94.2

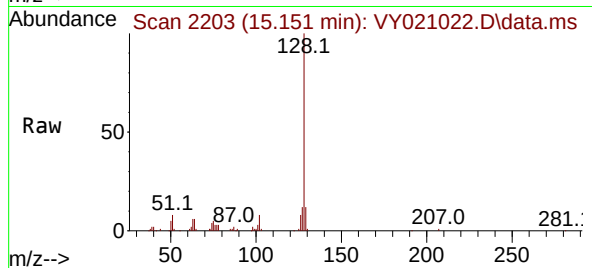
227 62.1 31.8 95.3





#95
Naphthalene
Concen: 16.886 ug/l
RT: 15.151 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20

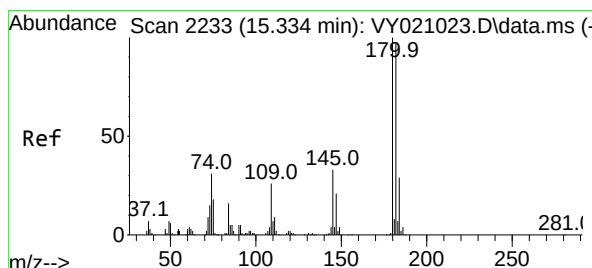
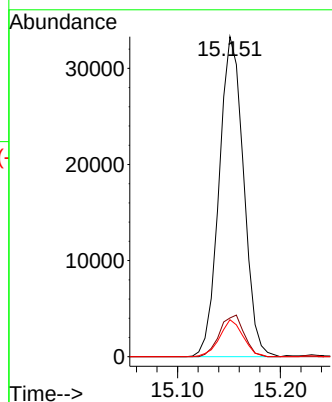
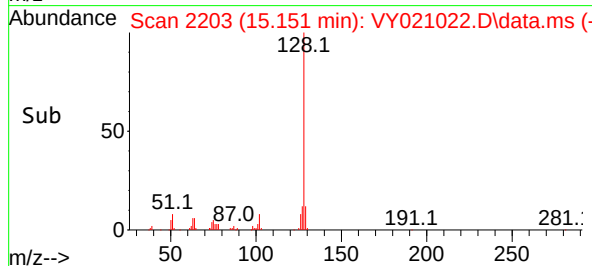
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020



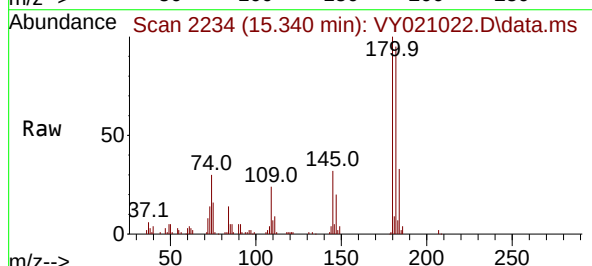
Tgt Ion:128 Resp: 5502
Ion Ratio Lower Upper
128 100
127 13.1 10.2 15.4
129 11.1 8.8 13.2

Manual Integrations
APPROVED

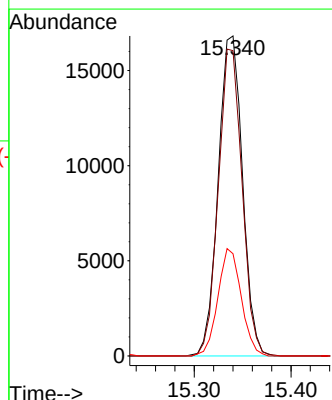
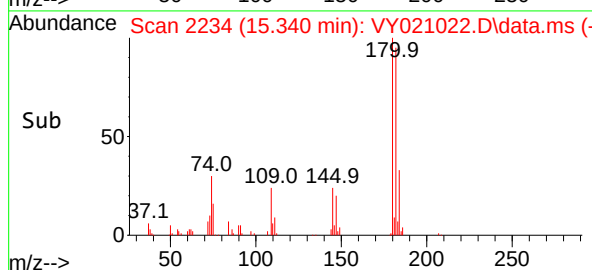
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.090 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.006 min
Lab File: VY021022.D
Acq: 03 Feb 2025 11:20



Tgt Ion:180 Resp: 29301
Ion Ratio Lower Upper
180 100
182 93.8 47.7 143.1
145 32.3 15.6 46.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021023.D
 Acq On : 03 Feb 2025 11:43
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Quant Time: Feb 03 12:39:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 12:36:41 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	185055	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	285755	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	250150	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	121069	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	93084	59.079	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 118.160%	
35) Dibromofluoromethane	7.640	113	89515	52.107	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.220%	
50) Toluene-d8	10.109	98	343592	51.243	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.480%	
62) 4-Bromofluorobenzene	12.414	95	115197	51.200	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 102.400%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	82341	52.329	ug/l	100
3) Chloromethane	2.074	50	77828	77.798	ug/l	98
4) Vinyl Chloride	2.208	62	78456	76.063	ug/l	100
5) Bromomethane	2.605	94	47661	68.257	ug/l	99
6) Chloroethane	2.739	64	47159	78.268	ug/l	99
7) Trichlorofluoromethane	3.068	101	146090	58.690	ug/l	98
8) Diethyl Ether	3.464	74	44796	60.281	ug/l	86
9) 1,1,2-Trichlorotrifluo...	3.824	101	91456	54.564	ug/l	95
10) Methyl Iodide	4.013	142	108576	56.607	ug/l	99
11) Tert butyl alcohol	4.872	59	29518	256.470	ug/l	100
12) 1,1-Dichloroethene	3.800	96	86860	55.452	ug/l	92
13) Acrolein	3.659	56	48444	365.513	ug/l	98
14) Allyl chloride	4.391	41	148096	68.676	ug/l	93
15) Acrylonitrile	5.061	53	98437	322.040	ug/l	99
16) Acetone	3.879	43	71701	333.889	ug/l	93
17) Carbon Disulfide	4.117	76	272934	56.574	ug/l	99
18) Methyl Acetate	4.397	43	53193	70.789	ug/l	92
19) Methyl tert-butyl Ether	5.116	73	225045	61.726	ug/l	99
20) Methylene Chloride	4.623	84	89716	56.645	ug/l	93
21) trans-1,2-Dichloroethene	5.122	96	96653	57.552	ug/l	92
22) Diisopropyl ether	6.025	45	308181	70.111	ug/l	96
23) Vinyl Acetate	5.970	43	876749	360.173	ug/l	96
24) 1,1-Dichloroethane	5.921	63	175291	61.815	ug/l	100
25) 2-Butanone	6.903	43	124949	342.981	ug/l	94
26) 2,2-Dichloropropane	6.890	77	160962	57.651	ug/l	99
27) cis-1,2-Dichloroethene	6.897	96	110873	57.437	ug/l	94
28) Bromochloromethane	7.250	49	76460	72.370	ug/l	84
29) Tetrahydrofuran	7.262	42	84863	346.176	ug/l	91
30) Chloroform	7.427	83	181725	59.167	ug/l	96
31) Cyclohexane	7.707	56	153013	55.203	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	168751	56.771	ug/l	97
36) 1,1-Dichloropropene	7.841	75	132425	54.034	ug/l	98
37) Ethyl Acetate	6.988	43	60168	65.852	ug/l	95
38) Carbon Tetrachloride	7.823	117	156282	51.530	ug/l	99
39) Methylcyclohexane	9.116	83	168118	51.064	ug/l	95
40) Benzene	8.085	78	393690	54.594	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021023.D
 Acq On : 03 Feb 2025 11:43
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:39:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 12:36:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	31701	62.707	ug/l	93
42) 1,2-Dichloroethane	8.165	62	108251	59.191	ug/l	99
43) Isopropyl Acetate	8.201	43	120630	66.087	ug/l	96
44) Trichloroethene	8.872	130	99733	50.121	ug/l	99
45) 1,2-Dichloropropane	9.146	63	93348	57.754	ug/l	99
46) Dibromomethane	9.238	93	51734	55.001	ug/l	95
47) Bromodichloromethane	9.427	83	137852	55.807	ug/l	97
48) Methyl methacrylate	9.225	41	54848	63.113	ug/l	91
49) 1,4-Dioxane	9.231	88	10030	1003.514	ug/l #	91
51) 4-Methyl-2-Pentanone	10.000	43	308616	329.038	ug/l	95
52) Toluene	10.176	92	250280	53.469	ug/l	97
53) t-1,3-Dichloropropene	10.396	75	128314	57.403	ug/l	100
54) cis-1,3-Dichloropropene	9.859	75	149965	56.133	ug/l #	91
55) 1,1,2-Trichloroethane	10.579	97	67249	53.761	ug/l	99
56) Ethyl methacrylate	10.445	69	96579	59.067	ug/l #	88
57) 1,3-Dichloropropane	10.725	76	117634	55.483	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	224134	322.966	ug/l	95
59) 2-Hexanone	10.768	43	205217	336.612	ug/l	92
60) Dibromochloromethane	10.914	129	93957	52.680	ug/l	100
61) 1,2-Dibromoethane	11.018	107	64333	53.845	ug/l	98
64) Tetrachloroethene	10.652	164	90228	47.817	ug/l	98
65) Chlorobenzene	11.445	112	270176	51.263	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.524	131	95653	51.137	ug/l	97
67) Ethyl Benzene	11.524	91	486059	53.265	ug/l	100
68) m/p-Xylenes	11.633	106	366509	104.538	ug/l	98
69) o-Xylene	11.963	106	170229	52.229	ug/l	96
70) Styrene	11.975	104	289102	53.426	ug/l	98
71) Bromoform	12.133	173	54130	49.101	ug/l #	98
73) Isopropylbenzene	12.261	105	461198	54.240	ug/l	99
74) N-amyl acetate	12.072	43	107371	69.346	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.511	83	76500	55.736	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	55904m	58.330	ug/l	
77) Bromobenzene	12.536	156	104605	51.889	ug/l	93
78) n-propylbenzene	12.603	91	554600	55.653	ug/l	98
79) 2-Chlorotoluene	12.688	91	312917	55.113	ug/l	99
80) 1,3,5-Trimethylbenzene	12.743	105	376397	54.032	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.310	75	26957	58.386	ug/l	91
82) 4-Chlorotoluene	12.786	91	316855	54.527	ug/l	100
83) tert-Butylbenzene	13.005	119	347315	53.757	ug/l	99
84) 1,2,4-Trimethylbenzene	13.048	105	370408	54.433	ug/l	100
85) sec-Butylbenzene	13.182	105	488820	53.440	ug/l	100
86) p-Isopropyltoluene	13.298	119	414156	53.878	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	203767	51.839	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	201529	51.631	ug/l	100
89) n-Butylbenzene	13.621	91	381707	55.439	ug/l	99
90) Hexachloroethane	13.889	117	84237	54.167	ug/l	94
91) 1,2-Dichlorobenzene	13.664	146	176718	51.554	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	11716	55.445	ug/l	93
93) 1,2,4-Trichlorobenzene	14.926	180	105932	50.473	ug/l	99
94) Hexachlorobutadiene	15.029	225	67092	46.155	ug/l	99
95) Naphthalene	15.151	128	180166	53.412	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	88730	49.991	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021023.D
Acq On : 03 Feb 2025 11:43
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:39:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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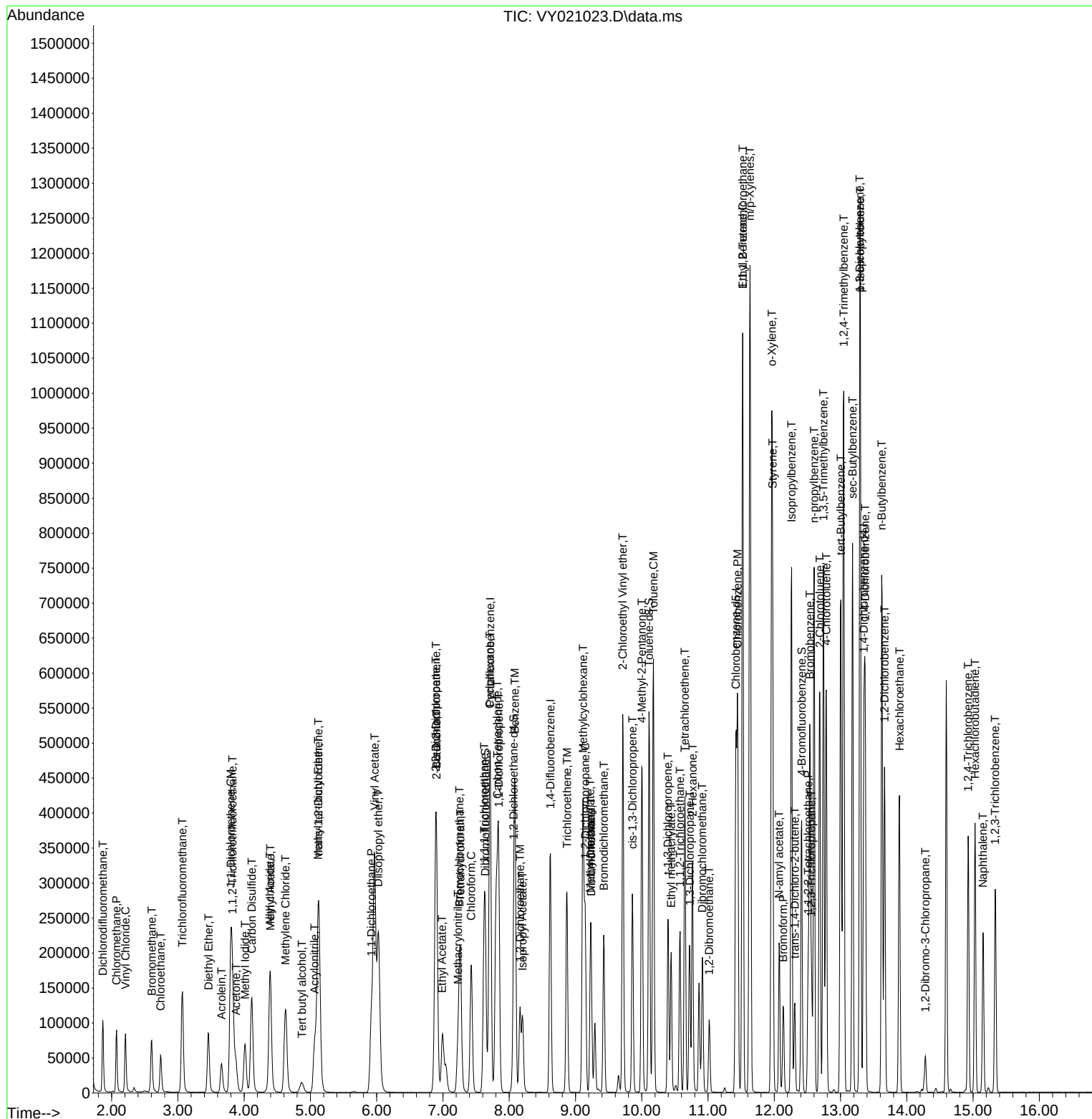
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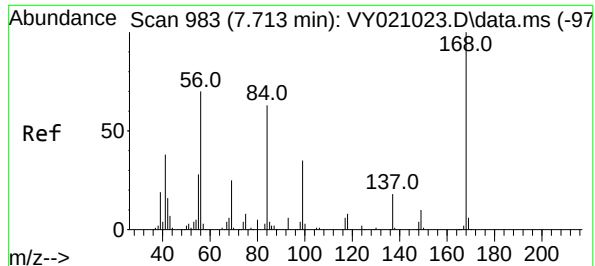
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: Feb 03 12:39:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025





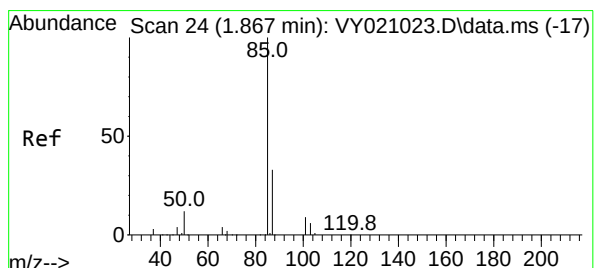
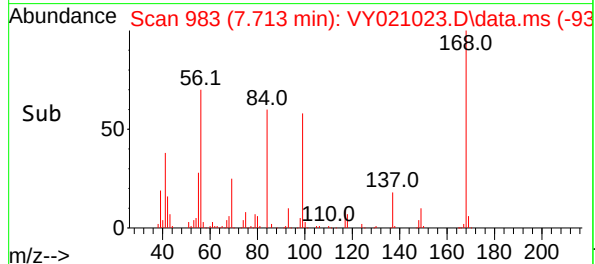
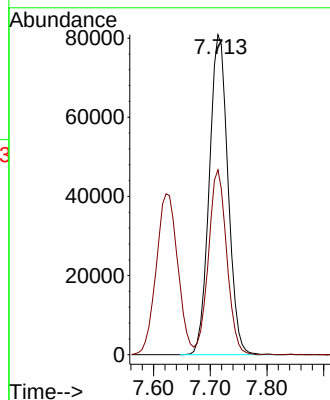
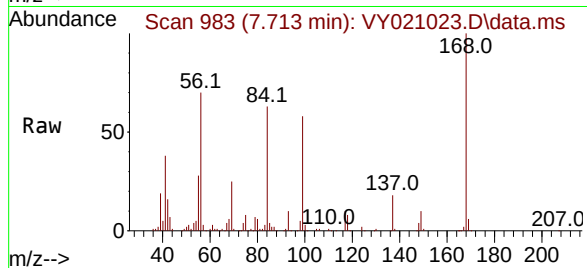
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 18505
Ion Ratio Lower Upper
168 100
99 57.7 42.2 63.2

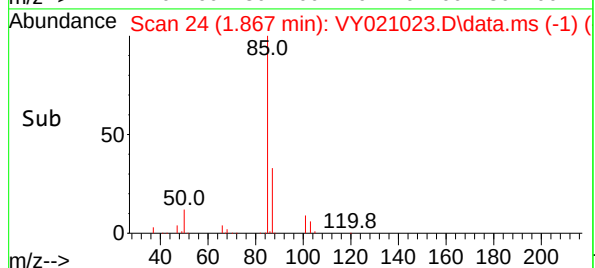
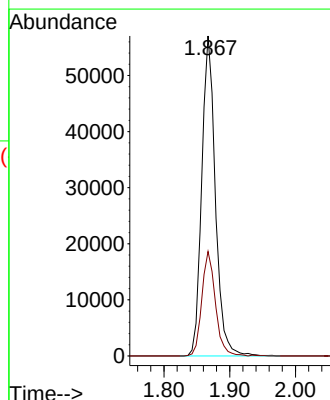
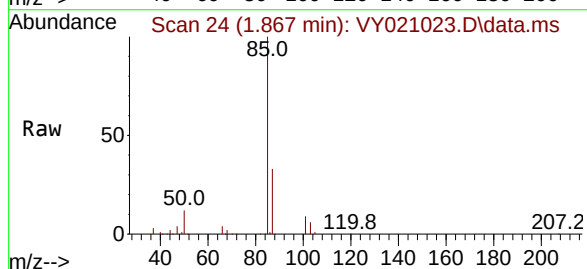
Manual Integrations
APPROVED

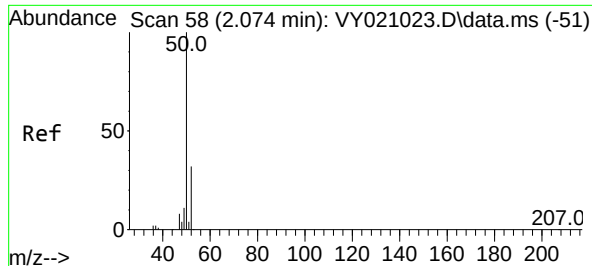
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#2
Dichlorodifluoromethane
Concen: 52.329 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion: 85 Resp: 82341
Ion Ratio Lower Upper
85 100
87 32.6 16.3 48.9





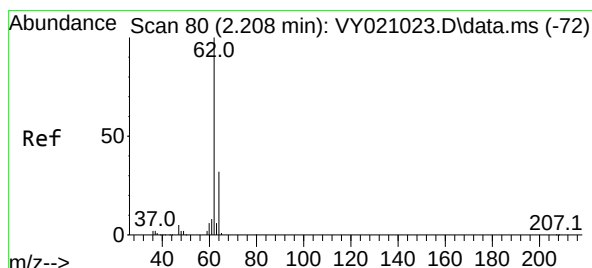
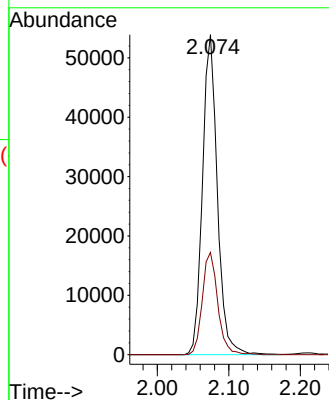
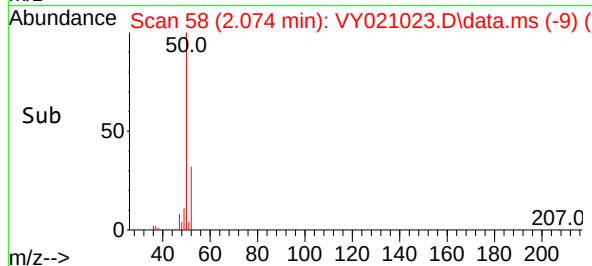
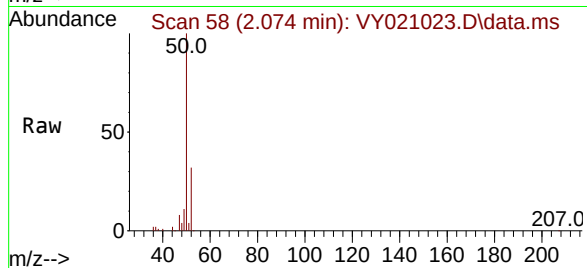
#3
Chloromethane
Concen: 77.798 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 77828
Ion Ratio Lower Upper
50 100
52 32.0 26.3 39.5

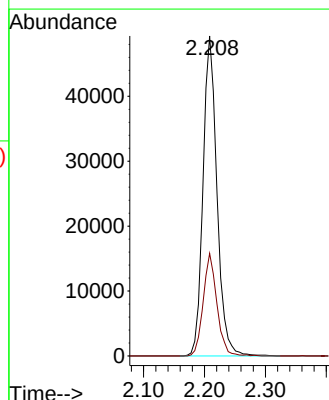
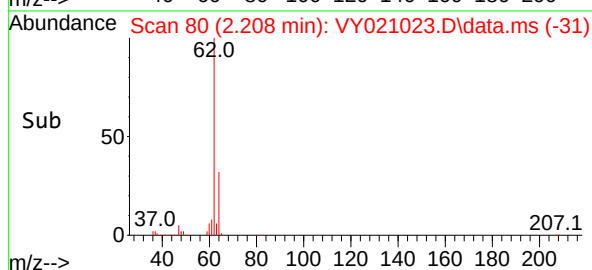
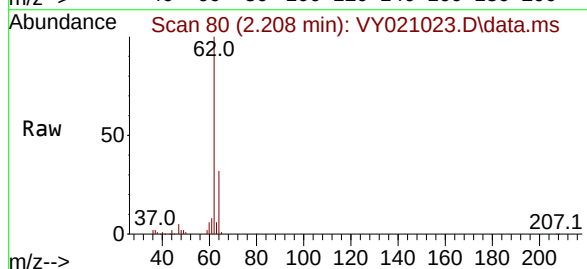
Manual Integrations
APPROVED

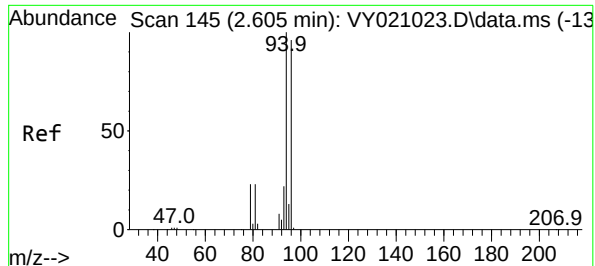
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#4
Vinyl Chloride
Concen: 76.063 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.000 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion: 62 Resp: 78456
Ion Ratio Lower Upper
62 100
64 32.1 25.4 38.2





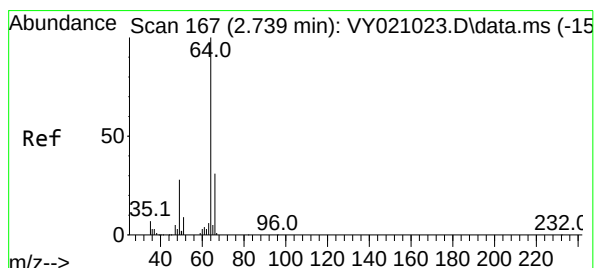
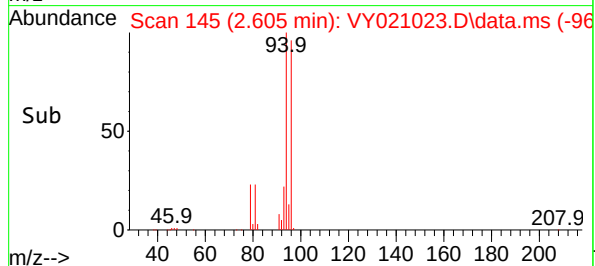
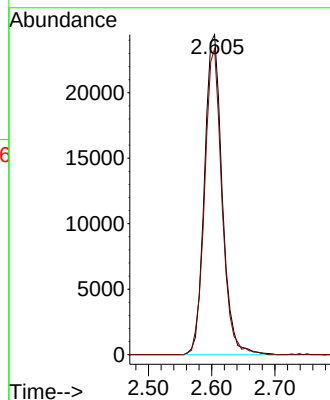
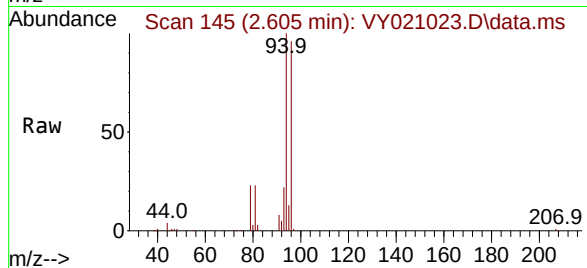
#5
Bromomethane
Concen: 68.257 ug/l
RT: 2.605 min Scan# 145
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 4766
Ion Ratio Lower Upper
94 100
96 95.6 77.4 116.0

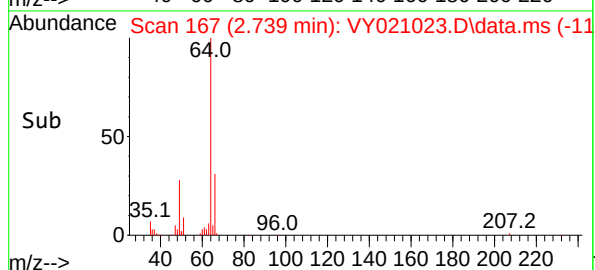
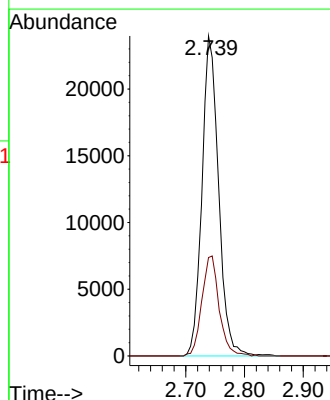
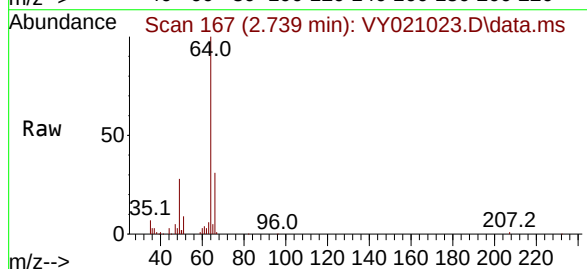
Manual Integrations
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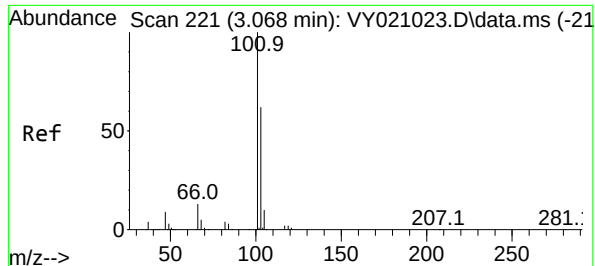
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#6
Chloroethane
Concen: 78.268 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion: 64 Resp: 47159
Ion Ratio Lower Upper
64 100
66 30.7 25.0 37.4





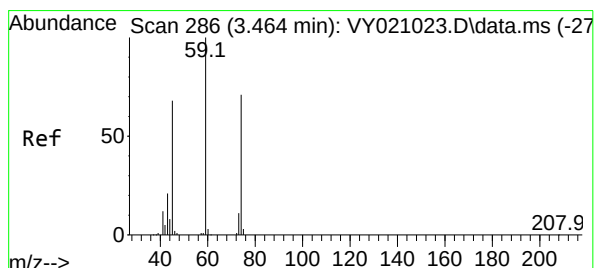
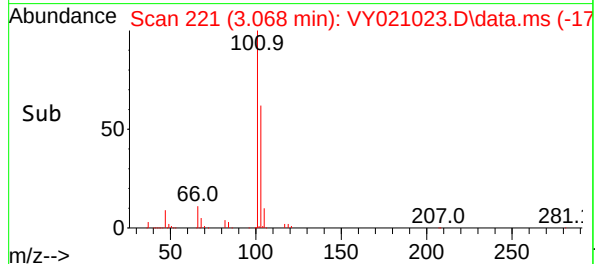
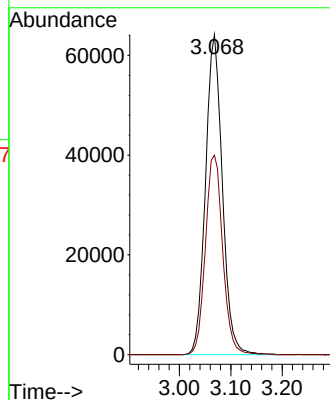
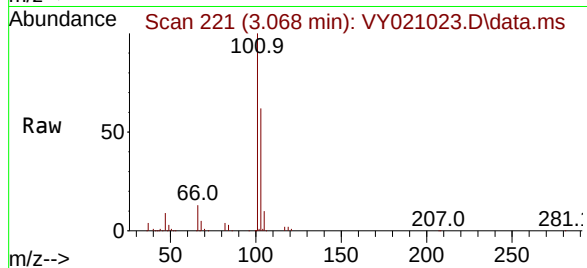
#7
Trichlorofluoromethane
Concen: 58.690 ug/l
RT: 3.068 min Scan# 21
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 146090
Ion Ratio Lower Upper
101 100
103 62.4 50.9 76.3

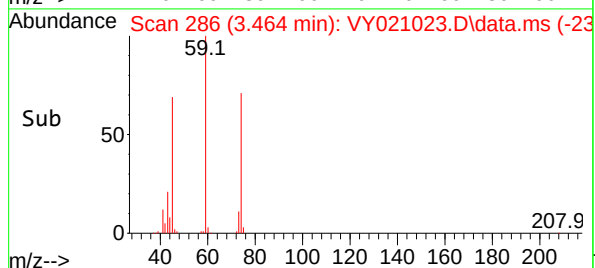
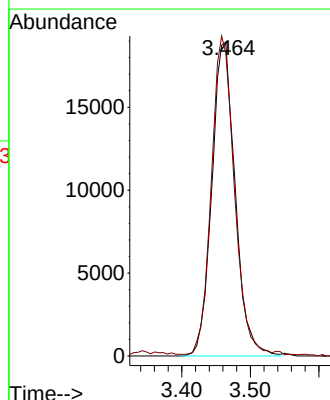
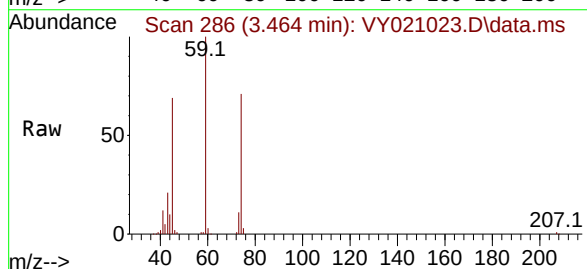
Manual Integrations
APPROVED

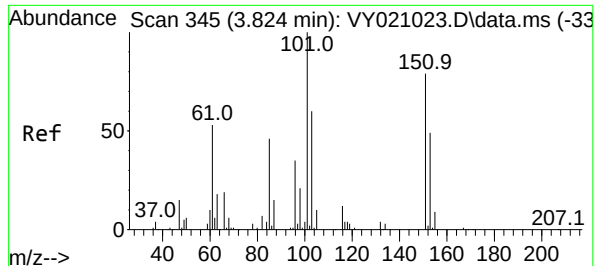
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#8
Diethyl Ether
Concen: 60.281 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion: 74 Resp: 44796
Ion Ratio Lower Upper
74 100
45 100.0 43.4 130.2





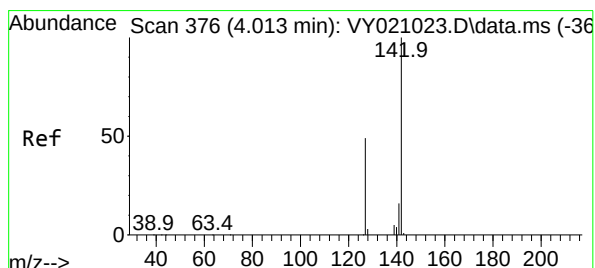
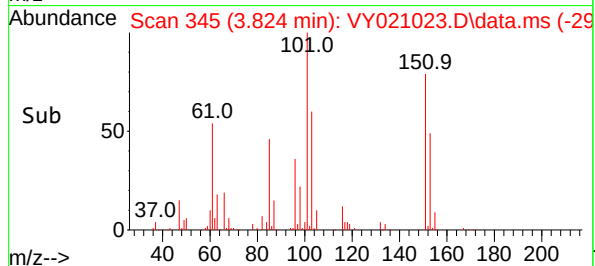
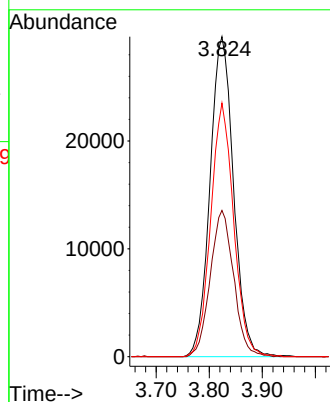
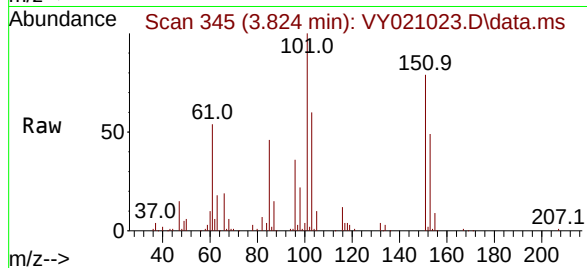
#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.564 ug/l
RT: 3.824 min Scan# 345
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 91456
Ion Ratio Lower Upper
101 100
85 45.5 34.9 52.3
151 77.5 66.8 100.2

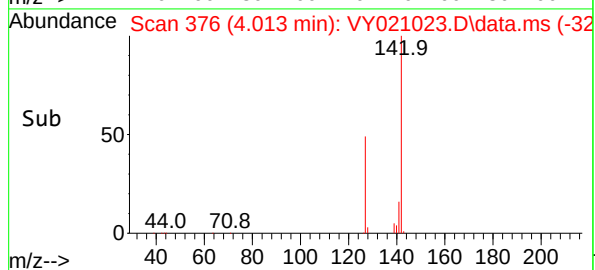
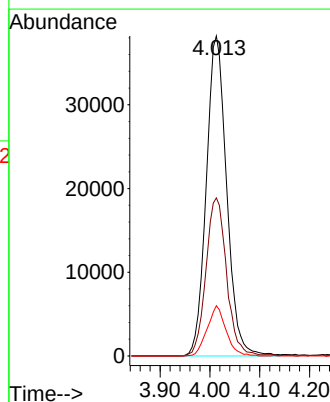
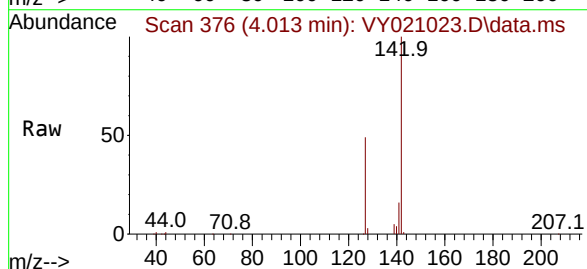
Manual Integrations
APPROVED

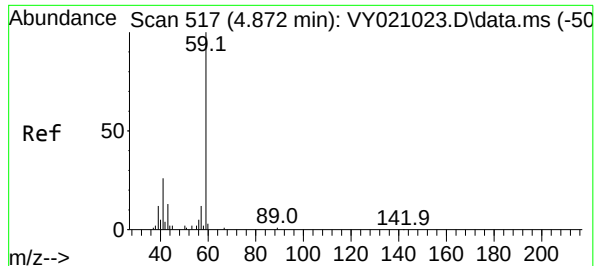
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#10
Methyl Iodide
Concen: 56.607 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion:142 Resp: 108576
Ion Ratio Lower Upper
142 100
127 49.8 38.9 58.3
141 14.5 11.7 17.5





#11

Tert butyl alcohol

Concen: 256.470 ug/l

RT: 4.872 min Scan# 517

Delta R.T. -0.006 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 29518

Ion Ratio Lower Upper

59 100

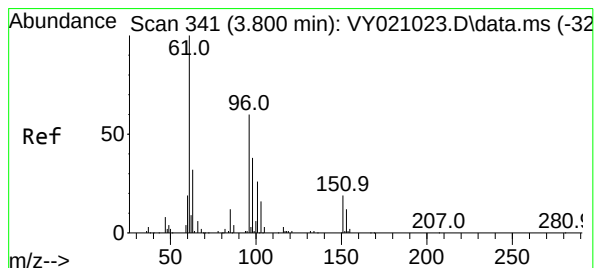
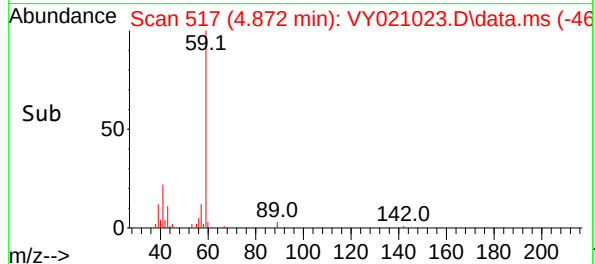
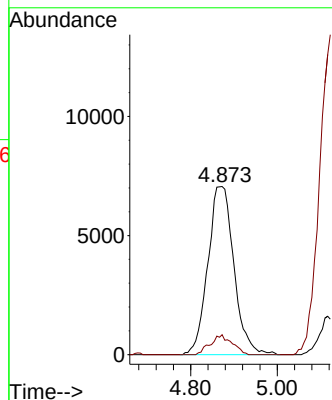
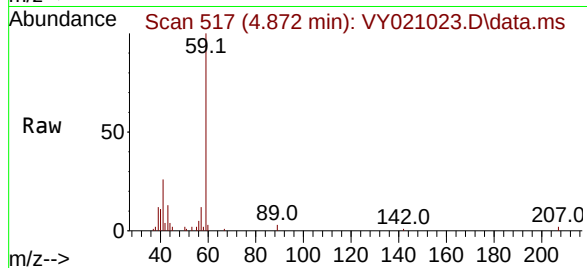
57 9.9 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#12

1,1-Dichloroethene

Concen: 55.452 ug/l

RT: 3.800 min Scan# 341

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

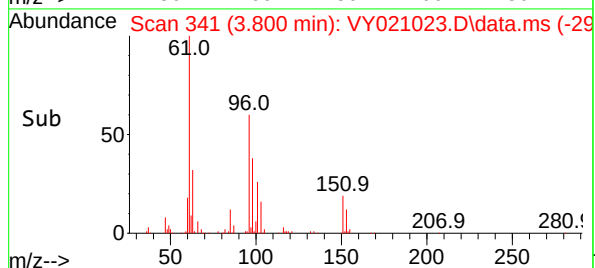
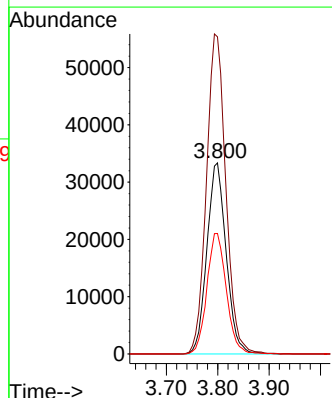
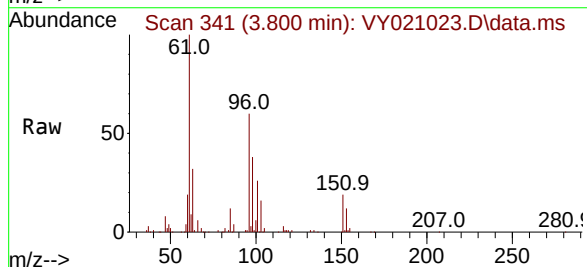
Tgt Ion: 96 Resp: 86860

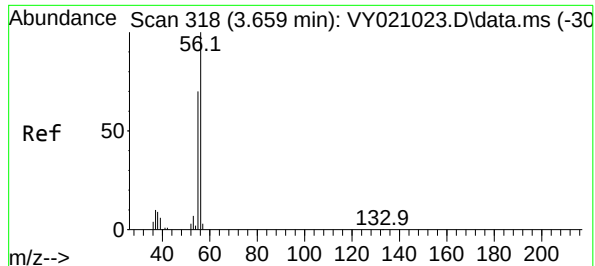
Ion Ratio Lower Upper

96 100

61 166.1 120.8 181.2

98 63.1 50.6 76.0





#13

Acrolein

Concen: 365.513 ug/l

RT: 3.659 min Scan# 318

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 4844

Ion Ratio Lower Upper

56 100

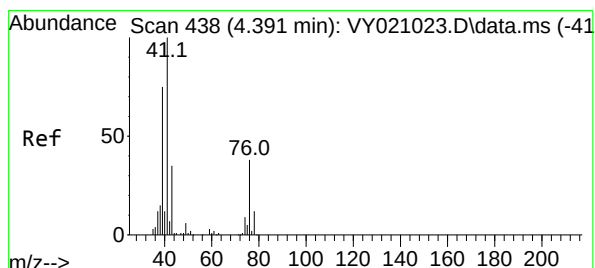
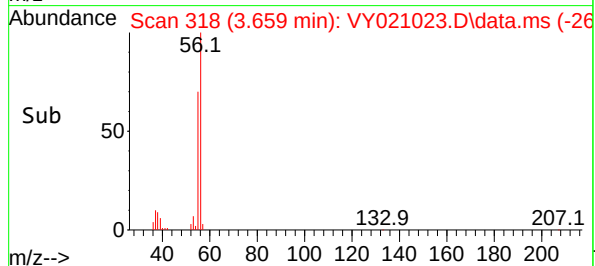
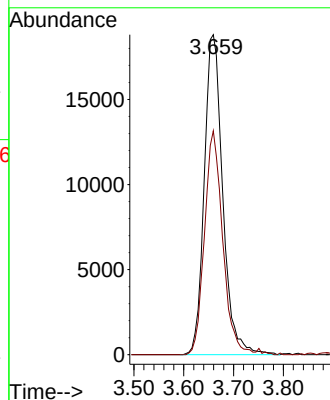
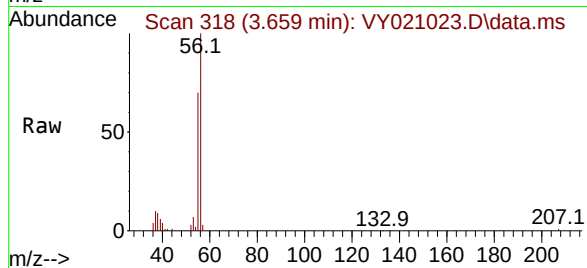
55 68.6 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#14

Allyl chloride

Concen: 68.676 ug/l

RT: 4.391 min Scan# 438

Delta R.T. 0.000 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

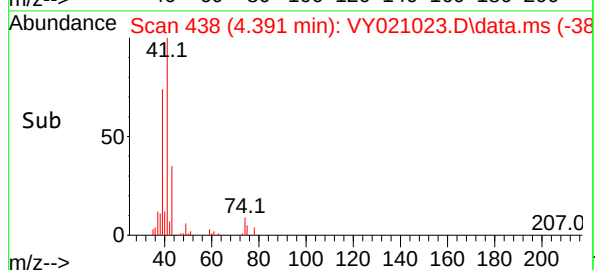
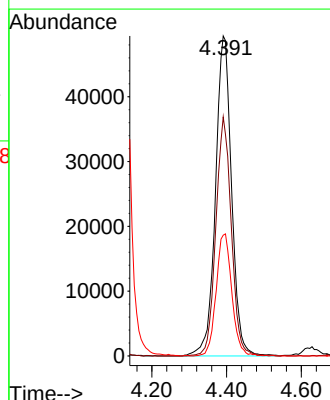
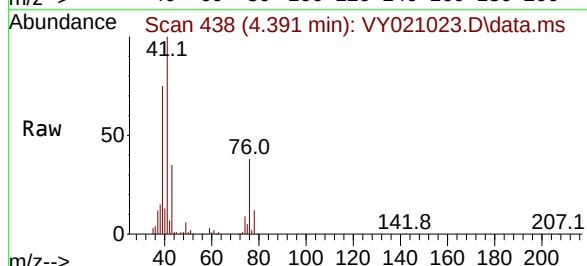
Tgt Ion: 41 Resp: 148096

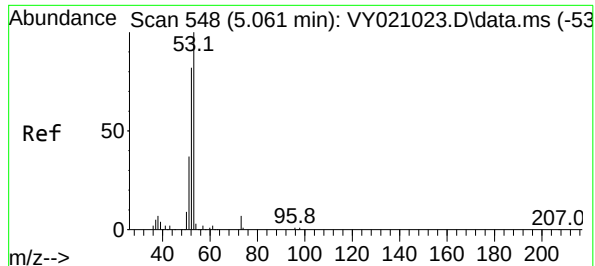
Ion Ratio Lower Upper

41 100

39 71.5 53.5 80.3

76 37.1 34.6 52.0





#15

Acrylonitrile

Concen: 322.040 ug/l

RT: 5.061 min Scan# 548

Delta R.T. -0.006 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

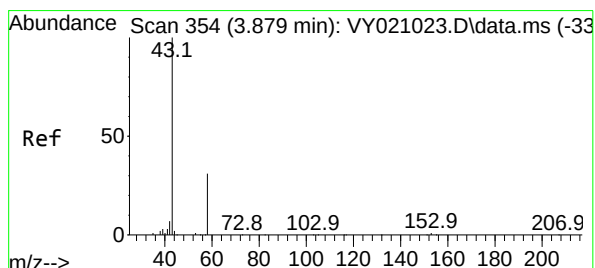
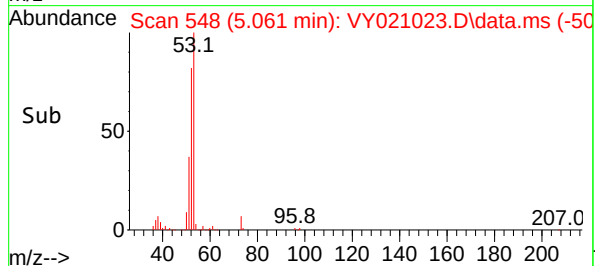
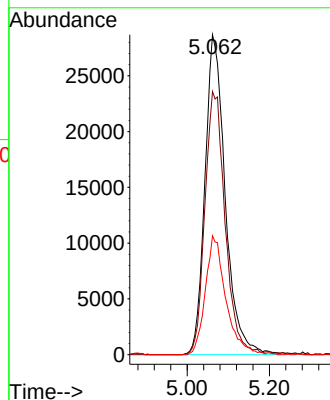
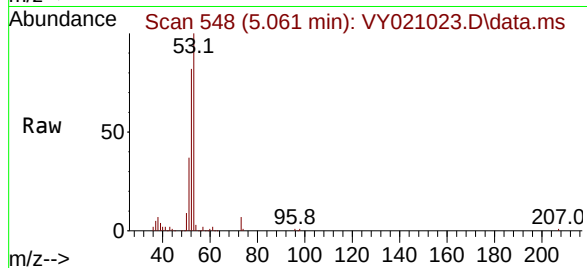
ClientSampleId :

VSTDICCC050

Tgt Ion:	53	Resp:	9843
Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.2	99.4
51	37.4	29.4	44.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#16

Acetone

Concen: 333.889 ug/l

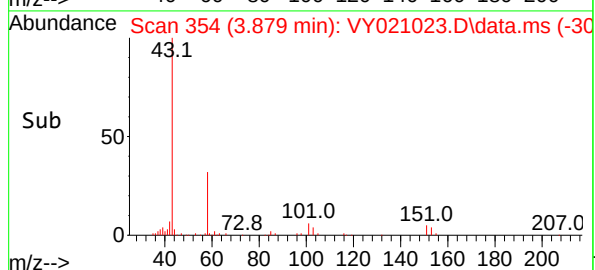
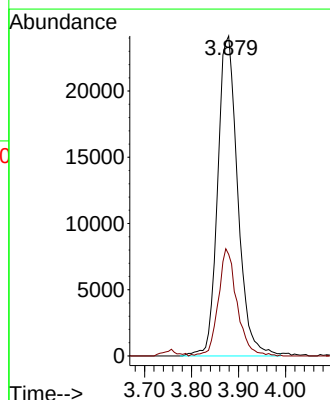
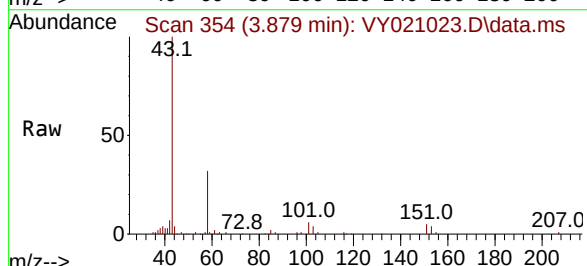
RT: 3.879 min Scan# 354

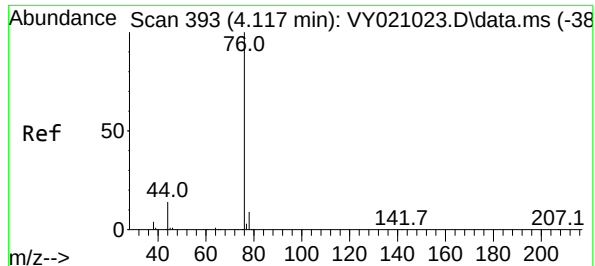
Delta R.T. 0.007 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Tgt Ion:	43	Resp:	71701
Ion	Ratio	Lower	Upper
43	100		
58	31.4	28.4	42.6





#17

Carbon Disulfide

Concen: 56.574 ug/l

RT: 4.117 min Scan# 393

Delta R.T. 0.007 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 272934

Ion Ratio Lower Upper

76 100

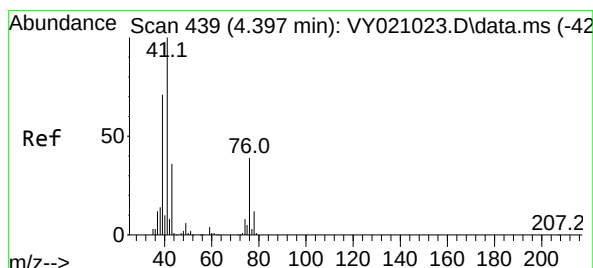
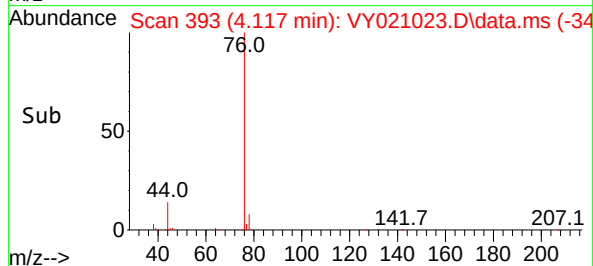
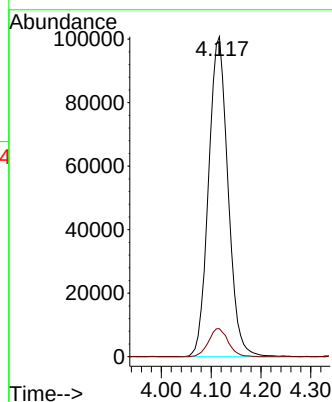
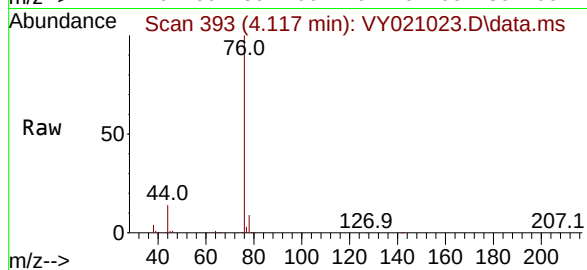
78 8.7 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#18

Methyl Acetate

Concen: 70.789 ug/l

RT: 4.397 min Scan# 439

Delta R.T. 0.007 min

Lab File: VY021023.D

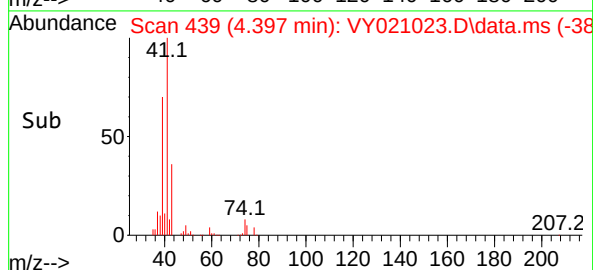
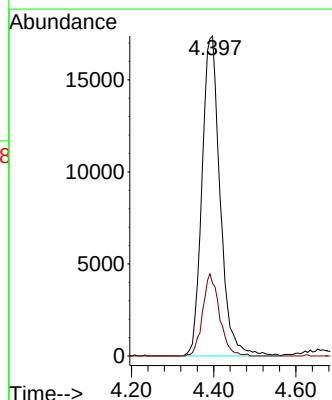
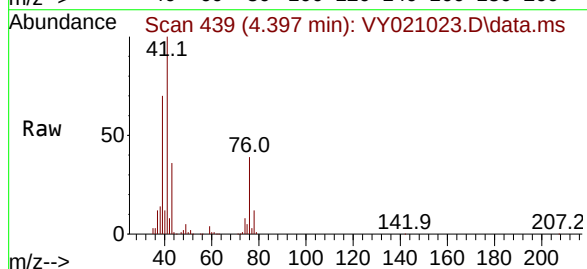
Acq: 03 Feb 2025 11:43

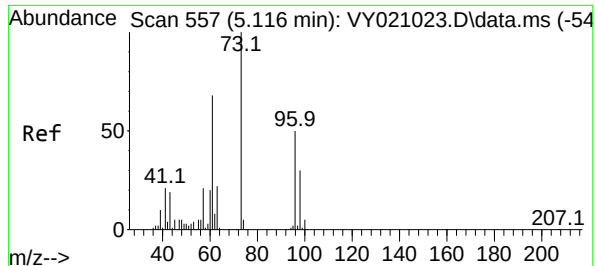
Tgt Ion: 43 Resp: 53193

Ion Ratio Lower Upper

43 100

74 23.8 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 61.726 ug/l

RT: 5.116 min Scan# 51

Delta R.T. -0.012 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 22504

Ion Ratio Lower Upper

73 100

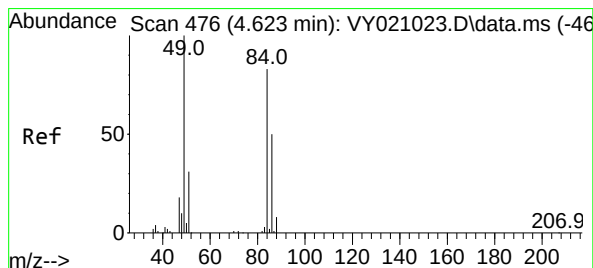
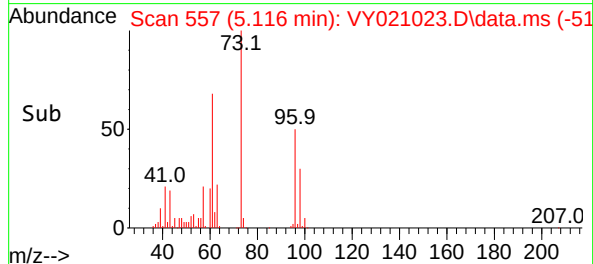
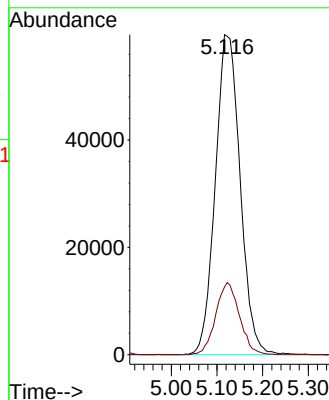
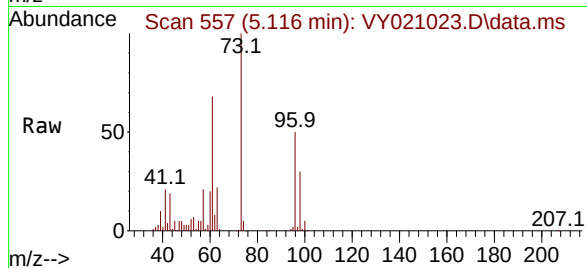
57 21.1 16.6 25.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#20

Methylene Chloride

Concen: 56.645 ug/l

RT: 4.623 min Scan# 476

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Tgt Ion: 84 Resp: 89716

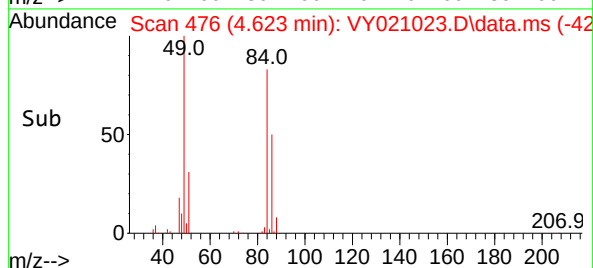
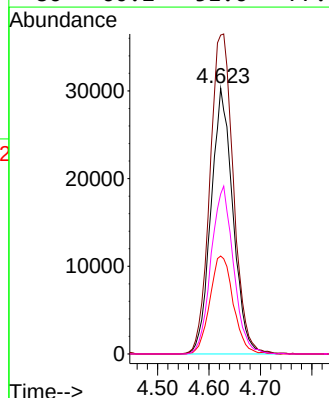
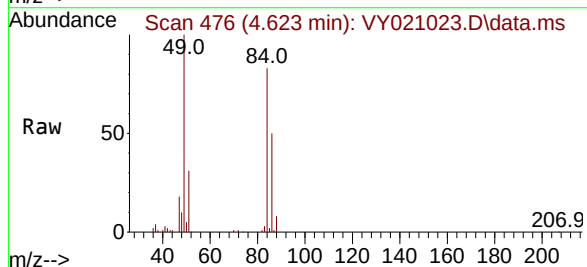
Ion Ratio Lower Upper

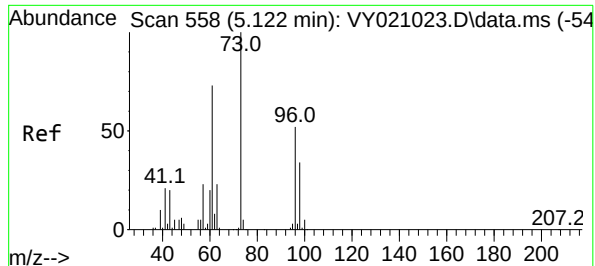
84 100

49 120.0 88.3 132.5

51 36.8 27.7 41.5

86 60.2 51.6 77.4





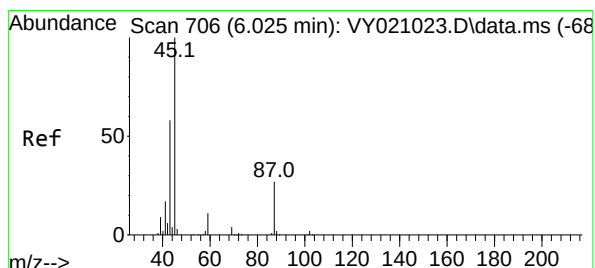
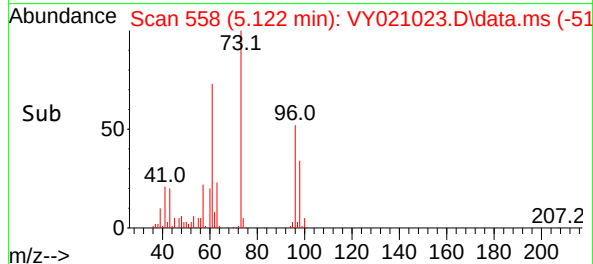
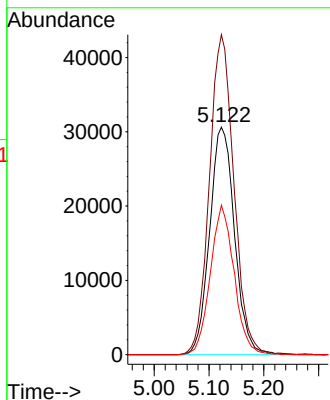
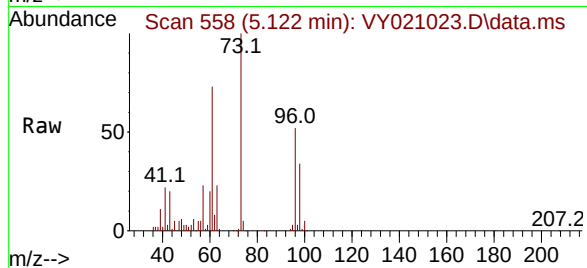
#21
trans-1,2-Dichloroethene
Concen: 57.552 ug/l
RT: 5.122 min Scan# 51
Delta R.T. -0.006 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 9665
Ion Ratio Lower Upper
96 100
61 140.7 101.5 152.3
98 65.7 52.0 78.0

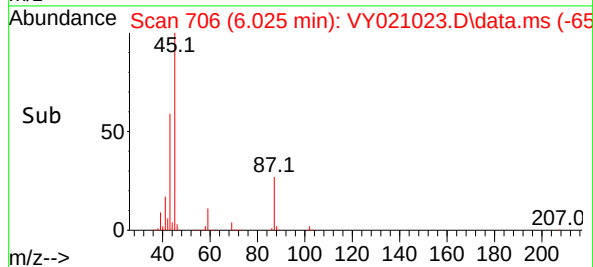
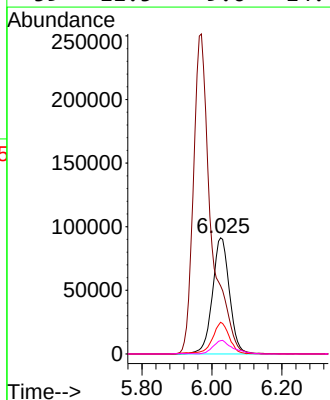
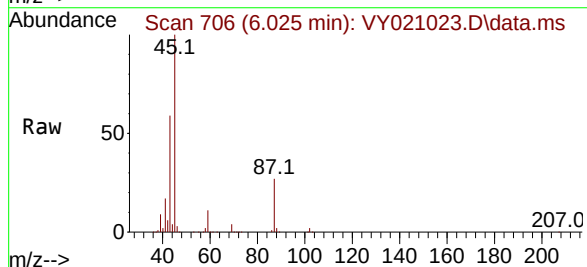
Manual Integrations
APPROVED

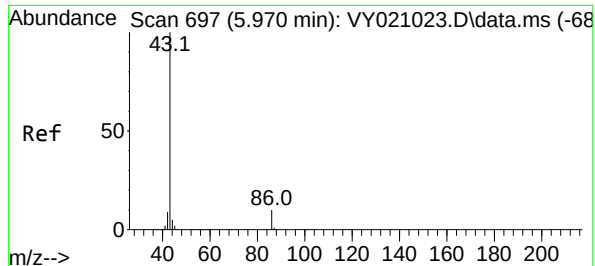
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#22
Diisopropyl ether
Concen: 70.111 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion: 45 Resp: 308181
Ion Ratio Lower Upper
45 100
43 58.4 45.1 67.7
87 27.2 25.0 37.4
59 11.5 9.6 14.4





#23

Vinyl Acetate

Concen: 360.173 ug/l

RT: 5.970 min Scan# 697

Delta R.T. 0.000 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 876749

Ion Ratio Lower Upper

43 100

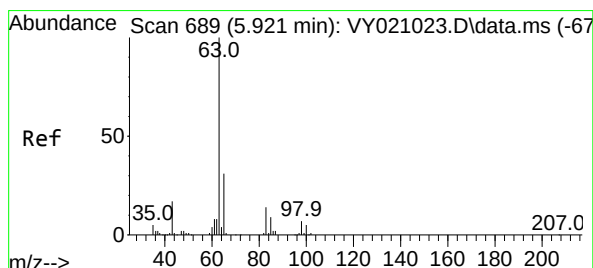
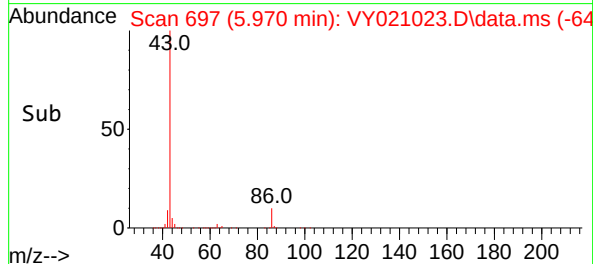
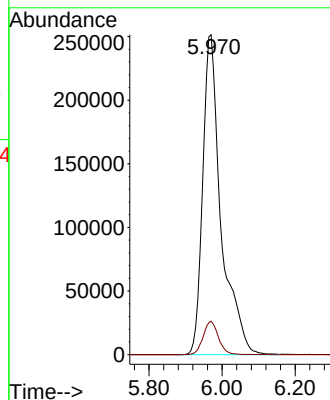
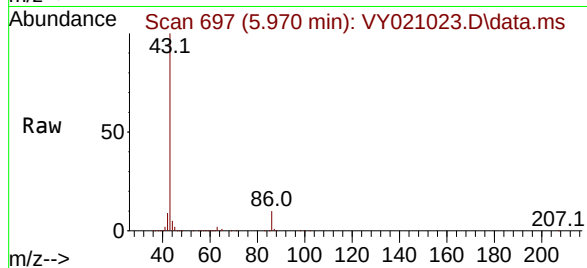
86 10.5 9.7 14.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#24

1,1-Dichloroethane

Concen: 61.815 ug/l

RT: 5.921 min Scan# 689

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

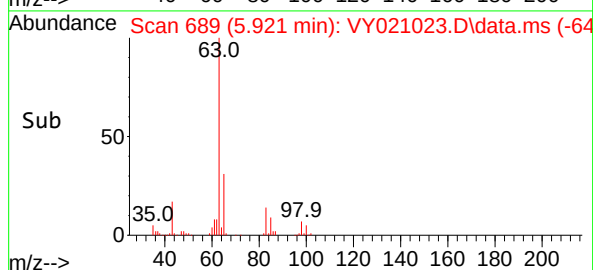
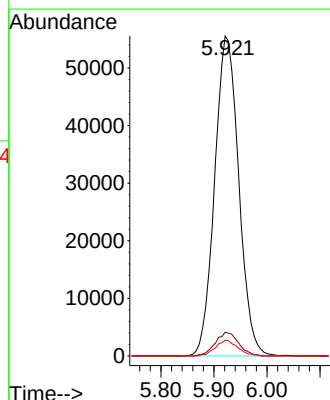
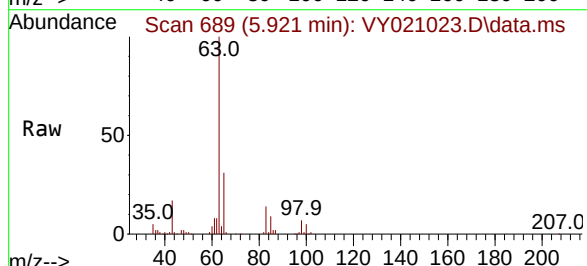
Tgt Ion: 63 Resp: 175291

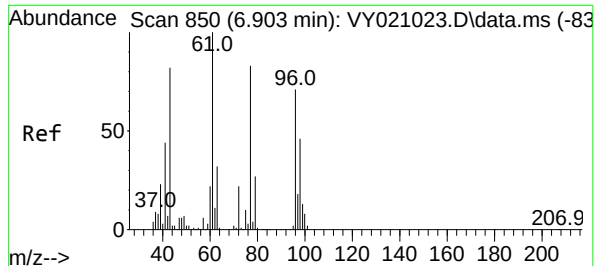
Ion Ratio Lower Upper

63 100

98 7.4 3.7 11.1

100 4.9 2.4 7.2





#25

2-Butanone

Concen: 342.981 ug/l

RT: 6.903 min Scan# 850

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 124949

Ion Ratio Lower Upper

43 100

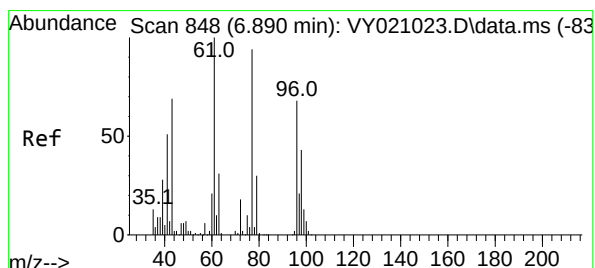
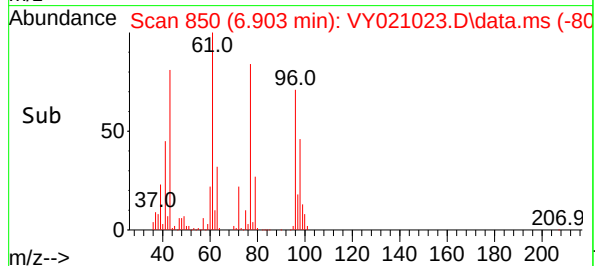
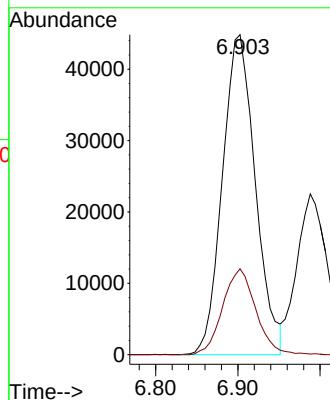
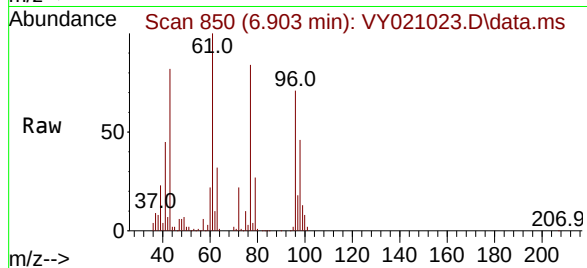
72 26.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#26

2,2-Dichloropropane

Concen: 57.651 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.000 min

Lab File: VY021023.D

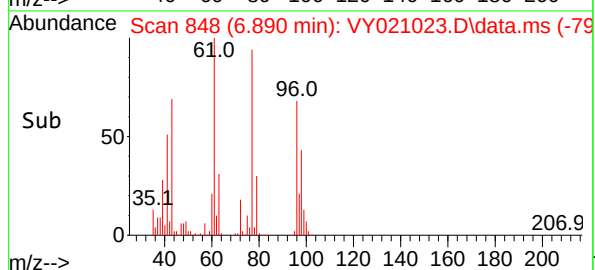
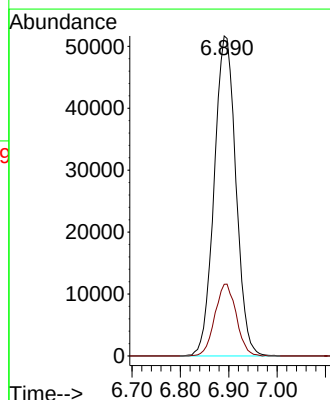
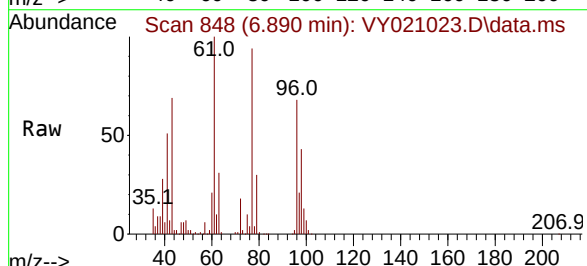
Acq: 03 Feb 2025 11:43

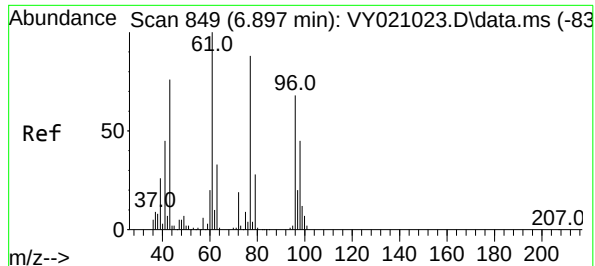
Tgt Ion: 77 Resp: 160962

Ion Ratio Lower Upper

77 100

97 22.2 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 57.437 ug/l

RT: 6.897 min Scan# 849

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

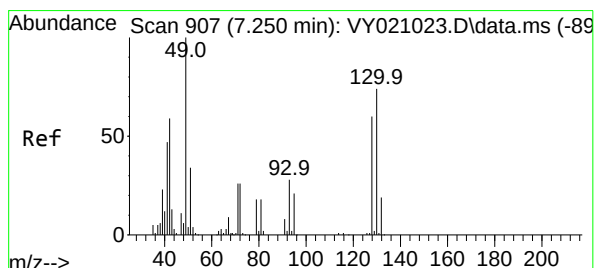
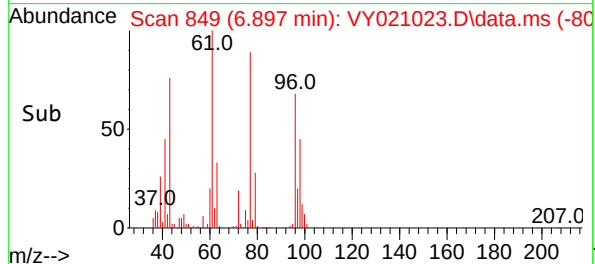
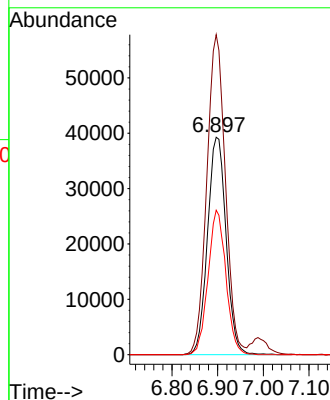
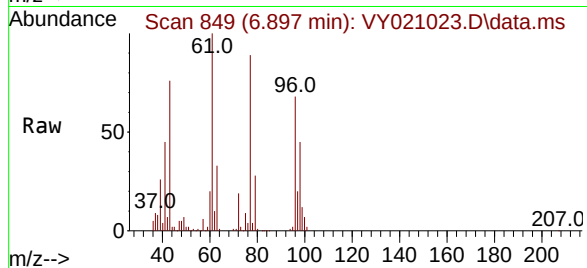
ClientSampleId :

VSTDICCC050

Tgt Ion:	96	Resp:	11087
Ion	Ratio	Lower	Upper
96	100		
61	147.1	0.0	274.0
98	64.0	0.0	130.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#28

Bromochloromethane

Concen: 72.370 ug/l

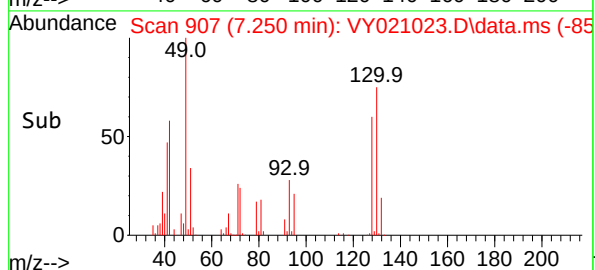
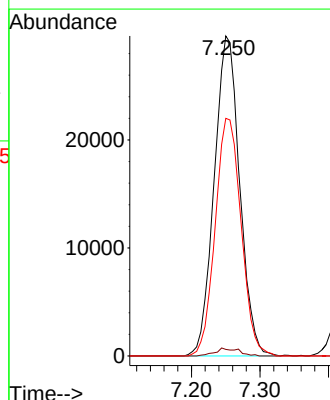
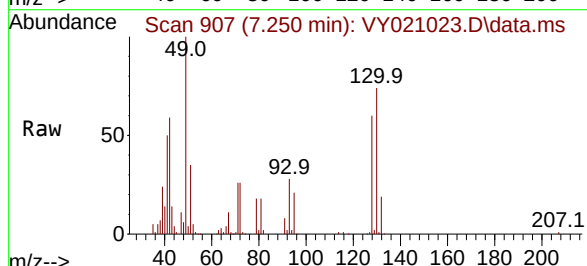
RT: 7.250 min Scan# 907

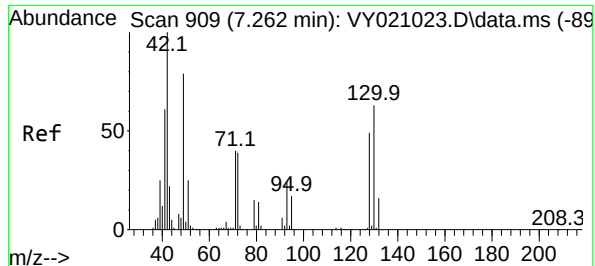
Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Tgt Ion:	49	Resp:	76460
Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	5.0
130	75.5	73.2	109.8





#29

Tetrahydrofuran

Concen: 346.176 ug/l

RT: 7.262 min Scan# 909

Delta R.T. -0.006 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 8486

Ion Ratio Lower Upper

42 100

72 41.9 39.3 58.9

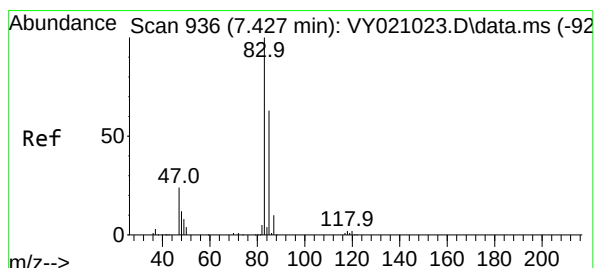
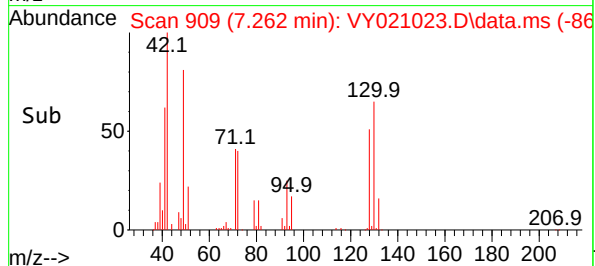
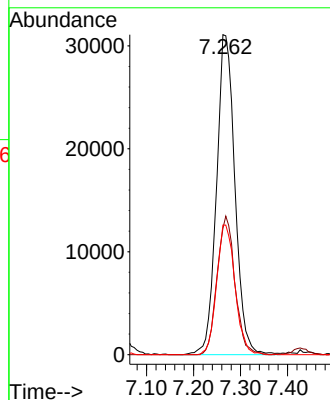
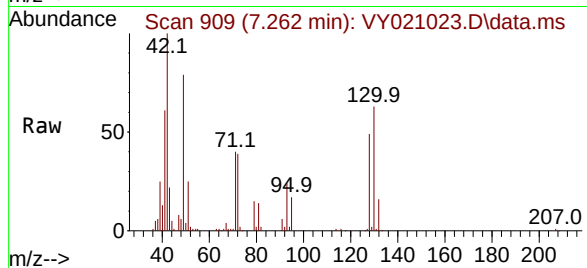
71 40.3 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#30

Chloroform

Concen: 59.167 ug/l

RT: 7.427 min Scan# 936

Delta R.T. 0.001 min

Lab File: VY021023.D

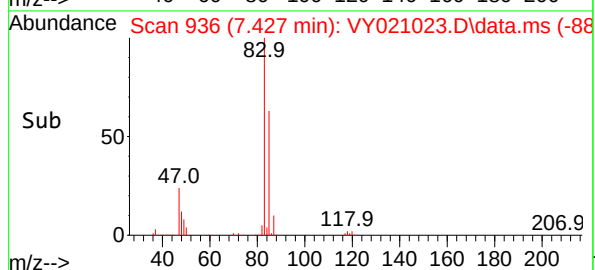
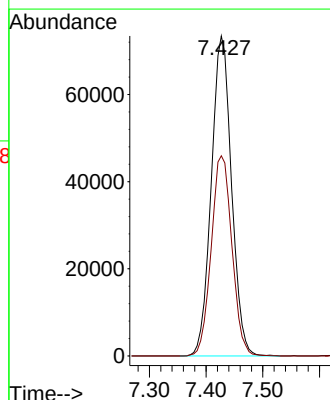
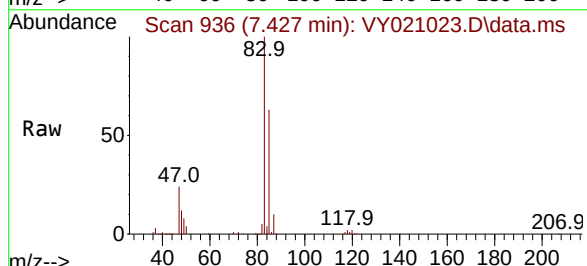
Acq: 03 Feb 2025 11:43

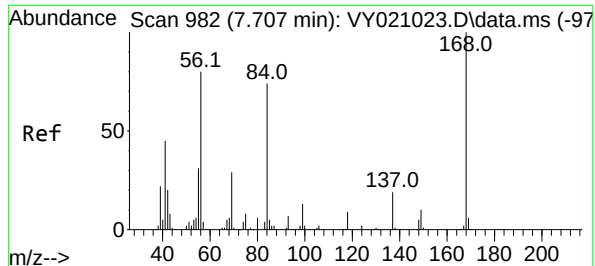
Tgt Ion: 83 Resp: 181725

Ion Ratio Lower Upper

83 100

85 62.6 52.9 79.3





#31

Cyclohexane

Concen: 55.203 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 15301

Ion Ratio Lower Upper

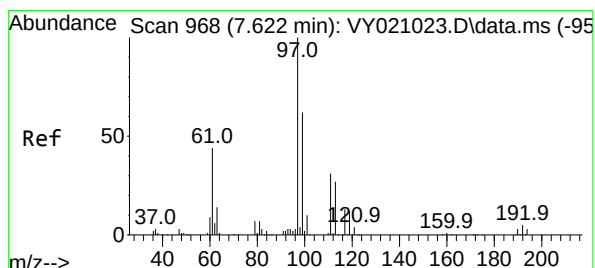
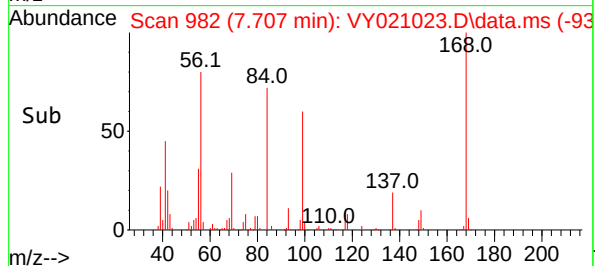
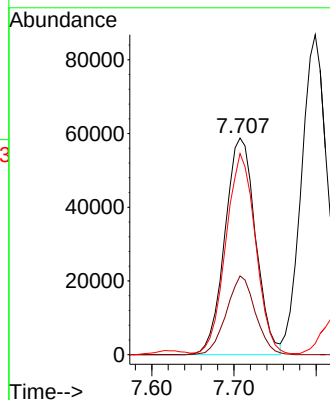
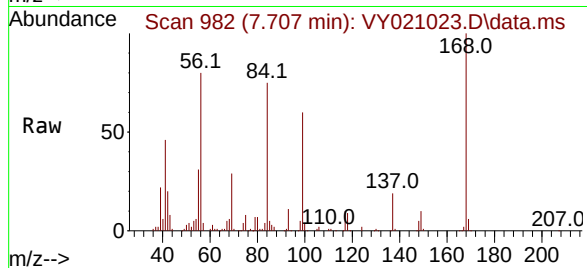
56 100

69 36.3 27.7 41.5

84 91.5 77.5 116.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#32

1,1,1-Trichloroethane

Concen: 56.771 ug/l

RT: 7.622 min Scan# 968

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

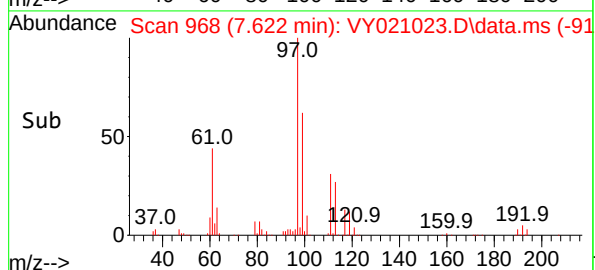
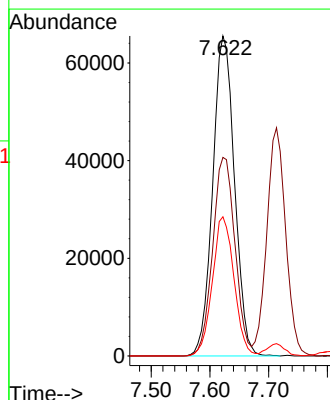
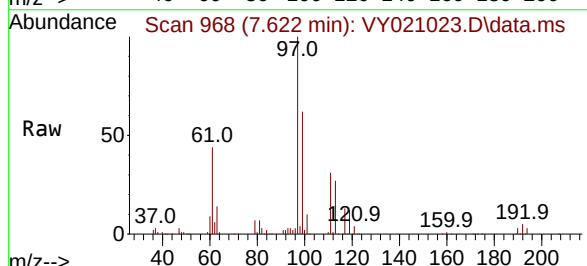
Tgt Ion: 97 Resp: 168751

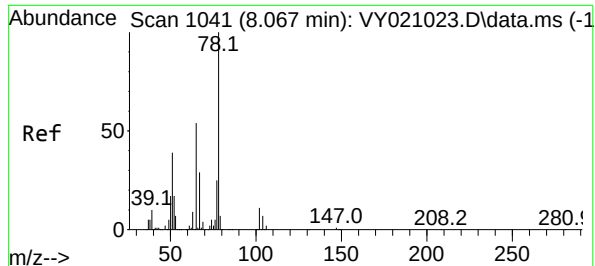
Ion Ratio Lower Upper

97 100

99 63.7 51.4 77.0

61 43.3 31.4 47.0





#33

1,2-Dichloroethane-d4

Concen: 59.079 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 93084

Ion Ratio Lower Upper

65 100

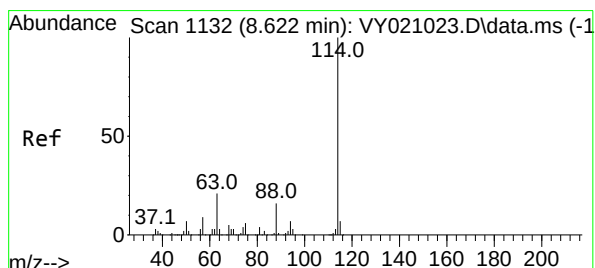
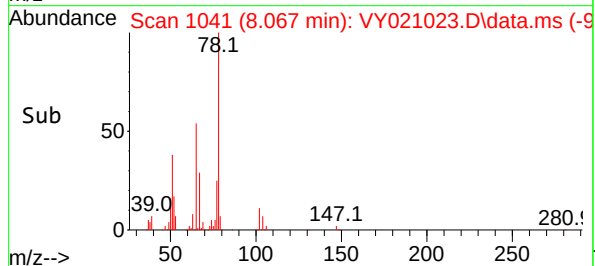
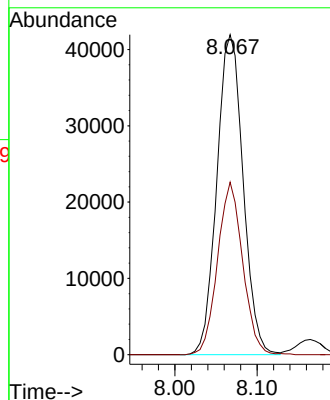
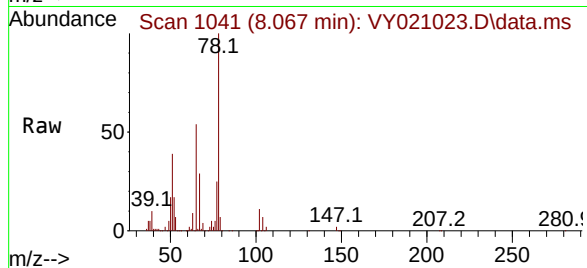
67 51.6 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

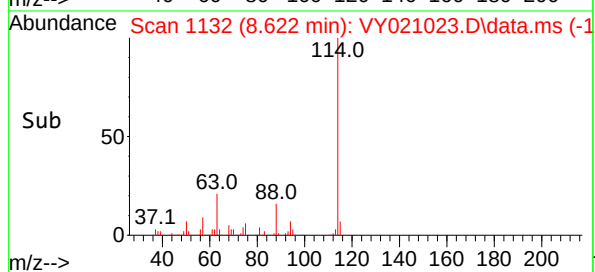
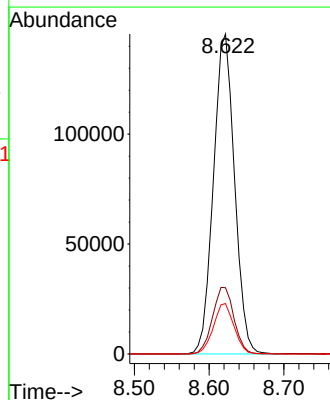
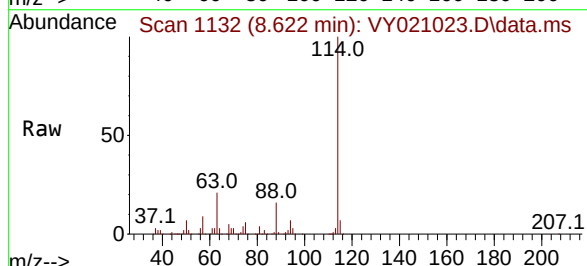
Tgt Ion:114 Resp: 285755

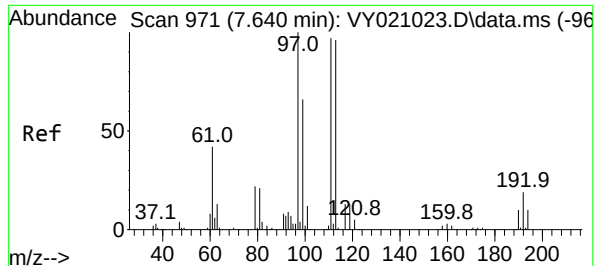
Ion Ratio Lower Upper

114 100

63 20.7 0.0 37.2

88 15.8 0.0 29.6





#35

Dibromofluoromethane

Concen: 52.107 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.000 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

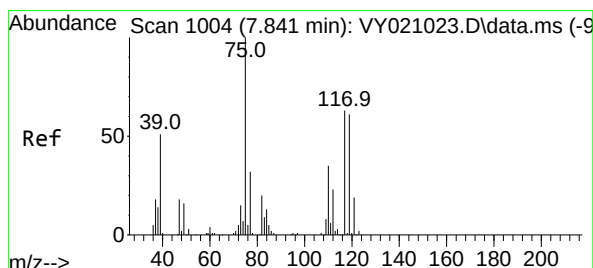
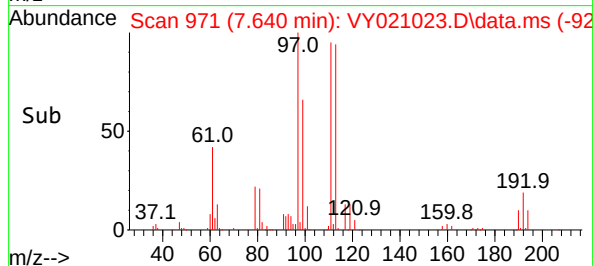
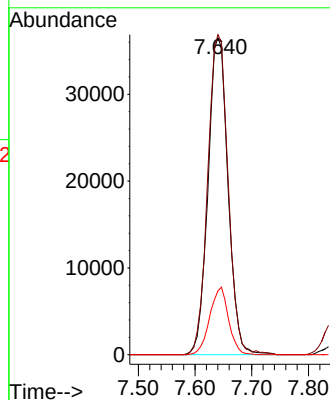
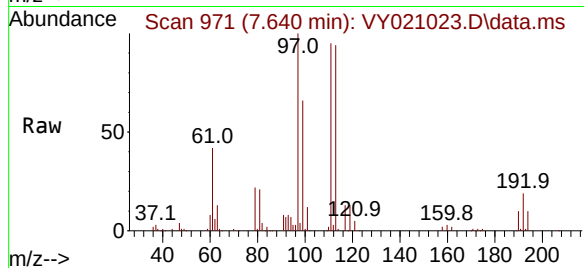
ClientSampleId :

VSTDICCC050

Tgt Ion:	113	Resp:	8951
Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.6	123.8
192	20.0	16.8	25.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#36

1,1-Dichloropropene

Concen: 54.034 ug/l

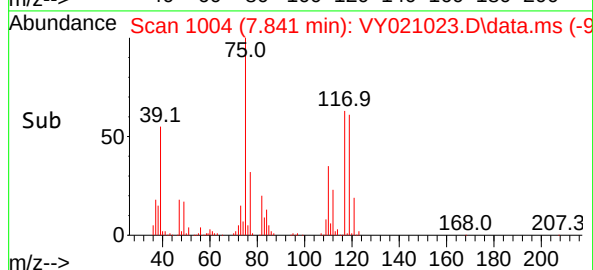
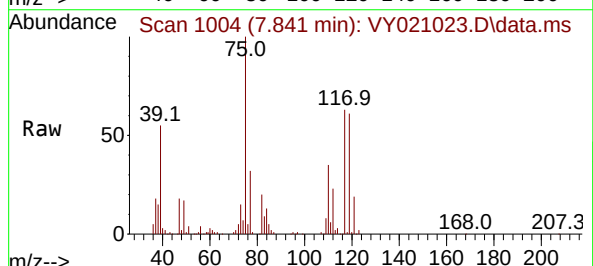
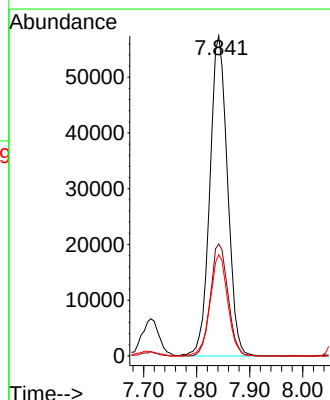
RT: 7.841 min Scan# 1004

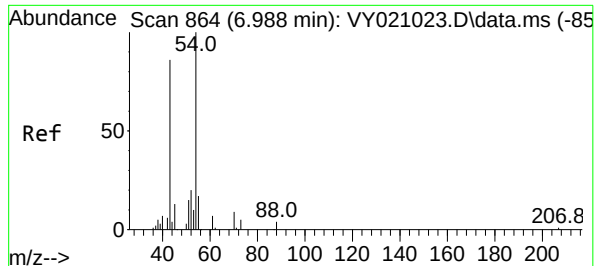
Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Tgt Ion:	75	Resp:	132425
Ion	Ratio	Lower	Upper
75	100		
110	34.8	18.4	55.2
77	31.6	24.9	37.3





#37

Ethyl Acetate

Concen: 65.852 ug/l

RT: 6.988 min Scan# 80

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 6016

Ion Ratio Lower Upper

43 100

61 12.9 11.4 17.0

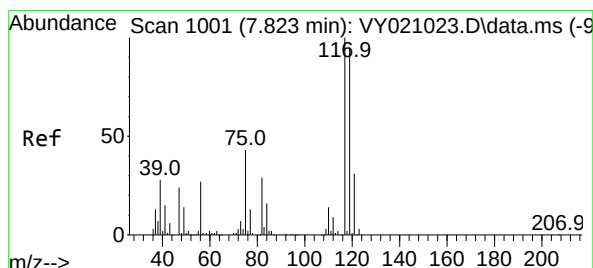
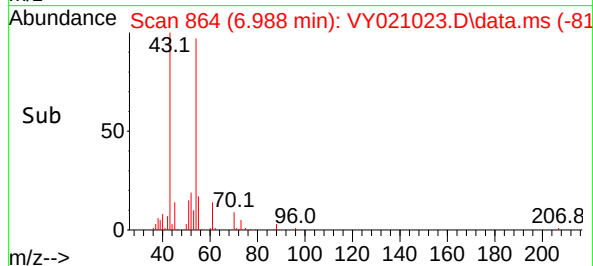
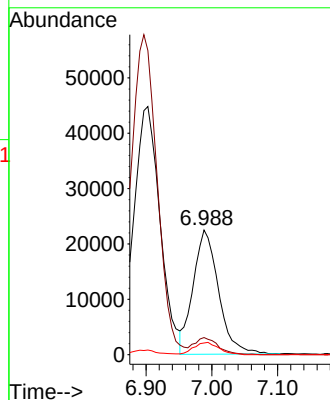
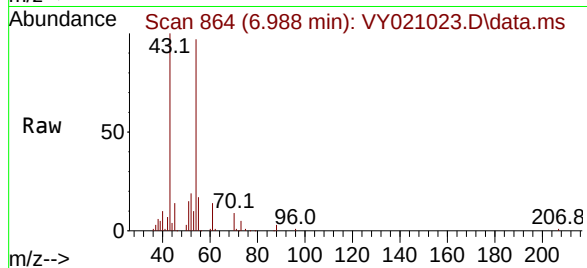
70 9.7 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#38

Carbon Tetrachloride

Concen: 51.530 ug/l

RT: 7.823 min Scan# 1001

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

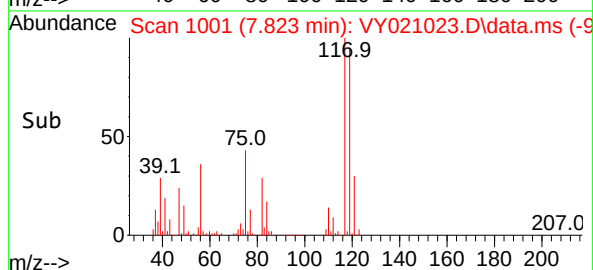
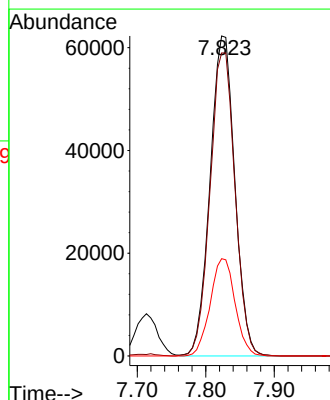
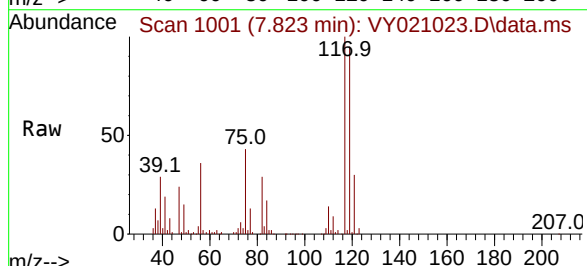
Tgt Ion:117 Resp: 156282

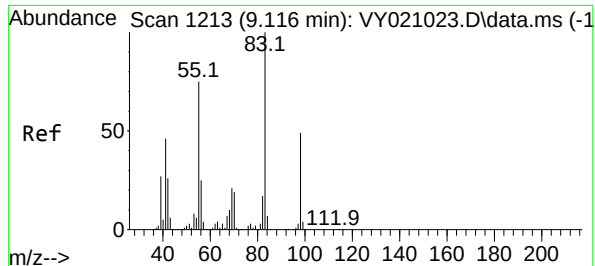
Ion Ratio Lower Upper

117 100

119 94.7 75.0 112.6

121 30.4 24.2 36.2





#39

Methylcyclohexane

Concen: 51.064 ug/l

RT: 9.116 min Scan# 1

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 168118

Ion Ratio Lower Upper

83 100

55 75.0 54.9 82.3

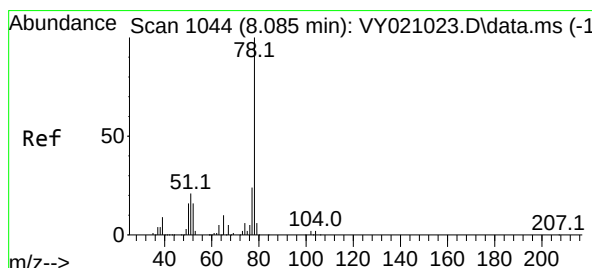
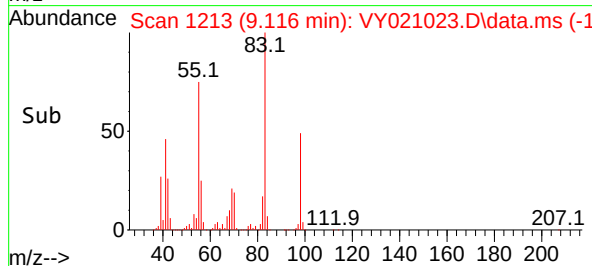
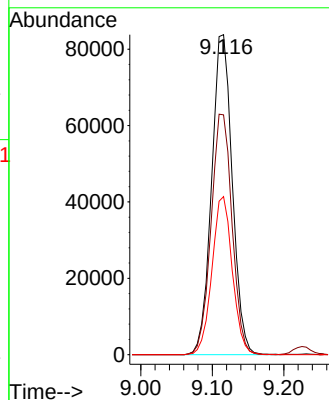
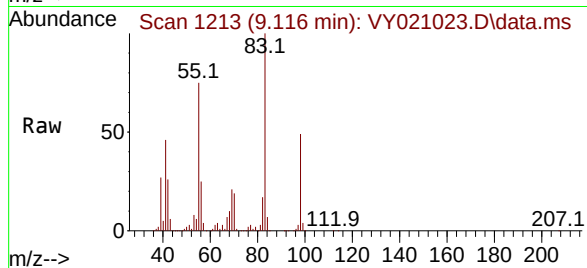
98 49.4 40.5 60.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#40

Benzene

Concen: 54.594 ug/l

RT: 8.085 min Scan# 1044

Delta R.T. 0.001 min

Lab File: VY021023.D

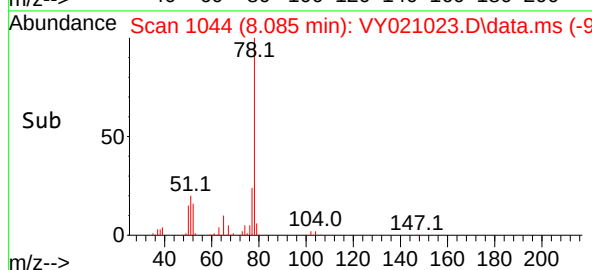
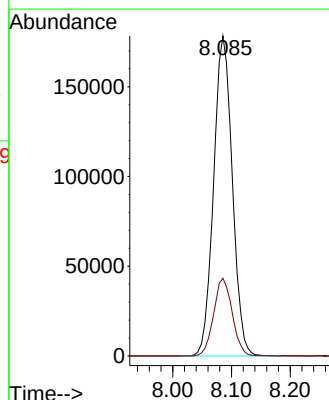
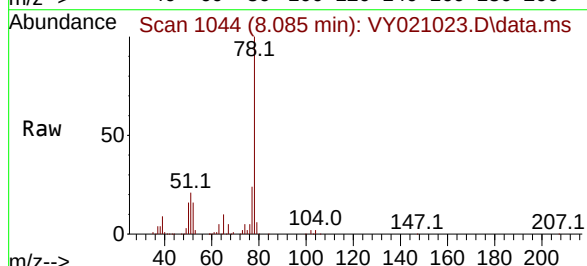
Acq: 03 Feb 2025 11:43

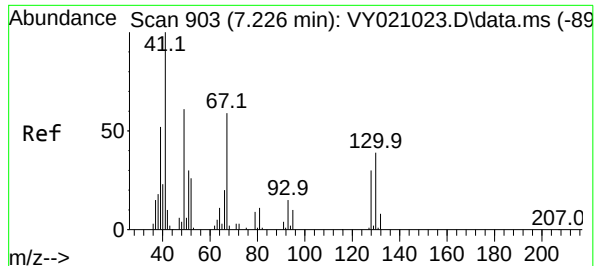
Tgt Ion: 78 Resp: 393690

Ion Ratio Lower Upper

78 100

77 24.3 19.4 29.2





#41

Methacrylonitrile

Concen: 62.707 ug/l

RT: 7.226 min Scan# 903

Delta R.T. 0.000 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 41 Resp: 3170

Ion Ratio Lower Upper

41 100

39 60.9 41.6 62.4

67 75.8 63.8 95.6

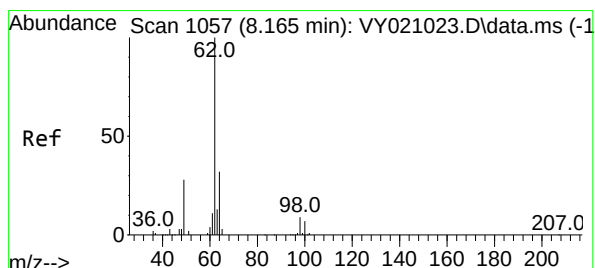
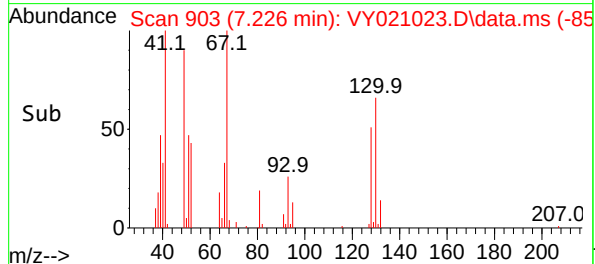
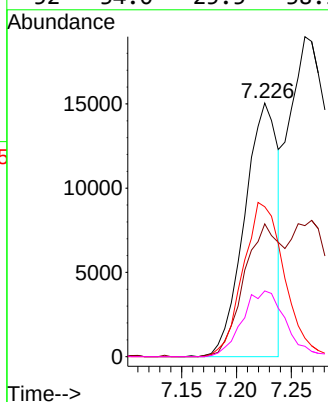
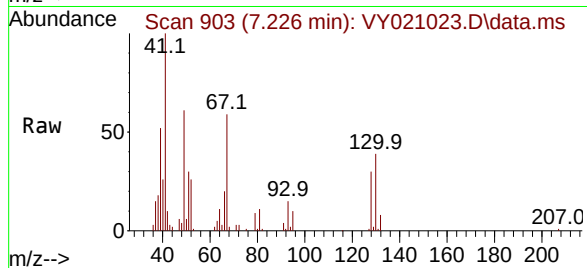
52 34.0 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#42

1,2-Dichloroethane

Concen: 59.191 ug/l

RT: 8.165 min Scan# 1057

Delta R.T. 0.001 min

Lab File: VY021023.D

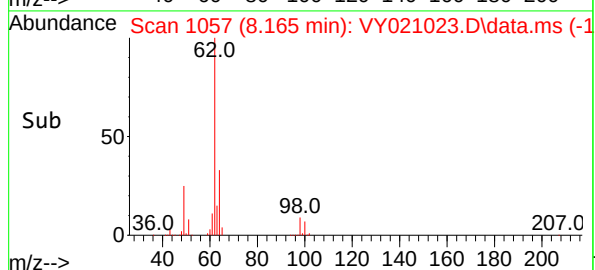
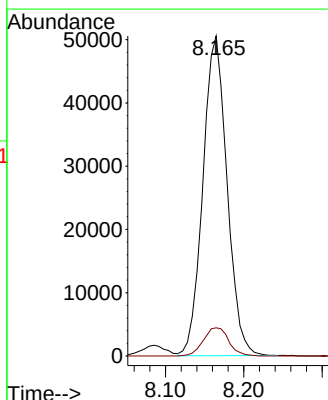
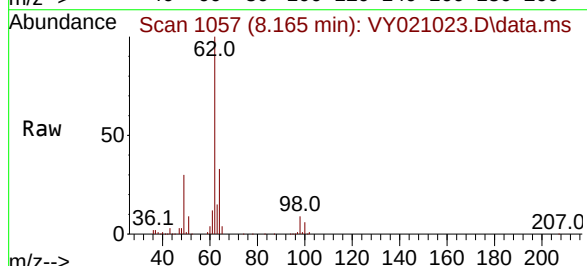
Acq: 03 Feb 2025 11:43

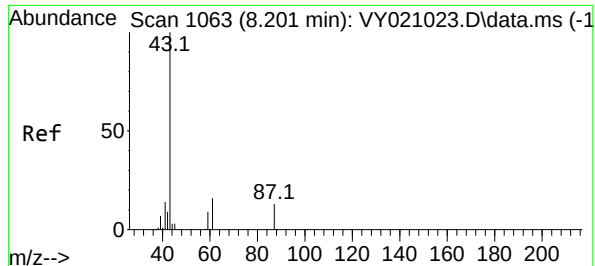
Tgt Ion: 62 Resp: 108251

Ion Ratio Lower Upper

62 100

98 9.3 0.0 19.4





#43

Isopropyl Acetate

Concen: 66.087 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

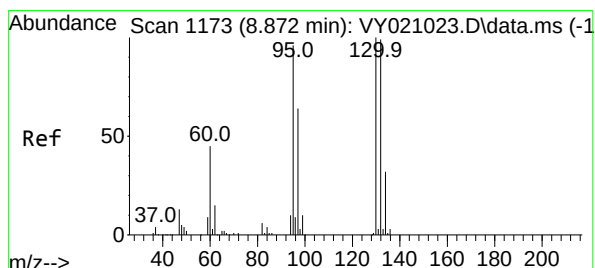
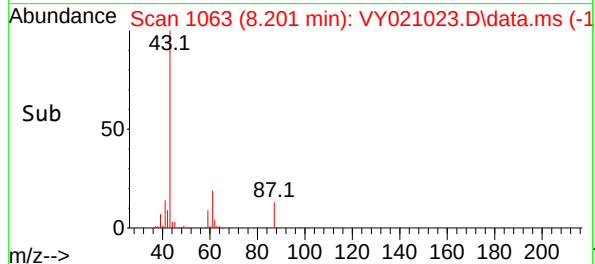
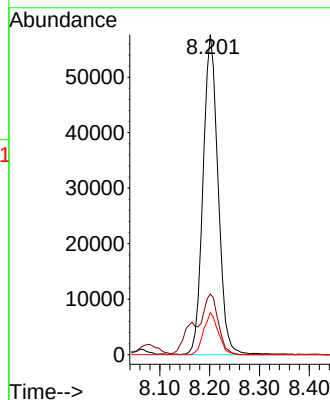
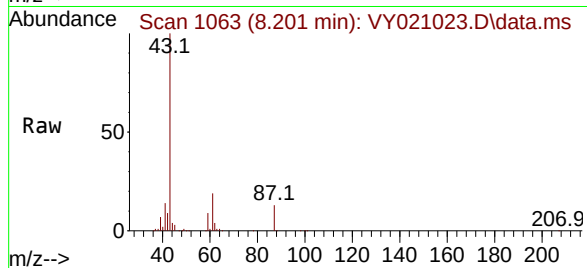
VSTDICCC050

Tgt Ion:	43	Resp:	120630
Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.8	23.6
87	12.8	12.5	18.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#44

Trichloroethene

Concen: 50.121 ug/l

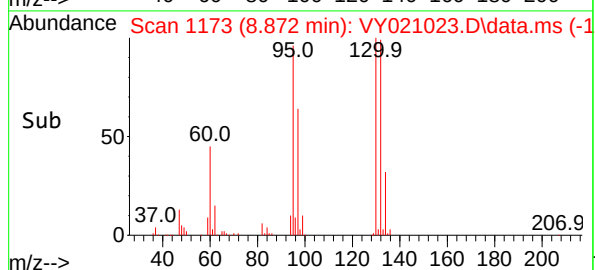
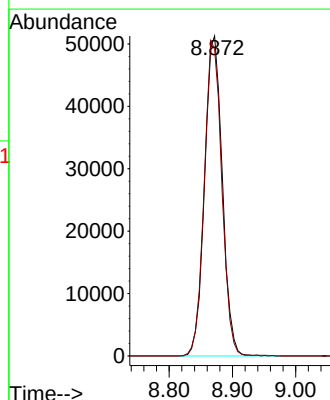
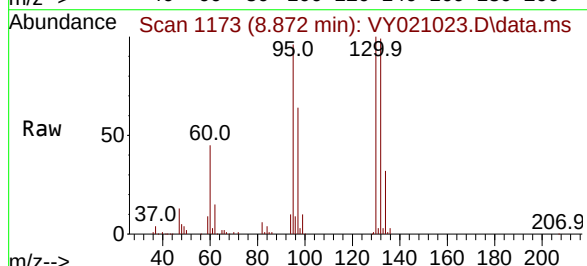
RT: 8.872 min Scan# 1173

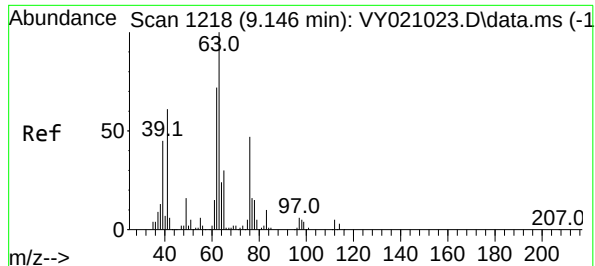
Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Tgt Ion:	130	Resp:	99733
Ion	Ratio	Lower	Upper
130	100		
95	95.9	0.0	189.6





#45

1,2-Dichloropropane

Concen: 57.754 ug/l

RT: 9.146 min Scan# 1218

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 9334

Ion Ratio Lower Upper

63 100

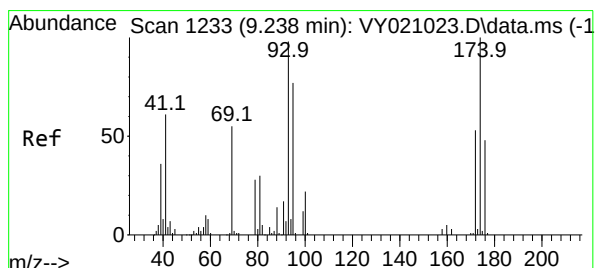
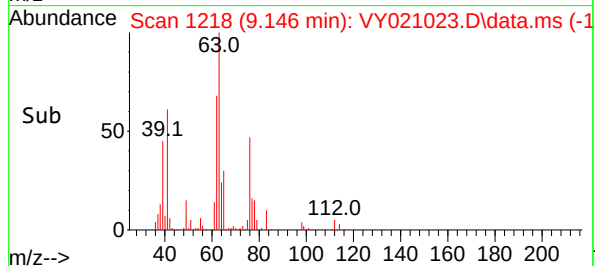
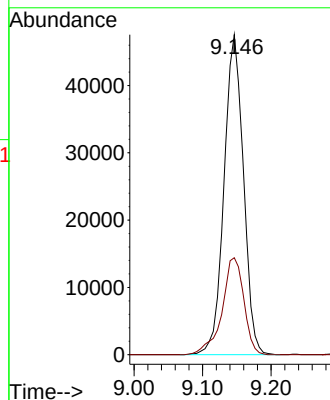
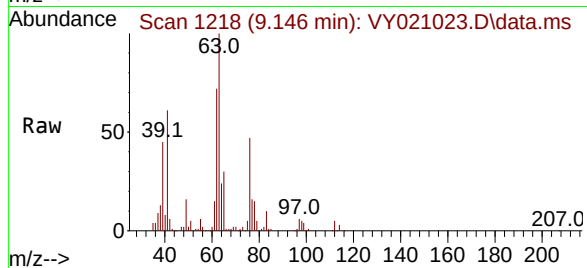
65 30.3 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#46

Dibromomethane

Concen: 55.001 ug/l

RT: 9.238 min Scan# 1233

Delta R.T. 0.007 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

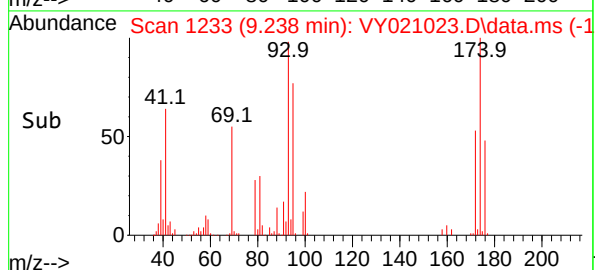
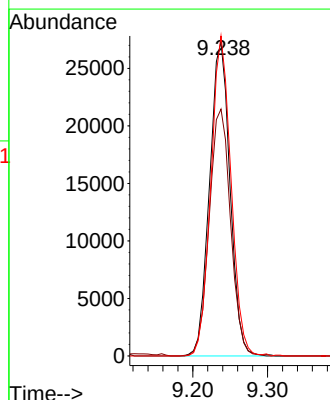
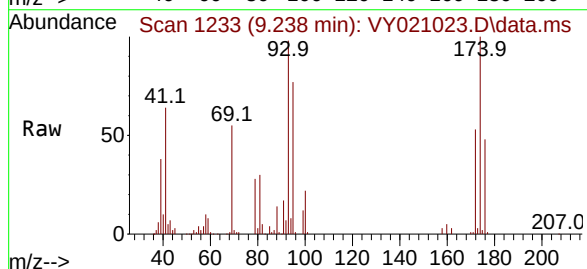
Tgt Ion: 93 Resp: 51734

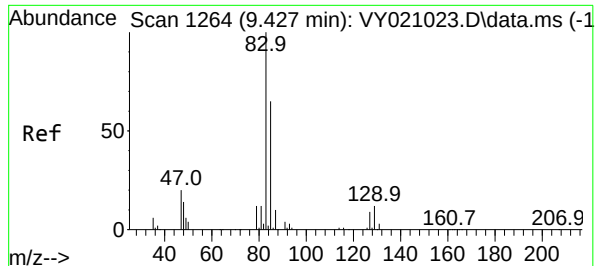
Ion Ratio Lower Upper

93 100

95 82.0 65.8 98.8

174 100.9 88.1 132.1





#47

Bromodichloromethane

Concen: 55.807 ug/l

RT: 9.427 min Scan# 1264

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

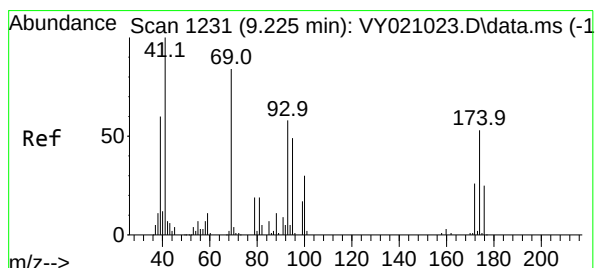
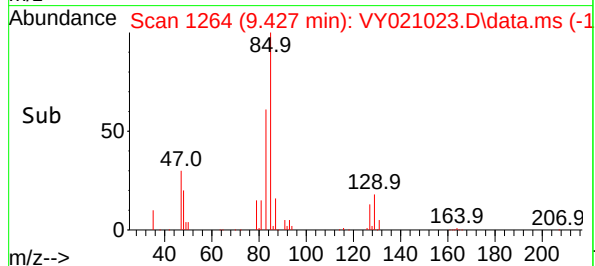
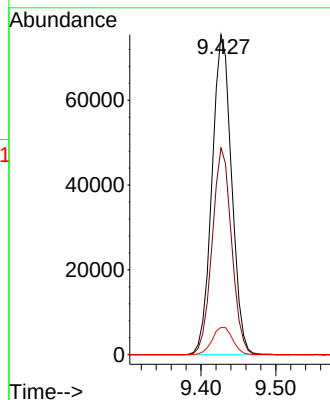
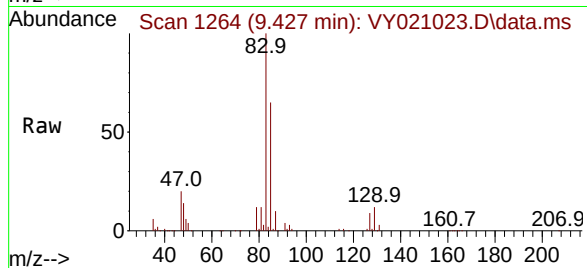
ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	13785
Ion	Ratio	Lower	Upper
83	100		
85	64.6	49.6	74.4
127	8.5	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#48

Methyl methacrylate

Concen: 63.113 ug/l

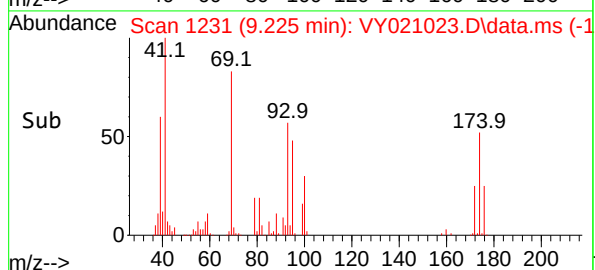
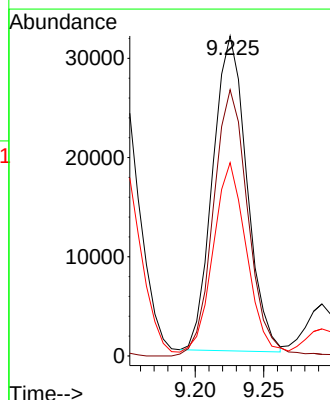
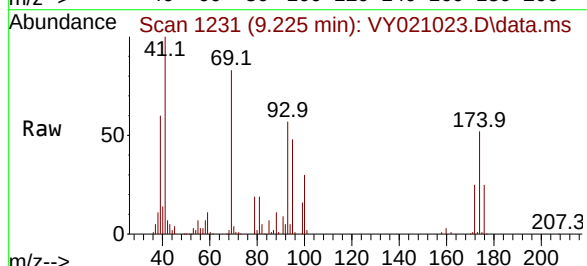
RT: 9.225 min Scan# 1231

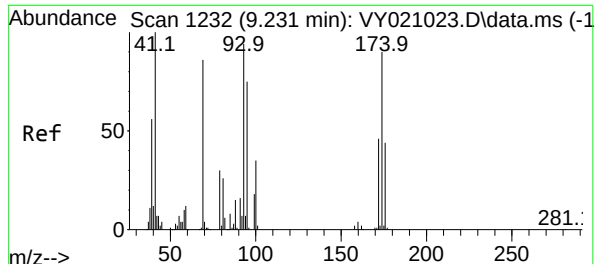
Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Tgt Ion:	41	Resp:	54848
Ion	Ratio	Lower	Upper
41	100		
69	87.0	75.6	113.4
39	58.6	41.3	61.9





#49

1,4-Dioxane

Concen: 1003.514 ug/l

RT: 9.231 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 10030

Ion Ratio Lower Upper

88 100

43 40.4 24.2 36.4

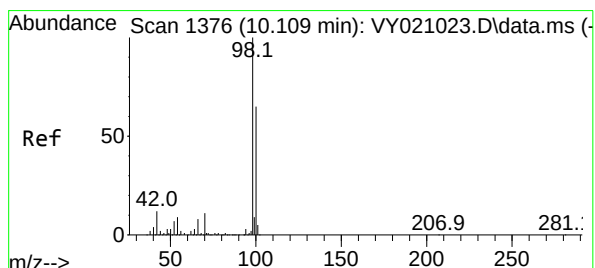
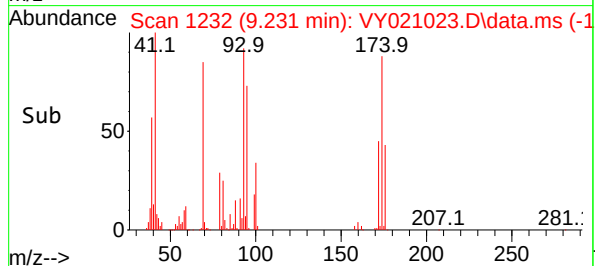
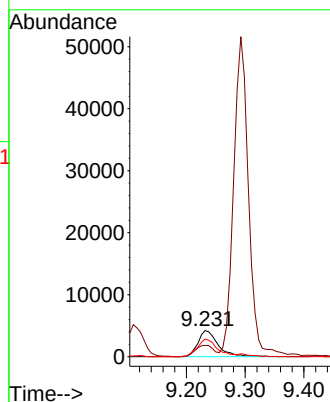
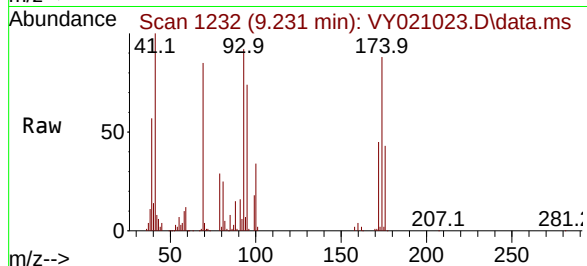
58 67.0 57.3 85.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#50

Toluene-d8

Concen: 51.243 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.001 min

Lab File: VY021023.D

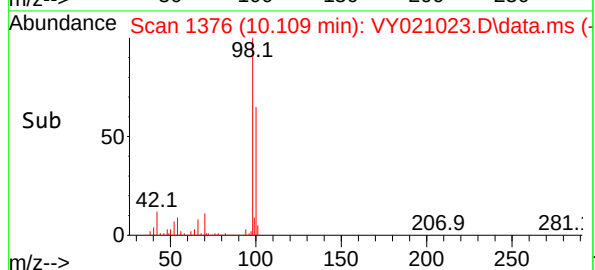
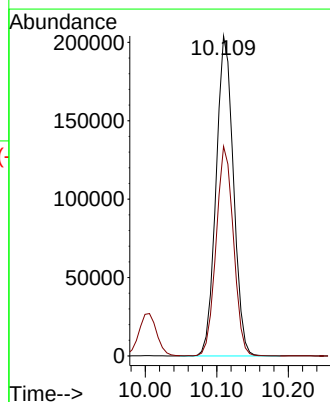
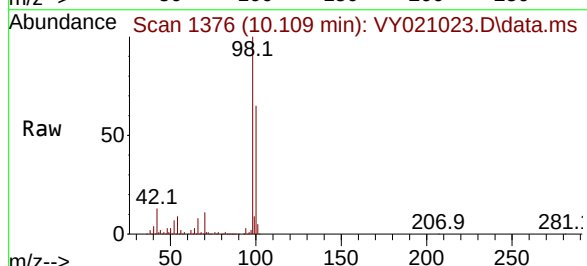
Acq: 03 Feb 2025 11:43

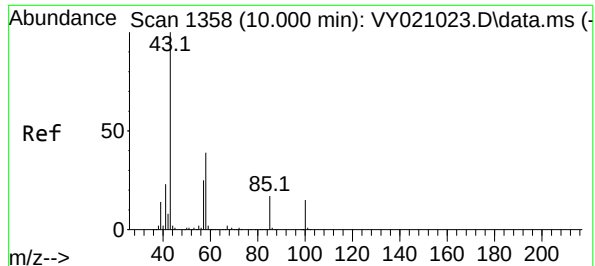
Tgt Ion: 98 Resp: 343592

Ion Ratio Lower Upper

98 100

100 65.5 52.6 79.0





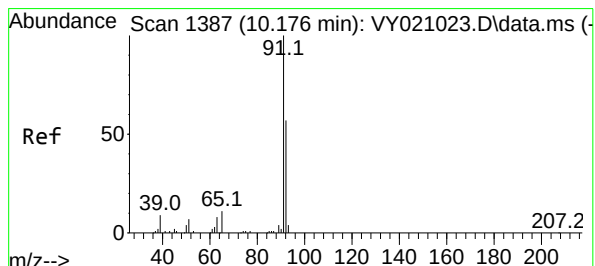
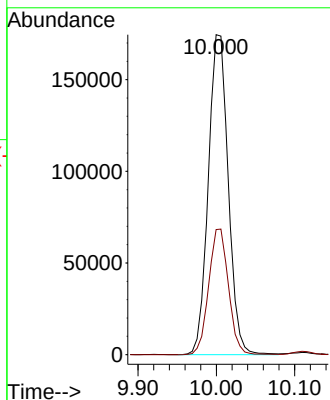
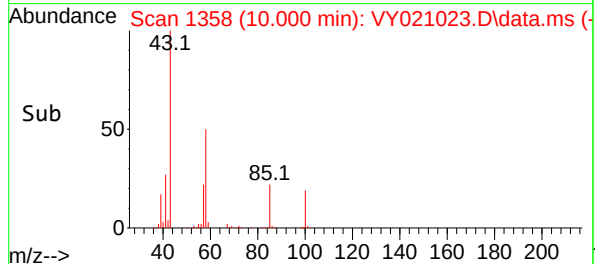
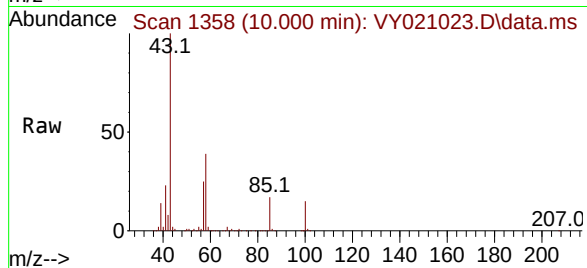
#51
4-Methyl-2-Pentanone
Concen: 329.038 ug/l
RT: 10.000 min Scan# 1358
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 308610
Ion Ratio Lower Upper
43 100
58 39.0 33.8 50.8

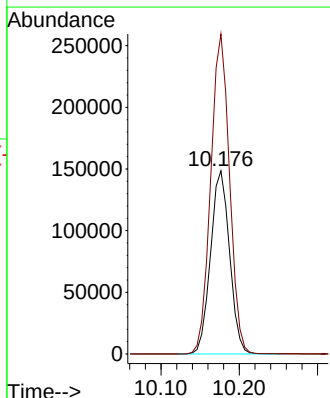
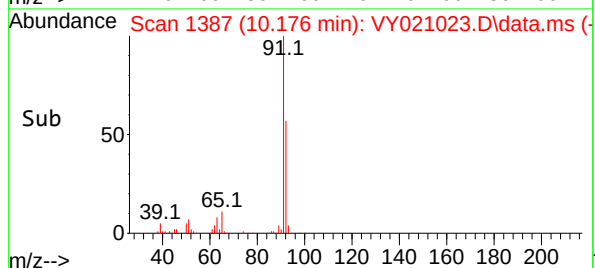
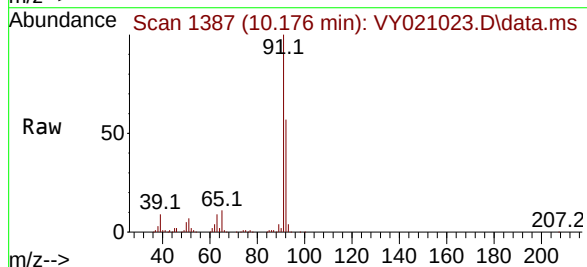
Manual Integrations
APPROVED

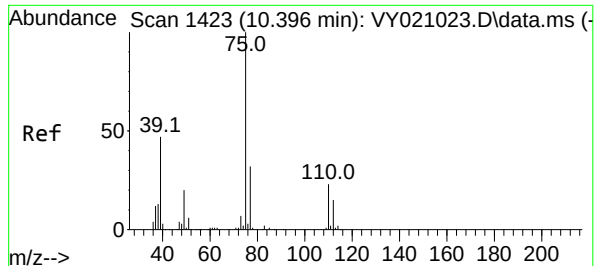
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#52
Toluene
Concen: 53.469 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

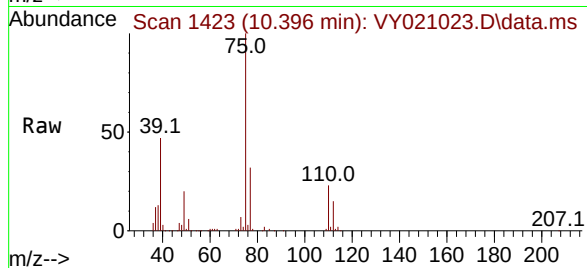
Tgt Ion: 92 Resp: 250280
Ion Ratio Lower Upper
92 100
91 173.3 135.8 203.8





#53
t-1,3-Dichloropropene
Concen: 57.403 ug/l
RT: 10.396 min Scan# 1423
Delta R.T. 0.000 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

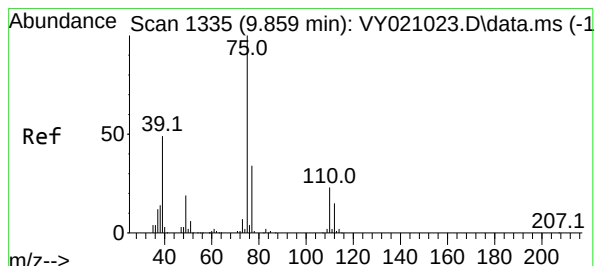
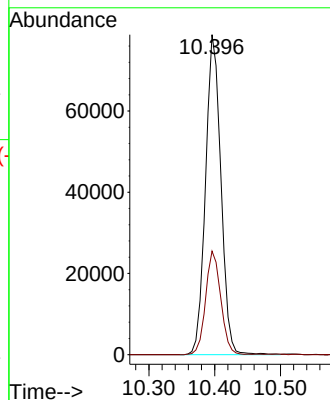
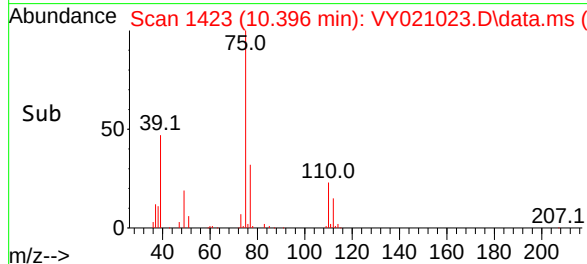
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050



Tgt Ion: 75 Resp: 128314
Ion Ratio Lower Upper
75 100
77 32.4 25.9 38.9

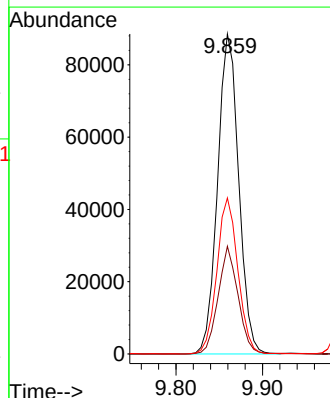
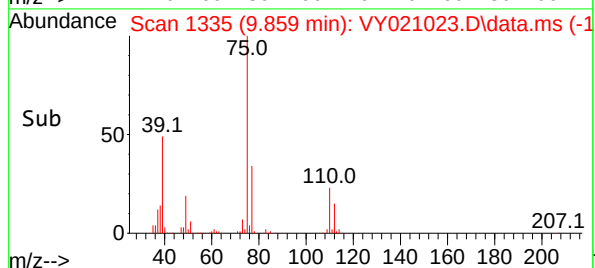
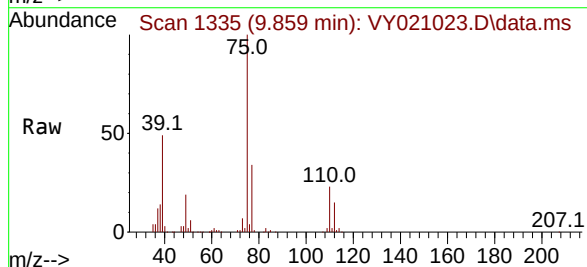
Manual Integrations
APPROVED

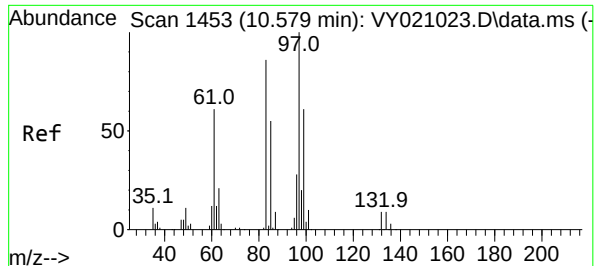
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#54
cis-1,3-Dichloropropene
Concen: 56.133 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion: 75 Resp: 149965
Ion Ratio Lower Upper
75 100
77 33.7 25.4 38.0
39 48.7 32.2 48.2#





#55

1,1,2-Trichloroethane

Concen: 53.761 ug/l

RT: 10.579 min Scan# 1453

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 67249

Ion Ratio Lower Upper

97 100

83 85.8 67.7 101.5

85 54.9 43.4 65.2

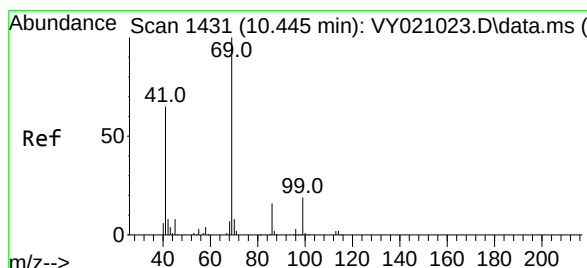
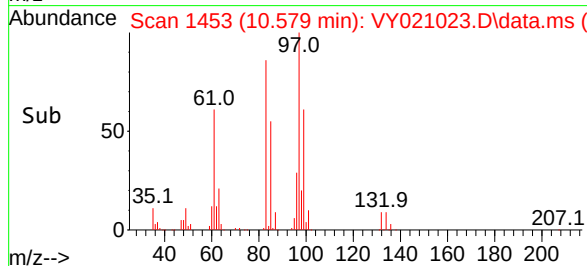
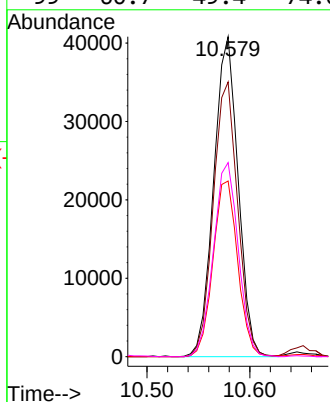
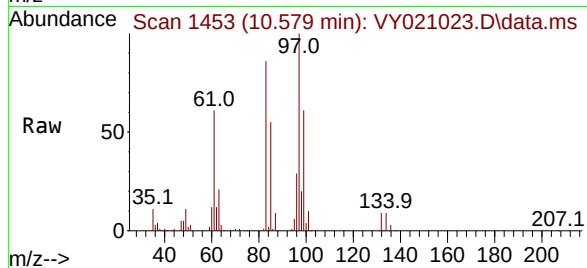
99 60.7 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#56

Ethyl methacrylate

Concen: 59.067 ug/l

RT: 10.445 min Scan# 1431

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

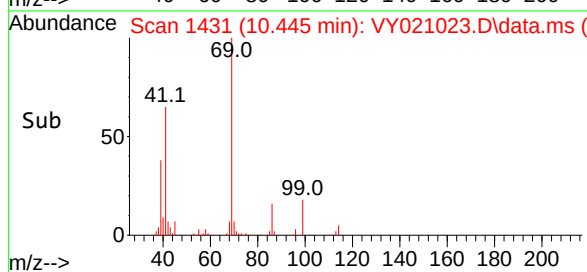
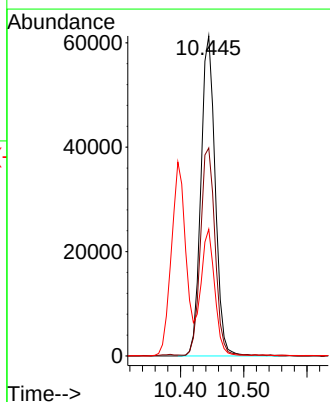
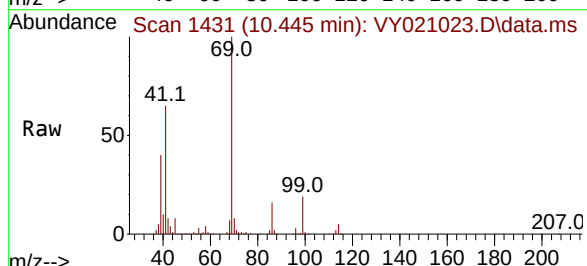
Tgt Ion: 69 Resp: 96579

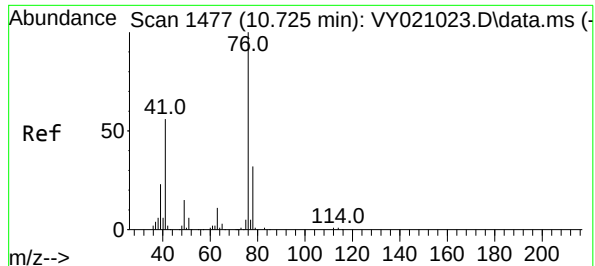
Ion Ratio Lower Upper

69 100

41 65.9 46.3 69.5

39 38.2 24.5 36.7#





#57

1,3-Dichloropropane

Concen: 55.483 ug/l

RT: 10.725 min Scan# 1477

Delta R.T. 0.007 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 117634

Ion Ratio Lower Upper

76 100

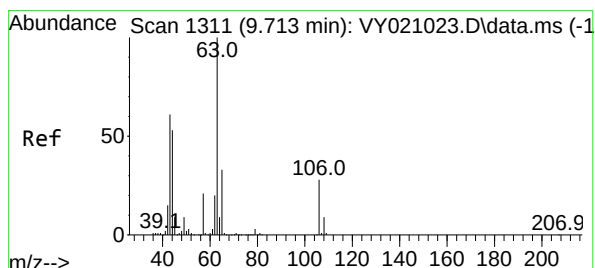
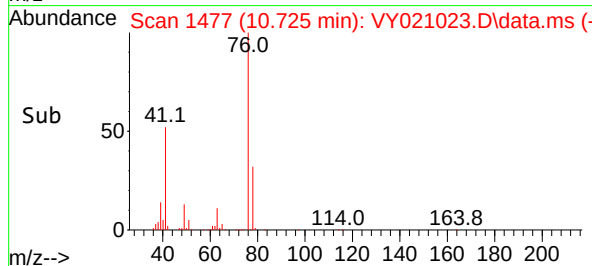
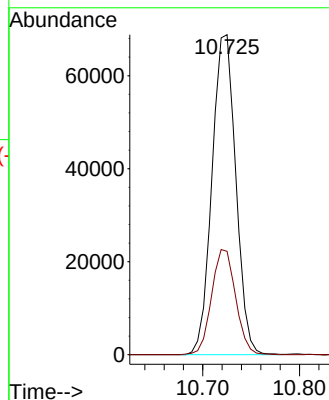
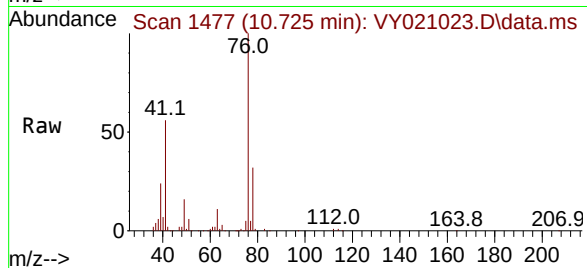
78 33.1 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#58

2-Chloroethyl Vinyl ether

Concen: 322.966 ug/l

RT: 9.713 min Scan# 1311

Delta R.T. 0.001 min

Lab File: VY021023.D

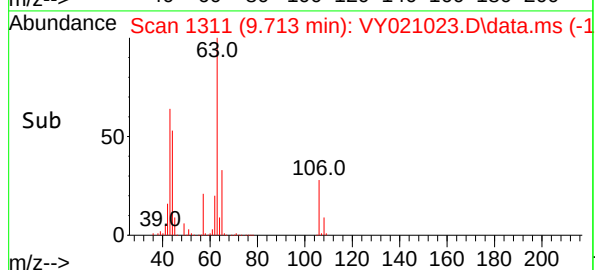
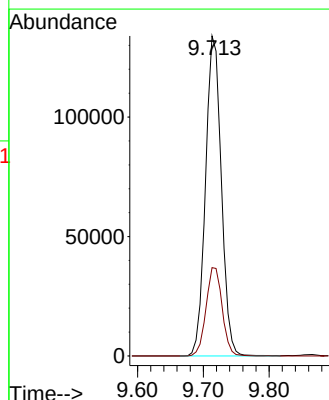
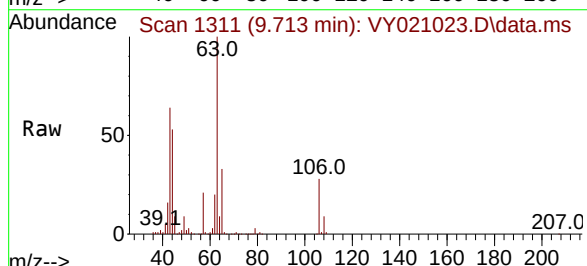
Acq: 03 Feb 2025 11:43

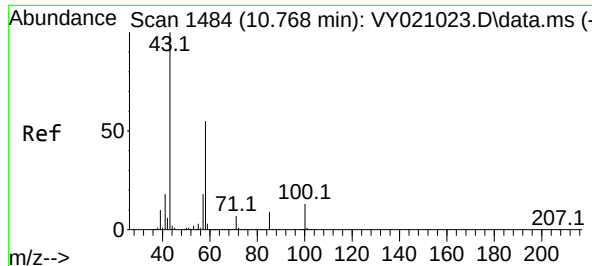
Tgt Ion: 63 Resp: 224134

Ion Ratio Lower Upper

63 100

106 28.1 24.7 37.1





#59

2-Hexanone

Concen: 336.612 ug/l

RT: 10.768 min Scan# 1484

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 20521

Ion Ratio Lower Upper

43 100

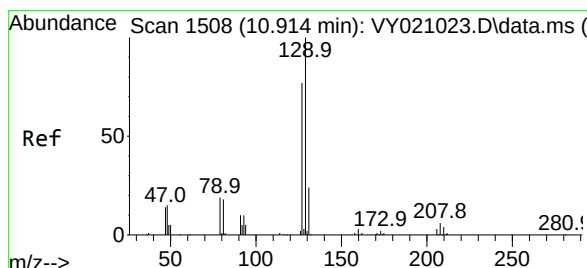
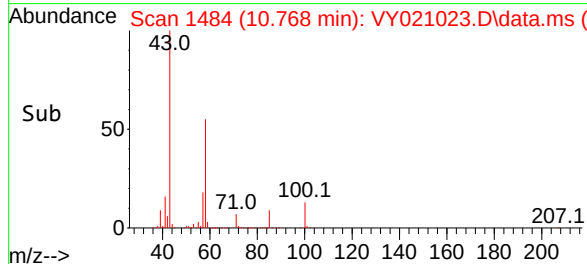
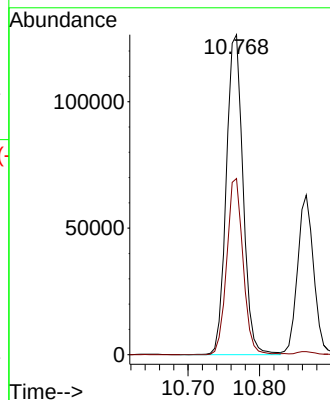
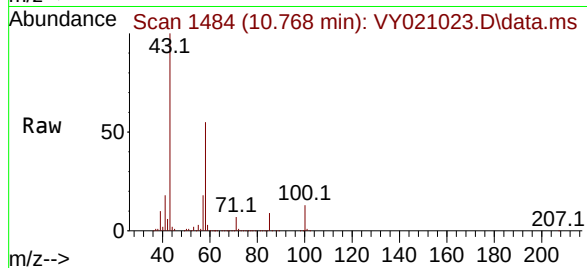
58 53.8 29.8 89.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#60

Dibromochloromethane

Concen: 52.680 ug/l

RT: 10.914 min Scan# 1508

Delta R.T. 0.000 min

Lab File: VY021023.D

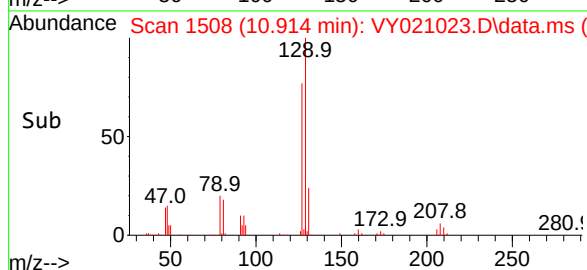
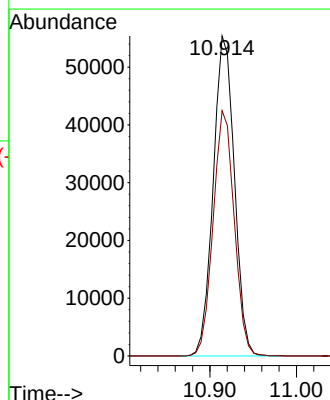
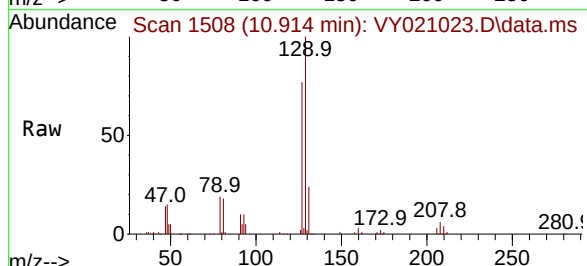
Acq: 03 Feb 2025 11:43

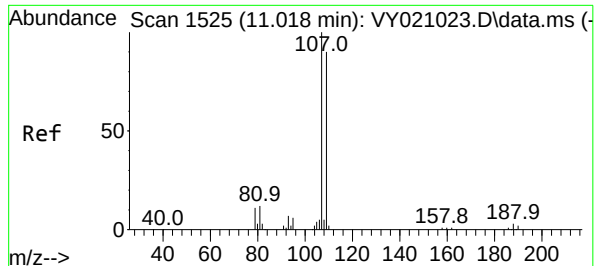
Tgt Ion:129 Resp: 93957

Ion Ratio Lower Upper

129 100

127 76.6 38.5 115.3





#61

1,2-Dibromoethane

Concen: 53.845 ug/l

RT: 11.018 min Scan# 1525

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:107 Resp: 6433

Ion Ratio Lower Upper

107 100

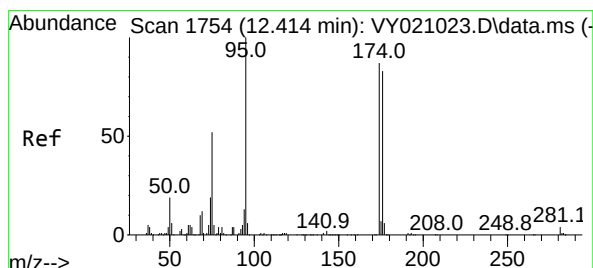
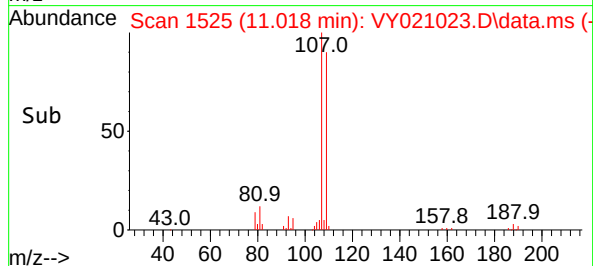
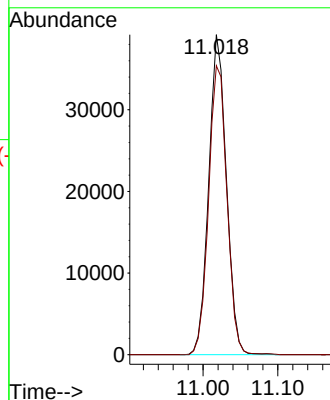
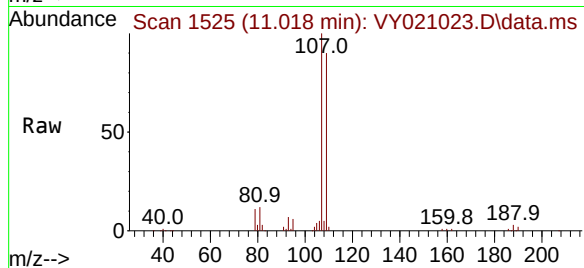
109 93.7 76.6 114.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#62

4-Bromofluorobenzene

Concen: 51.200 ug/l

RT: 12.414 min Scan# 1754

Delta R.T. 0.007 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

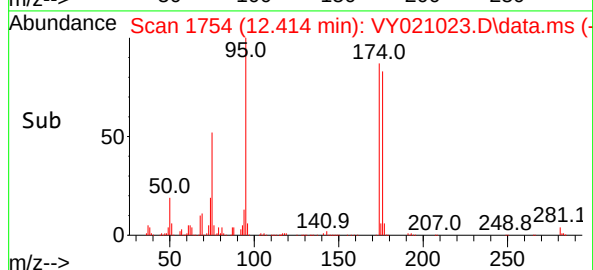
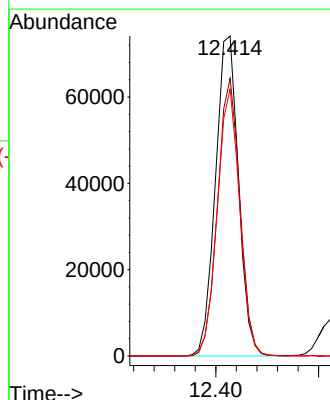
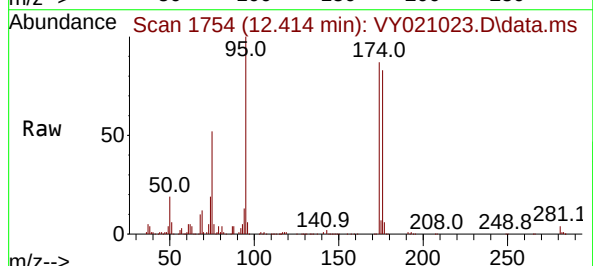
Tgt Ion: 95 Resp: 115197

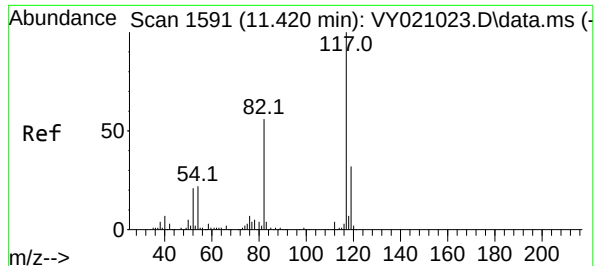
Ion Ratio Lower Upper

95 100

174 84.2 0.0 181.2

176 81.5 0.0 175.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 250150

Ion Ratio Lower Upper

117 100

82 56.3 44.2 66.2

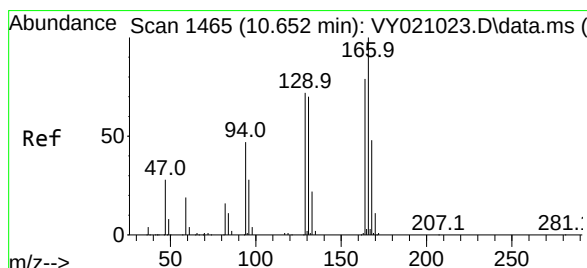
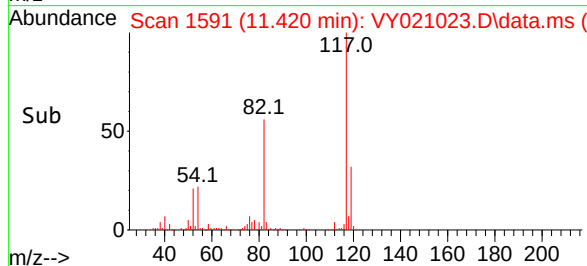
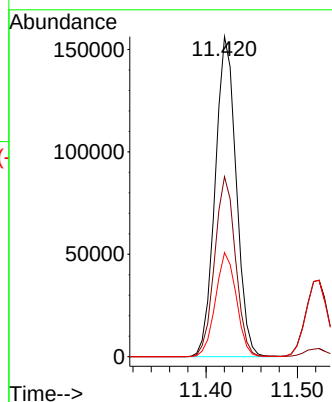
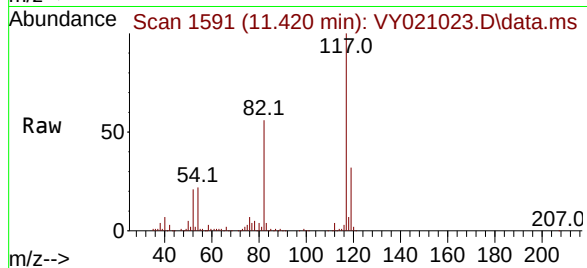
119 32.5 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#64

Tetrachloroethene

Concen: 47.817 ug/l

RT: 10.652 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Tgt Ion:164 Resp: 90228

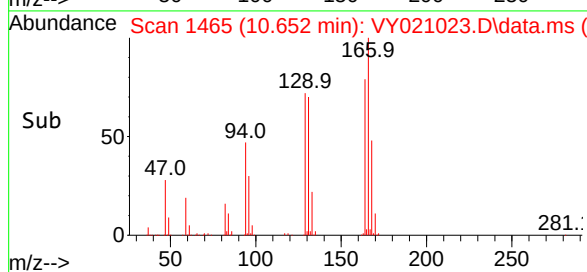
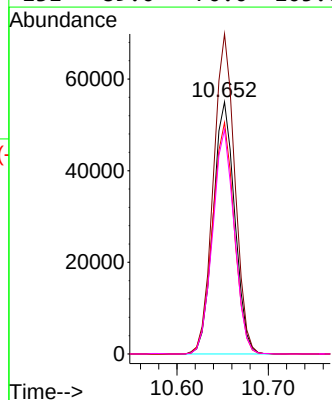
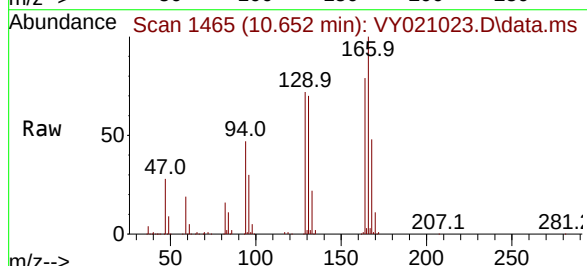
Ion Ratio Lower Upper

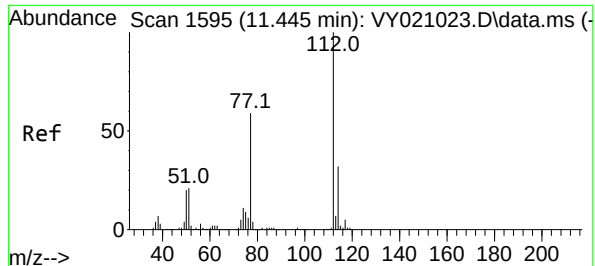
164 100

166 127.0 100.4 150.6

129 91.8 70.8 106.2

131 89.0 70.0 105.0





#65

Chlorobenzene

Concen: 51.263 ug/l

RT: 11.445 min Scan# 1595

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 270170

Ion Ratio Lower Upper

112 100

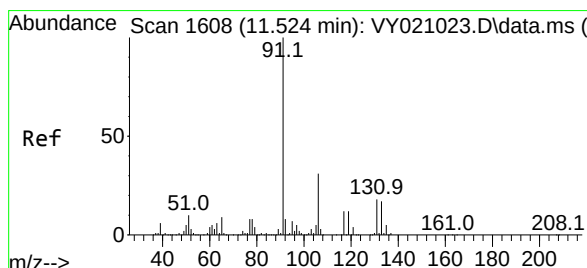
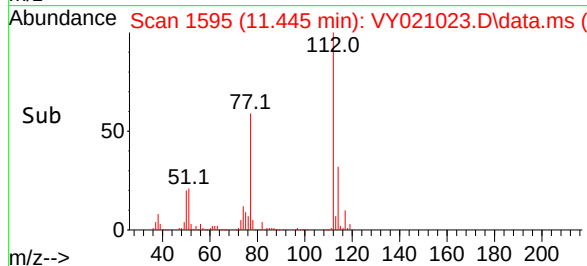
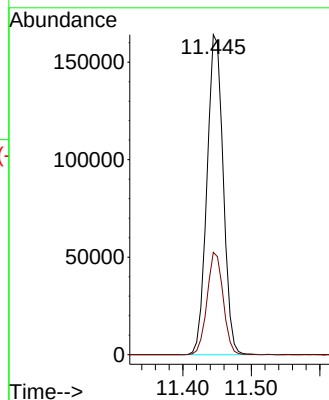
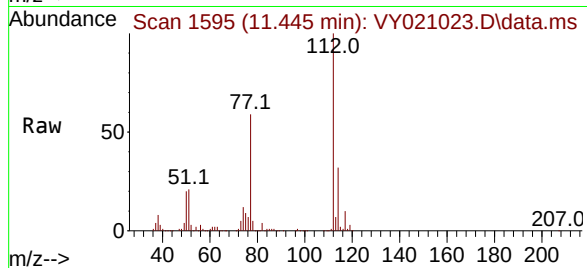
114 32.0 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 51.137 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

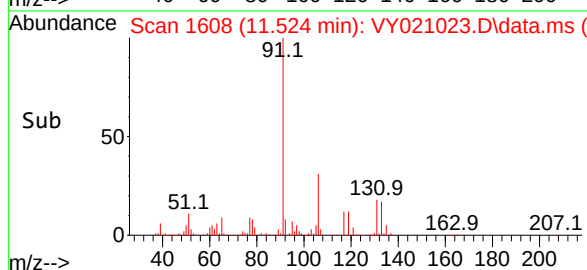
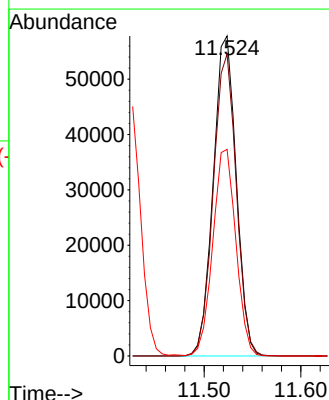
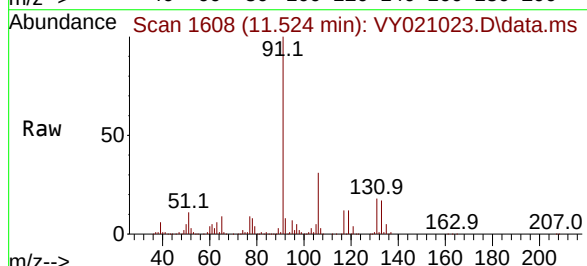
Tgt Ion:131 Resp: 95653

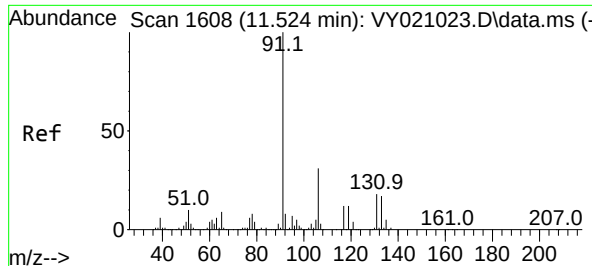
Ion Ratio Lower Upper

131 100

133 94.4 48.7 146.1

119 64.7 31.4 94.3





#67

Ethyl Benzene

Concen: 53.265 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 486059

Ion Ratio Lower Upper

91 100

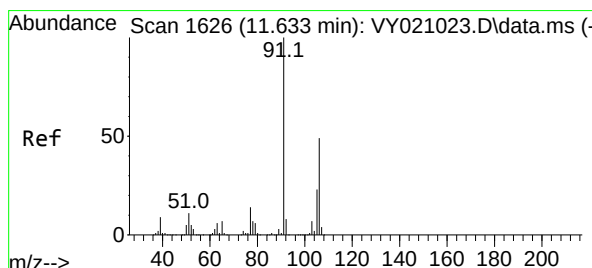
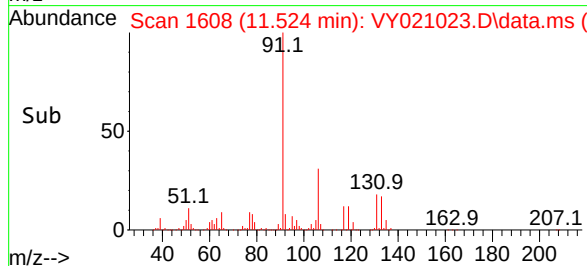
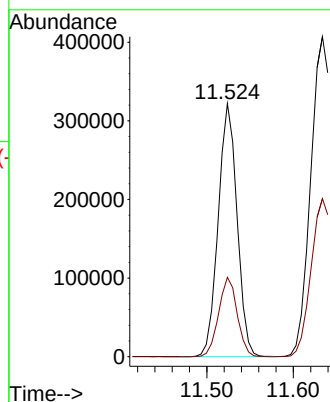
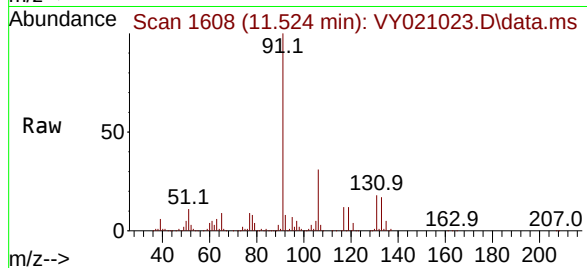
106 31.3 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#68

m/p-Xylenes

Concen: 104.538 ug/l

RT: 11.633 min Scan# 1626

Delta R.T. 0.000 min

Lab File: VY021023.D

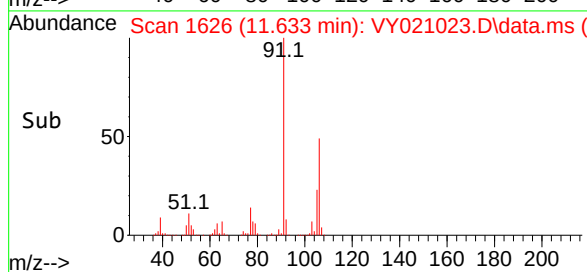
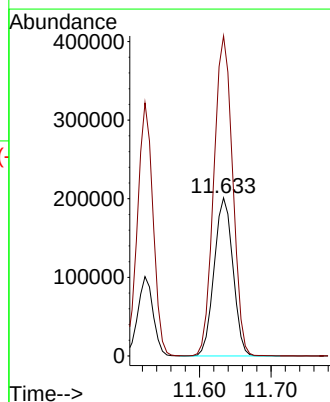
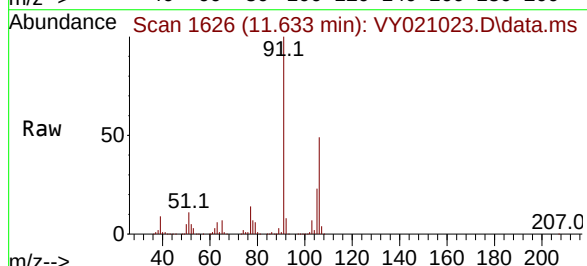
Acq: 03 Feb 2025 11:43

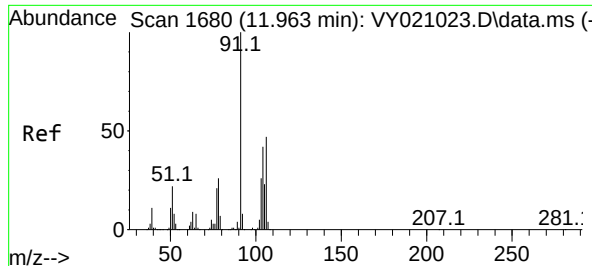
Tgt Ion:106 Resp: 366509

Ion Ratio Lower Upper

106 100

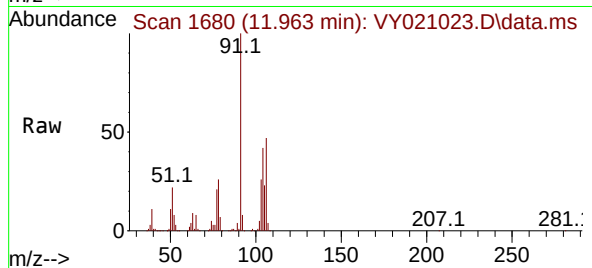
91 203.4 160.0 240.0





#69
o-Xylene
Concen: 52.229 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.007 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

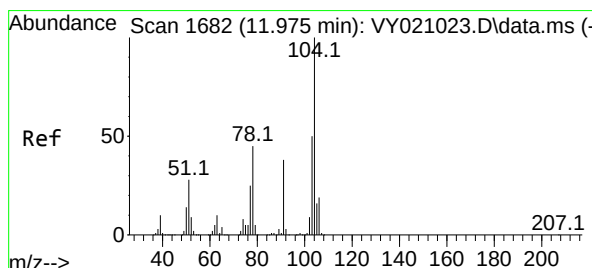
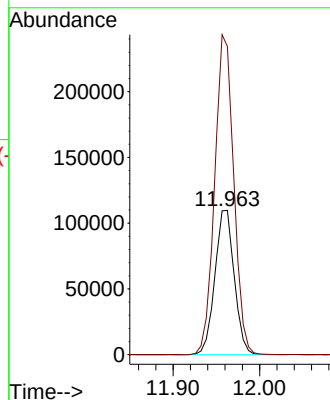
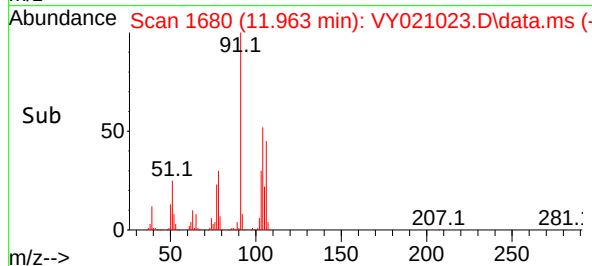
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050



Tgt Ion:106 Resp: 170229
Ion Ratio Lower Upper
106 100
91 218.8 105.8 317.6

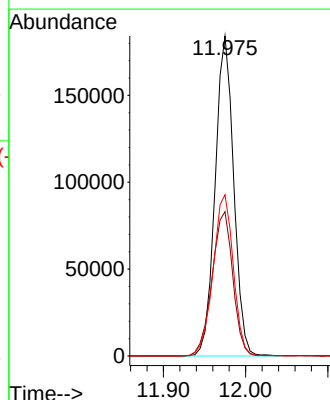
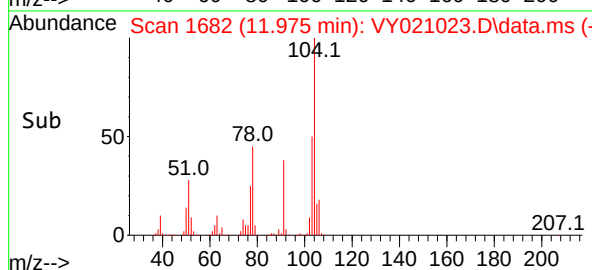
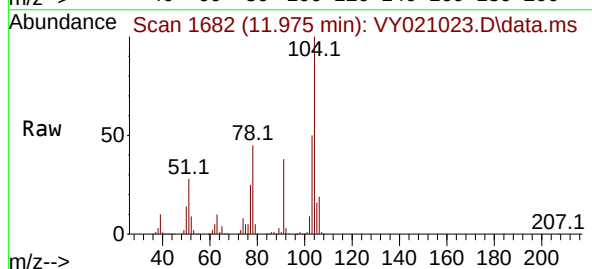
Manual Integrations
APPROVED

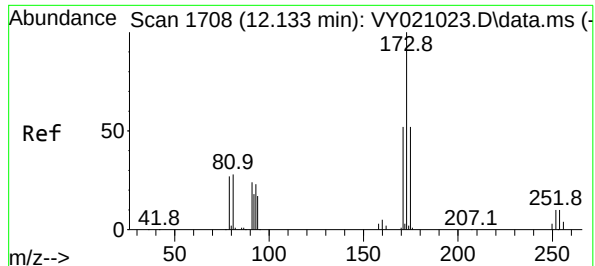
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#70
Styrene
Concen: 53.426 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion:104 Resp: 289102
Ion Ratio Lower Upper
104 100
78 50.6 39.0 58.4
103 55.0 43.7 65.5





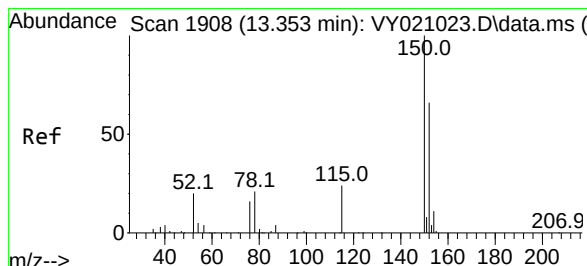
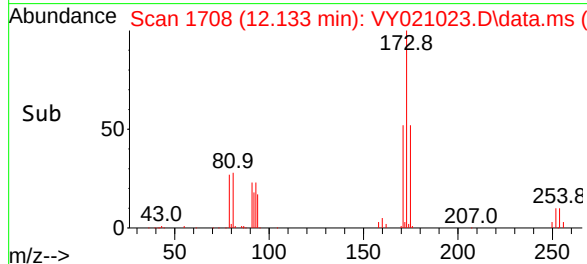
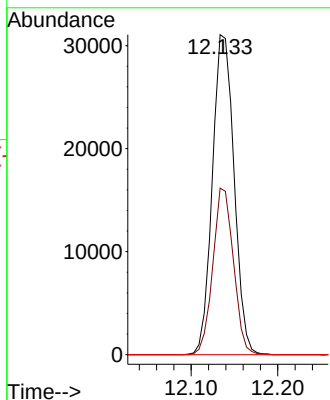
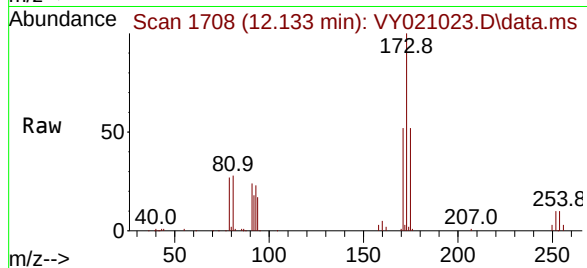
#71
Bromoform
Concen: 49.101 ug/l
RT: 12.133 min Scan# 1708
Delta R.T. -0.006 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 54130
Ion Ratio Lower Upper
173 100
175 49.5 24.1 72.2
254 0.0 0.0 0.0

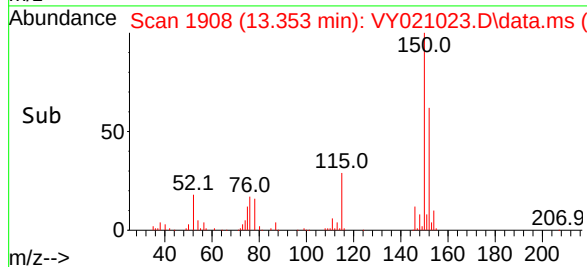
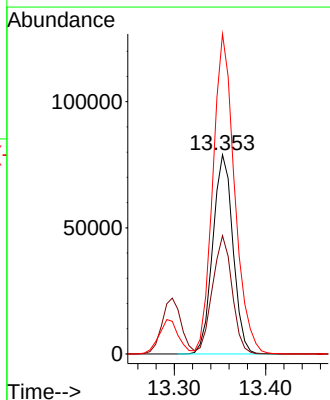
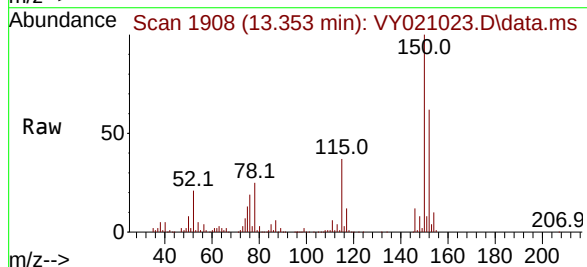
Manual Integrations
APPROVED

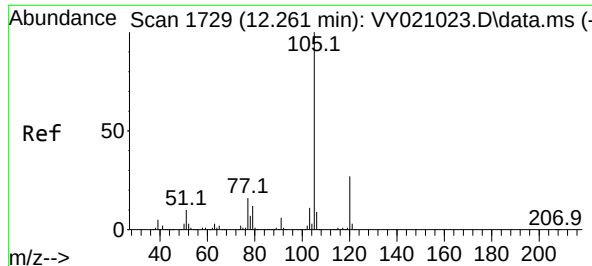
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion:152 Resp: 121069
Ion Ratio Lower Upper
152 100
115 57.9 28.4 85.2
150 172.6 0.0 342.8





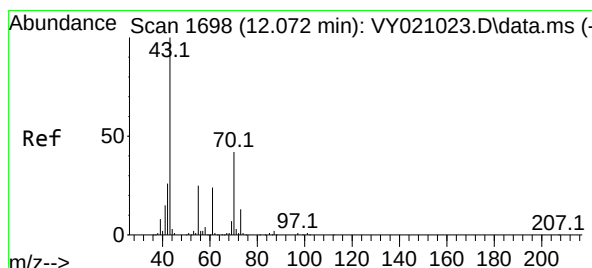
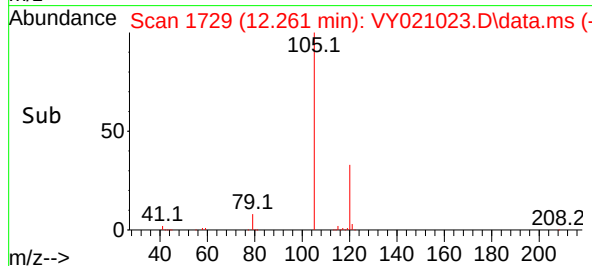
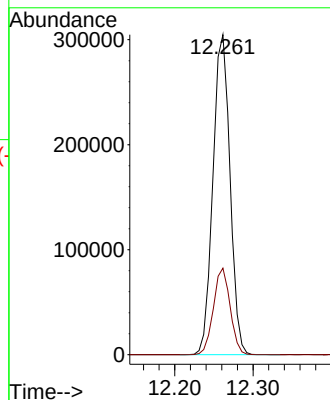
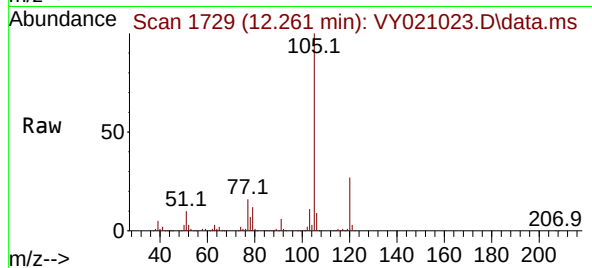
#73
Isopropylbenzene
Concen: 54.240 ug/l
RT: 12.261 min Scan# 1729
Delta R.T. 0.001 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 461198
Ion Ratio Lower Upper
105 100
120 26.5 13.4 40.2

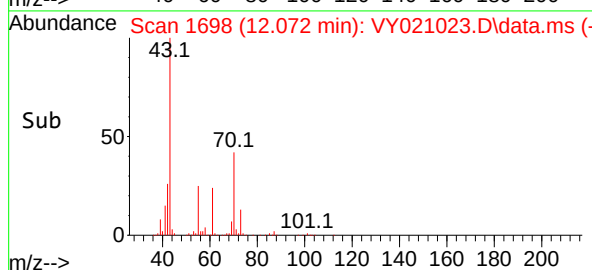
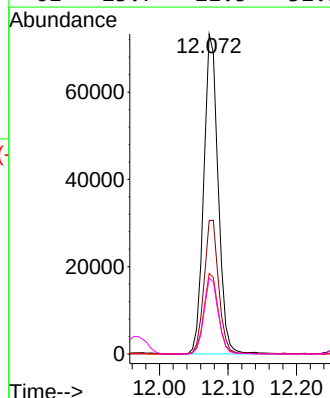
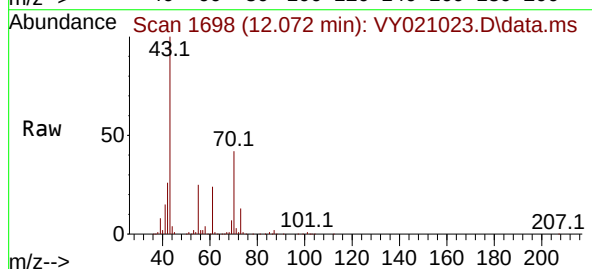
Manual Integrations
APPROVED

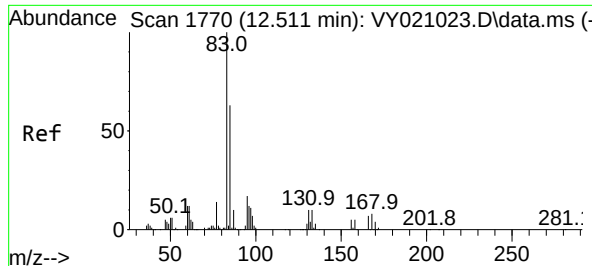
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#74
N-ethyl acetate
Concen: 69.346 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.006 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion: 43 Resp: 107371
Ion Ratio Lower Upper
43 100
70 42.3 39.3 58.9
55 25.3 22.3 33.5
61 23.7 21.5 32.3





#75

1,1,2,2-Tetrachloroethane

Concen: 55.736 ug/l

RT: 12.511 min Scan# 1770

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

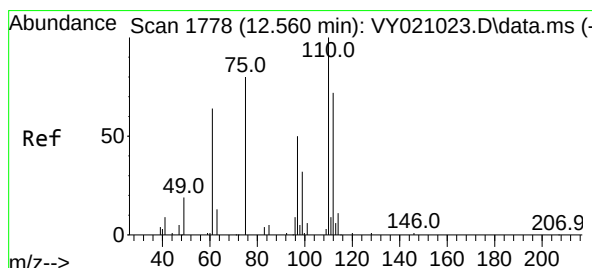
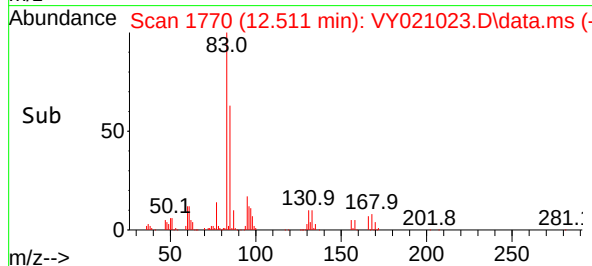
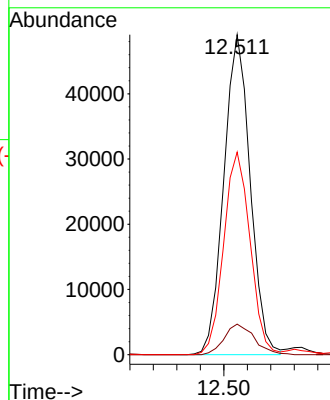
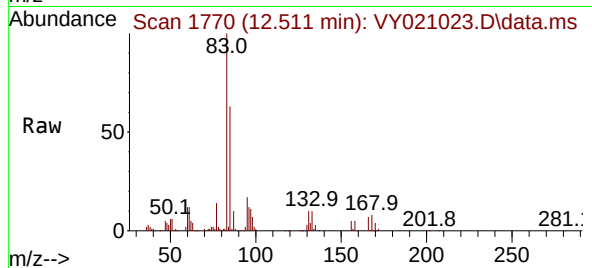
Tgt Ion:	83	Resp:	76500
Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.7	17.1
85	63.4	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#76

1,2,3-Trichloropropane

Concen: 58.330 ug/l m

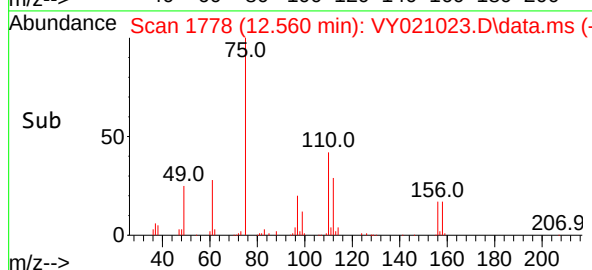
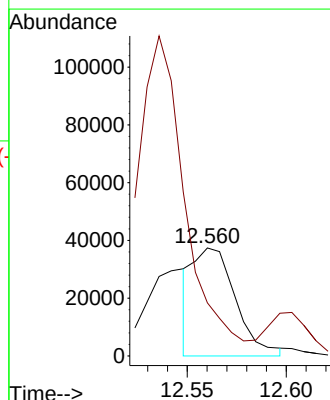
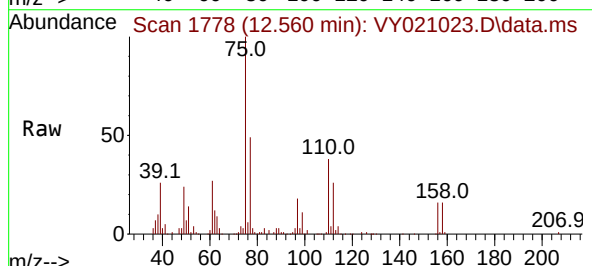
RT: 12.560 min Scan# 1778

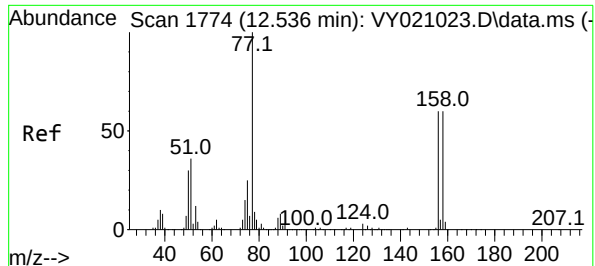
Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Tgt Ion:	75	Resp:	55904
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 51.889 ug/l

RT: 12.536 min Scan# 1774

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:156 Resp: 104609

Ion Ratio Lower Upper

156 100

77 180.1 83.3 249.9

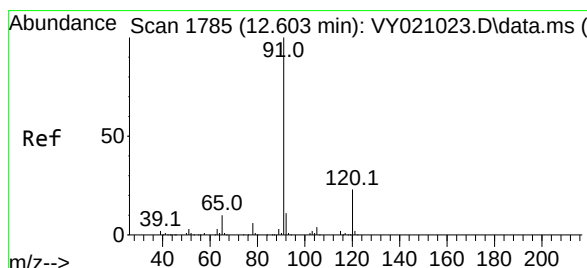
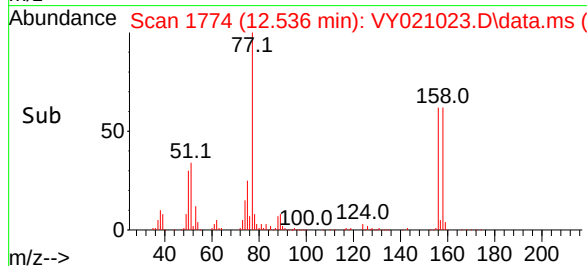
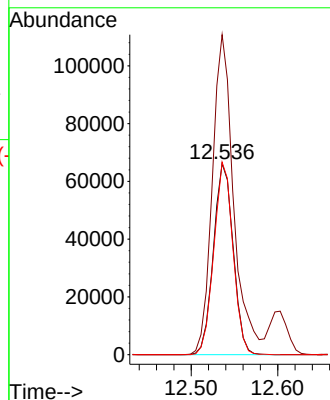
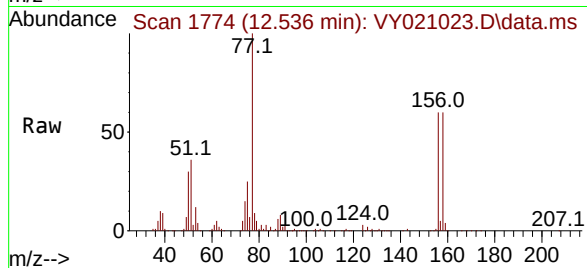
158 97.9 48.3 144.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#78

n-propylbenzene

Concen: 55.653 ug/l

RT: 12.603 min Scan# 1785

Delta R.T. 0.001 min

Lab File: VY021023.D

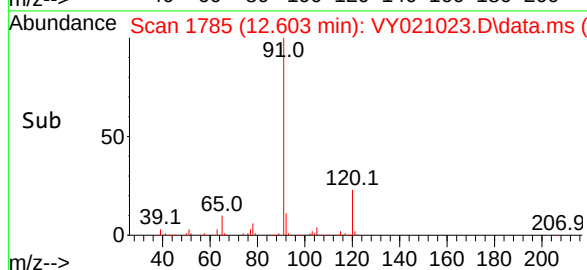
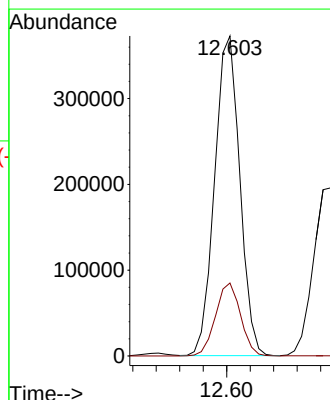
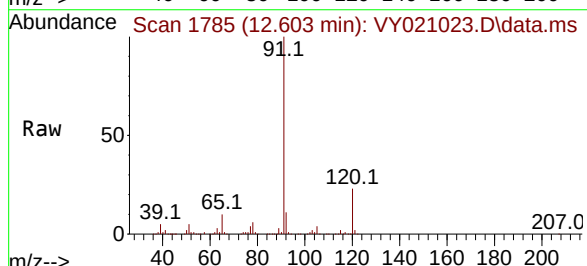
Acq: 03 Feb 2025 11:43

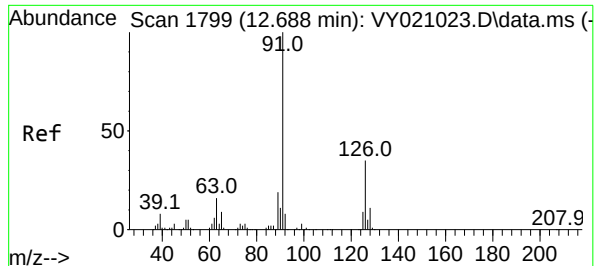
Tgt Ion: 91 Resp: 554600

Ion Ratio Lower Upper

91 100

120 22.7 11.8 35.4





#79

2-Chlorotoluene

Concen: 55.113 ug/l

RT: 12.688 min Scan# 1799

Delta R.T. 0.007 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 31291

Ion Ratio Lower Upper

91 100

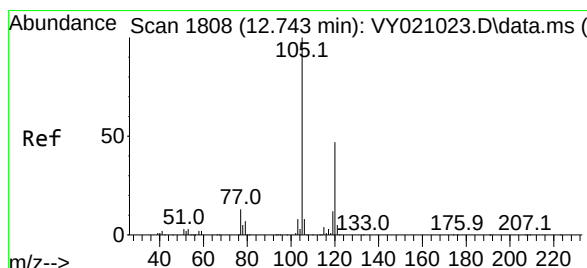
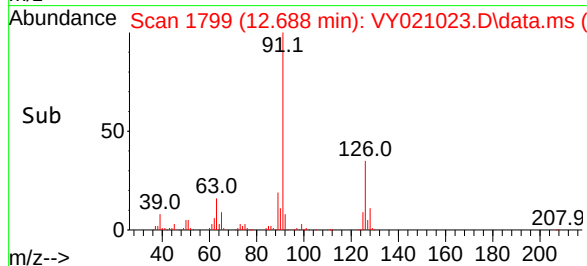
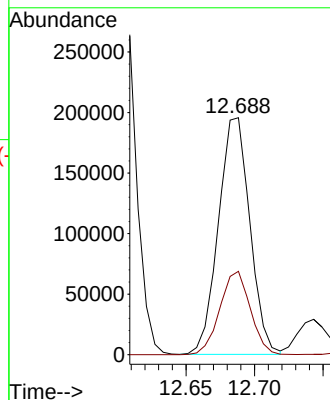
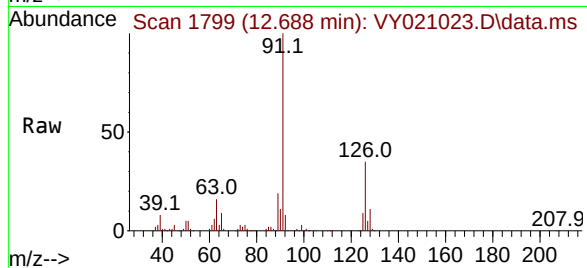
126 34.0 17.3 51.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#80

1,3,5-Trimethylbenzene

Concen: 54.032 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. 0.001 min

Lab File: VY021023.D

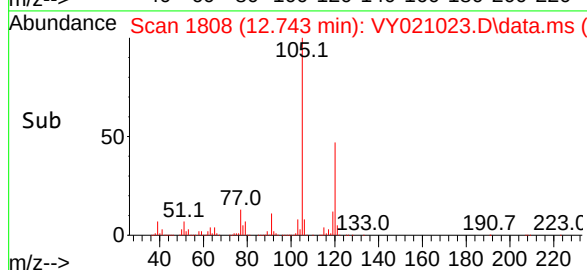
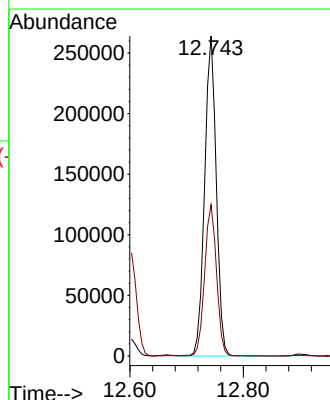
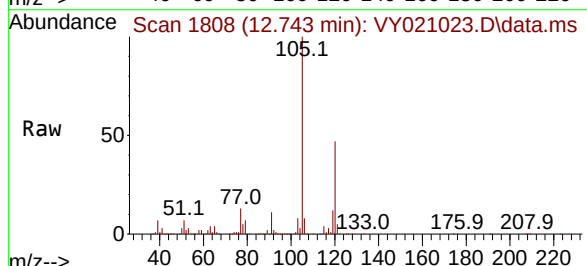
Acq: 03 Feb 2025 11:43

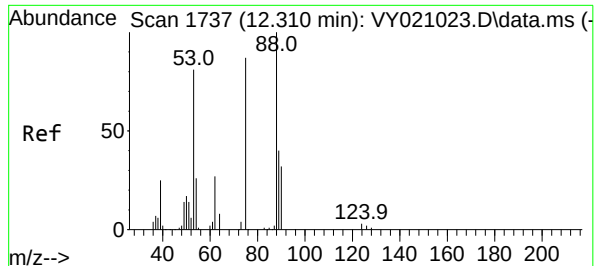
Tgt Ion:105 Resp: 376397

Ion Ratio Lower Upper

105 100

120 48.3 24.3 72.9





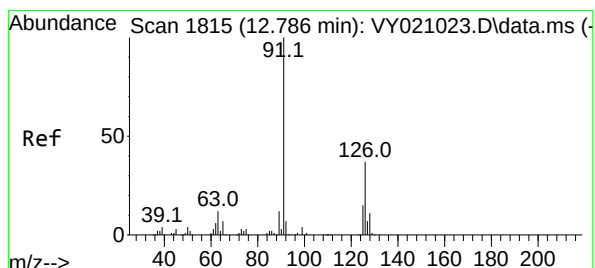
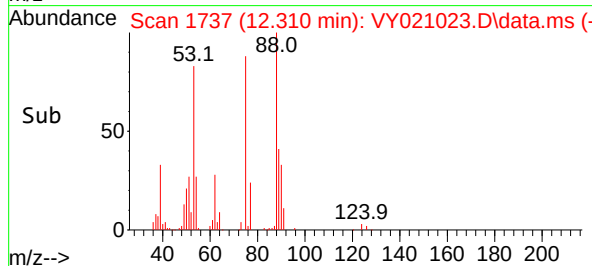
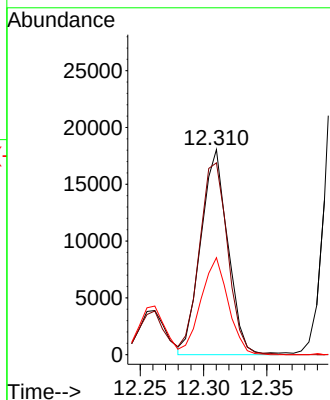
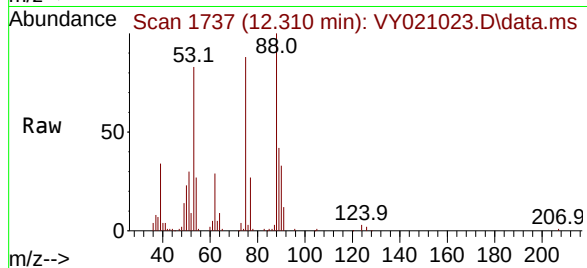
#81
trans-1,4-Dichloro-2-butene
Concen: 58.386 ug/l
RT: 12.310 min Scan# 1737
Delta R.T. 0.007 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:	75	Resp:	2695
Ion Ratio	Lower	Upper	
75	100		
53	97.9	68.6	103.0
89	47.7	38.1	57.1

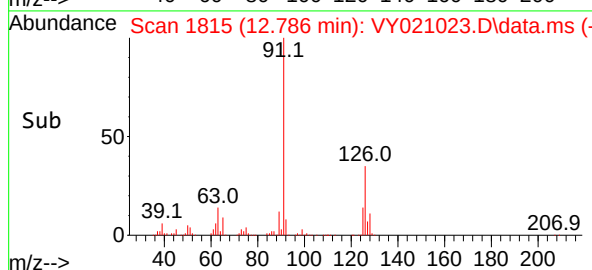
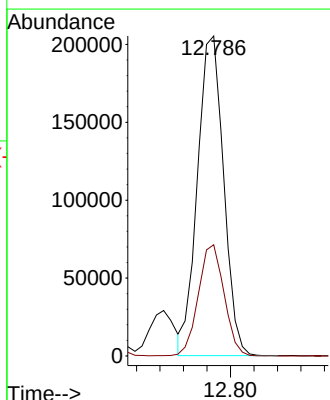
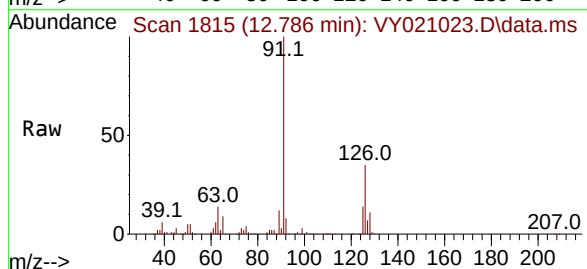
Manual Integrations
APPROVED

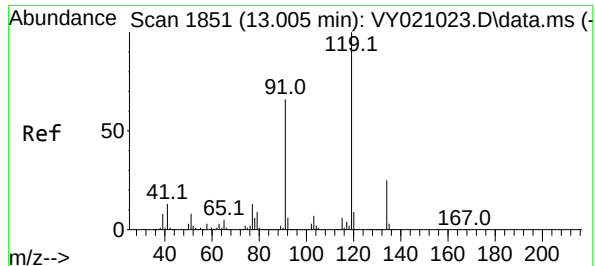
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#82
4-Chlorotoluene
Concen: 54.527 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.007 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion:	91	Resp:	316855
Ion Ratio	Lower	Upper	
91	100		
126	34.4	17.3	52.0





#83

tert-Butylbenzene

Concen: 53.757 ug/l

RT: 13.005 min Scan# 1851

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 34731

Ion Ratio Lower Upper

119 100

91 64.3 31.4 94.0

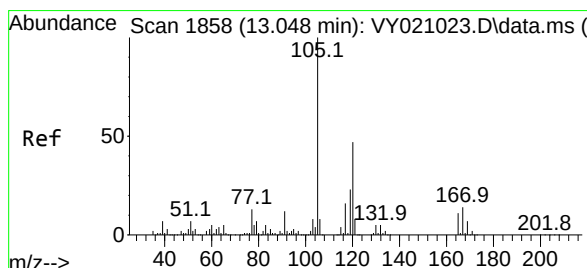
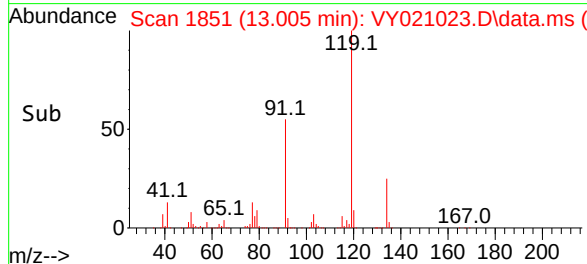
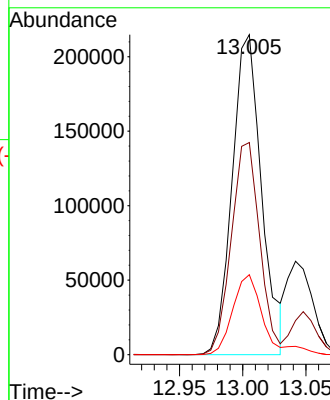
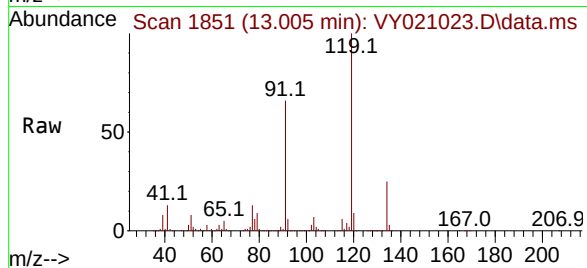
134 26.1 13.1 39.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#84

1,2,4-Trimethylbenzene

Concen: 54.433 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.001 min

Lab File: VY021023.D

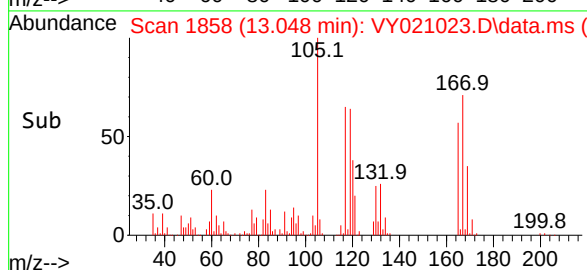
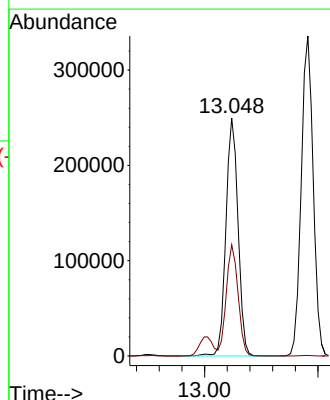
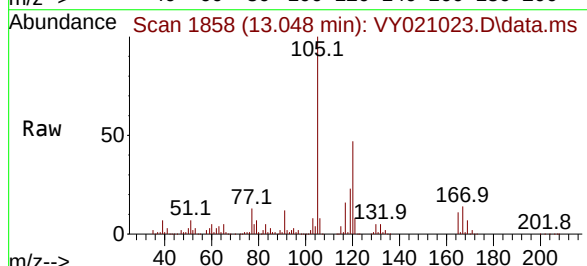
Acq: 03 Feb 2025 11:43

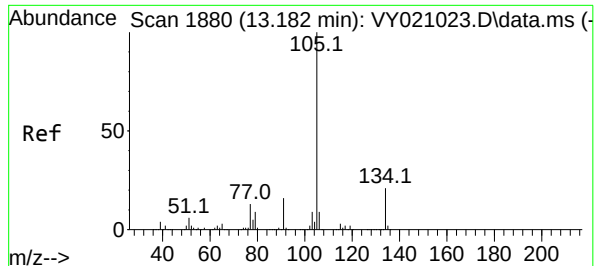
Tgt Ion:105 Resp: 370408

Ion Ratio Lower Upper

105 100

120 45.4 22.7 68.0





#85

sec-Butylbenzene

Concen: 53.440 ug/l

RT: 13.182 min Scan# 1880

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 488820

Ion Ratio Lower Upper

105 100

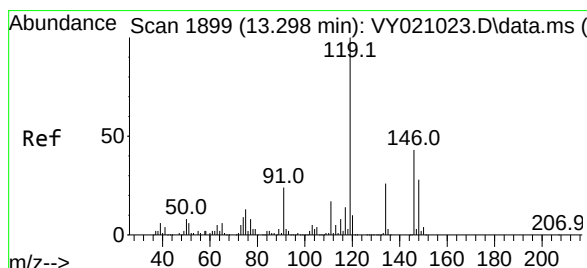
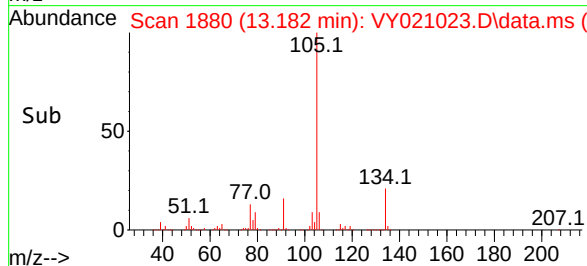
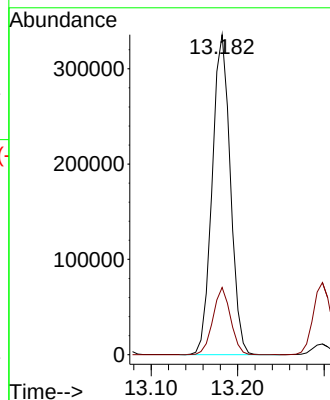
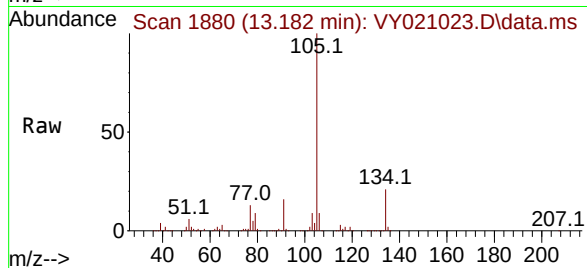
134 20.4 10.3 30.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#86

p-Isopropyltoluene

Concen: 53.878 ug/l

RT: 13.298 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

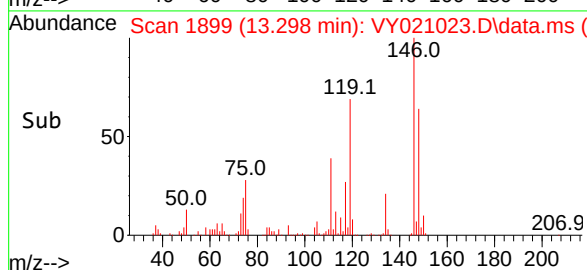
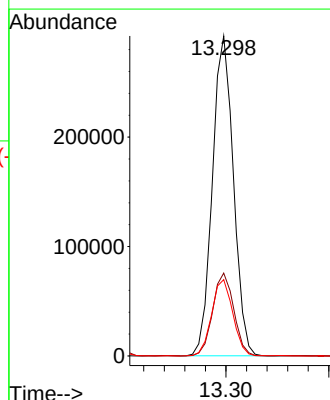
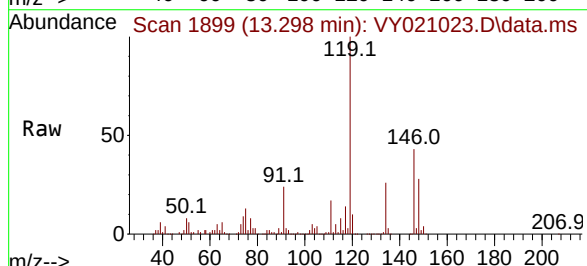
Tgt Ion:119 Resp: 414156

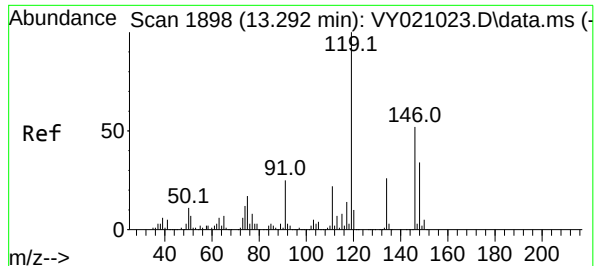
Ion Ratio Lower Upper

119 100

134 26.0 13.1 39.3

91 24.1 11.5 34.5





#87

1,3-Dichlorobenzene

Concen: 51.839 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 20376

Ion Ratio Lower Upper

146 100

111 40.5 19.7 59.1

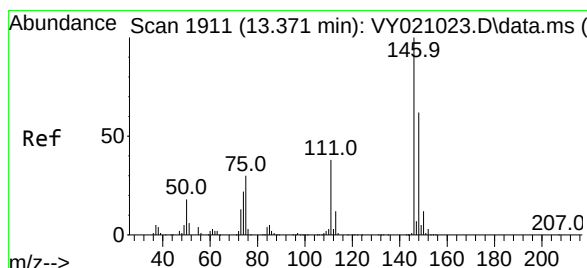
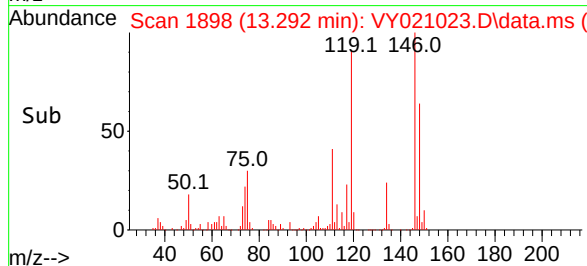
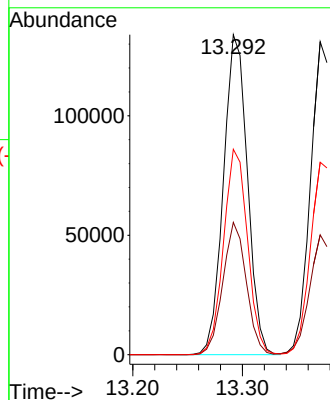
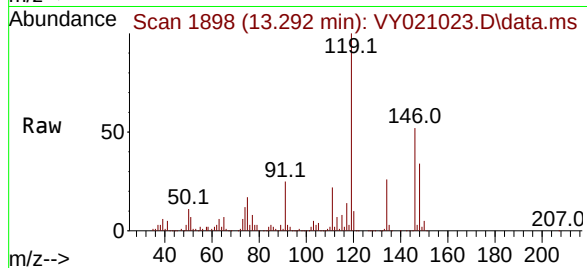
148 64.2 32.1 96.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 51.631 ug/l

RT: 13.371 min Scan# 1911

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

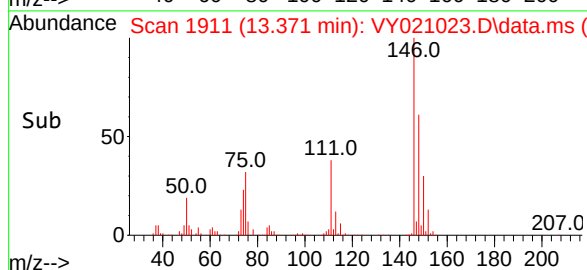
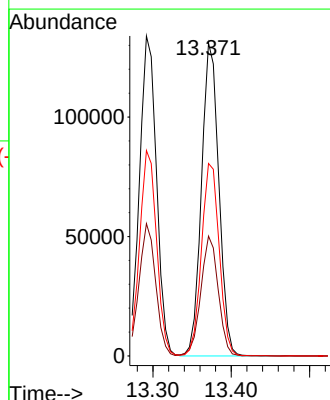
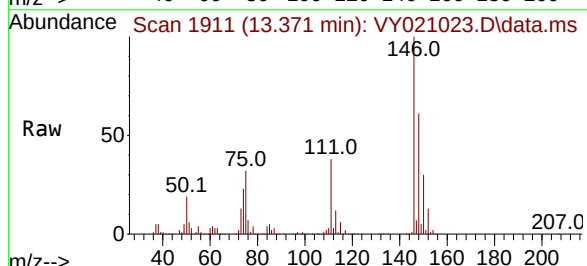
Tgt Ion:146 Resp: 201529

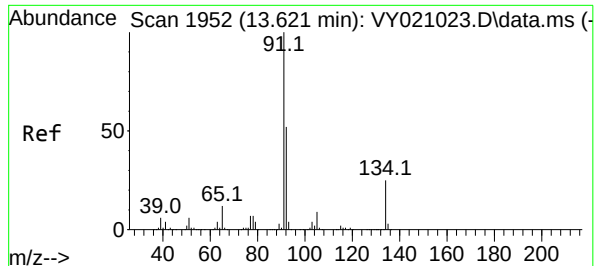
Ion Ratio Lower Upper

146 100

111 38.4 19.0 57.0

148 63.1 31.6 95.0





#89

n-Butylbenzene

Concen: 55.439 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

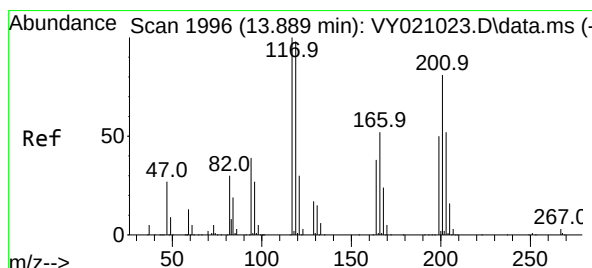
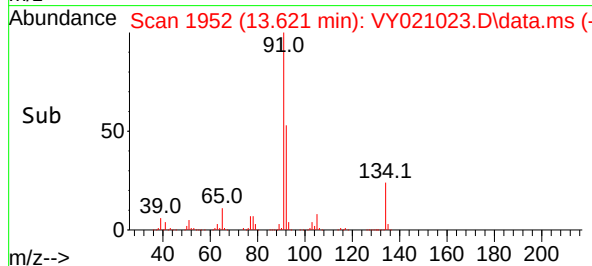
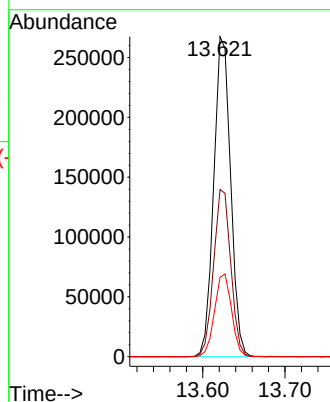
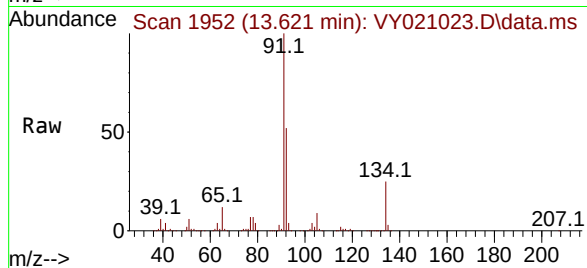
VSTDICCC050

Tgt Ion:	91	Resp:	38170
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.7	80.1
134	26.1	13.7	41.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#90

Hexachloroethane

Concen: 54.167 ug/l

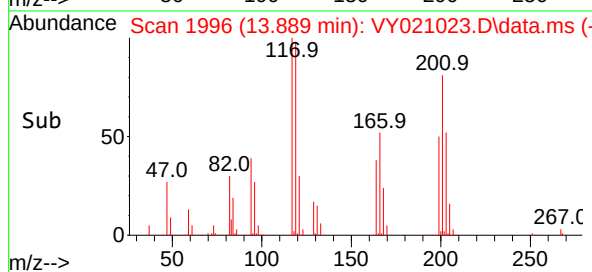
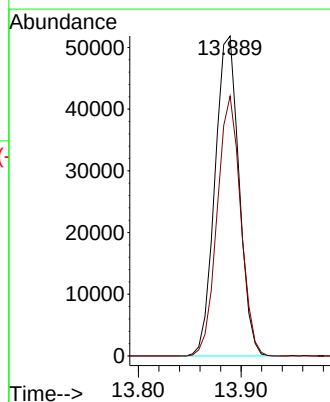
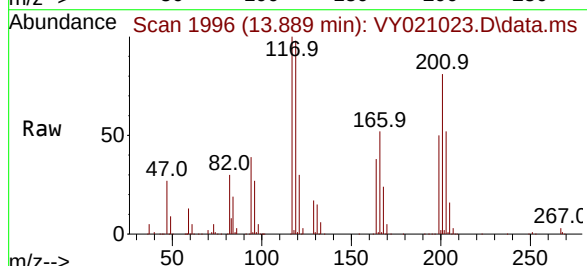
RT: 13.889 min Scan# 1996

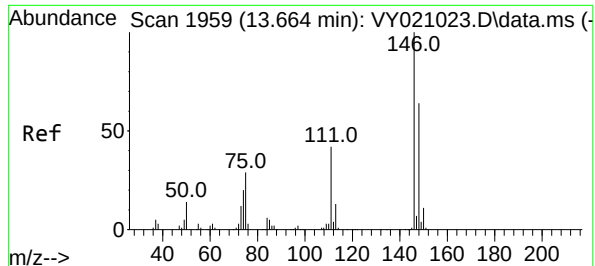
Delta R.T. 0.007 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Tgt Ion:	117	Resp:	84237
Ion	Ratio	Lower	Upper
117	100		
201	79.2	42.5	127.5





#91

1,2-Dichlorobenzene

Concen: 51.554 ug/l

RT: 13.664 min Scan# 1959

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 176718

Ion Ratio Lower Upper

146 100

111 42.0 20.3 60.8

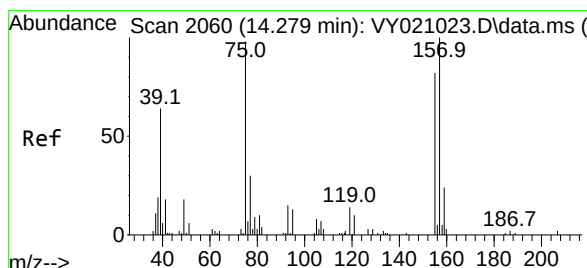
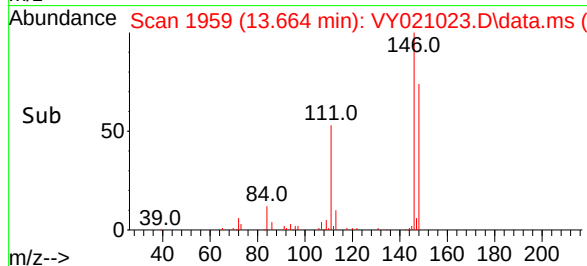
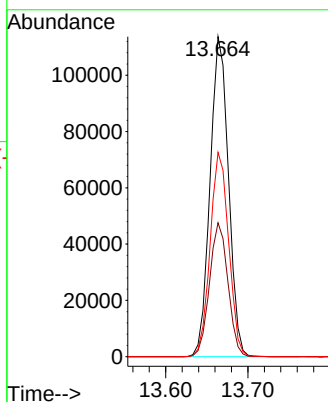
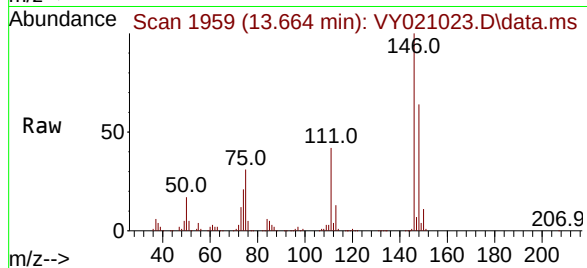
148 64.4 32.2 96.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 55.445 ug/l

RT: 14.279 min Scan# 2060

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

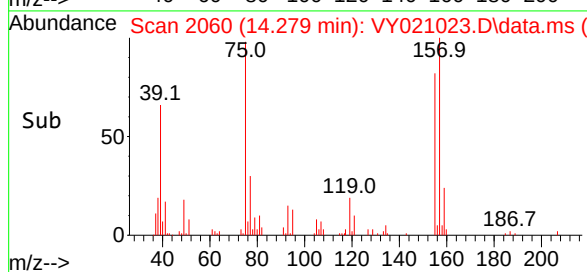
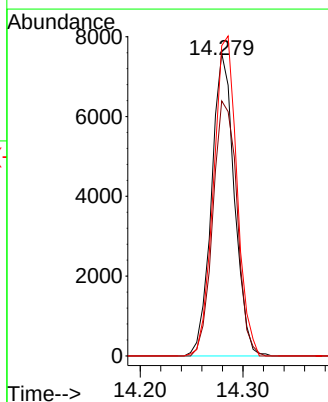
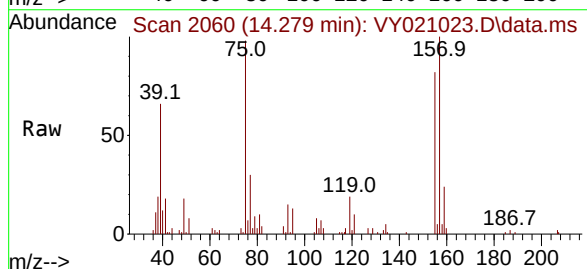
Tgt Ion: 75 Resp: 11716

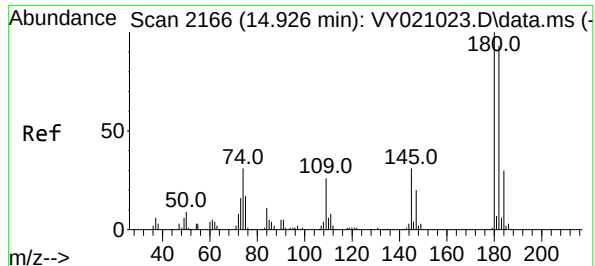
Ion Ratio Lower Upper

75 100

155 88.6 45.9 137.6

157 107.6 59.3 177.9





#93

1,2,4-Trichlorobenzene

Concen: 50.473 ug/l

RT: 14.926 min Scan# 2166

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 10593

Ion Ratio Lower Upper

180 100

182 94.9 48.3 144.8

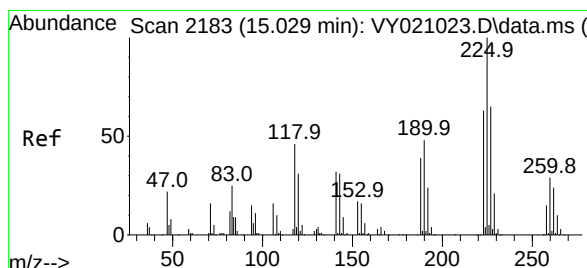
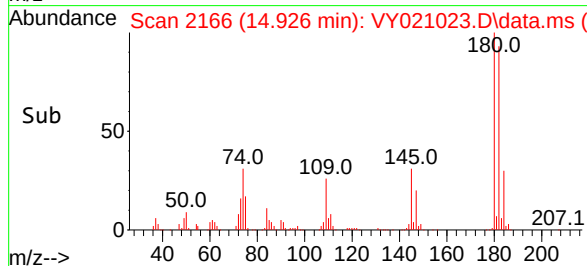
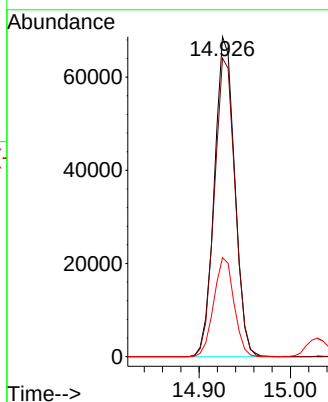
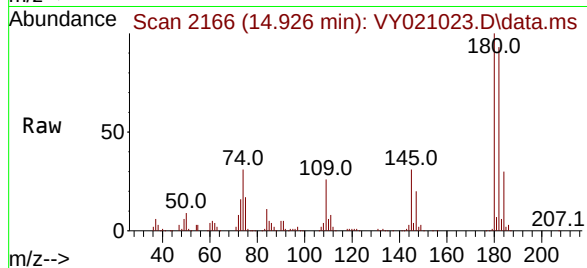
145 30.8 15.3 45.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#94

Hexachlorobutadiene

Concen: 46.155 ug/l

RT: 15.029 min Scan# 2183

Delta R.T. 0.001 min

Lab File: VY021023.D

Acq: 03 Feb 2025 11:43

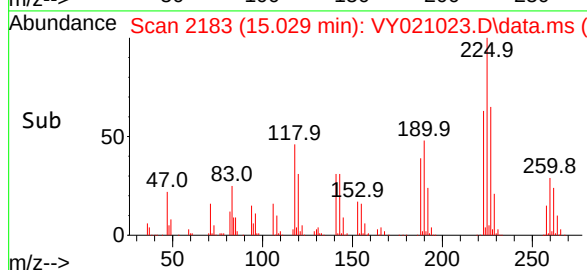
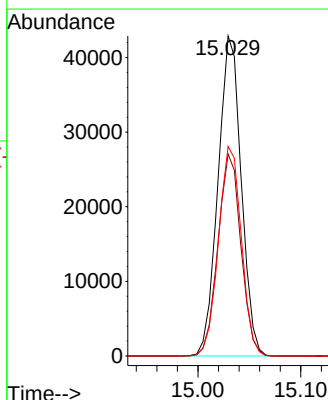
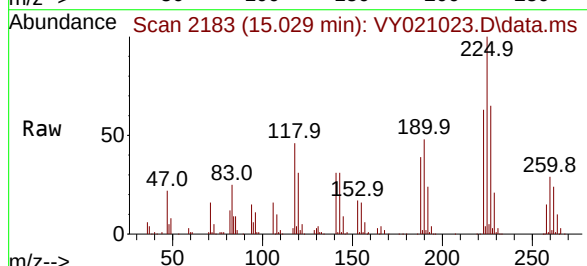
Tgt Ion:225 Resp: 67092

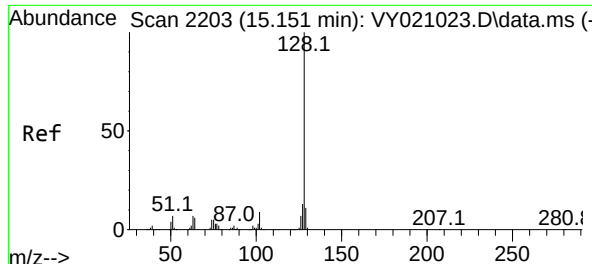
Ion Ratio Lower Upper

225 100

223 62.5 31.4 94.2

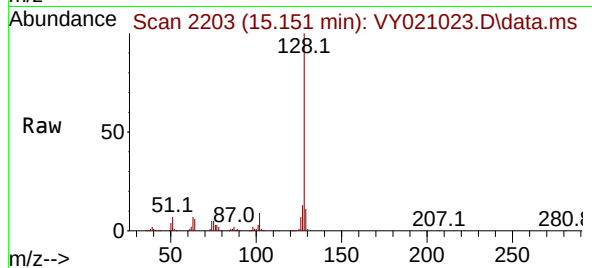
227 64.6 31.8 95.3





#95
Naphthalene
Concen: 53.412 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. 0.000 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

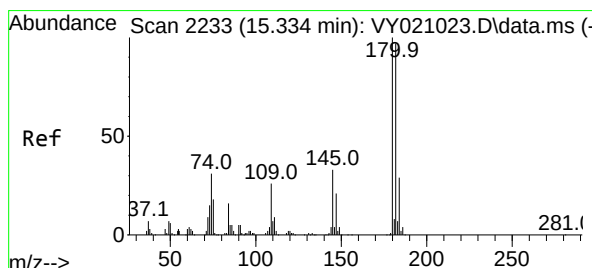
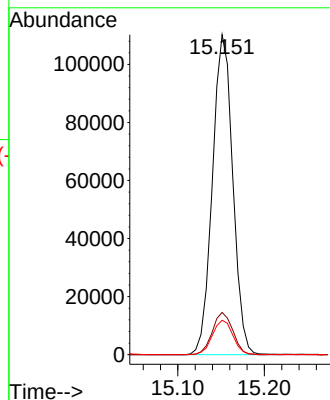
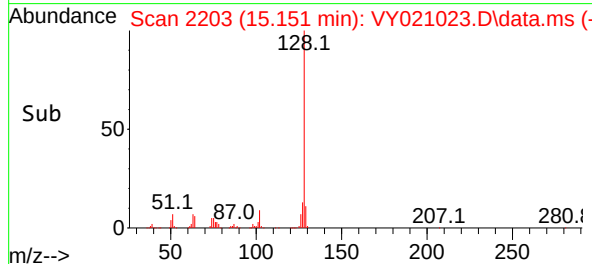
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 180160
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.4
129 10.9 8.8 13.2

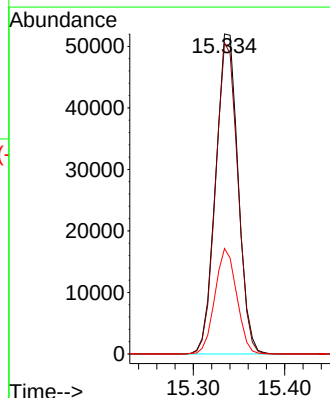
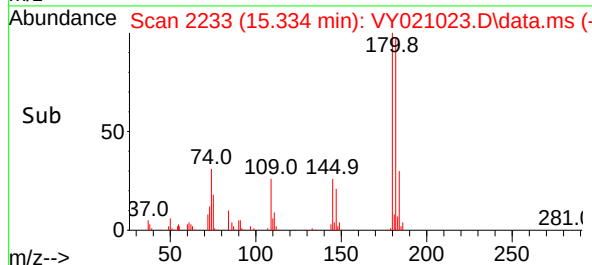
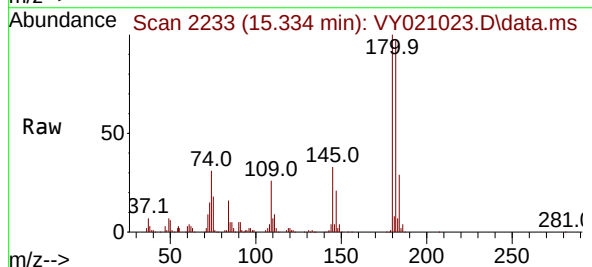
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.991 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY021023.D
Acq: 03 Feb 2025 11:43

Tgt Ion:180 Resp: 88730
Ion Ratio Lower Upper
180 100
182 96.4 47.7 143.1
145 31.9 15.6 46.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021024.D
 Acq On : 03 Feb 2025 12:21
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Quant Time: Feb 03 12:39:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 12:36:41 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	190137	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	289157	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	248171	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.359	152	115163	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	172797	106.741	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 213.480%#			
35) Dibromofluoromethane	7.646	113	171851	98.858	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 197.720%#			
50) Toluene-d8	10.115	98	669691	98.702	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 197.400%#			
62) 4-Bromofluorobenzene	12.414	95	216644	95.157	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 190.320%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.873	85	159301	98.533	ug/l	100
3) Chloromethane	2.074	50	153706	149.541	ug/l	98
4) Vinyl Chloride	2.214	62	155011	146.266	ug/l	99
5) Bromomethane	2.604	94	93622	130.495	ug/l	96
6) Chloroethane	2.745	64	91012	147.011	ug/l	99
7) Trichlorofluoromethane	3.068	101	282462	110.443	ug/l	99
8) Diethyl Ether	3.464	74	87561	114.680	ug/l	87
9) 1,1,2-Trichlorotrifluo...	3.830	101	177279	102.939	ug/l	95
10) Methyl Iodide	4.019	142	218905	111.078	ug/l	99
11) Tert butyl alcohol	4.872	59	53461	452.085	ug/l	99
12) 1,1-Dichloroethene	3.799	96	171787	106.739	ug/l	88
13) Acrolein	3.659	56	89546	657.572	ug/l	99
14) Allyl chloride	4.397	41	294317	132.835	ug/l	92
15) Acrylonitrile	5.067	53	179975	573.057	ug/l	99
16) Acetone	3.879	43	133780	606.320	ug/l	90
17) Carbon Disulfide	4.116	76	540251	108.991	ug/l	100
18) Methyl Acetate	4.397	43	96229	124.639	ug/l	93
19) Methyl tert-butyl Ether	5.128	73	427571	114.141	ug/l	99
20) Methylene Chloride	4.628	84	171778	105.558	ug/l	89
21) trans-1,2-Dichloroethene	5.128	96	186520	108.095	ug/l	93
22) Diisopropyl ether	6.031	45	598063	132.422	ug/l	97
23) Vinyl Acetate	5.970	43	1653156	660.973	ug/l	95
24) 1,1-Dichloroethane	5.933	63	346367	118.878	ug/l	98
25) 2-Butanone	6.902	43	229517	613.177	ug/l	92
26) 2,2-Dichloropropane	6.896	77	311254	108.502	ug/l	99
27) cis-1,2-Dichloroethene	6.902	96	218816	110.326	ug/l	94
28) Bromochloromethane	7.256	49	142156	130.955	ug/l	83
29) Tetrahydrofuran	7.274	42	153104	607.855	ug/l	92
30) Chloroform	7.433	83	350416	111.040	ug/l	99
31) Cyclohexane	7.713	56	296243	104.021	ug/l	95
32) 1,1,1-Trichloroethane	7.628	97	328296	107.493	ug/l	97
36) 1,1-Dichloropropene	7.847	75	258833	104.370	ug/l	97
37) Ethyl Acetate	6.994	43	108807	117.685	ug/l	97
38) Carbon Tetrachloride	7.829	117	302001	98.406	ug/l	98
39) Methylcyclohexane	9.115	83	329865	99.014	ug/l	94
40) Benzene	8.091	78	765340	104.883	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021024.D
 Acq On : 03 Feb 2025 12:21
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:39:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 12:36:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	51586	100.841	ug/l	90
42) 1,2-Dichloroethane	8.164	62	203840	110.147	ug/l	98
43) Isopropyl Acetate	8.207	43	224883	121.752	ug/l #	86
44) Trichloroethene	8.872	130	195403	97.046	ug/l	94
45) 1,2-Dichloropropane	9.152	63	179965	110.034	ug/l	99
46) Dibromomethane	9.237	93	95968	100.827	ug/l	95
47) Bromodichloromethane	9.432	83	265518	106.226	ug/l	98
48) Methyl methacrylate	9.225	41	107661	122.427	ug/l	90
49) 1,4-Dioxane	9.237	88	18378	1817.108	ug/l #	95
51) 4-Methyl-2-Pentanone	10.006	43	562082	592.226	ug/l	94
52) Toluene	10.176	92	488296	103.090	ug/l	99
53) t-1,3-Dichloropropene	10.402	75	246769	109.097	ug/l	100
54) cis-1,3-Dichloropropene	9.865	75	289643	107.141	ug/l #	91
55) 1,1,2-Trichloroethane	10.579	97	125626	99.248	ug/l	100
56) Ethyl methacrylate	10.445	69	184212	111.337	ug/l	88
57) 1,3-Dichloropropane	10.725	76	220204	102.639	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.719	63	421206	599.795	ug/l	95
59) 2-Hexanone	10.768	43	373249	605.028	ug/l	92
60) Dibromochloromethane	10.920	129	179036	99.202	ug/l	99
61) 1,2-Dibromoethane	11.024	107	117576	97.250	ug/l	98
64) Tetrachloroethene	10.652	164	174223	93.066	ug/l	97
65) Chlorobenzene	11.450	112	519942	99.441	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.524	131	185418	99.917	ug/l	99
67) Ethyl Benzene	11.524	91	950017	104.939	ug/l	98
68) m/p-Xylenes	11.639	106	705393	202.801	ug/l	97
69) o-Xylene	11.963	106	332346	102.783	ug/l	97
70) Styrene	11.975	104	559633	104.245	ug/l	98
71) Bromoform	12.139	173	101615	92.910	ug/l #	99
73) Isopropylbenzene	12.261	105	891697	110.247	ug/l	100
74) N-amyl acetate	12.078	43	196809	133.629	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.517	83	137599	105.393	ug/l	100
76) 1,2,3-Trichloropropane	12.566	75	87097m	95.537	ug/l	
77) Bromobenzene	12.542	156	198715	103.627	ug/l	93
78) n-propylbenzene	12.603	91	1057216	111.529	ug/l	98
79) 2-Chlorotoluene	12.688	91	592096	109.632	ug/l	99
80) 1,3,5-Trimethylbenzene	12.743	105	713935	107.741	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.310	75	47846	108.944	ug/l	92
82) 4-Chlorotoluene	12.786	91	597047	108.014	ug/l	99
83) tert-Butylbenzene	13.005	119	638740	103.933	ug/l	96
84) 1,2,4-Trimethylbenzene	13.054	105	701716	108.409	ug/l	100
85) sec-Butylbenzene	13.182	105	931799	107.093	ug/l	100
86) p-Isopropyltoluene	13.304	119	778814	106.512	ug/l	99
87) 1,3-Dichlorobenzene	13.298	146	380481	101.760	ug/l	100
88) 1,4-Dichlorobenzene	13.377	146	368361	99.212	ug/l	99
89) n-Butylbenzene	13.627	91	720257	109.974	ug/l	98
90) Hexachloroethane	13.889	117	160918	108.782	ug/l	94
91) 1,2-Dichlorobenzene	13.670	146	323508	99.218	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.285	75	20553	102.253	ug/l	93
93) 1,2,4-Trichlorobenzene	14.932	180	201024	100.693	ug/l	100
94) Hexachlorobutadiene	15.035	225	124879	90.315	ug/l	100
95) Naphthalene	15.157	128	331641	103.361	ug/l	99
96) 1,2,3-Trichlorobenzene	15.340	180	167187	99.024	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021024.D
Acq On : 03 Feb 2025 12:21
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 12:39:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 12:36:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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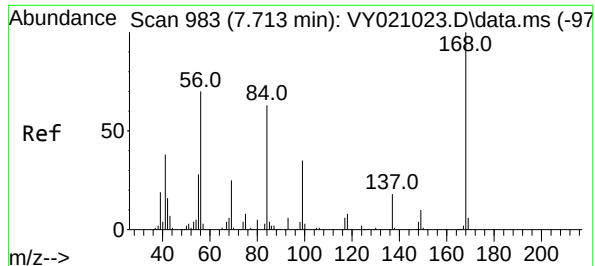
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025





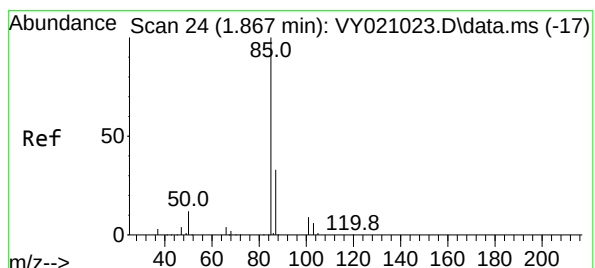
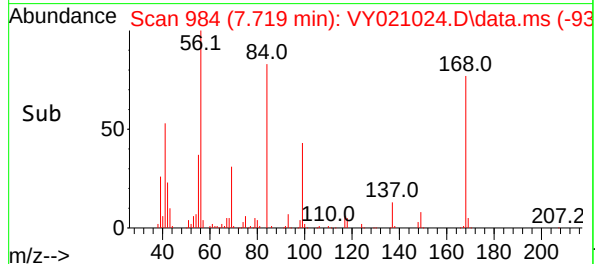
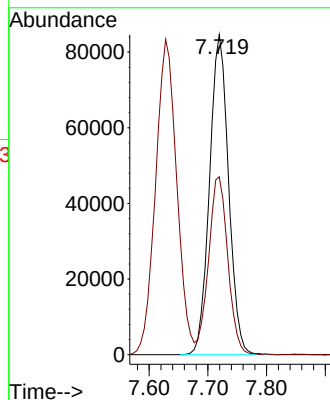
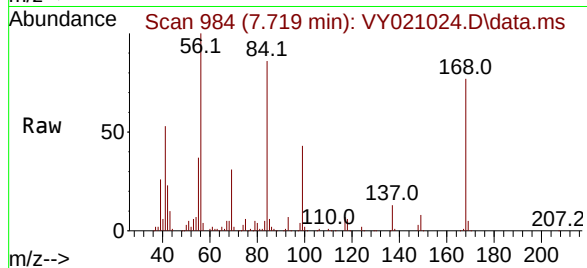
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 99
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 19013
Ion Ratio Lower Upper
168 100
99 55.5 42.2 63.2

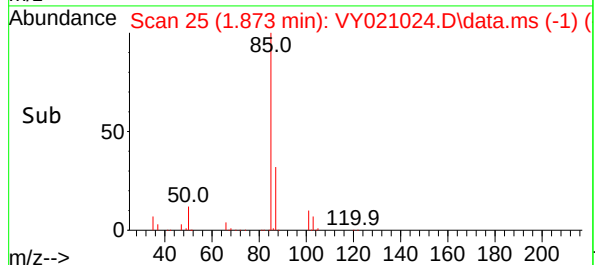
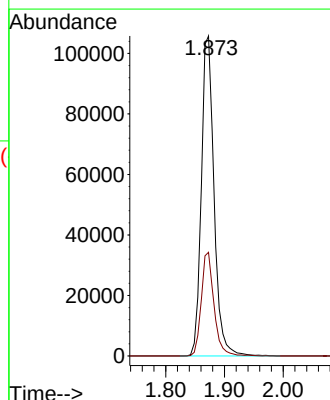
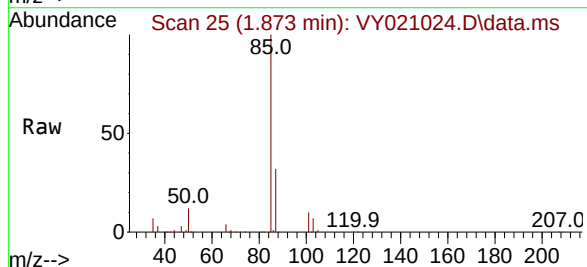
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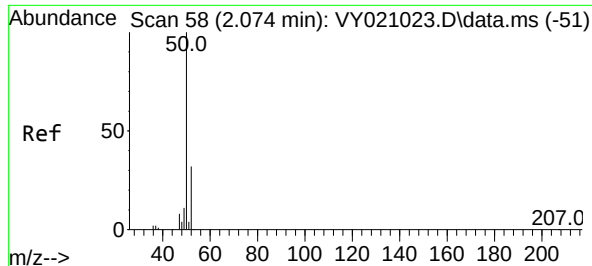
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#2
Dichlorodifluoromethane
Concen: 98.533 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

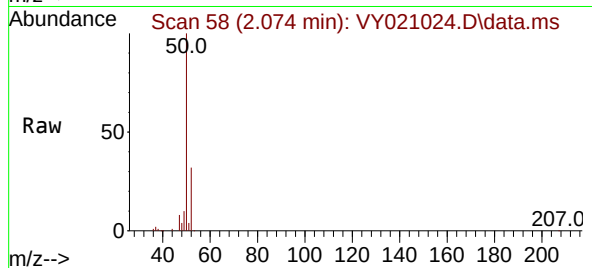
Tgt Ion: 85 Resp: 159301
Ion Ratio Lower Upper
85 100
87 32.4 16.3 48.9





#3
Chloromethane
Concen: 149.541 ug/l
RT: 2.074 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

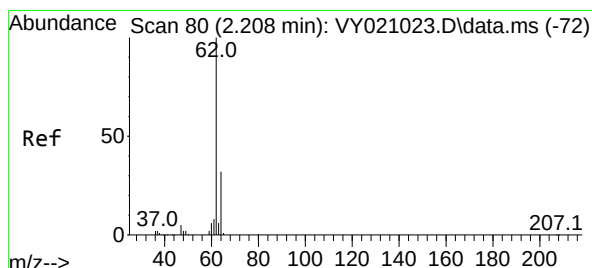
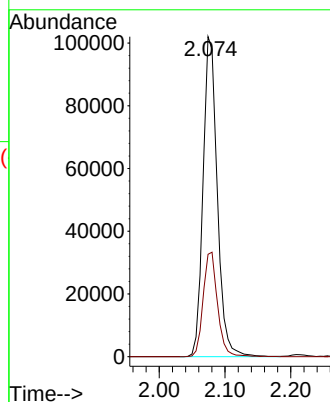
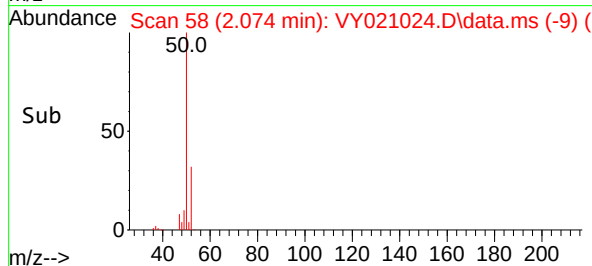
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100



Tgt Ion: 50 Resp: 153700
Ion Ratio Lower Upper
50 100
52 32.0 26.3 39.5

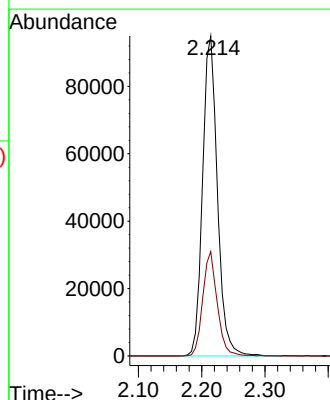
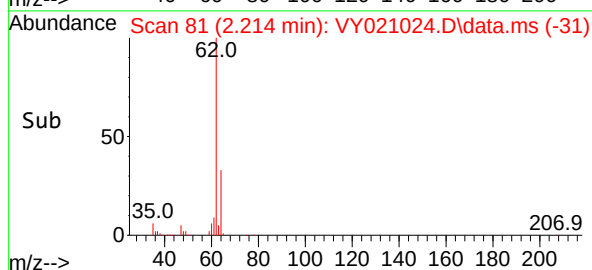
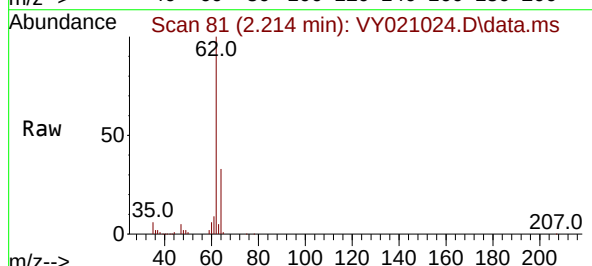
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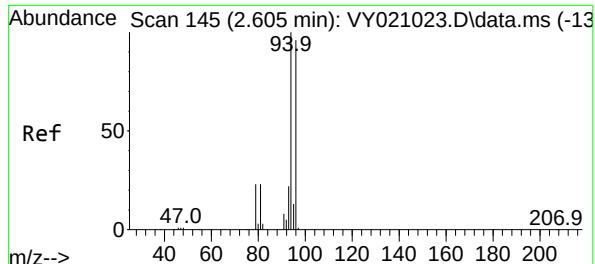
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#4
Vinyl Chloride
Concen: 146.266 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion: 62 Resp: 155011
Ion Ratio Lower Upper
62 100
64 32.6 25.4 38.2





#5

Bromomethane

Concen: 130.495 ug/l

RT: 2.604 min Scan# 145

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 94 Resp: 9362

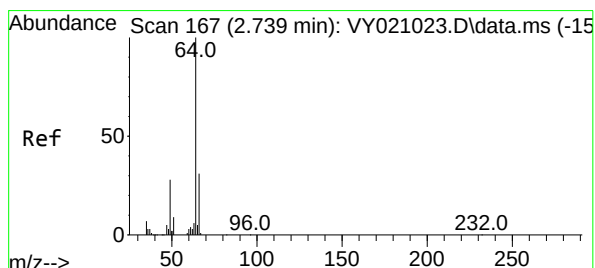
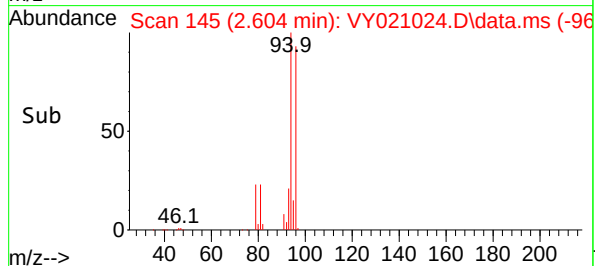
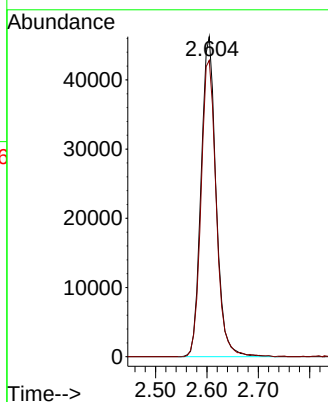
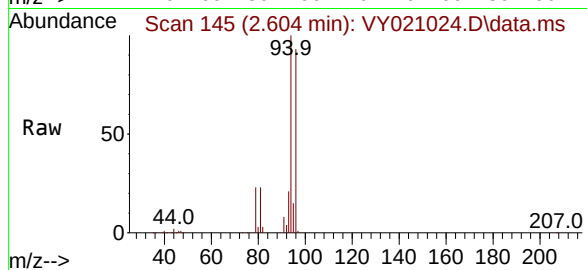
Ion Ratio Lower Upper

94 100

96 92.6 77.4 116.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#6

Chloroethane

Concen: 147.011 ug/l

RT: 2.745 min Scan# 168

Delta R.T. 0.006 min

Lab File: VY021024.D

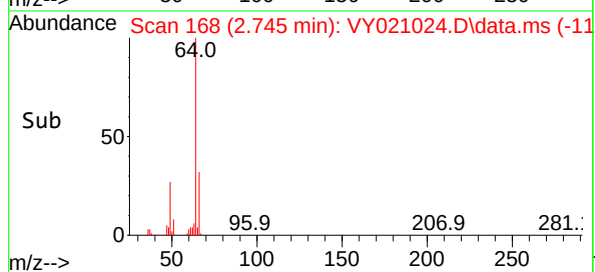
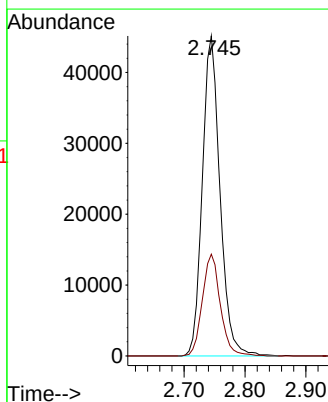
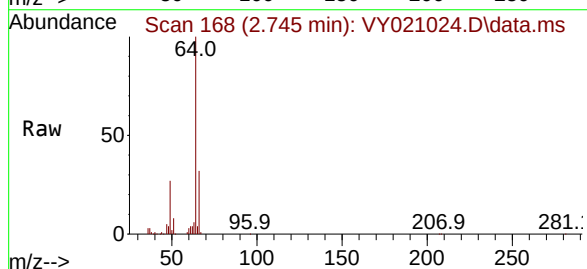
Acq: 03 Feb 2025 12:21

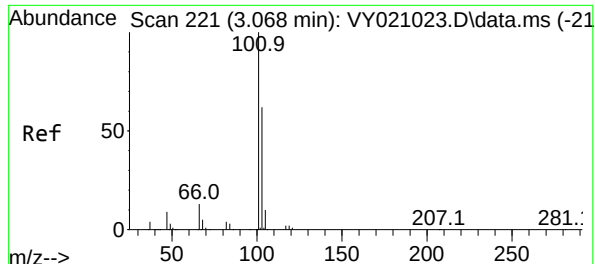
Tgt Ion: 64 Resp: 91012

Ion Ratio Lower Upper

64 100

66 31.8 25.0 37.4





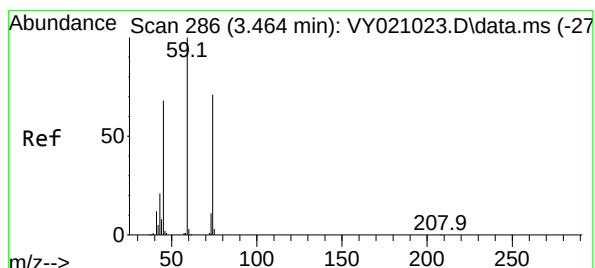
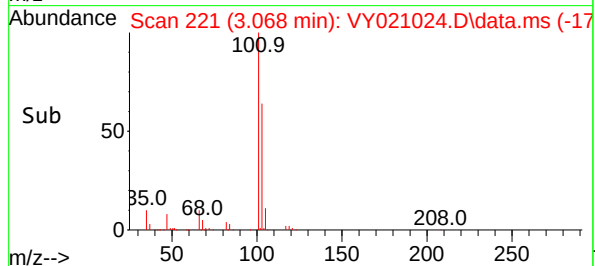
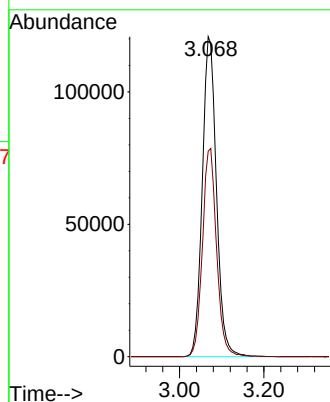
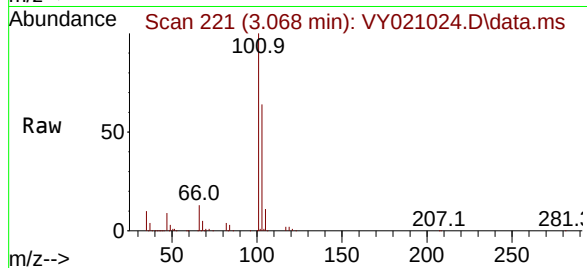
#7
Trichlorofluoromethane
Concen: 110.443 ug/l
RT: 3.068 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 282462
Ion Ratio Lower Upper
101 100
103 64.2 50.9 76.3

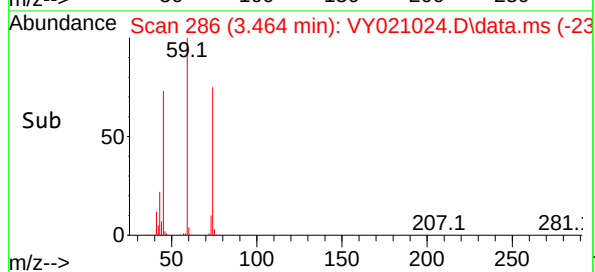
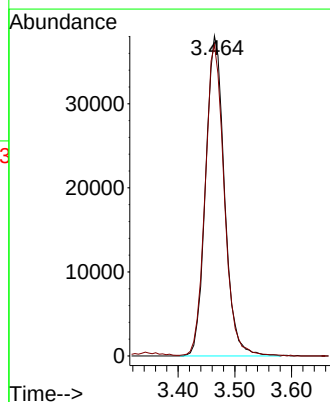
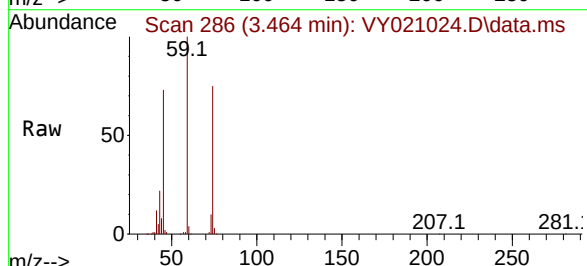
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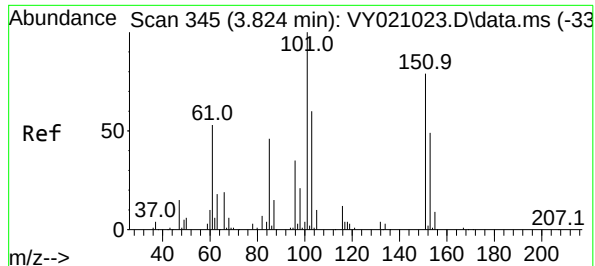
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#8
Diethyl Ether
Concen: 114.680 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion: 74 Resp: 87561
Ion Ratio Lower Upper
74 100
45 98.9 43.4 130.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 102.939 ug/l

RT: 3.830 min Scan# 345

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion:101 Resp: 177279

Ion Ratio Lower Upper

101 100

85 45.9 34.9 52.3

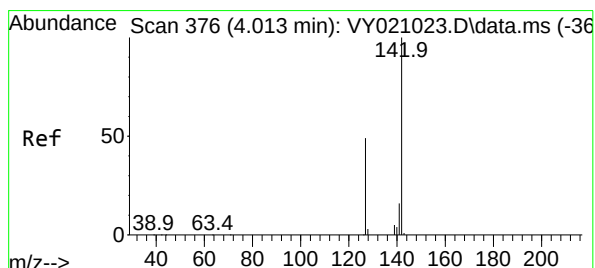
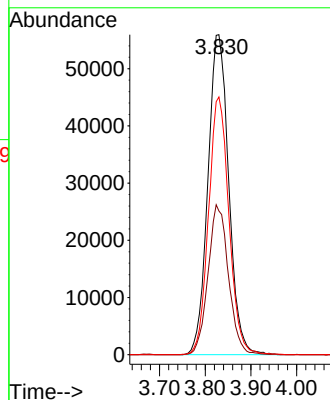
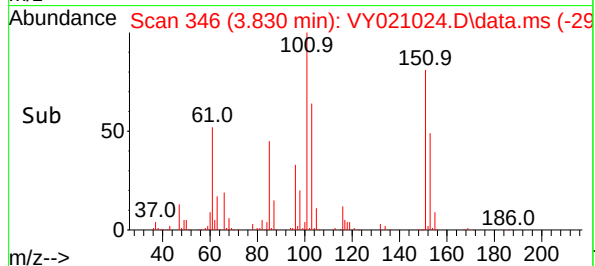
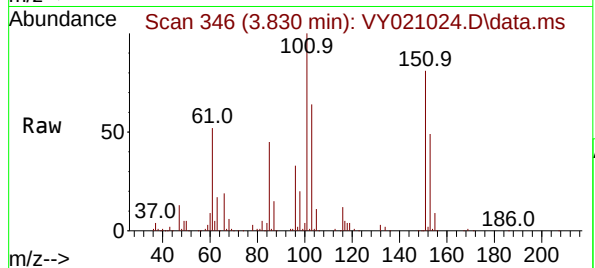
151 78.9 66.8 100.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#10

Methyl Iodide

Concen: 111.078 ug/l

RT: 4.019 min Scan# 377

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

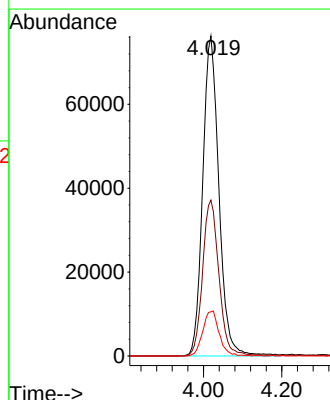
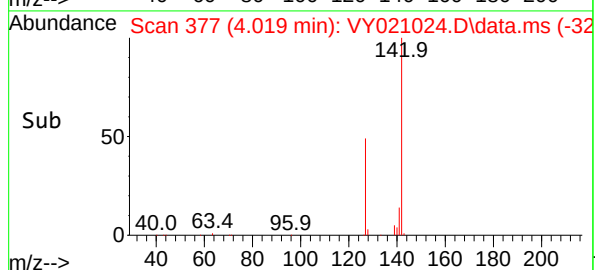
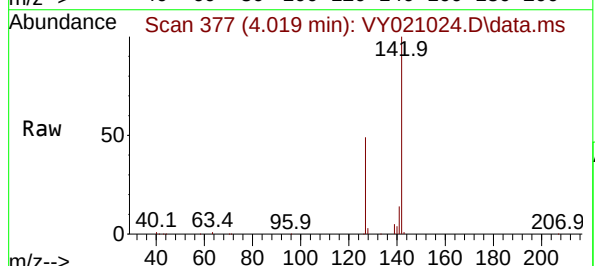
Tgt Ion:142 Resp: 218905

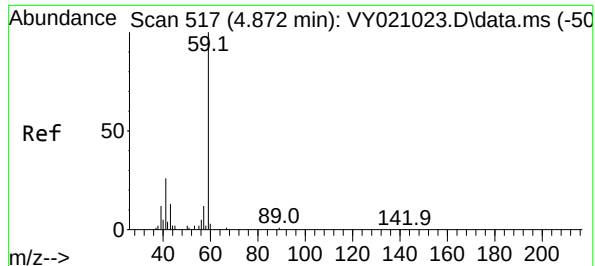
Ion Ratio Lower Upper

142 100

127 49.2 38.9 58.3

141 14.2 11.7 17.5





#11

Tert butyl alcohol

Concen: 452.085 ug/l

RT: 4.872 min Scan# 517

Delta R.T. -0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 5346

Ion Ratio Lower Upper

59 100

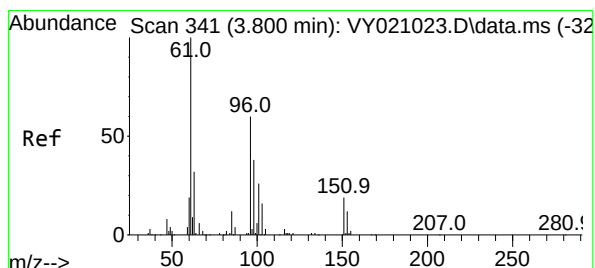
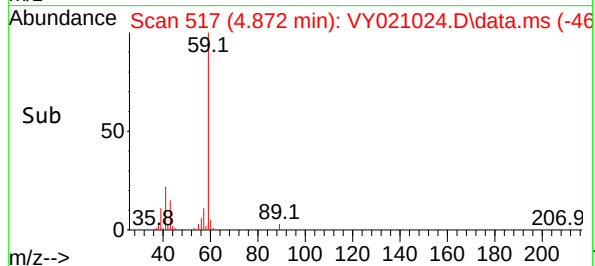
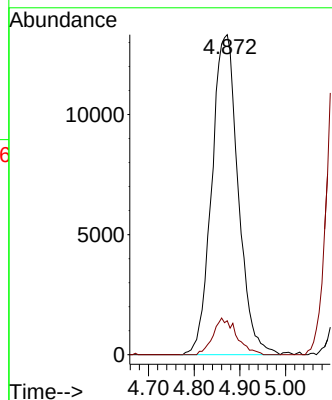
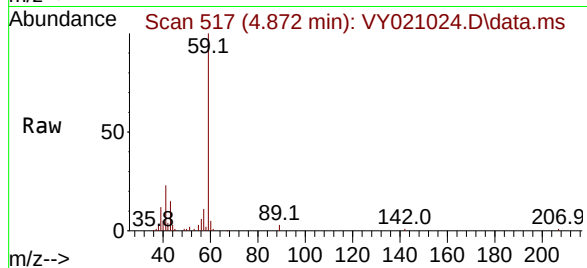
57 10.3 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#12

1,1-Dichloroethene

Concen: 106.739 ug/l

RT: 3.799 min Scan# 341

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

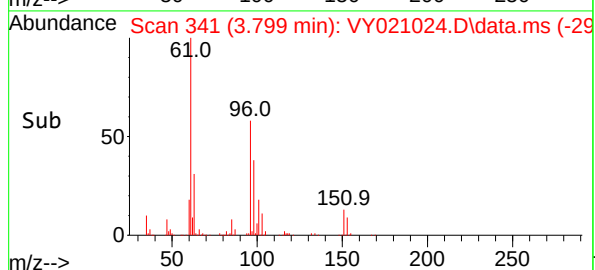
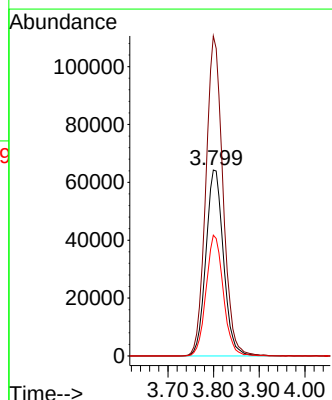
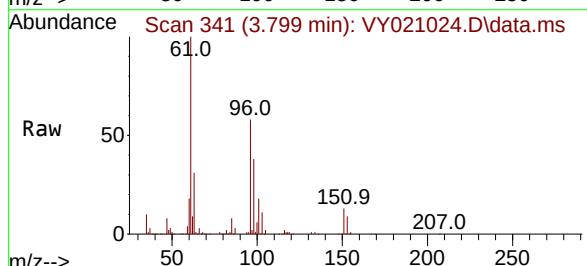
Tgt Ion: 96 Resp: 171787

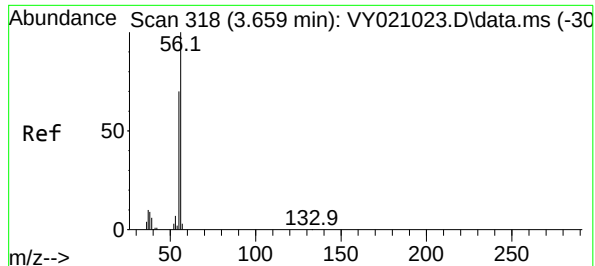
Ion Ratio Lower Upper

96 100

61 172.1 120.8 181.2

98 64.9 50.6 76.0





#13

Acrolein

Concen: 657.572 ug/l

RT: 3.659 min Scan# 318

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 89540

Ion Ratio Lower Upper

56 100

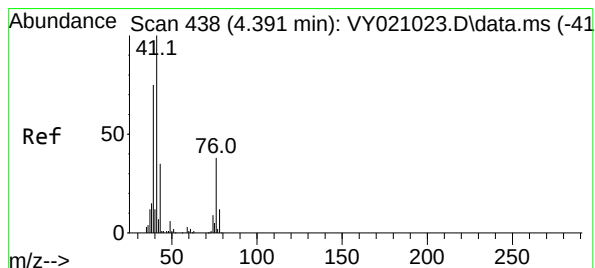
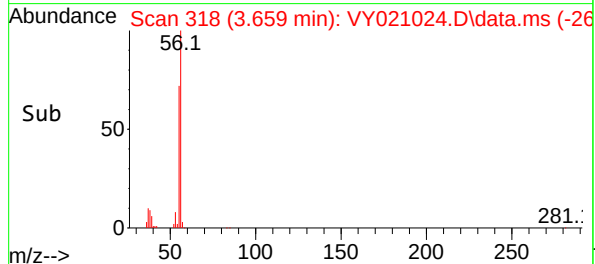
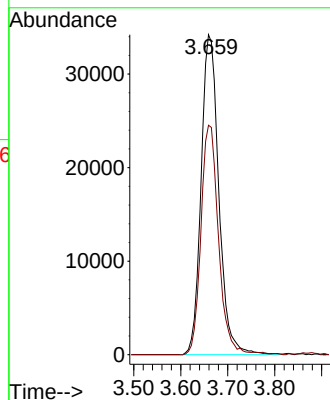
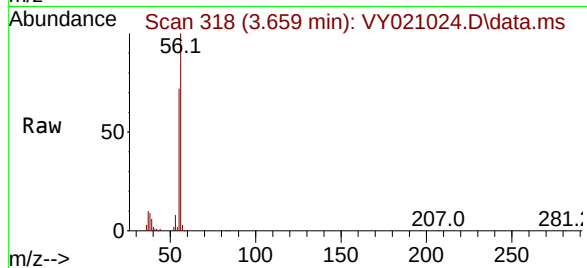
55 71.2 56.1 84.1

Manual Integrations

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Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#14

Allyl chloride

Concen: 132.835 ug/l

RT: 4.397 min Scan# 439

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

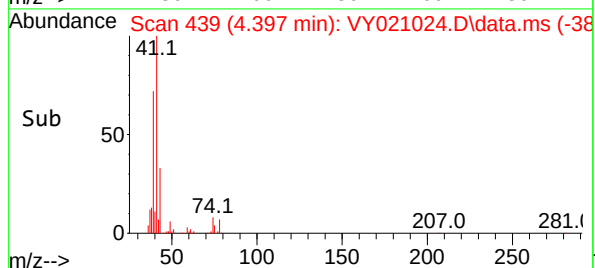
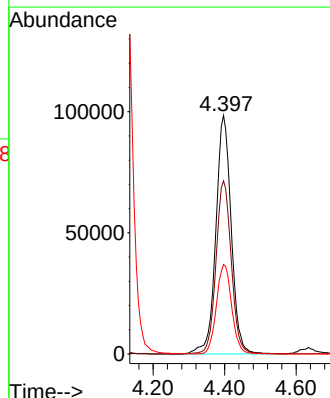
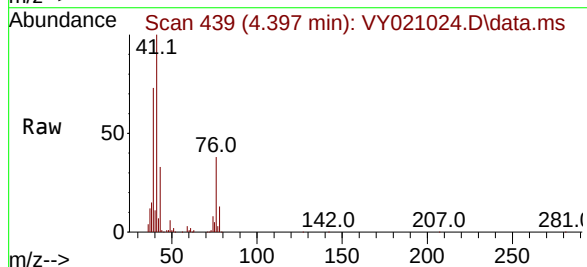
Tgt Ion: 41 Resp: 294317

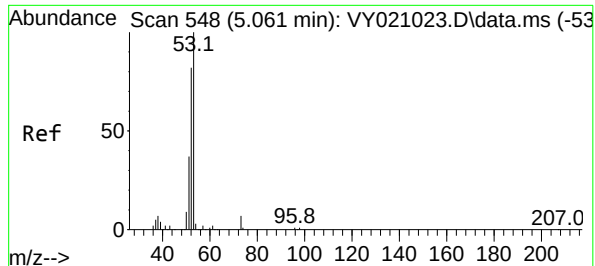
Ion Ratio Lower Upper

41 100

39 72.0 53.5 80.3

76 37.1 34.6 52.0





#15

Acrylonitrile

Concen: 573.057 ug/l

RT: 5.067 min Scan# 548

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

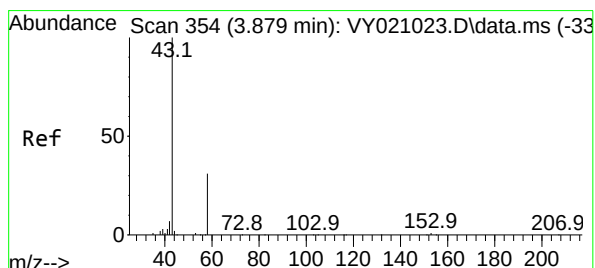
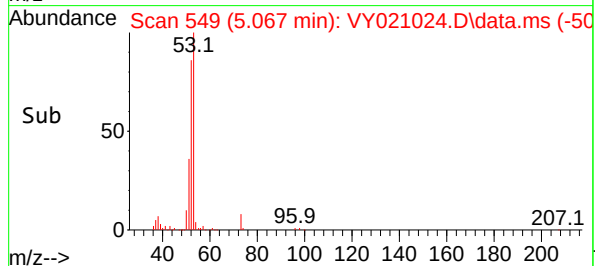
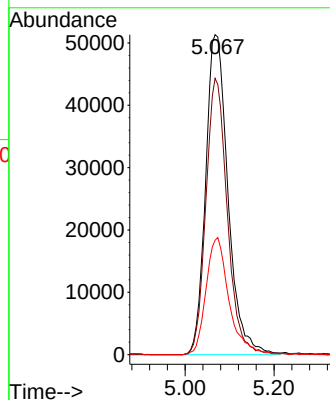
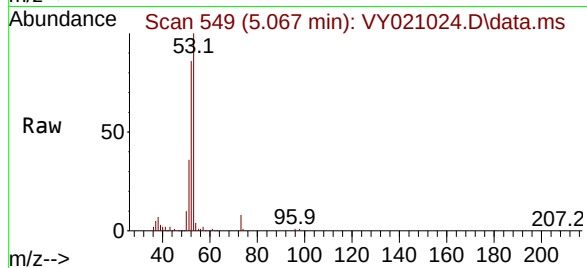
ClientSampleId :

VSTDICC100

Tgt Ion:	53	Resp:	17997
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.2	99.4
51	37.6	29.4	44.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#16

Acetone

Concen: 606.320 ug/l

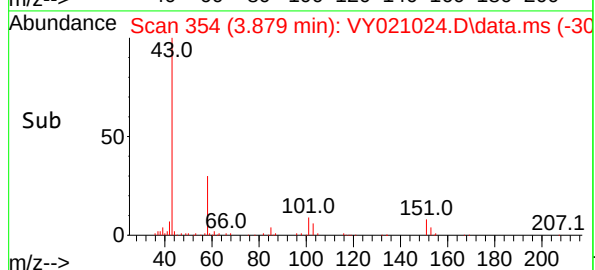
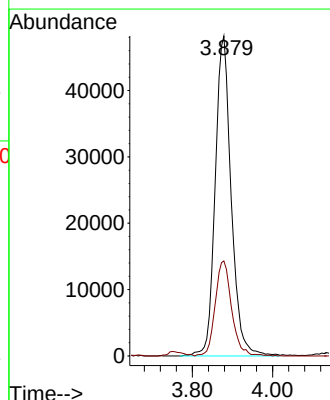
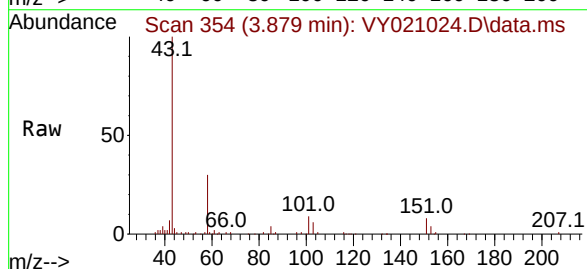
RT: 3.879 min Scan# 354

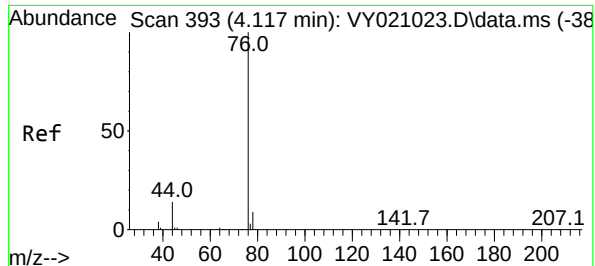
Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Tgt Ion:	43	Resp:	133780
Ion	Ratio	Lower	Upper
43	100		
58	29.6	28.4	42.6





#17

Carbon Disulfide

Concen: 108.991 ug/l

RT: 4.116 min Scan# 393

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 54025

Ion Ratio Lower Upper

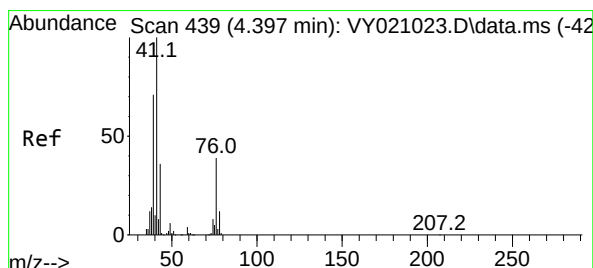
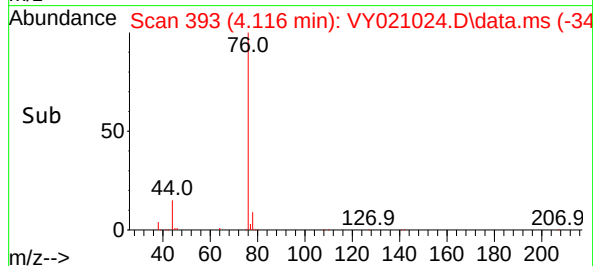
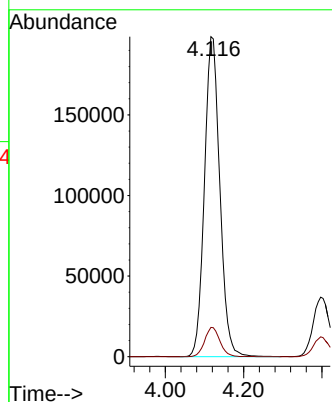
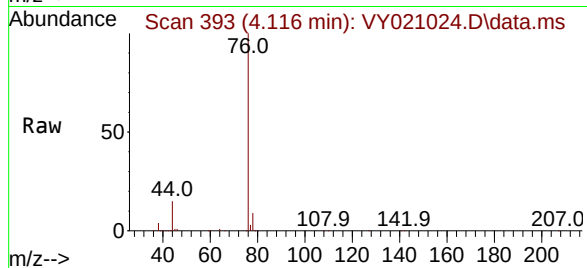
76 100

78 9.1 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#18

Methyl Acetate

Concen: 124.639 ug/l

RT: 4.397 min Scan# 439

Delta R.T. 0.006 min

Lab File: VY021024.D

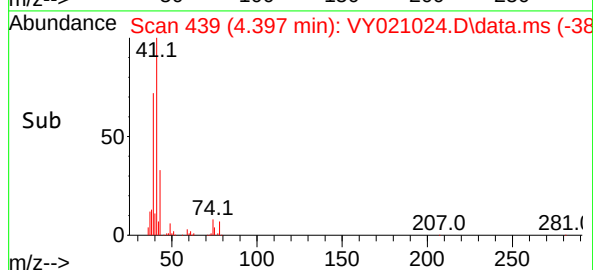
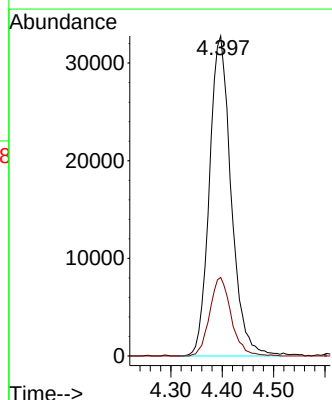
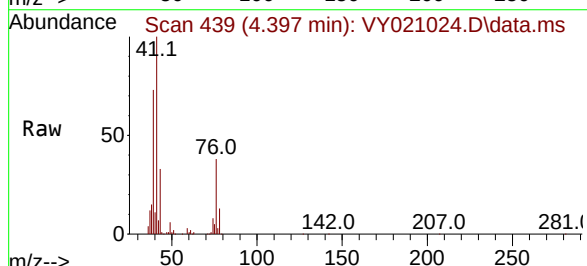
Acq: 03 Feb 2025 12:21

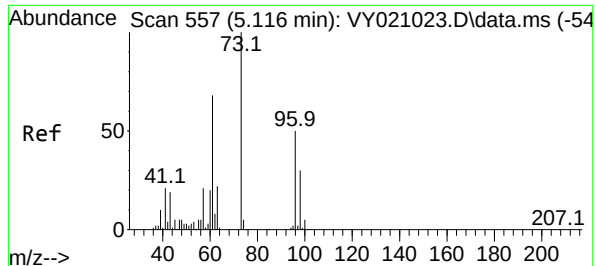
Tgt Ion: 43 Resp: 96229

Ion Ratio Lower Upper

43 100

74 24.3 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 114.141 ug/l

RT: 5.128 min Scan# 51

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 42757

Ion Ratio Lower Upper

73 100

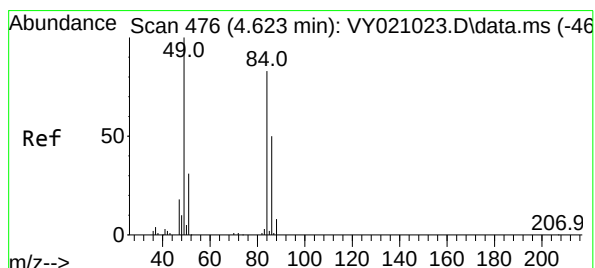
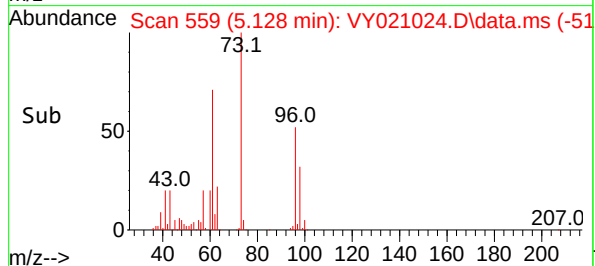
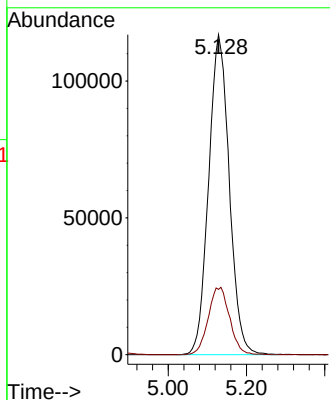
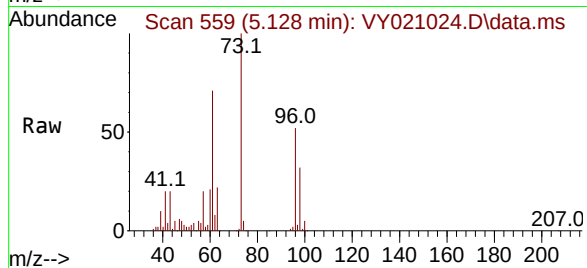
57 20.4 16.6 25.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#20

Methylene Chloride

Concen: 105.558 ug/l

RT: 4.628 min Scan# 477

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Tgt Ion: 84 Resp: 171778

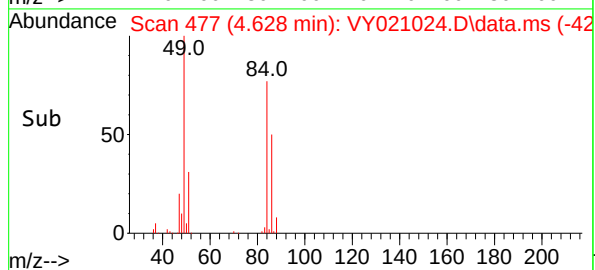
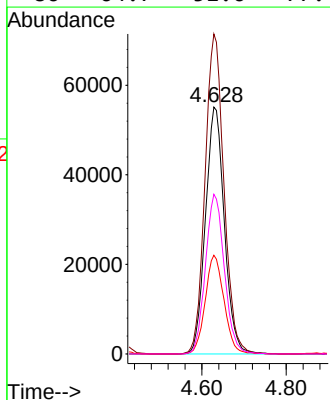
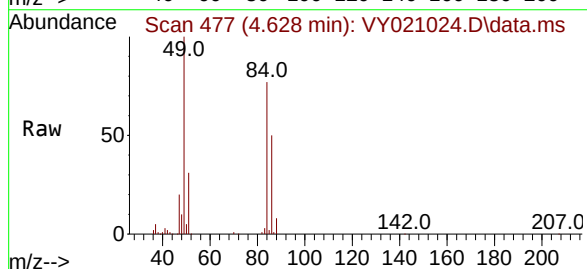
Ion Ratio Lower Upper

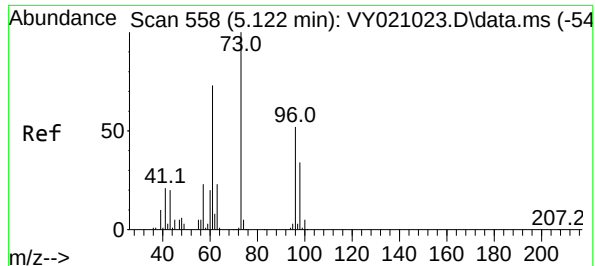
84 100

49 129.6 88.3 132.5

51 40.0 27.7 41.5

86 64.7 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 108.095 ug/l

RT: 5.128 min Scan# 51

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 186520

Ion Ratio Lower Upper

96 100

61 137.7 101.5 152.3

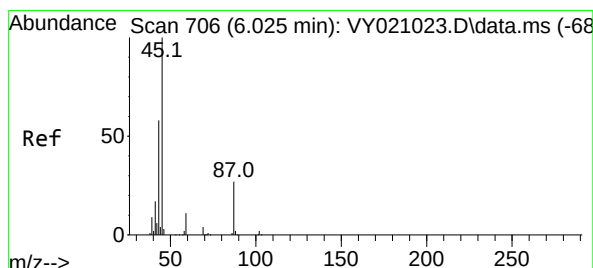
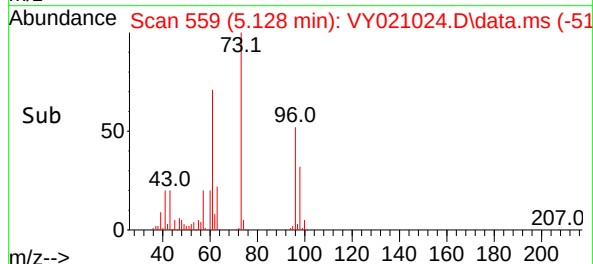
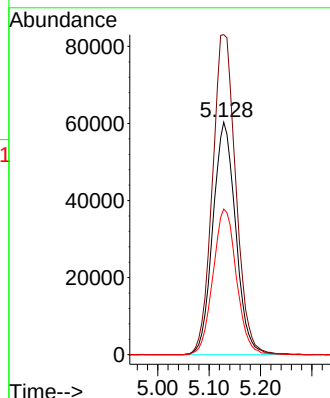
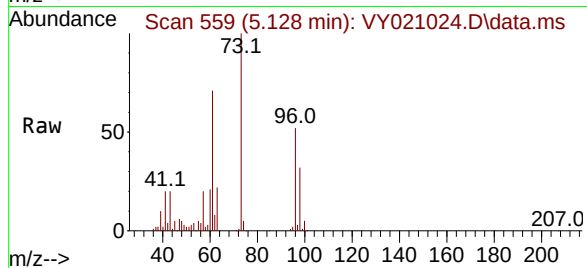
98 62.7 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#22

Diisopropyl ether

Concen: 132.422 ug/l

RT: 6.031 min Scan# 707

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Tgt Ion: 45 Resp: 598063

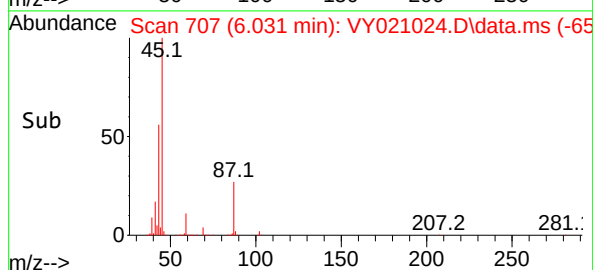
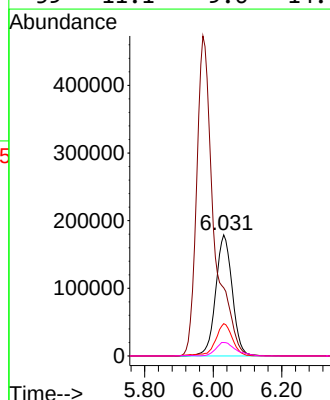
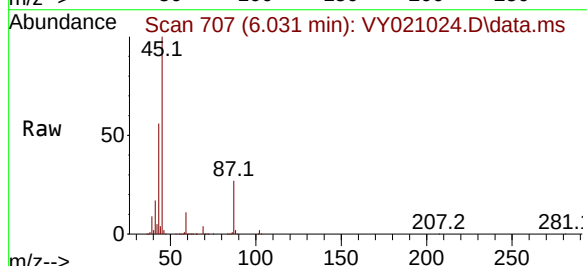
Ion Ratio Lower Upper

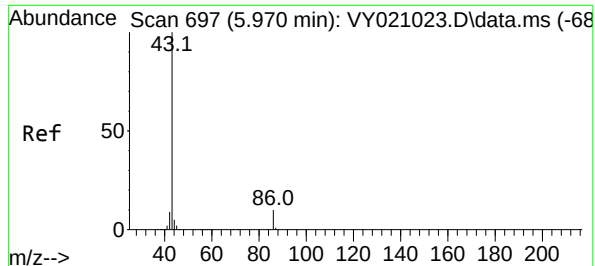
45 100

43 56.1 45.1 67.7

87 26.7 25.0 37.4

59 11.1 9.6 14.4





#23

Vinyl Acetate

Concen: 660.973 ug/l

RT: 5.970 min Scan# 697

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 165315

Ion Ratio Lower Upper

43 100

86 10.0

9.7

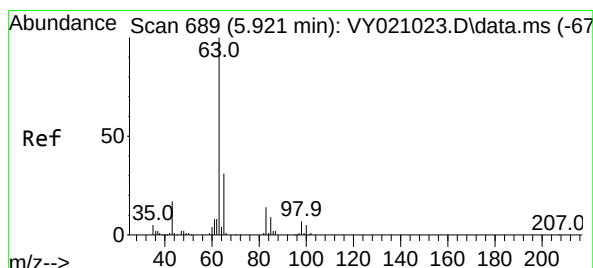
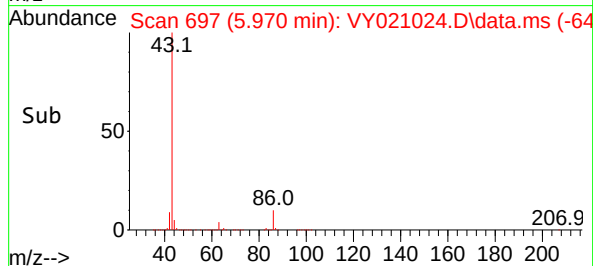
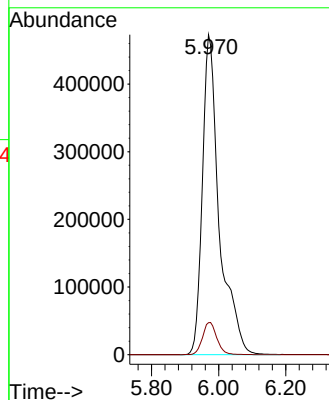
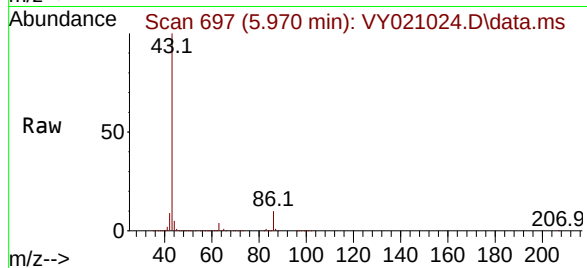
14.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#24

1,1-Dichloroethane

Concen: 118.878 ug/l

RT: 5.933 min Scan# 691

Delta R.T. 0.013 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Tgt Ion: 63 Resp: 346367

Ion Ratio Lower Upper

63 100

98 6.6

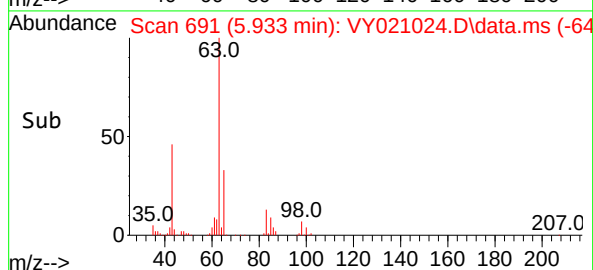
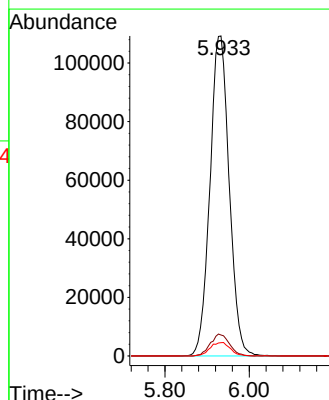
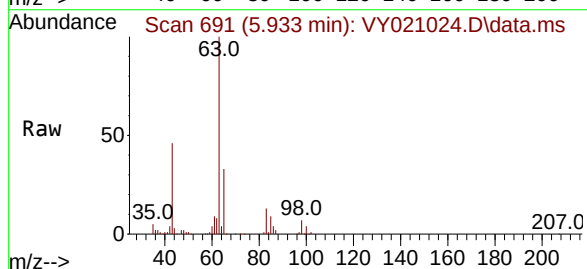
3.7

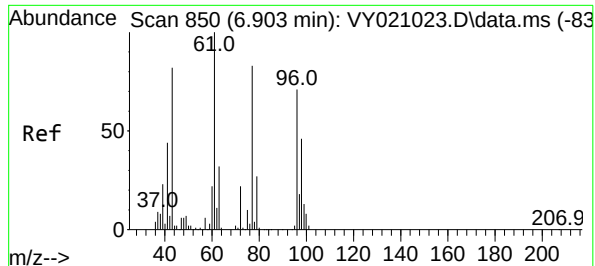
11.1

100 4.1

2.4

7.2





#25

2-Butanone

Concen: 613.177 ug/l

RT: 6.902 min Scan# 850

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 22951

Ion Ratio Lower Upper

43 100

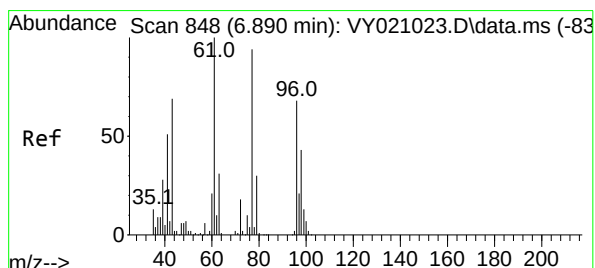
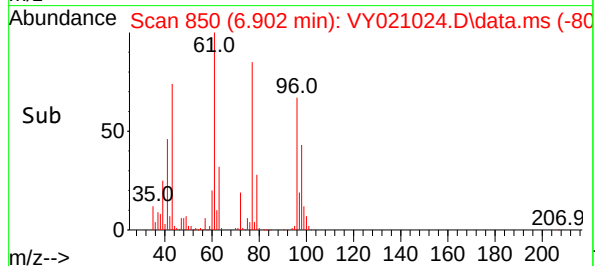
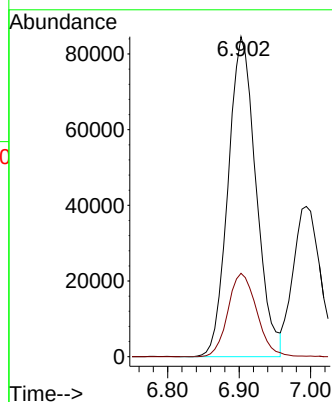
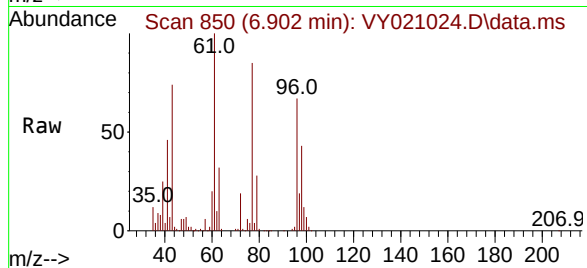
72 26.1 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#26

2,2-Dichloropropane

Concen: 108.502 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.006 min

Lab File: VY021024.D

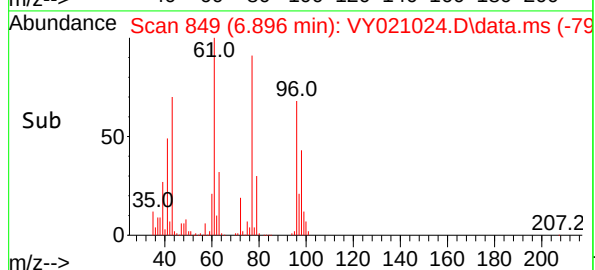
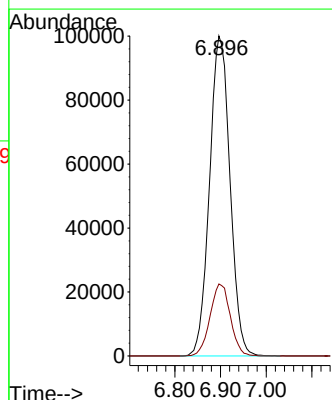
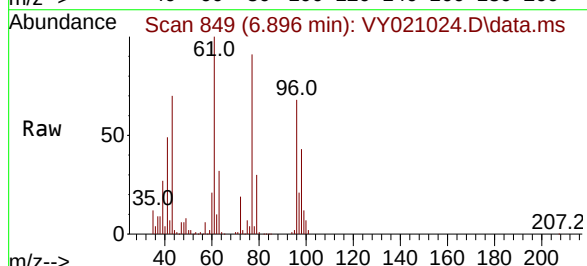
Acq: 03 Feb 2025 12:21

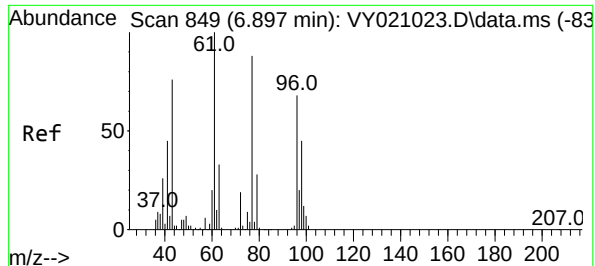
Tgt Ion: 77 Resp: 311254

Ion Ratio Lower Upper

77 100

97 22.3 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 110.326 ug/l

RT: 6.902 min Scan# 849

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 218810

Ion Ratio Lower Upper

96 100

61 147.4 0.0 274.0

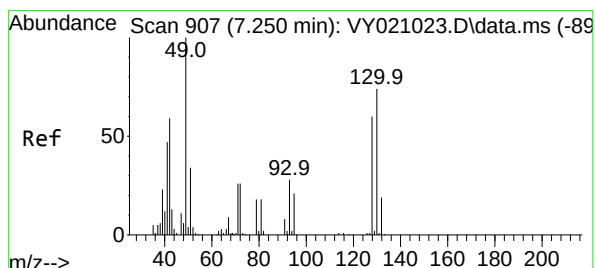
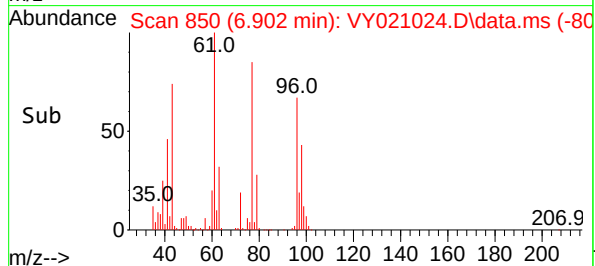
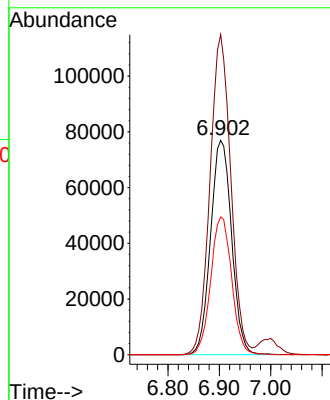
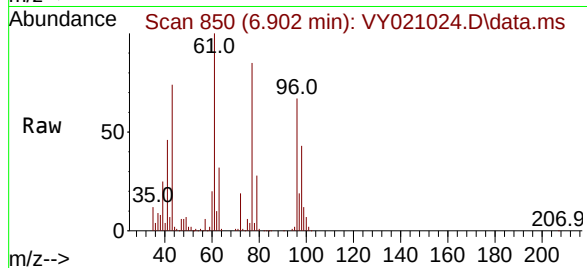
98 63.9 0.0 130.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#28

Bromochloromethane

Concen: 130.955 ug/l

RT: 7.256 min Scan# 908

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

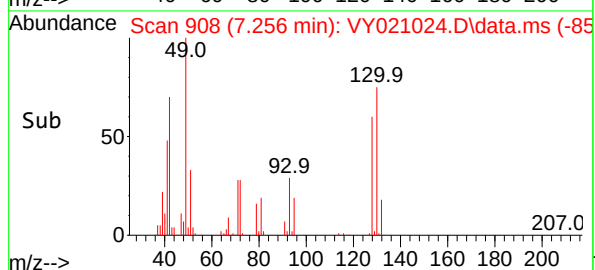
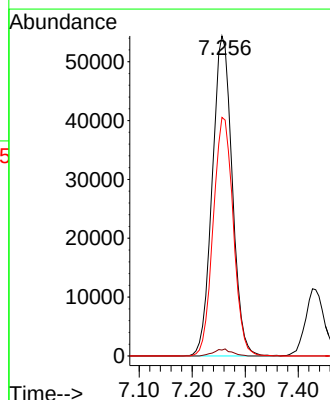
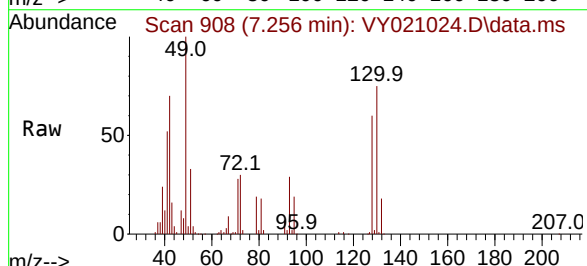
Tgt Ion: 49 Resp: 142156

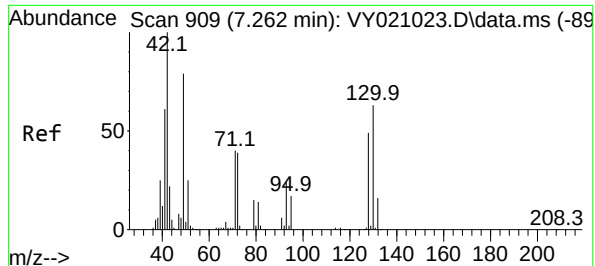
Ion Ratio Lower Upper

49 100

129 2.0 0.0 5.0

130 74.8 73.2 109.8





#29

Tetrahydrofuran

Concen: 607.855 ug/l

RT: 7.274 min Scan# 911

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 153104

Ion Ratio Lower Upper

42 100

72 43.3 39.3 58.9

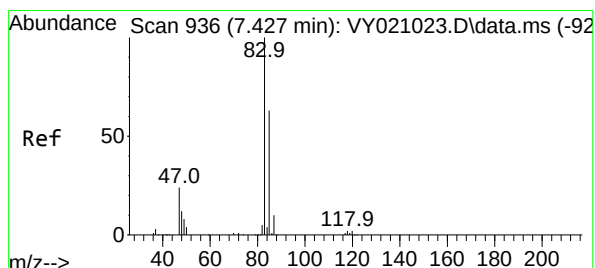
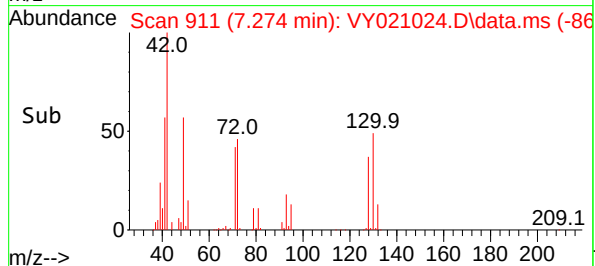
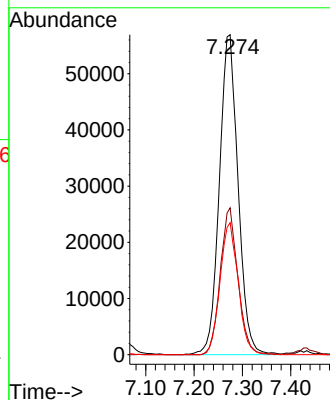
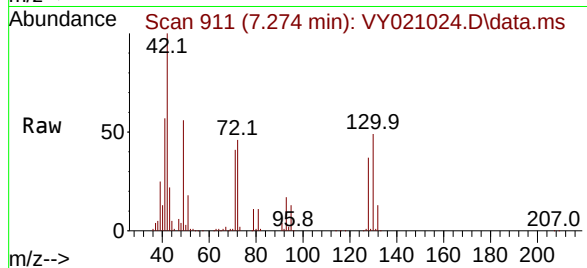
71 40.2 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#30

Chloroform

Concen: 111.040 ug/l

RT: 7.433 min Scan# 937

Delta R.T. 0.006 min

Lab File: VY021024.D

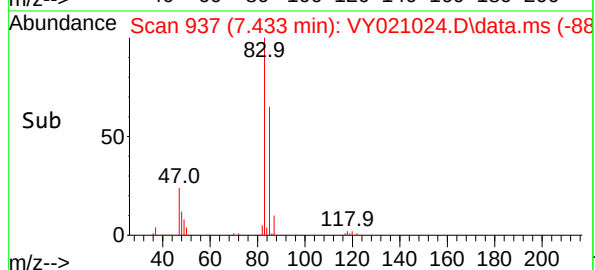
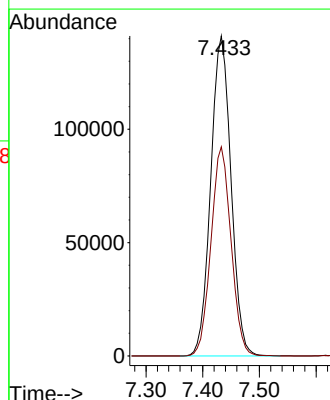
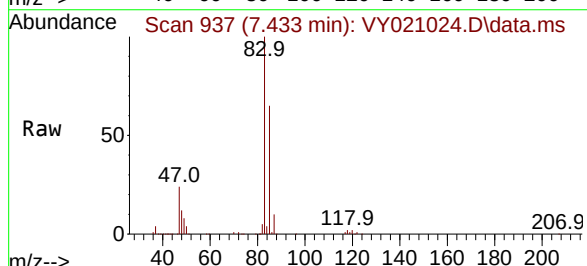
Acq: 03 Feb 2025 12:21

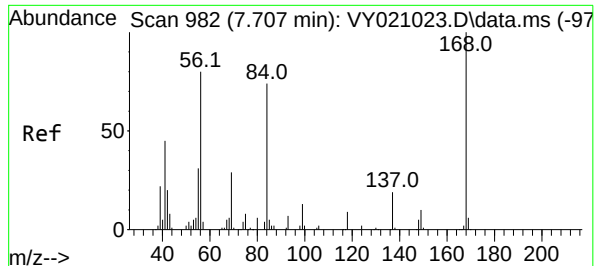
Tgt Ion: 83 Resp: 350416

Ion Ratio Lower Upper

83 100

85 65.4 52.9 79.3





#31

Cyclohexane

Concen: 104.021 ug/l

RT: 7.713 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 29624

Ion Ratio Lower Upper

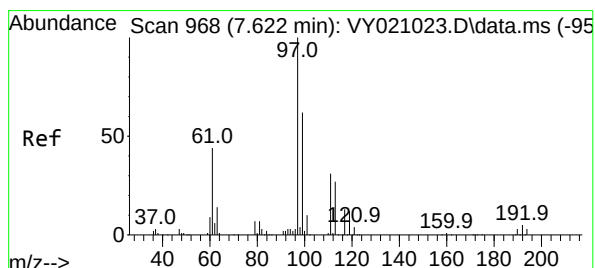
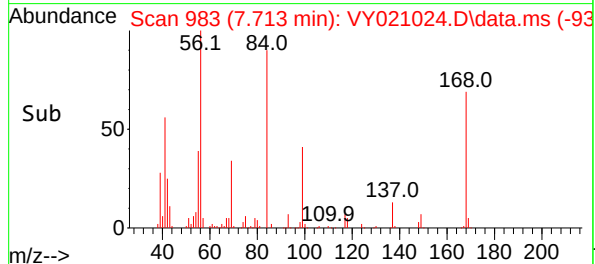
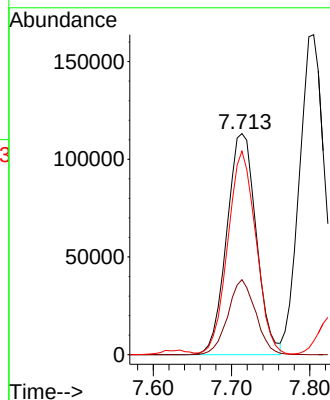
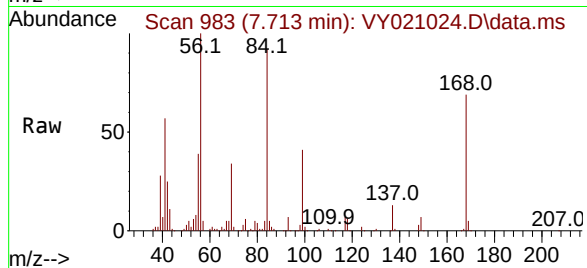
56 100

69 33.9 27.7 41.5

84 90.1 77.5 116.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#32

1,1,1-Trichloroethane

Concen: 107.493 ug/l

RT: 7.628 min Scan# 969

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

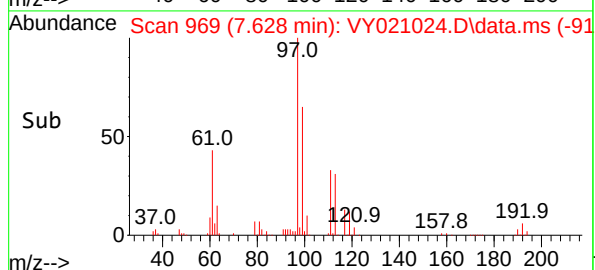
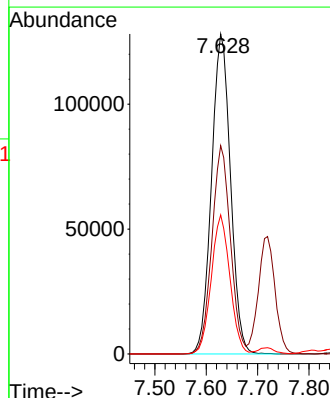
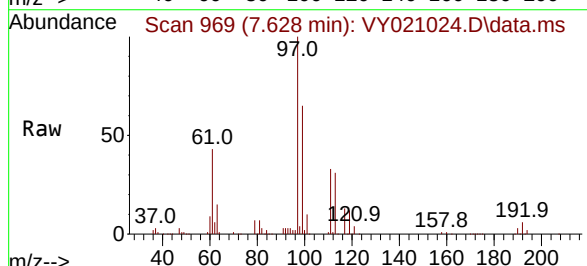
Tgt Ion: 97 Resp: 328296

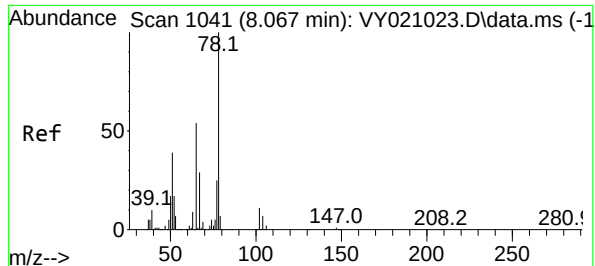
Ion Ratio Lower Upper

97 100

99 63.7 51.4 77.0

61 42.7 31.4 47.0





#33

1,2-Dichloroethane-d4

Concen: 106.741 ug/l

RT: 8.073 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 17279

Ion Ratio Lower Upper

65 100

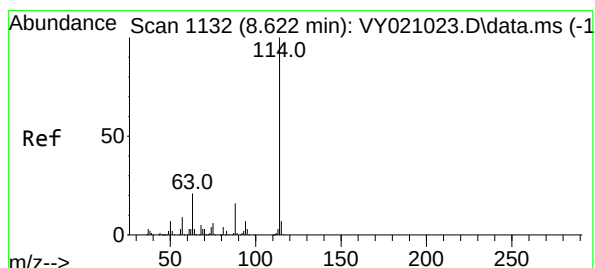
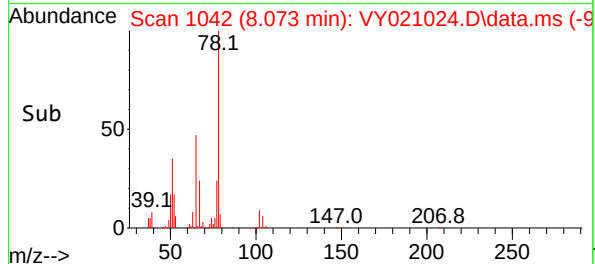
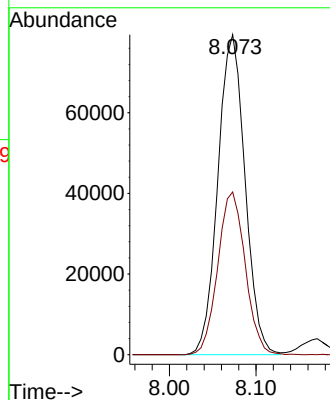
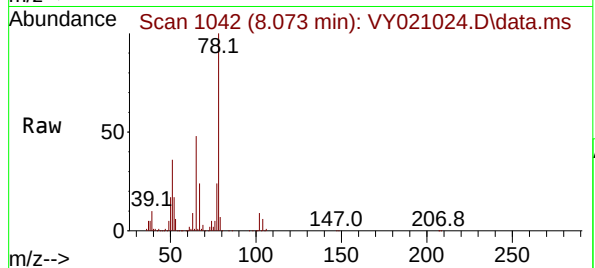
67 51.4 0.0 104.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

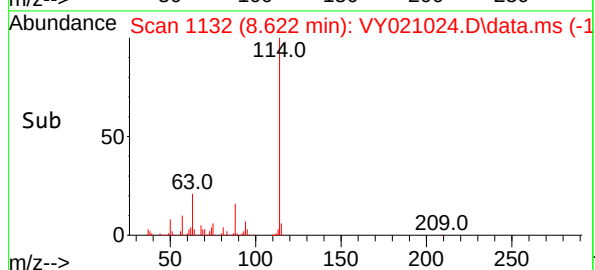
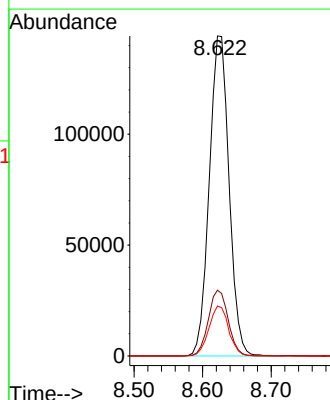
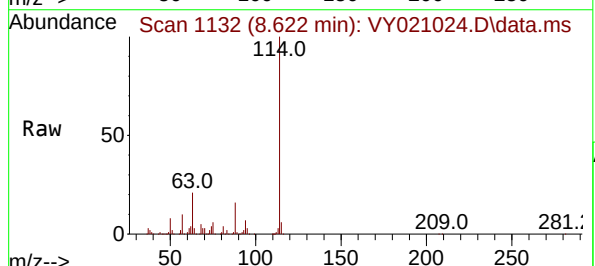
Tgt Ion:114 Resp: 289157

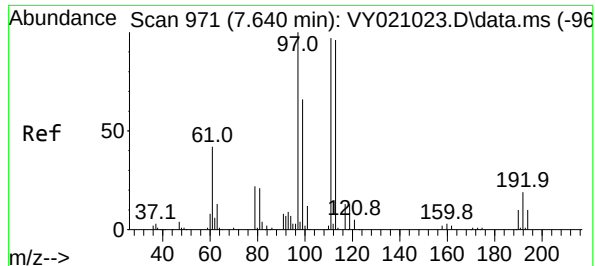
Ion Ratio Lower Upper

114 100

63 20.6 0.0 37.2

88 15.6 0.0 29.6





#35

Dibromofluoromethane

Concen: 98.858 ug/l

RT: 7.646 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion:113 Resp: 17185

Ion Ratio Lower Upper

113 100

111 103.1 82.6 123.8

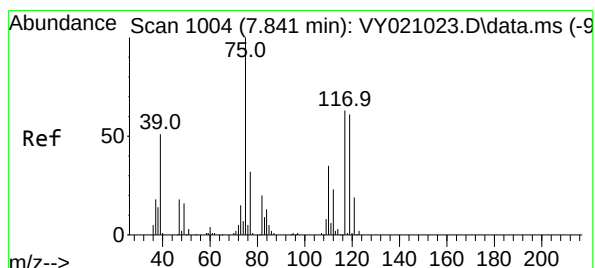
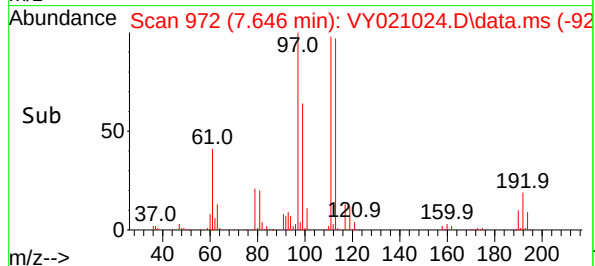
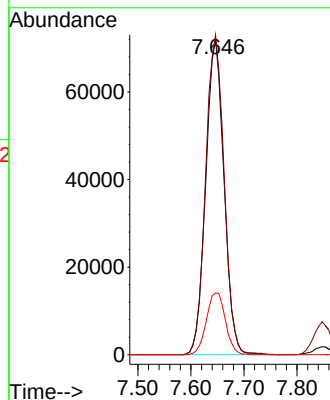
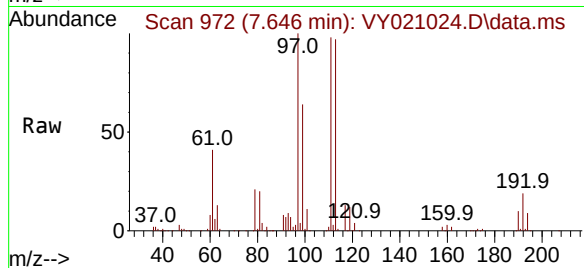
192 20.5 16.8 25.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#36

1,1-Dichloropropene

Concen: 104.370 ug/l

RT: 7.847 min Scan# 1005

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

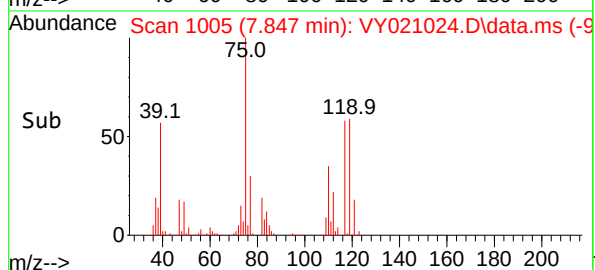
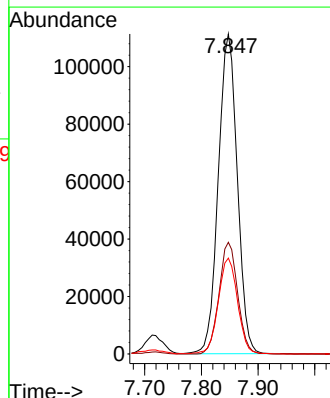
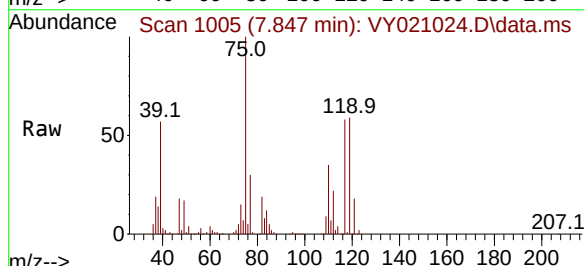
Tgt Ion: 75 Resp: 258833

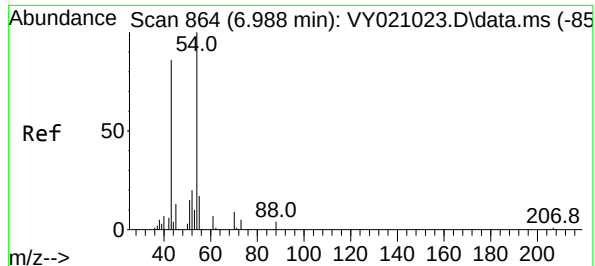
Ion Ratio Lower Upper

75 100

110 34.2 18.4 55.2

77 30.5 24.9 37.3





#37

Ethyl Acetate

Concen: 117.685 ug/l

RT: 6.994 min Scan# 80

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 10880

Ion Ratio Lower Upper

43 100

61 14.4 11.4 17.0

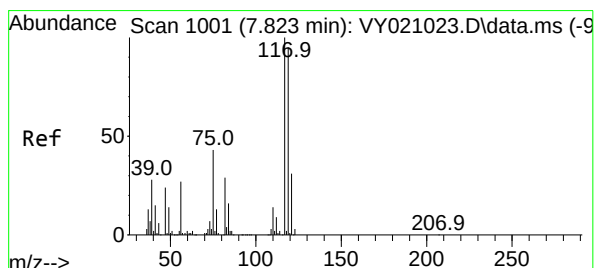
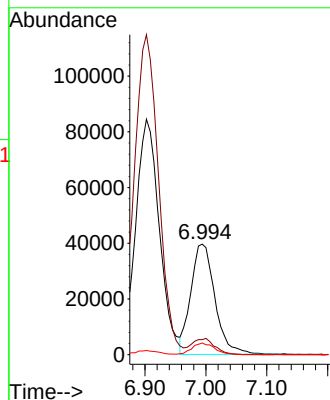
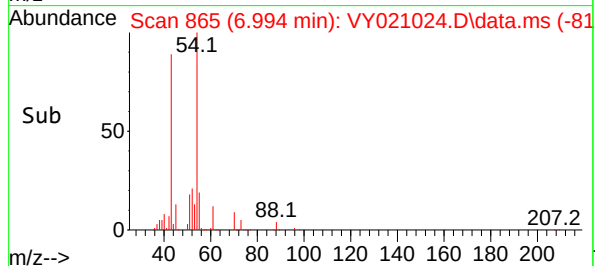
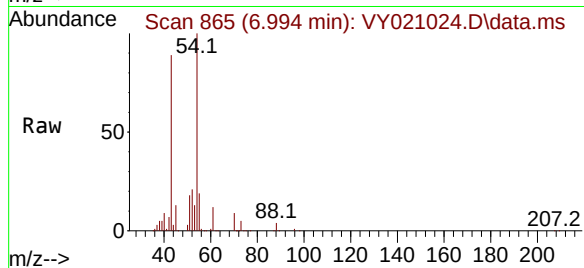
70 9.9 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#38

Carbon Tetrachloride

Concen: 98.406 ug/l

RT: 7.829 min Scan# 1002

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

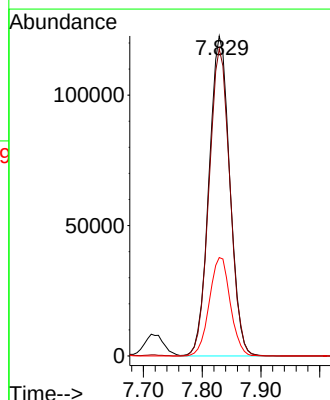
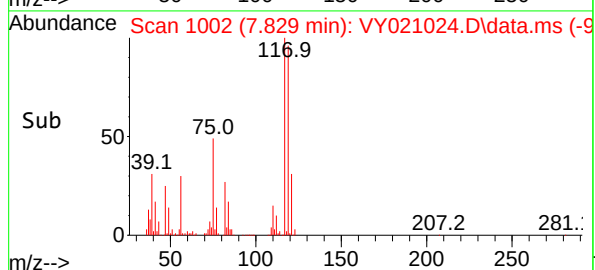
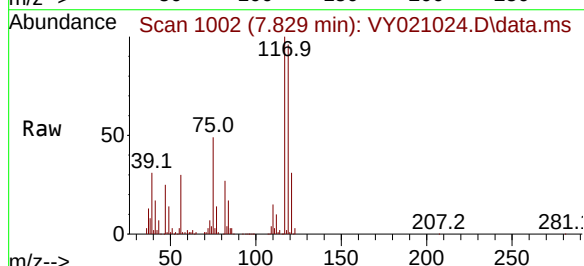
Tgt Ion:117 Resp: 302001

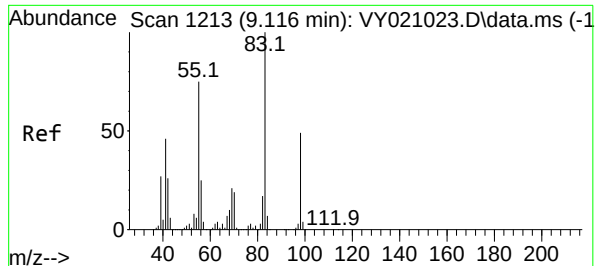
Ion Ratio Lower Upper

117 100

119 96.0 75.0 112.6

121 30.8 24.2 36.2





#39

Methylcyclohexane

Concen: 99.014 ug/l

RT: 9.115 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 32986

Ion Ratio Lower Upper

83 100

55 75.9 54.9 82.3

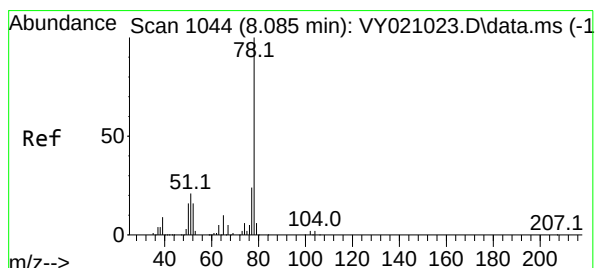
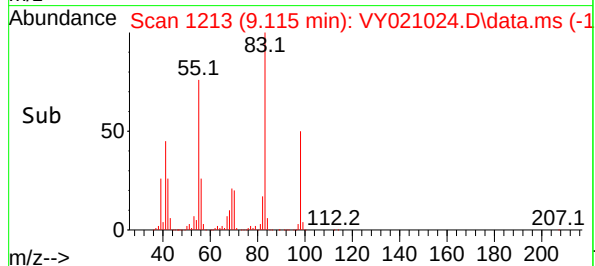
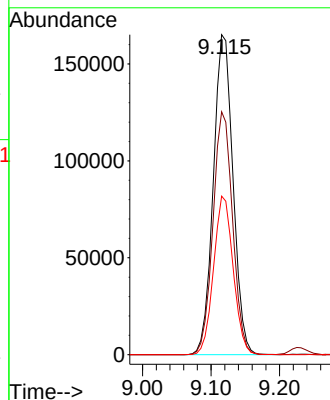
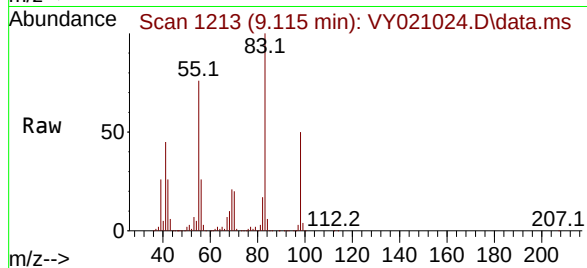
98 49.5 40.5 60.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#40

Benzene

Concen: 104.883 ug/l

RT: 8.091 min Scan# 1045

Delta R.T. 0.006 min

Lab File: VY021024.D

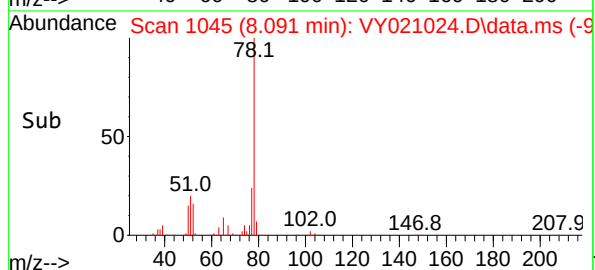
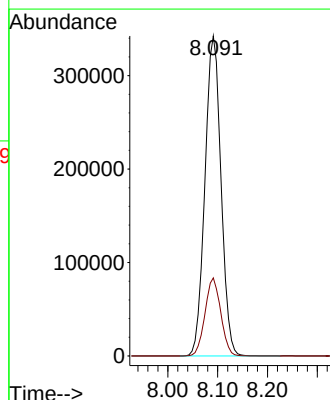
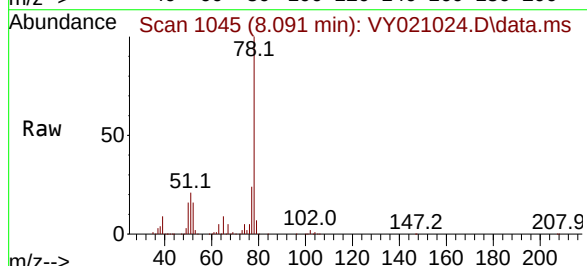
Acq: 03 Feb 2025 12:21

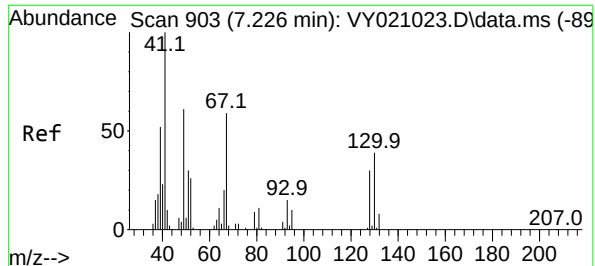
Tgt Ion: 78 Resp: 765340

Ion Ratio Lower Upper

78 100

77 24.4 19.4 29.2





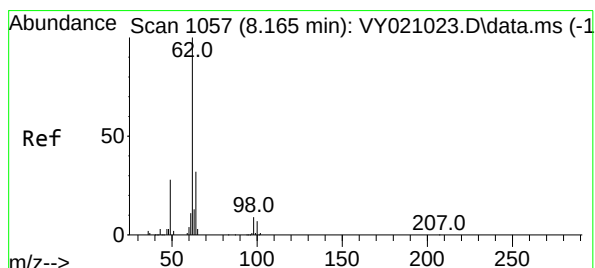
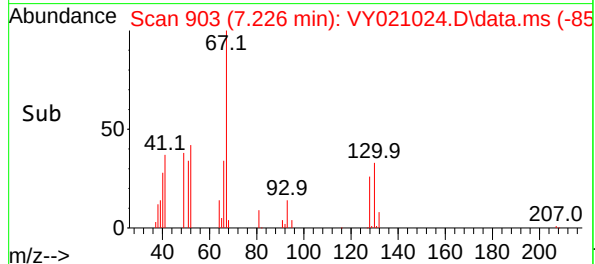
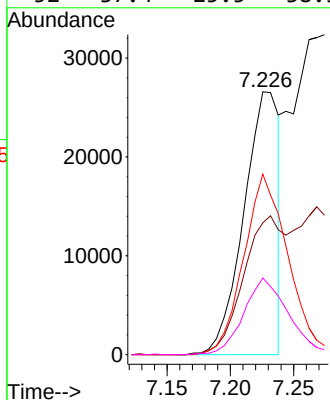
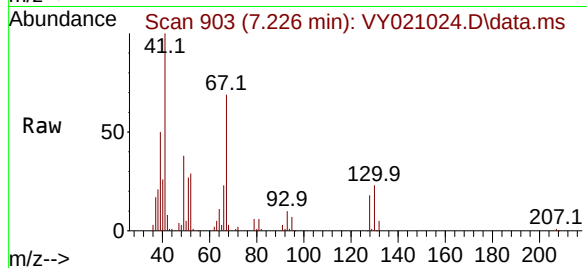
#41
Methacrylonitrile
Concen: 100.841 ug/l
RT: 7.226 min Scan# 903
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Instrument :
MSVOA_Y
Client Sample Id :
VSTDICC100

Tgt Ion: 41 Resp: 51580
Ion Ratio Lower Upper
41 100
39 62.0 41.6 62.4
67 86.8 63.8 95.6
52 37.4 25.5 38.3

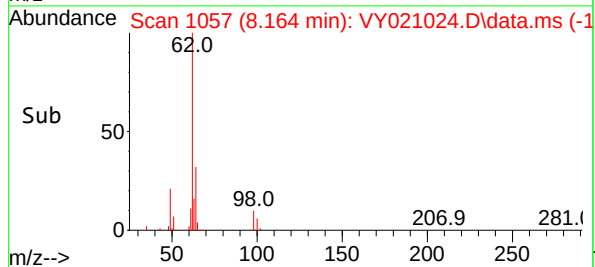
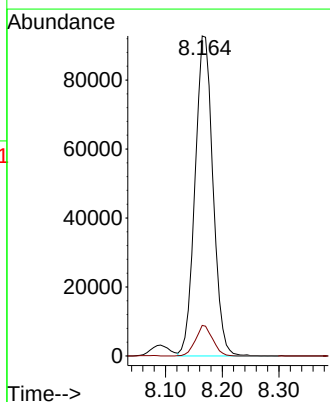
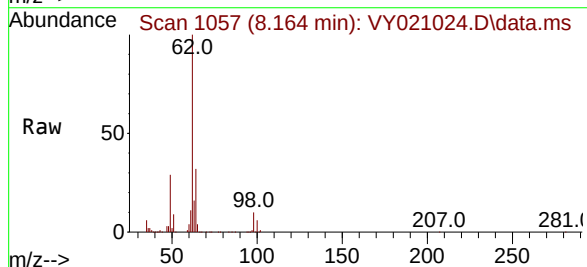
Manual Integrations
APPROVED

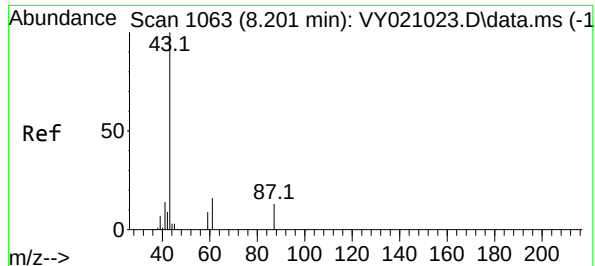
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#42
1,2-Dichloroethane
Concen: 110.147 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion: 62 Resp: 203840
Ion Ratio Lower Upper
62 100
98 9.1 0.0 19.4





#43

Isopropyl Acetate

Concen: 121.752 ug/l

RT: 8.207 min Scan# 1064

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 22488

Ion Ratio Lower Upper

43 100

61 28.6 15.8 23.6

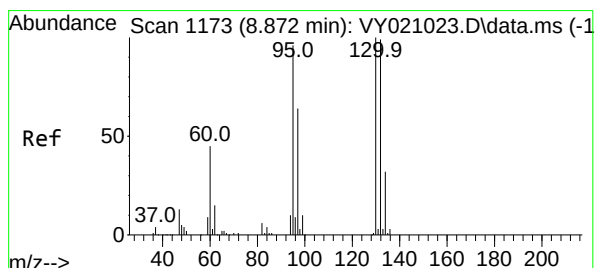
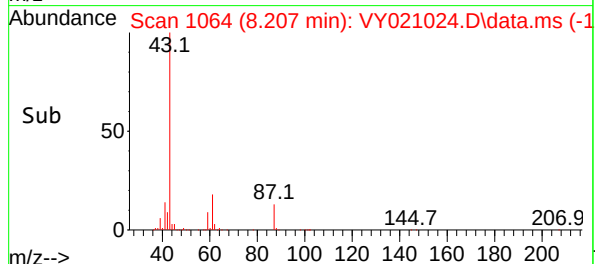
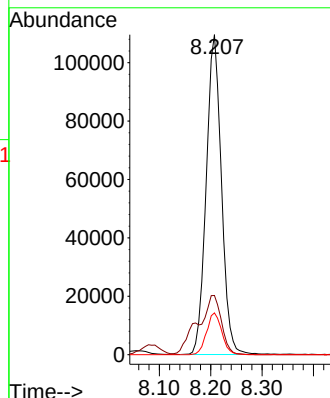
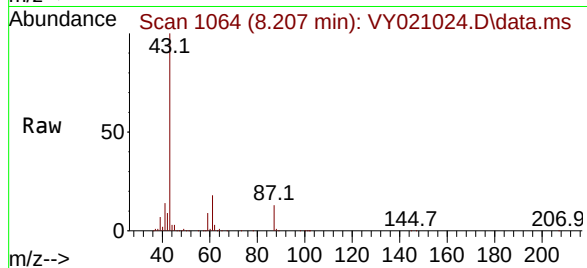
87 13.1 12.5 18.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#44

Trichloroethene

Concen: 97.046 ug/l

RT: 8.872 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VY021024.D

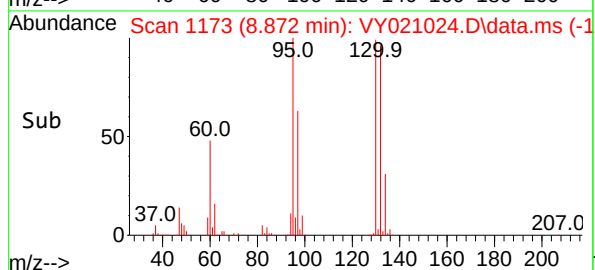
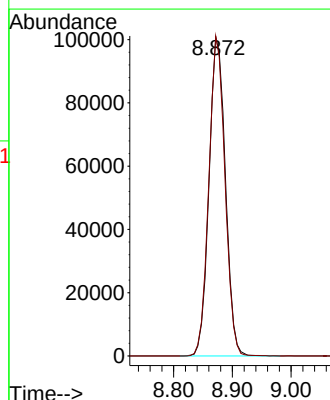
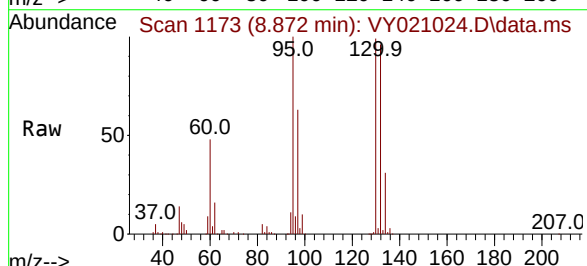
Acq: 03 Feb 2025 12:21

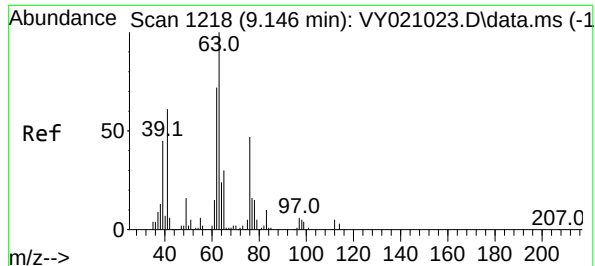
Tgt Ion:130 Resp: 195403

Ion Ratio Lower Upper

130 100

95 100.5 0.0 189.6





#45

1,2-Dichloropropane

Concen: 110.034 ug/l

RT: 9.152 min Scan# 1219

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 17996

Ion Ratio Lower Upper

63 100

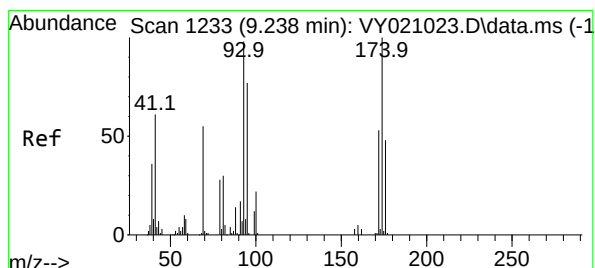
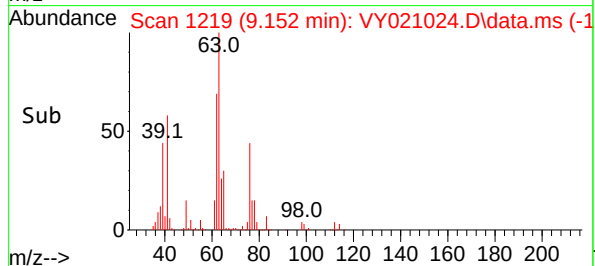
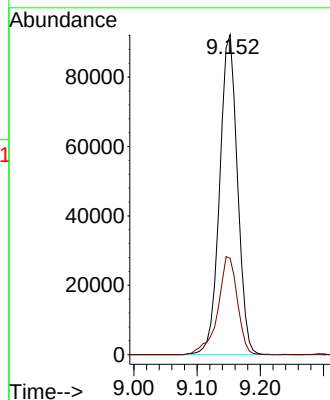
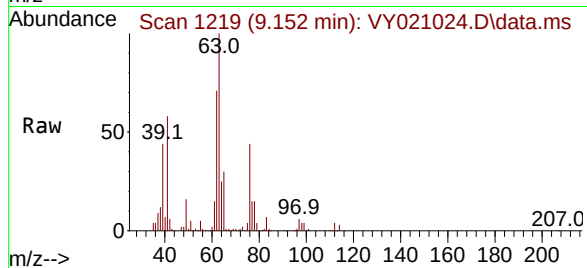
65 30.1 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#46

Dibromomethane

Concen: 100.827 ug/l

RT: 9.237 min Scan# 1233

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

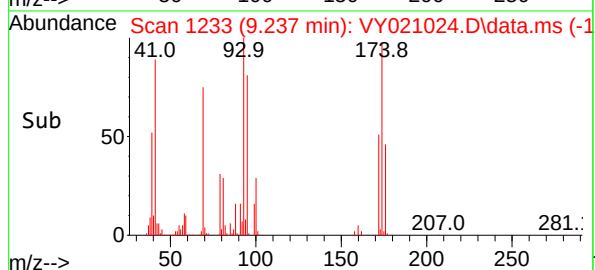
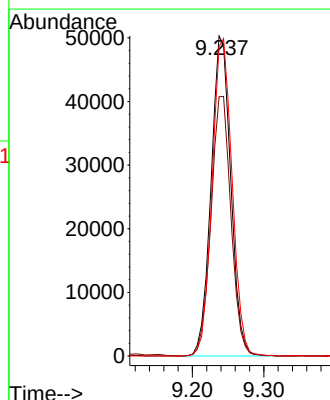
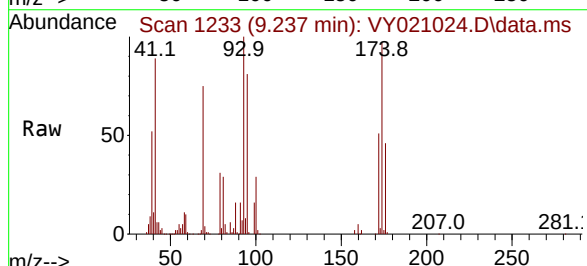
Tgt Ion: 93 Resp: 95968

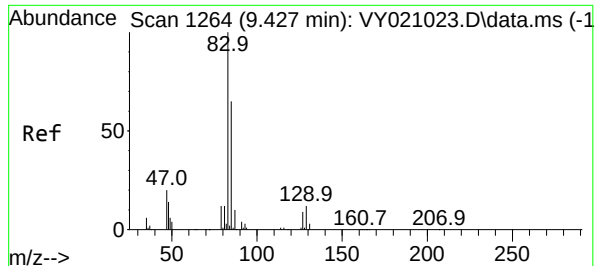
Ion Ratio Lower Upper

93 100

95 82.3 65.8 98.8

174 100.7 88.1 132.1





#47

Bromodichloromethane

Concen: 106.226 ug/l

RT: 9.432 min Scan# 1265

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 265518

Ion Ratio Lower Upper

83 100

85 63.9 49.6 74.4

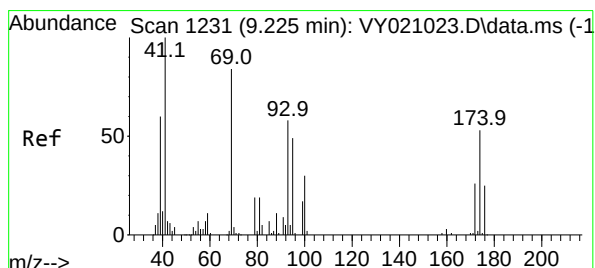
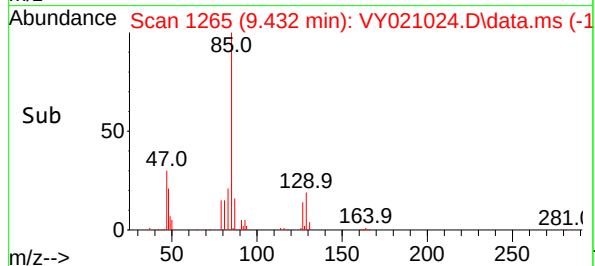
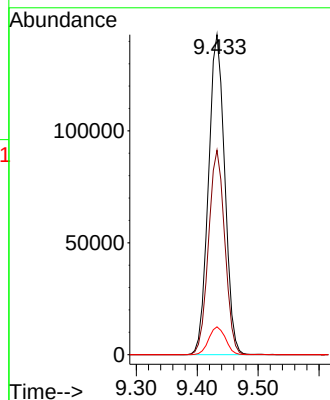
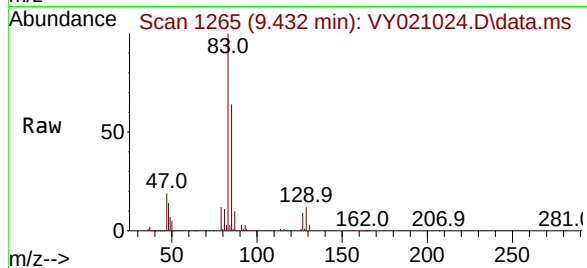
127 8.7 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#48

Methyl methacrylate

Concen: 122.427 ug/l

RT: 9.225 min Scan# 1231

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

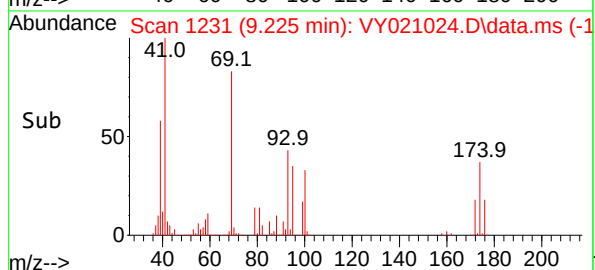
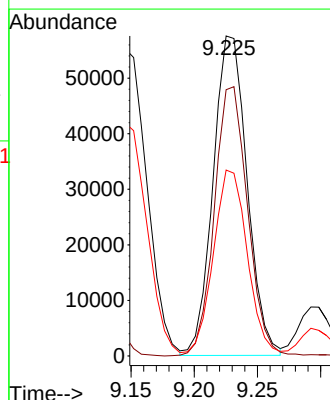
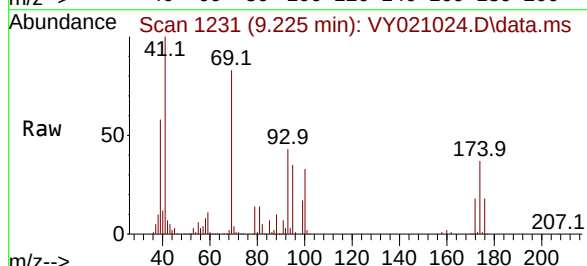
Tgt Ion: 41 Resp: 107661

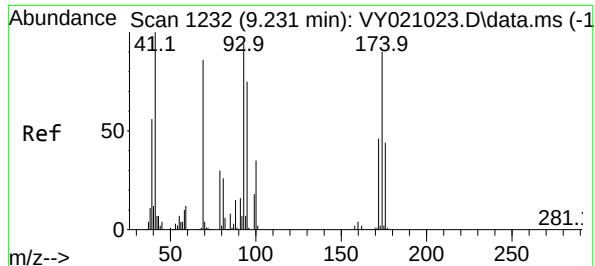
Ion Ratio Lower Upper

41 100

69 82.8 75.6 113.4

39 56.2 41.3 61.9





#49

1,4-Dioxane

Concen: 1817.108 ug/l

RT: 9.237 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 18378

Ion Ratio Lower Upper

88 100

43 37.9 24.2 36.4

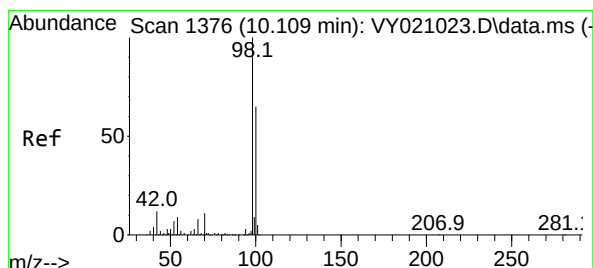
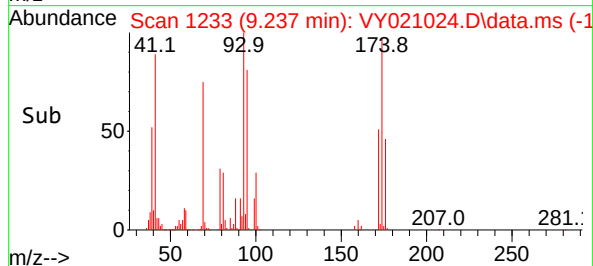
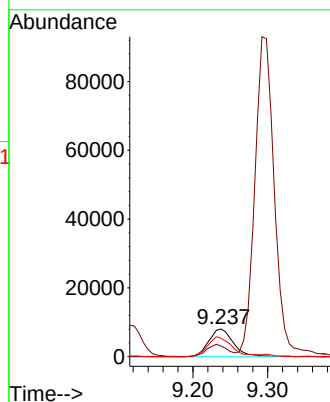
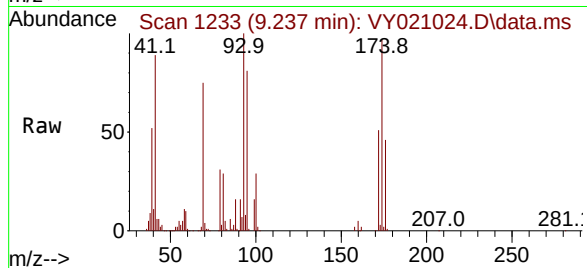
58 71.1 57.3 85.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#50

Toluene-d8

Concen: 98.702 ug/l

RT: 10.115 min Scan# 1377

Delta R.T. 0.006 min

Lab File: VY021024.D

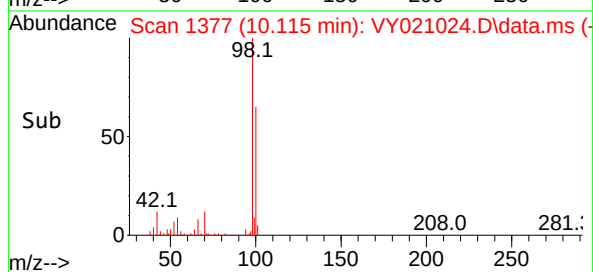
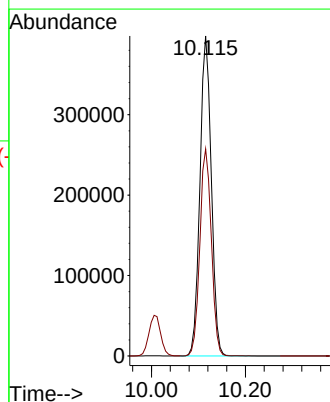
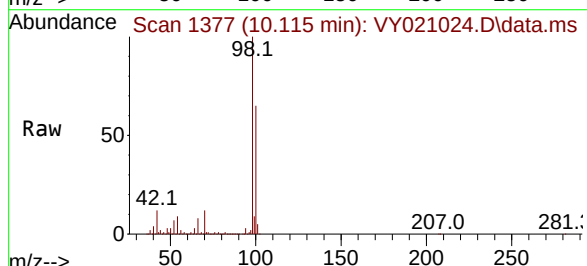
Acq: 03 Feb 2025 12:21

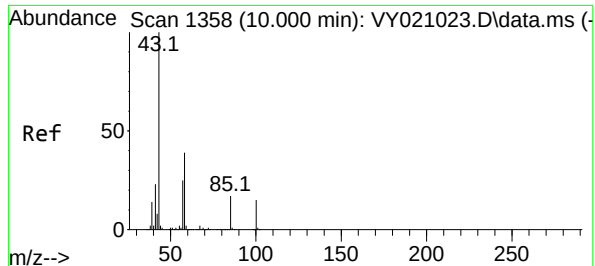
Tgt Ion: 98 Resp: 669691

Ion Ratio Lower Upper

98 100

100 65.5 52.6 79.0





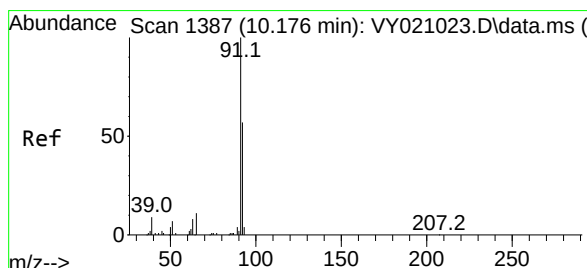
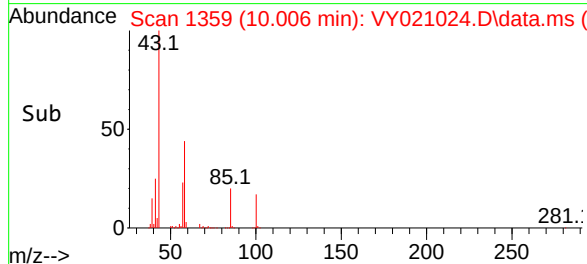
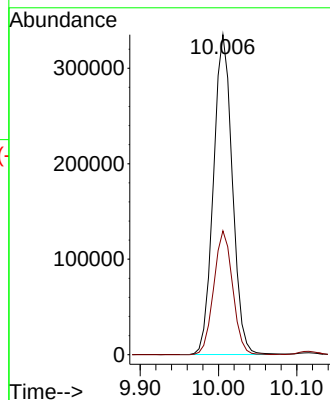
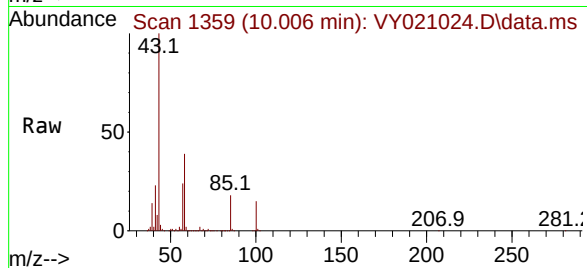
#51
4-Methyl-2-Pentanone
Concen: 592.226 ug/l
RT: 10.006 min Scan# 1358
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 56208
Ion Ratio Lower Upper
43 100
58 38.7 33.8 50.8

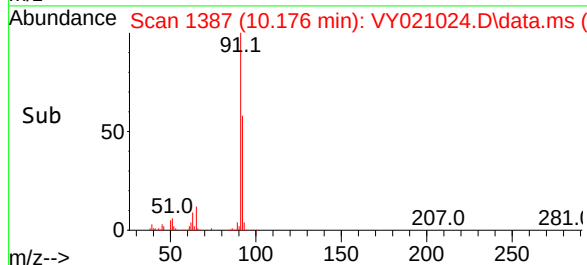
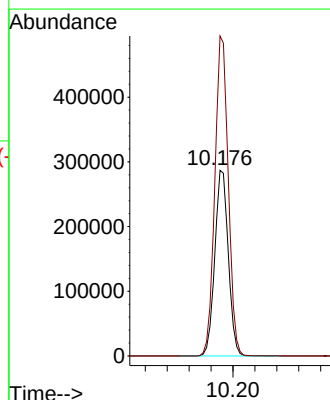
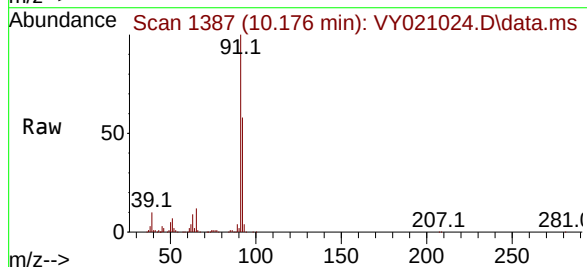
Manual Integrations
APPROVED

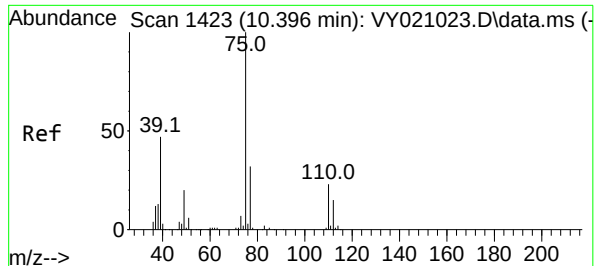
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#52
Toluene
Concen: 103.090 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

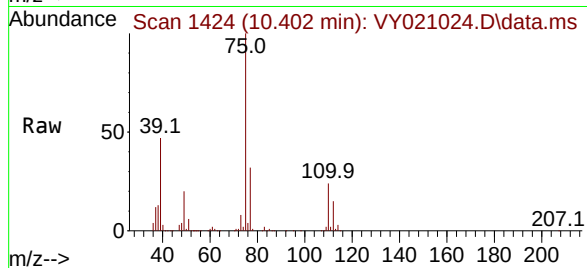
Tgt Ion: 92 Resp: 488296
Ion Ratio Lower Upper
92 100
91 171.7 135.8 203.8





#53
t-1,3-Dichloropropene
Concen: 109.097 ug/l
RT: 10.402 min Scan# 1424
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

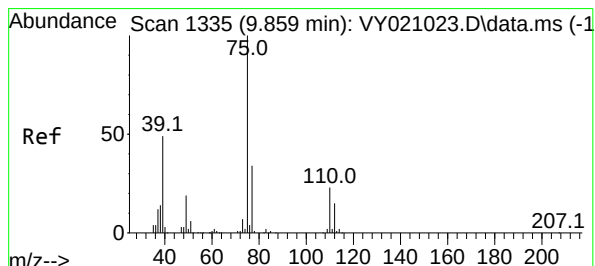
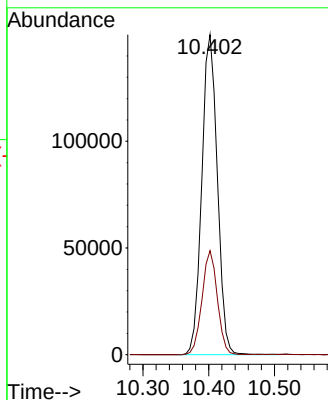
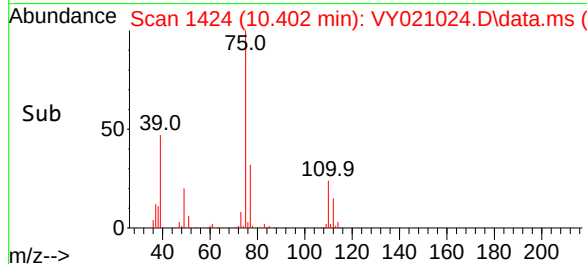
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 246769
Ion Ratio Lower Upper
75 100
77 32.5 25.9 38.9

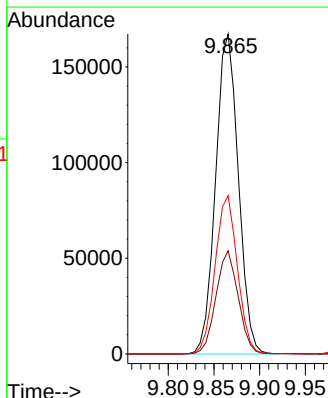
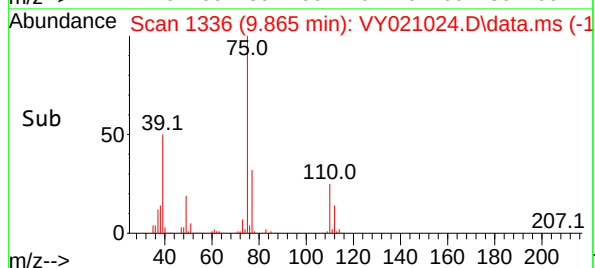
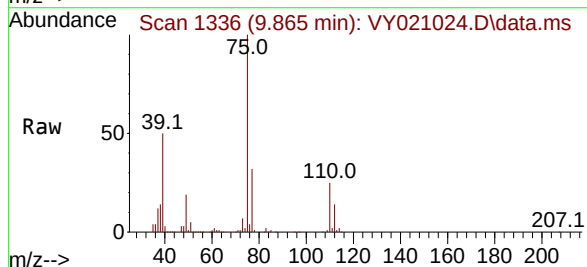
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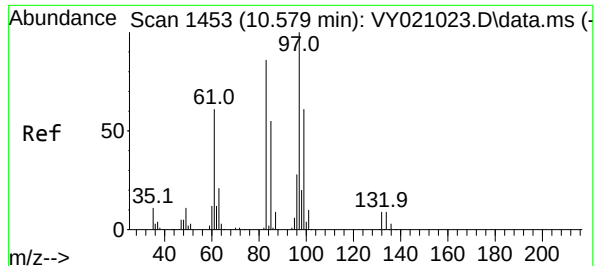
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#54
cis-1,3-Dichloropropene
Concen: 107.141 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion: 75 Resp: 289643
Ion Ratio Lower Upper
75 100
77 32.3 25.4 38.0
39 49.5 32.2 48.2#





#55

1,1,2-Trichloroethane

Concen: 99.248 ug/l

RT: 10.579 min Scan# 1453

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 125620

Ion Ratio Lower Upper

97 100

83 84.5 67.7 101.5

85 54.2 43.4 65.2

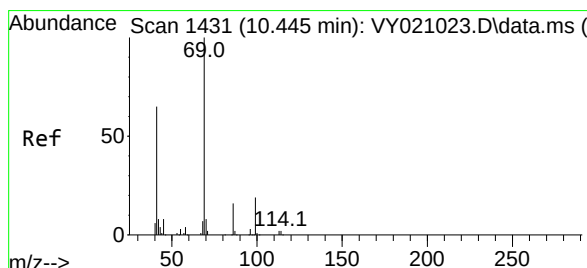
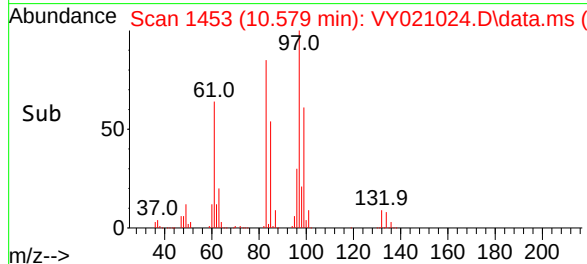
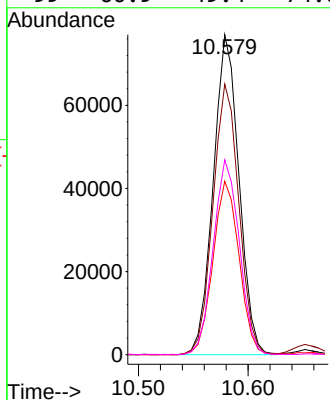
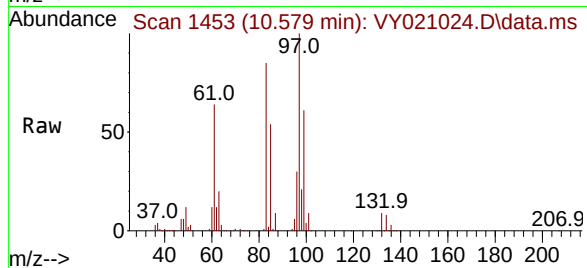
99 60.9 49.4 74.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#56

Ethyl methacrylate

Concen: 111.337 ug/l

RT: 10.445 min Scan# 1431

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

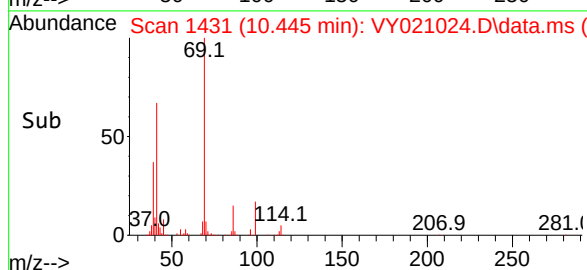
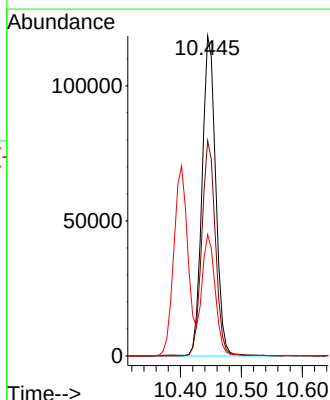
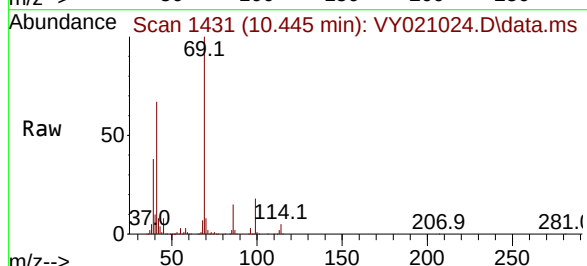
Tgt Ion: 69 Resp: 184212

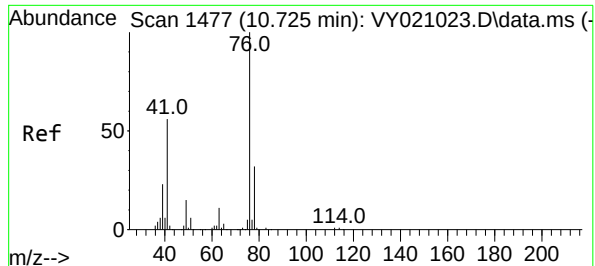
Ion Ratio Lower Upper

69 100

41 66.9 46.3 69.5

39 36.5 24.5 36.7





#57

1,3-Dichloropropane

Concen: 102.639 ug/l

RT: 10.725 min Scan# 1477

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 220204

Ion Ratio Lower Upper

76 100

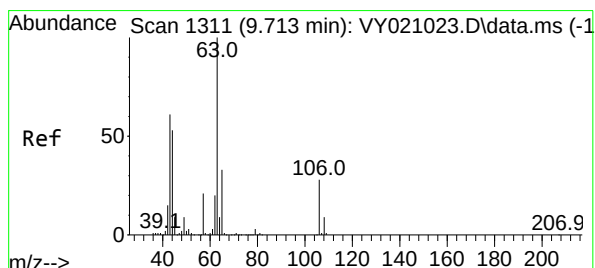
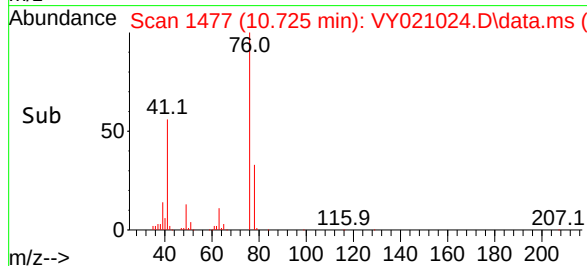
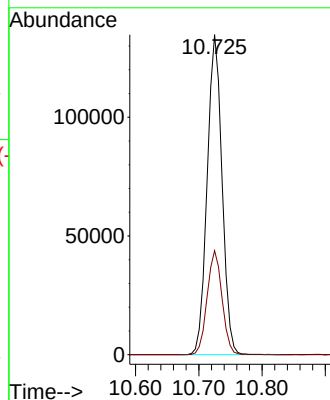
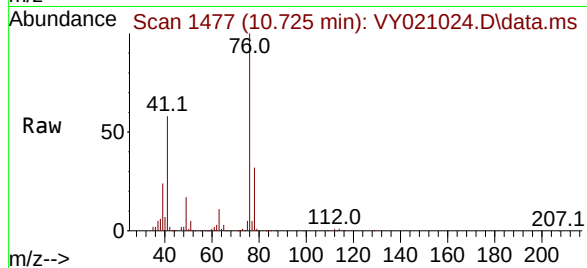
78 32.6 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#58

2-Chloroethyl Vinyl ether

Concen: 599.795 ug/l

RT: 9.719 min Scan# 1312

Delta R.T. 0.006 min

Lab File: VY021024.D

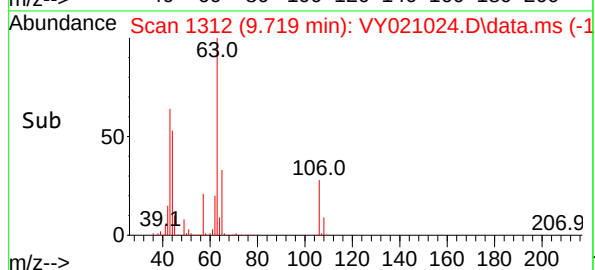
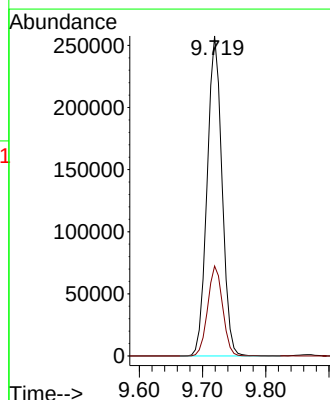
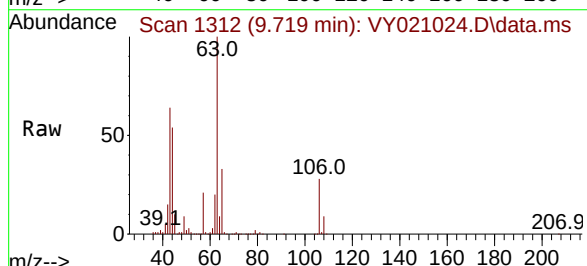
Acq: 03 Feb 2025 12:21

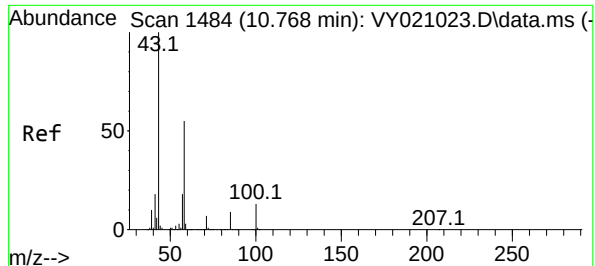
Tgt Ion: 63 Resp: 421206

Ion Ratio Lower Upper

63 100

106 28.2 24.7 37.1





#59

2-Hexanone

Concen: 605.028 ug/l

RT: 10.768 min Scan# 1484

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 373249

Ion Ratio Lower Upper

43 100

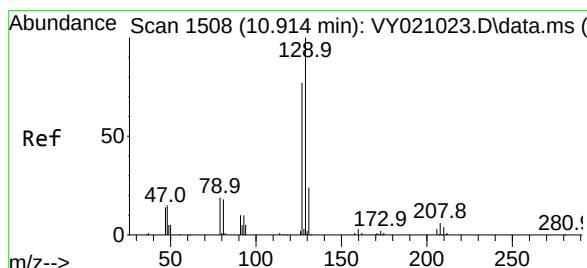
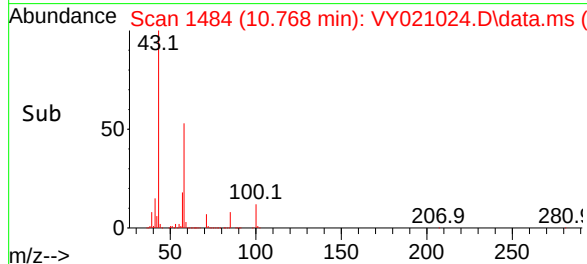
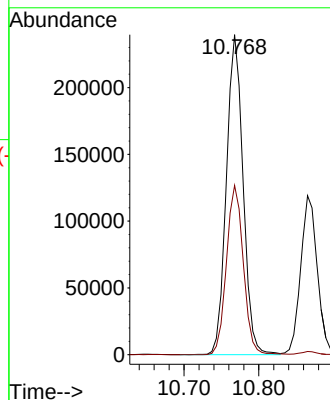
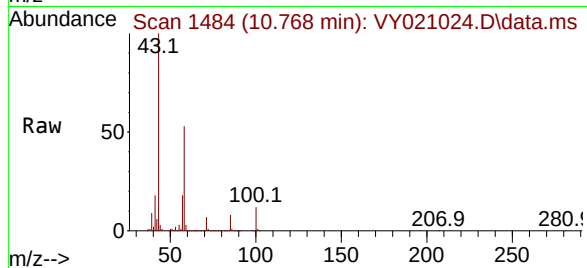
58 53.4 29.8 89.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#60

Dibromochloromethane

Concen: 99.202 ug/l

RT: 10.920 min Scan# 1509

Delta R.T. 0.006 min

Lab File: VY021024.D

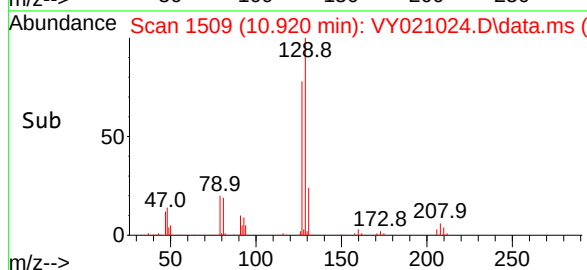
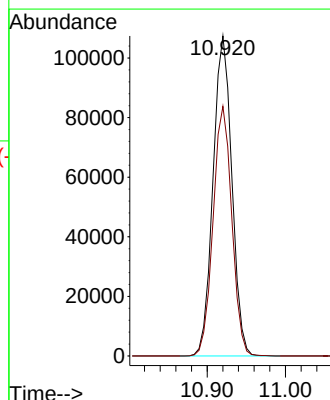
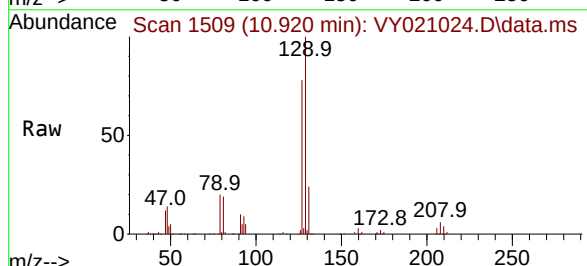
Acq: 03 Feb 2025 12:21

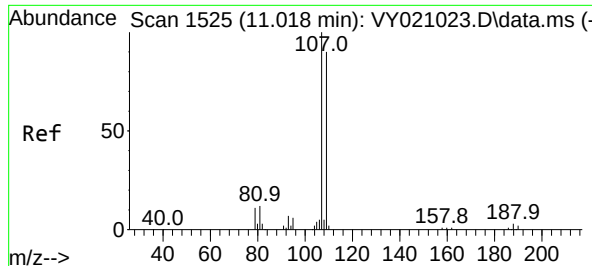
Tgt Ion:129 Resp: 179036

Ion Ratio Lower Upper

129 100

127 77.7 38.5 115.3





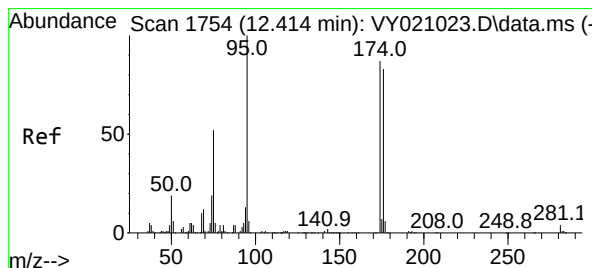
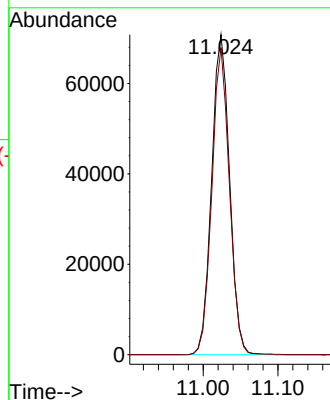
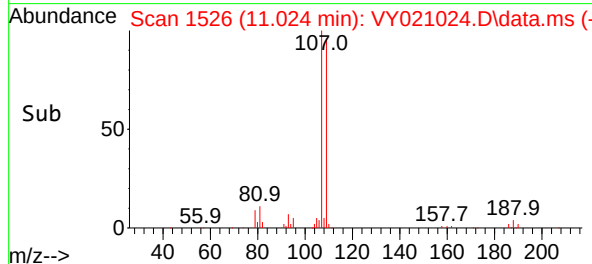
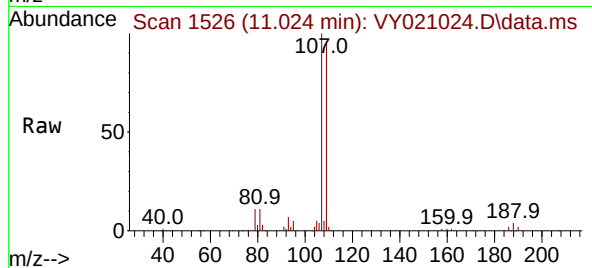
#61
1,2-Dibromoethane
Concen: 97.250 ug/l
RT: 11.024 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 117570
Ion Ratio Lower Upper
107 100
109 93.9 76.6 114.8

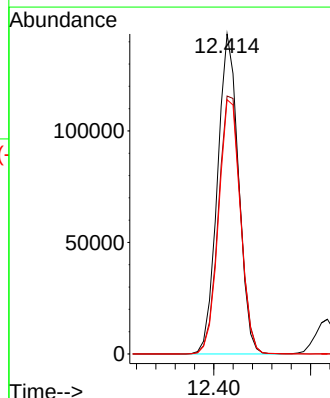
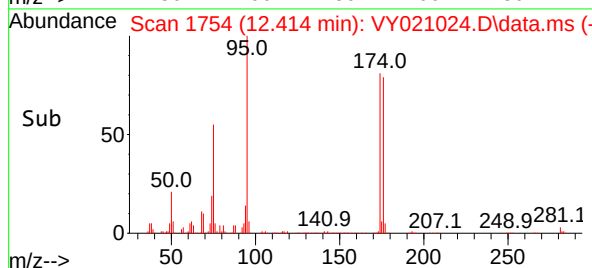
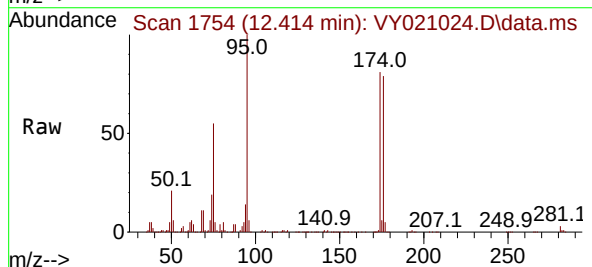
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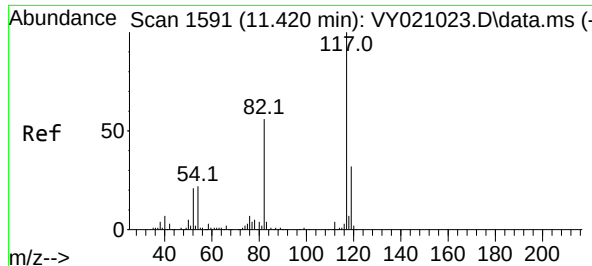
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#62
4-Bromofluorobenzene
Concen: 95.157 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

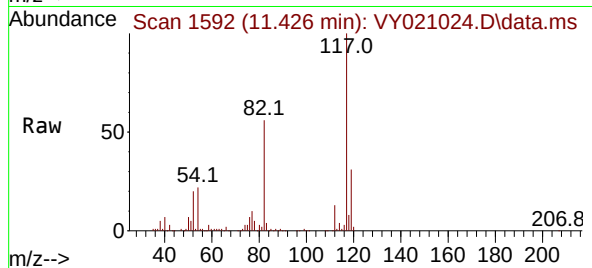
Tgt Ion: 95 Resp: 216644
Ion Ratio Lower Upper
95 100
174 84.9 0.0 181.2
176 82.0 0.0 175.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1592
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

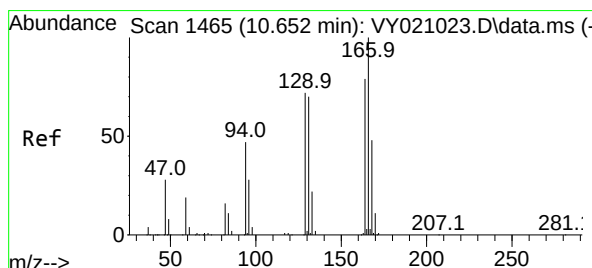
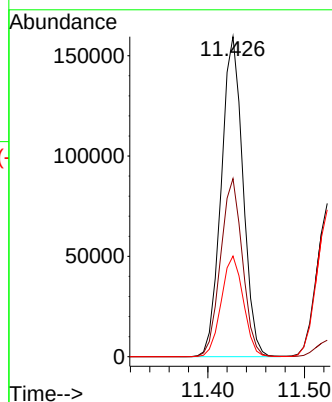
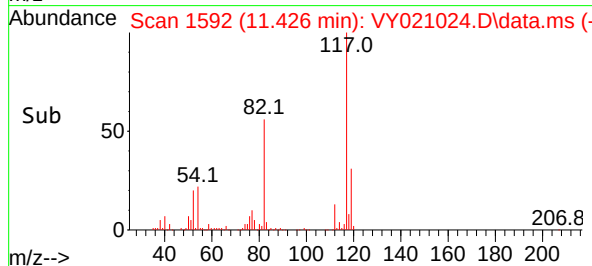
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100



Tgt Ion:117 Resp: 24817
Ion Ratio Lower Upper
117 100
82 55.6 44.2 66.2
119 31.5 25.9 38.9

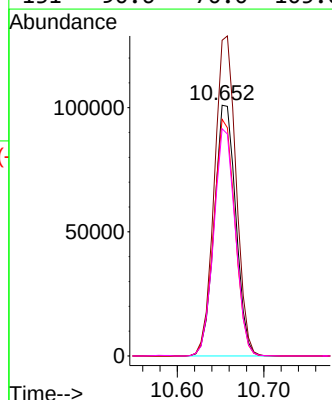
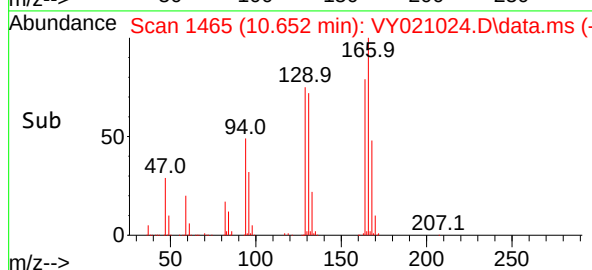
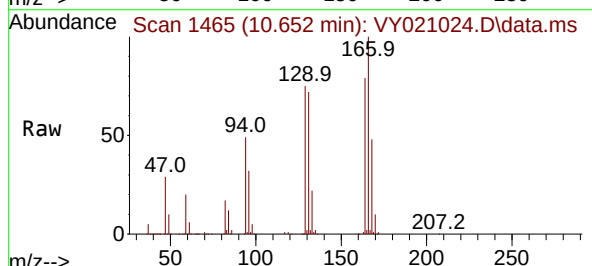
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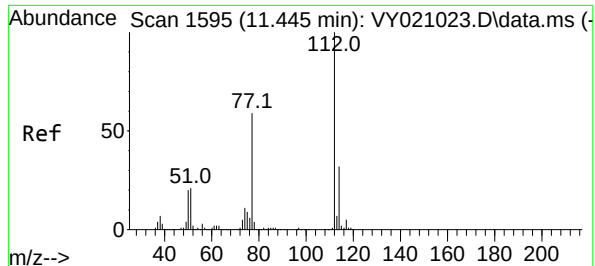
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#64
Tetrachloroethene
Concen: 93.066 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion:164 Resp: 174223
Ion Ratio Lower Upper
164 100
166 125.9 100.4 150.6
129 94.4 70.8 106.2
131 90.6 70.0 105.0





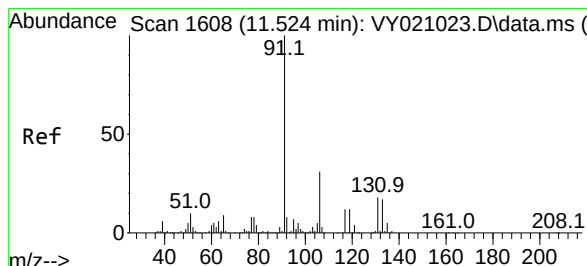
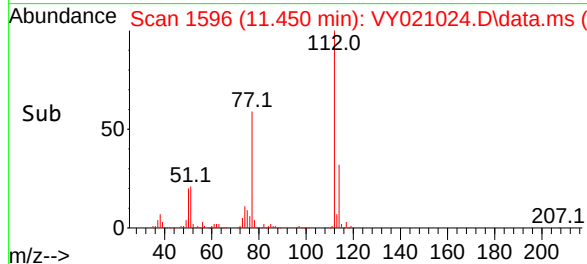
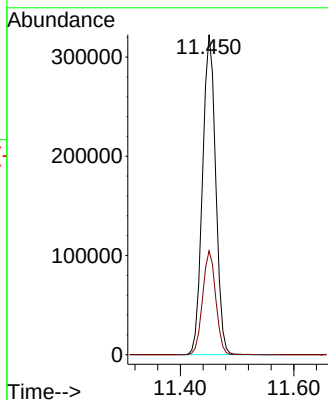
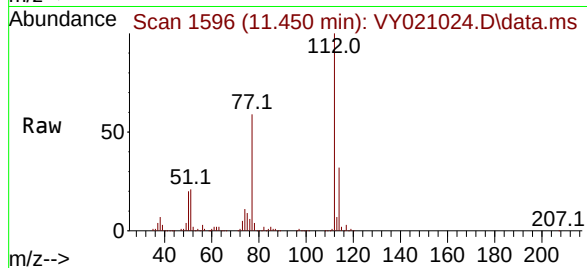
#65
Chlorobenzene
Concen: 99.441 ug/l
RT: 11.450 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 51994
Ion Ratio Lower Upper
112 100
114 32.5 24.6 37.0

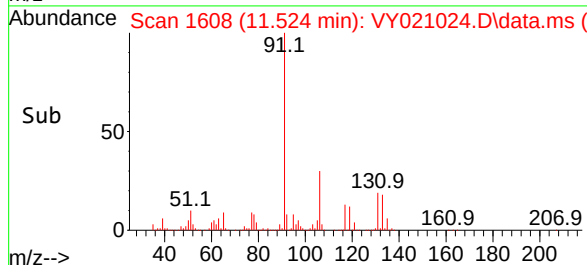
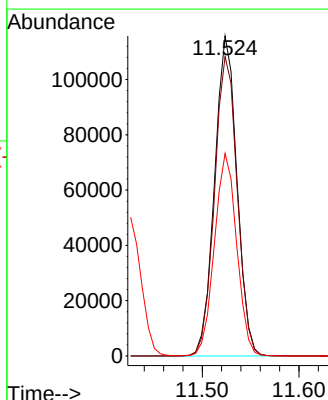
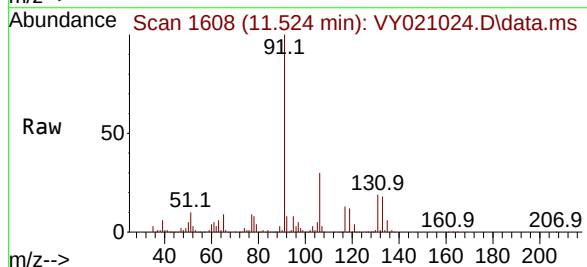
Manual Integrations
APPROVED

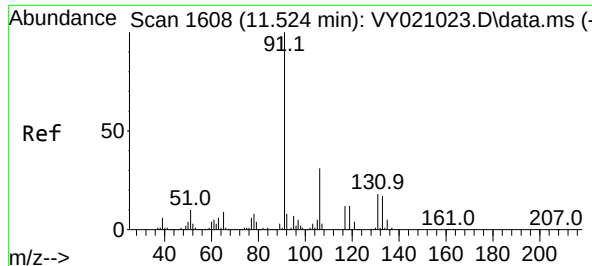
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 99.917 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion:131 Resp: 185418
Ion Ratio Lower Upper
131 100
133 95.2 48.7 146.1
119 63.0 31.4 94.3





#67

Ethyl Benzene

Concen: 104.939 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 95001

Ion Ratio Lower Upper

91 100

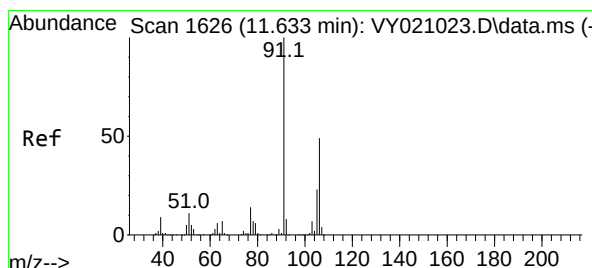
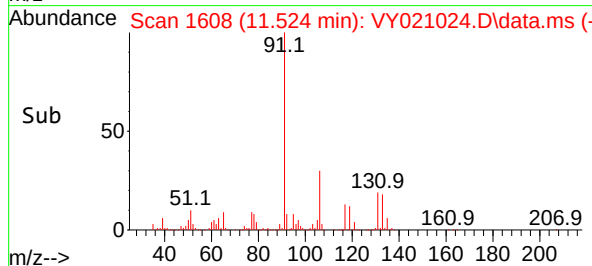
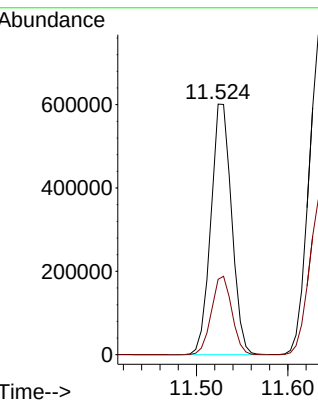
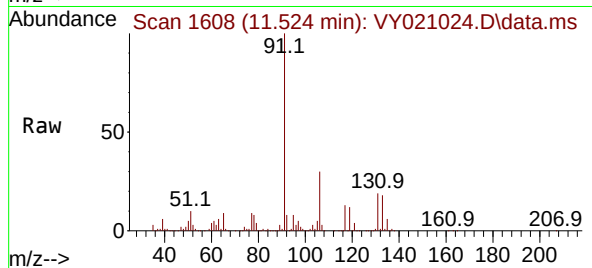
106 30.1 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#68

m/p-Xylenes

Concen: 202.801 ug/l

RT: 11.639 min Scan# 1627

Delta R.T. 0.006 min

Lab File: VY021024.D

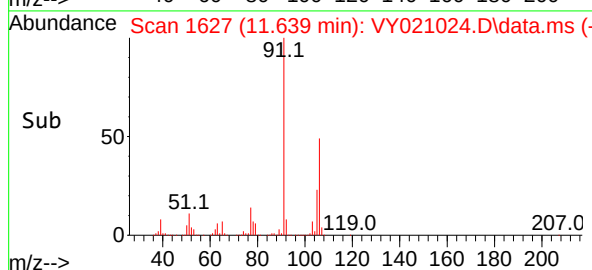
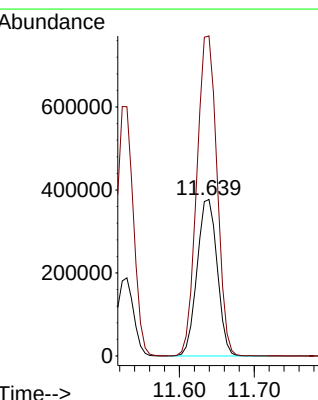
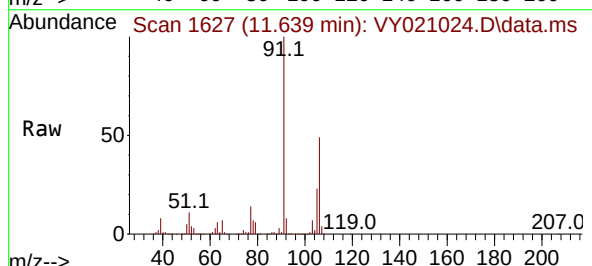
Acq: 03 Feb 2025 12:21

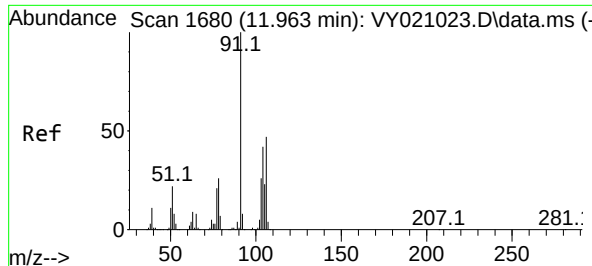
Tgt Ion:106 Resp: 705393

Ion Ratio Lower Upper

106 100

91 205.1 160.0 240.0





#69

o-Xylene

Concen: 102.783 ug/l

RT: 11.963 min Scan# 1680

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion:106 Resp: 332340

Ion Ratio Lower Upper

106 100

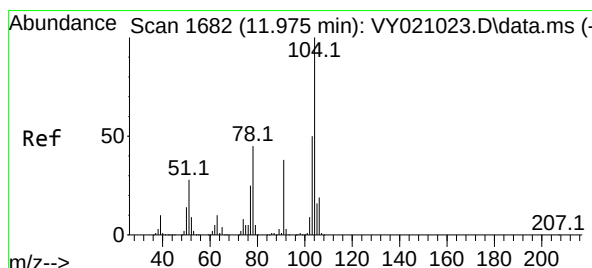
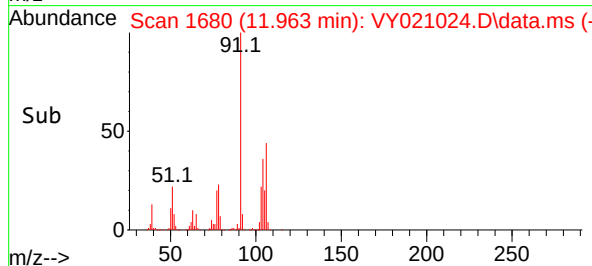
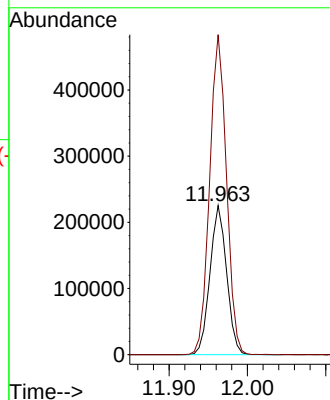
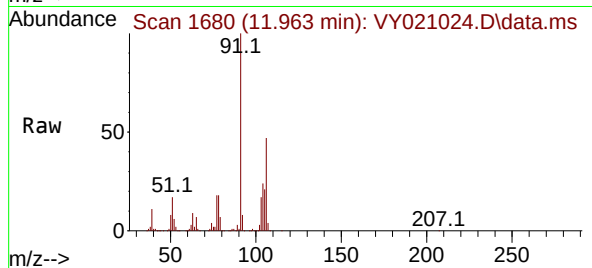
91 216.9 105.8 317.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#70

Styrene

Concen: 104.245 ug/l

RT: 11.975 min Scan# 1682

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

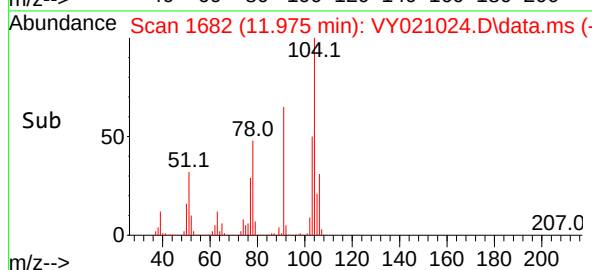
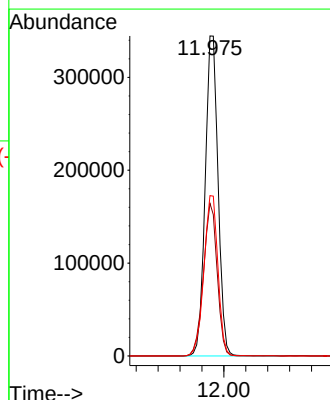
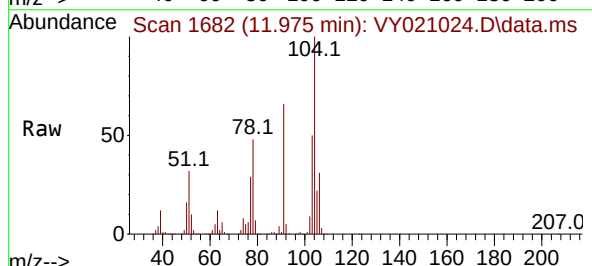
Tgt Ion:104 Resp: 559633

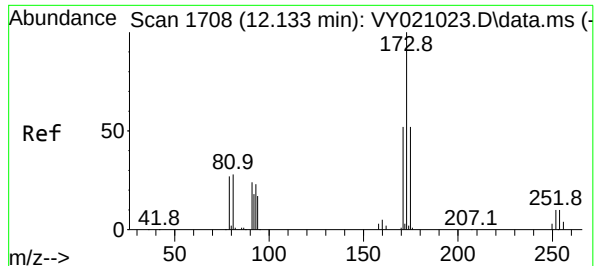
Ion Ratio Lower Upper

104 100

78 50.9 39.0 58.4

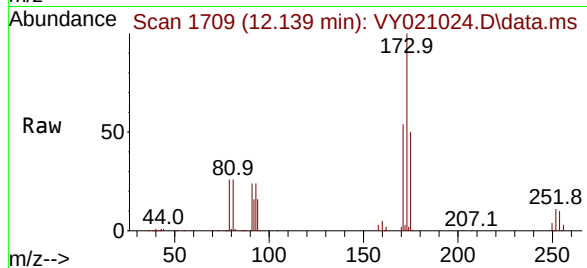
103 54.6 43.7 65.5





#71
Bromoform
Concen: 92.910 ug/l
RT: 12.139 min Scan# 1708
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

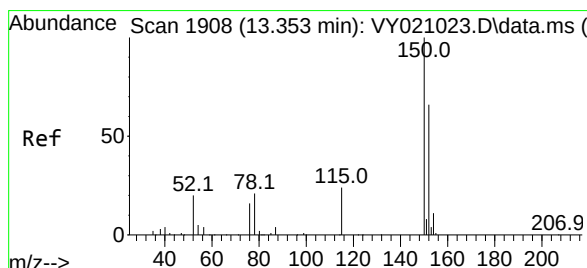
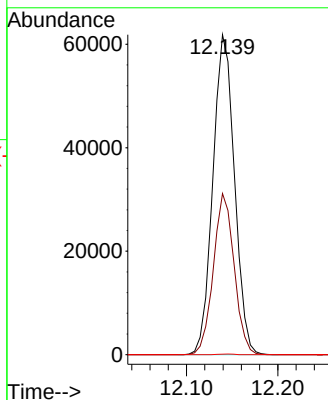
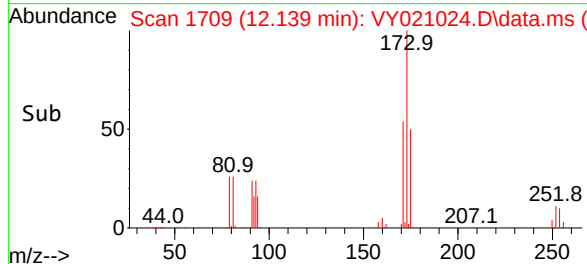
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100



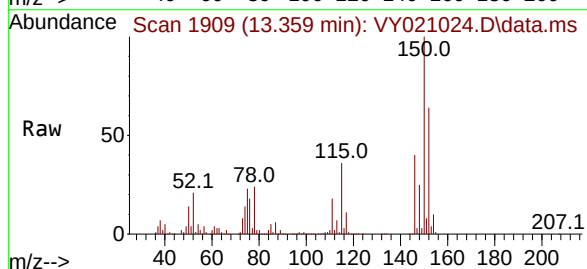
Tgt Ion:173 Resp: 10161
Ion Ratio Lower Upper
173 100
175 48.5 24.1 72.2
254 0.1 0.0 0.0

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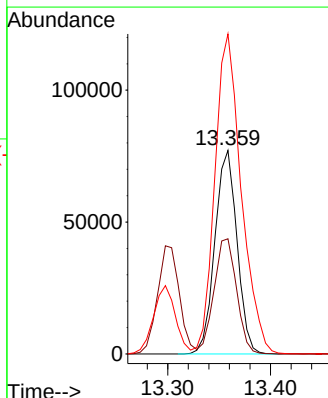
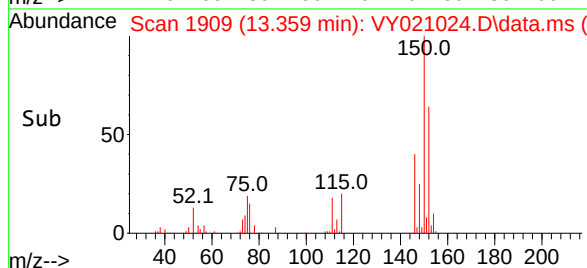
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

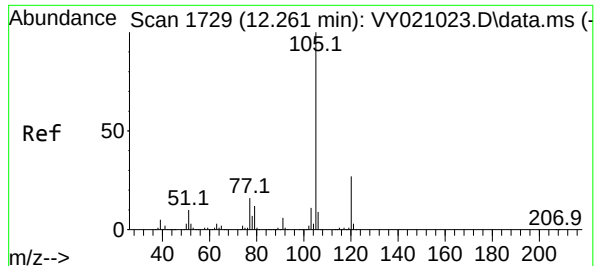


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21



Tgt Ion:152 Resp: 115163
Ion Ratio Lower Upper
152 100
115 58.0 28.4 85.2
150 188.0 0.0 342.8





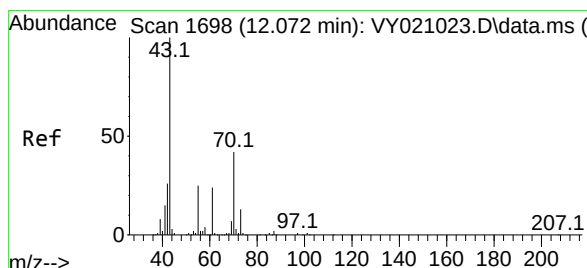
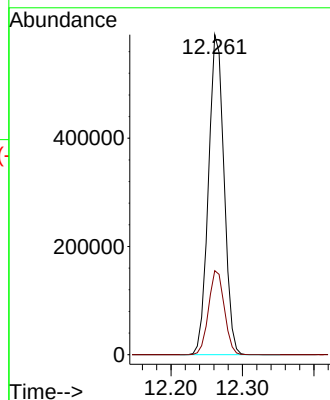
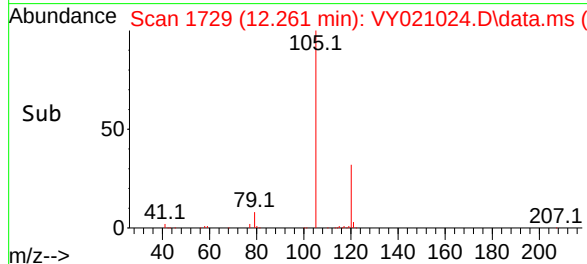
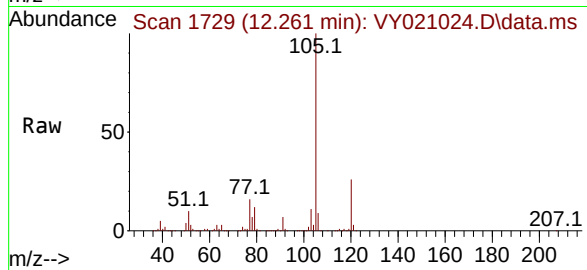
#73
Isopropylbenzene
Concen: 110.247 ug/l
RT: 12.261 min Scan# 1729
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 89169
Ion Ratio Lower Upper
105 100
120 26.6 13.4 40.2

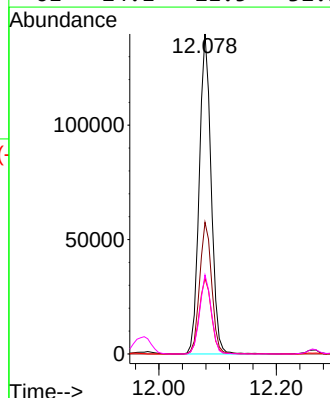
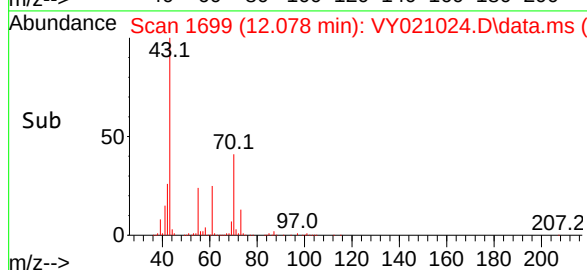
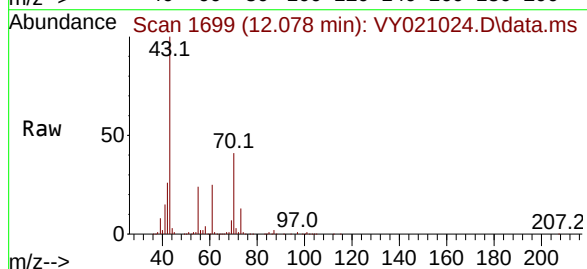
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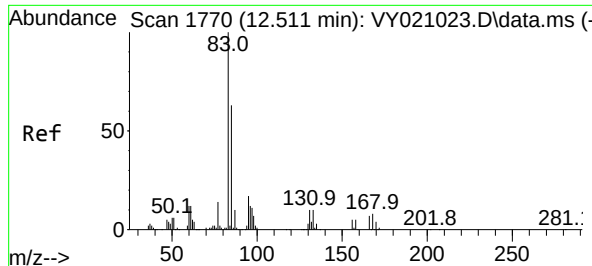
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#74
N-ethyl acetate
Concen: 133.629 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion: 43 Resp: 196809
Ion Ratio Lower Upper
43 100
70 41.4 39.3 58.9
55 24.2 22.3 33.5
61 24.1 21.5 32.3





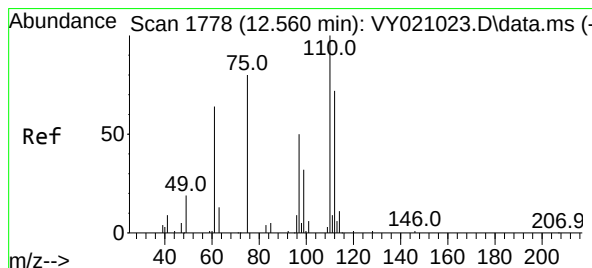
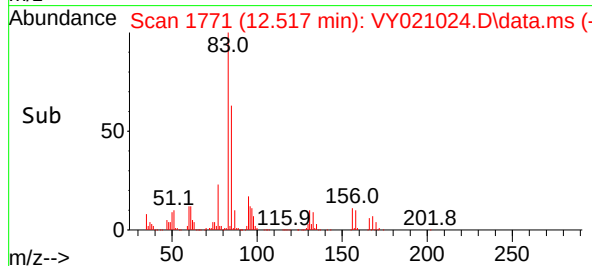
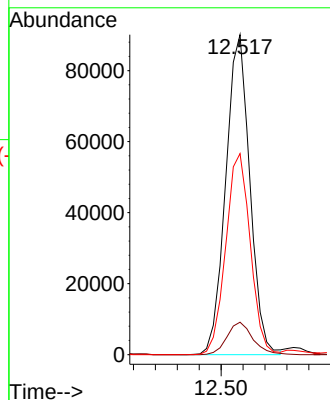
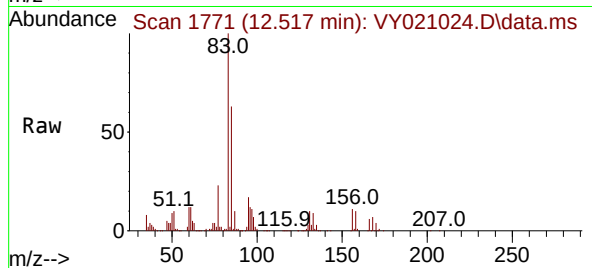
#75
1,1,2,2-Tetrachloroethane
Concen: 105.393 ug/l
RT: 12.517 min Scan# 1771
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 137599
Ion Ratio Lower Upper
83 100
131 10.9 5.7 17.1
85 64.0 31.9 95.9

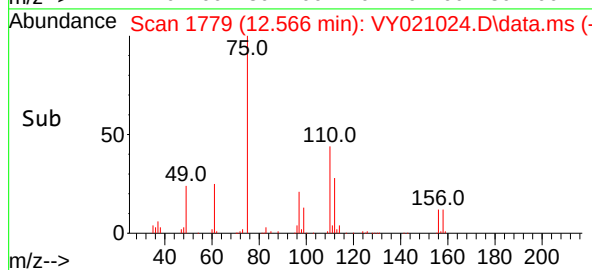
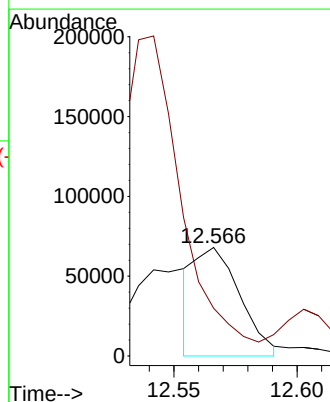
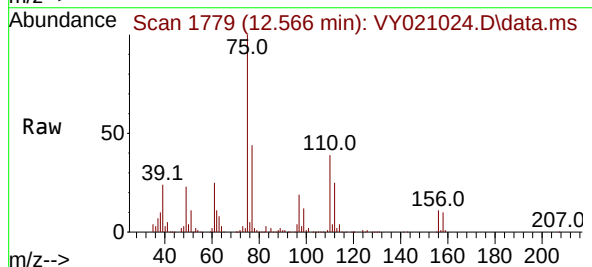
Manual Integrations
APPROVED

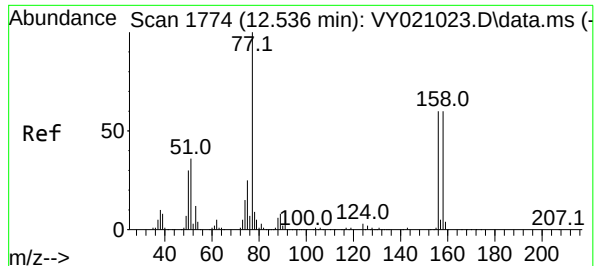
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#76
1,2,3-Trichloropropane
Concen: 95.537 ug/l m
RT: 12.566 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

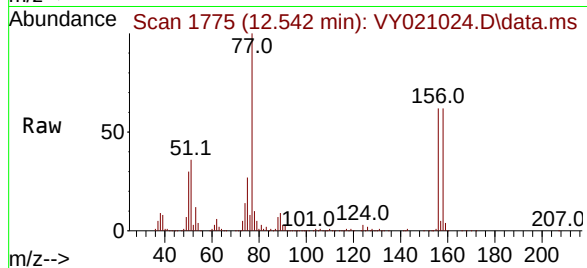
Tgt Ion: 75 Resp: 87097
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#77
Bromobenzene
Concen: 103.627 ug/l
RT: 12.542 min Scan# 1775
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

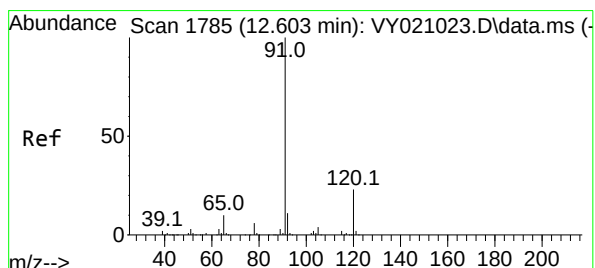
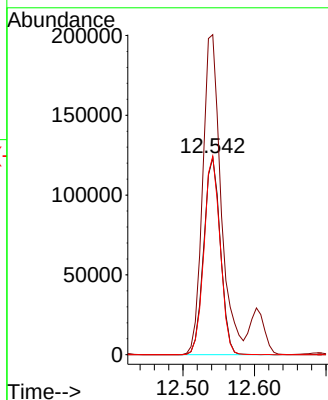
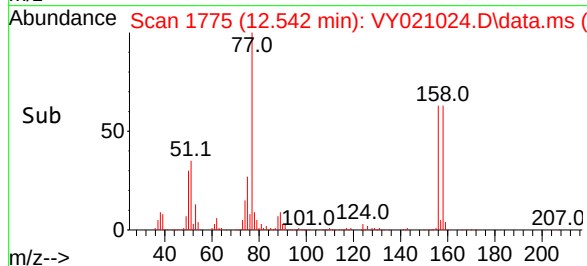
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100



Tgt Ion: 156 Resp: 198715
Ion Ratio Lower Upper
156 100
77 179.5 83.3 249.9
158 98.1 48.3 144.9

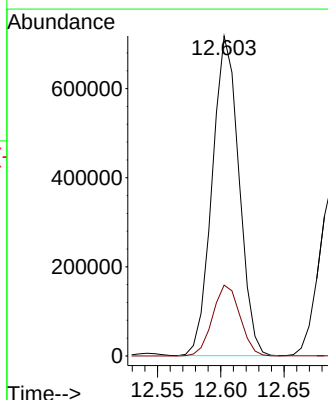
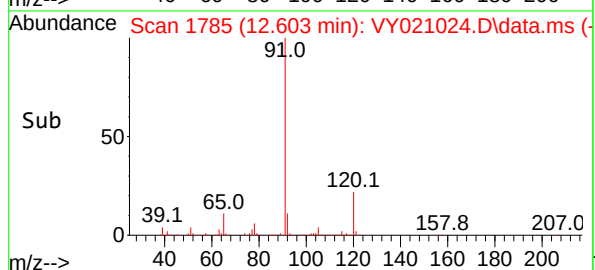
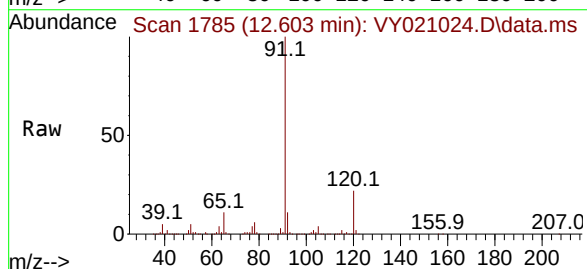
Manual Integrations
APPROVED

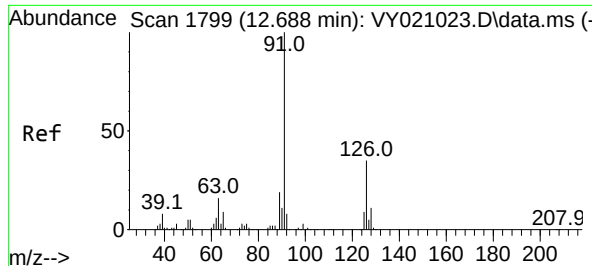
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#78
n-propylbenzene
Concen: 111.529 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion: 91 Resp: 1057216
Ion Ratio Lower Upper
91 100
120 22.6 11.8 35.4





#79

2-Chlorotoluene

Concen: 109.632 ug/l

RT: 12.688 min Scan# 1799

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 592090

Ion Ratio Lower Upper

91 100

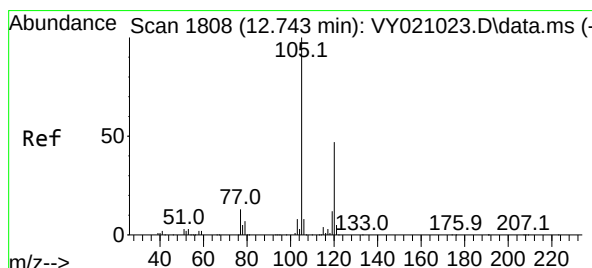
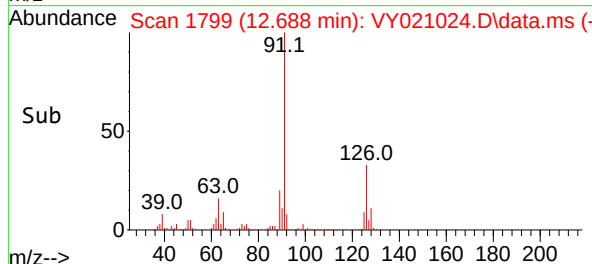
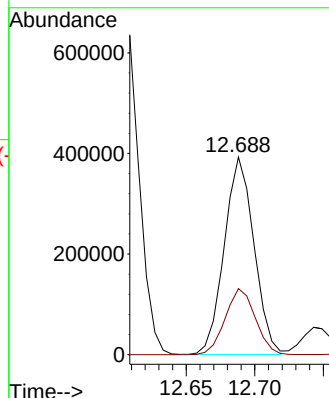
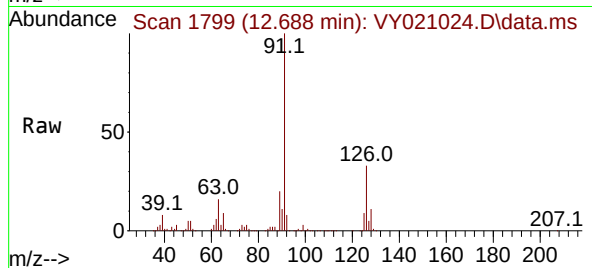
126 33.9 17.3 51.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#80

1,3,5-Trimethylbenzene

Concen: 107.741 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. 0.000 min

Lab File: VY021024.D

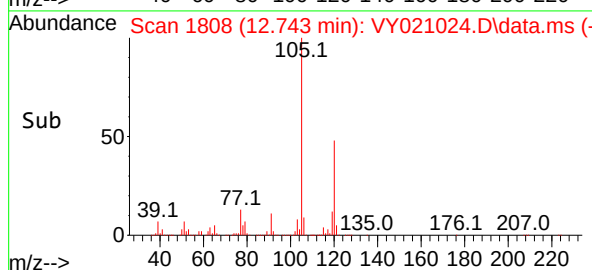
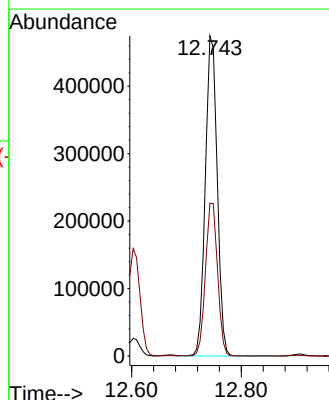
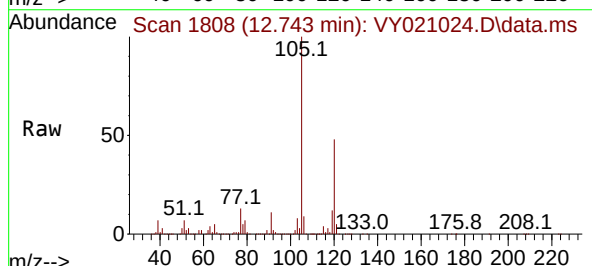
Acq: 03 Feb 2025 12:21

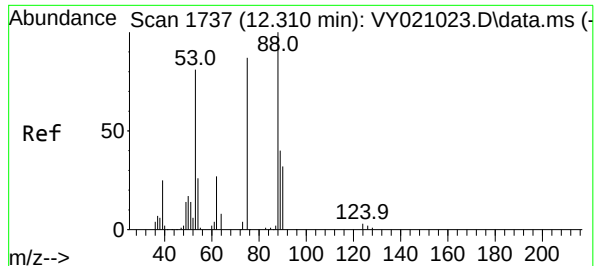
Tgt Ion:105 Resp: 713935

Ion Ratio Lower Upper

105 100

120 48.6 24.3 72.9





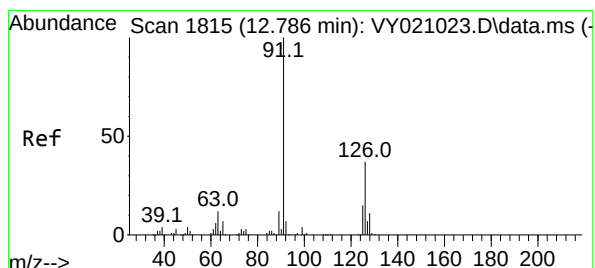
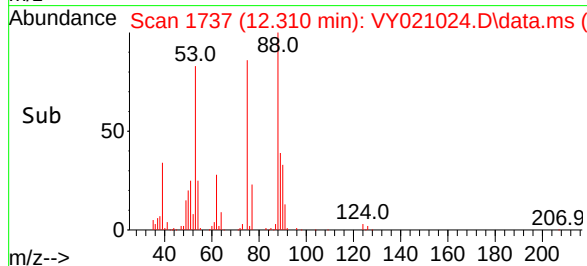
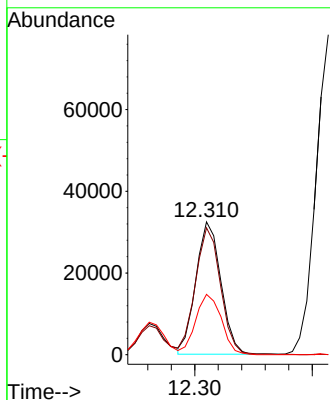
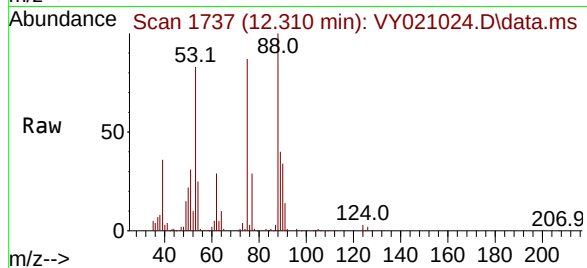
#81
trans-1,4-Dichloro-2-butene
Concen: 108.944 ug/l
RT: 12.310 min Scan# 1737
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 47840
Ion Ratio Lower Upper
75 100
53 97.1 68.6 103.0
89 47.0 38.1 57.1

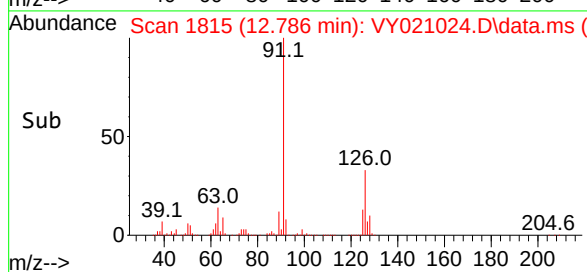
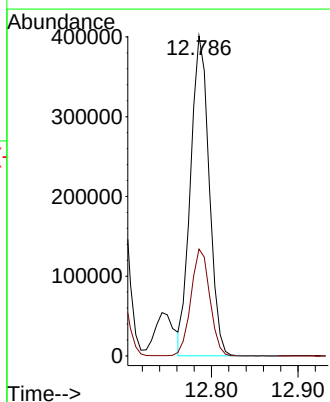
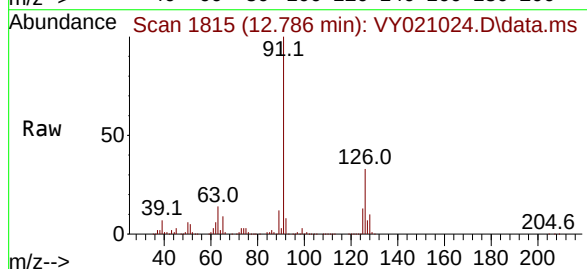
Manual Integrations
APPROVED

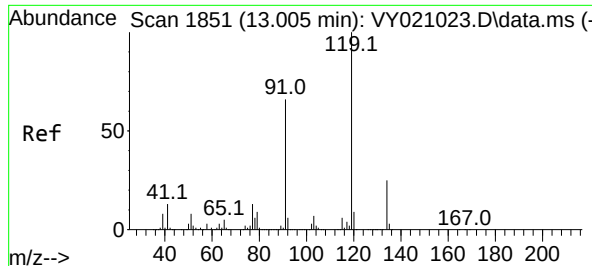
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#82
4-Chlorotoluene
Concen: 108.014 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion: 91 Resp: 597047
Ion Ratio Lower Upper
91 100
126 34.0 17.3 52.0





#83

tert-Butylbenzene

Concen: 103.933 ug/l

RT: 13.005 min Scan# 1851

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion:119 Resp: 638740

Ion Ratio Lower Upper

119 100

91 66.9 31.4 94.0

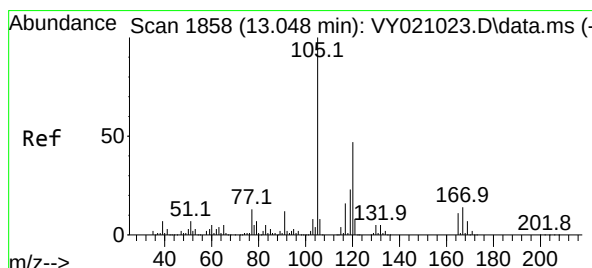
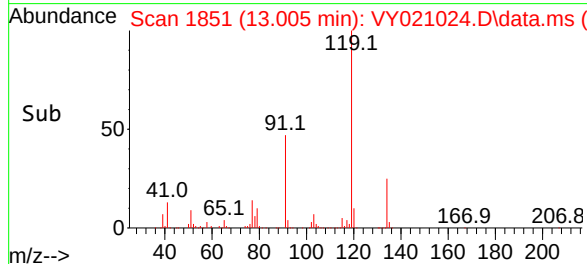
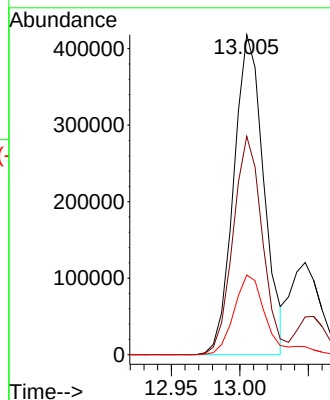
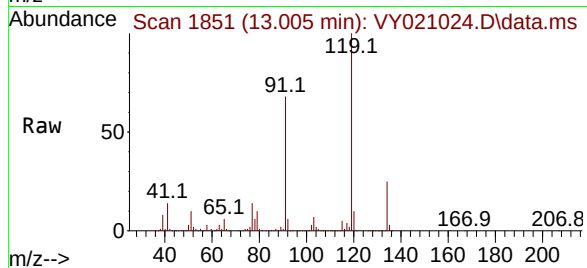
134 27.2 13.1 39.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#84

1,2,4-Trimethylbenzene

Concen: 108.409 ug/l

RT: 13.054 min Scan# 1859

Delta R.T. 0.006 min

Lab File: VY021024.D

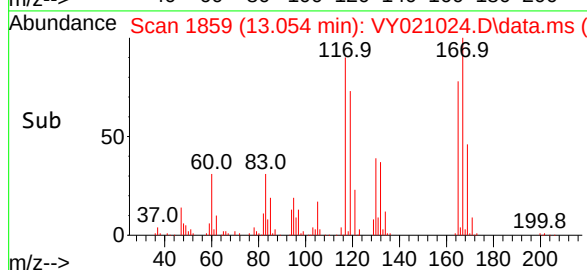
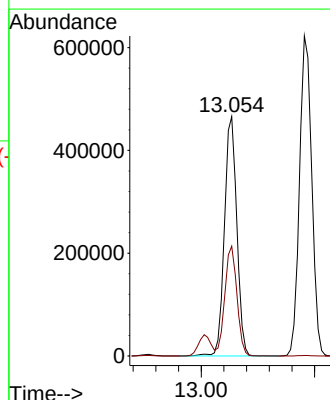
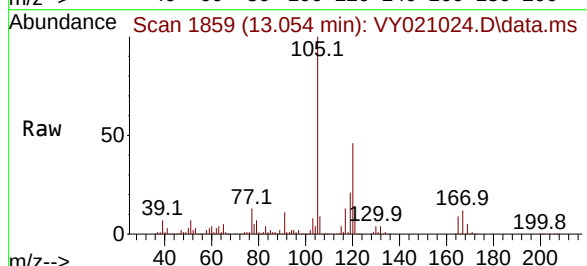
Acq: 03 Feb 2025 12:21

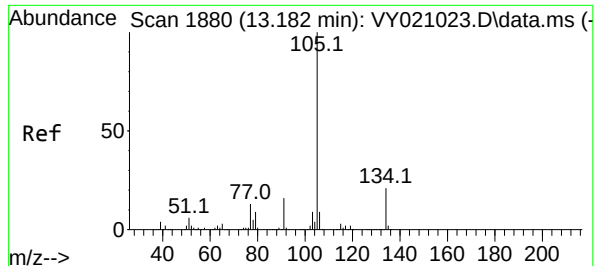
Tgt Ion:105 Resp: 701716

Ion Ratio Lower Upper

105 100

120 45.1 22.7 68.0





#85

sec-Butylbenzene

Concen: 107.093 ug/l

RT: 13.182 min Scan# 1880

Delta R.T. 0.000 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 931799

Ion Ratio Lower Upper

105 100

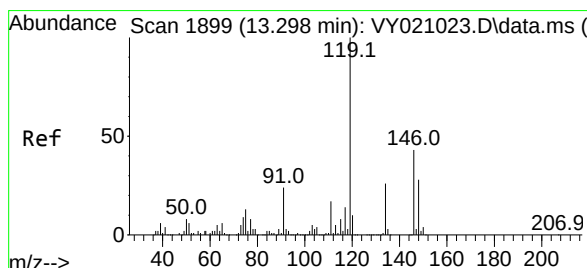
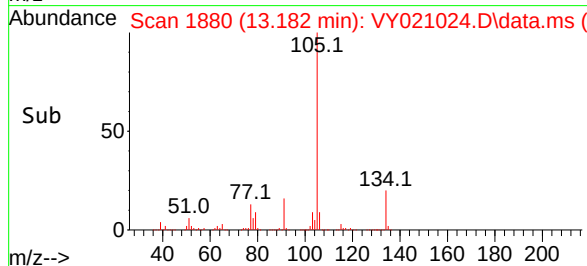
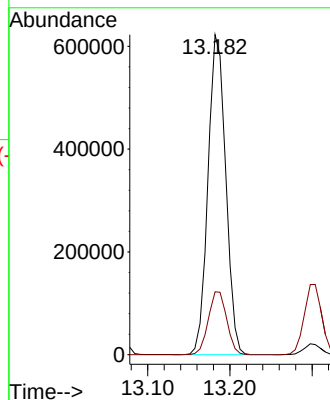
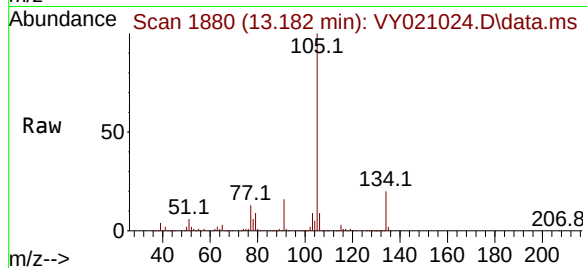
134 20.4 10.3 30.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#86

p-Isopropyltoluene

Concen: 106.512 ug/l

RT: 13.304 min Scan# 1900

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

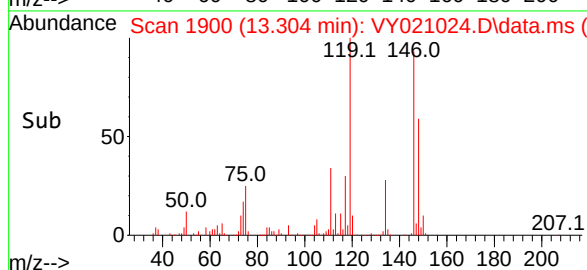
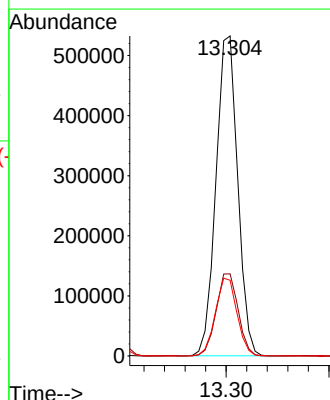
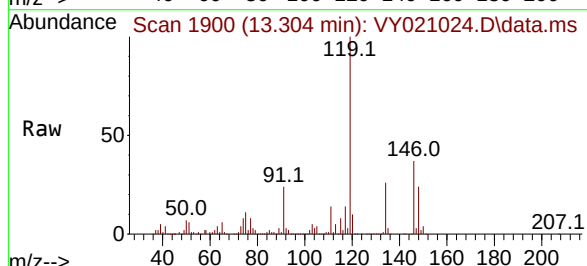
Tgt Ion:119 Resp: 778814

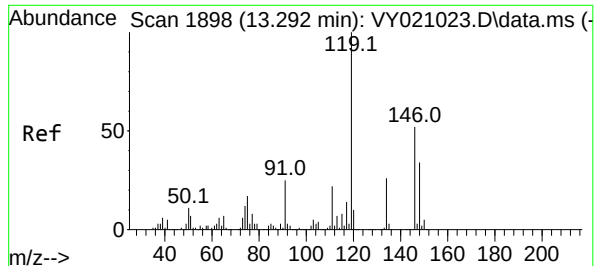
Ion Ratio Lower Upper

119 100

134 26.0 13.1 39.3

91 24.2 11.5 34.5





#87

1,3-Dichlorobenzene

Concen: 101.760 ug/l

RT: 13.298 min Scan# 1898

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 38048

Ion Ratio Lower Upper

146 100

111 39.8 19.7 59.1

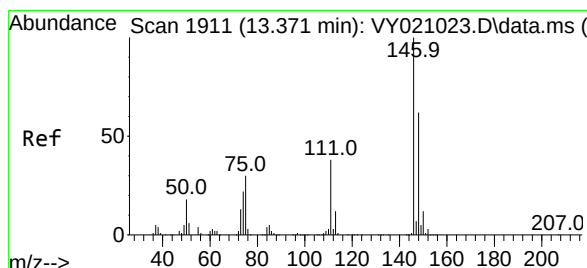
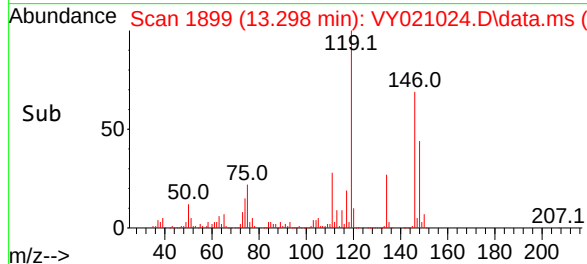
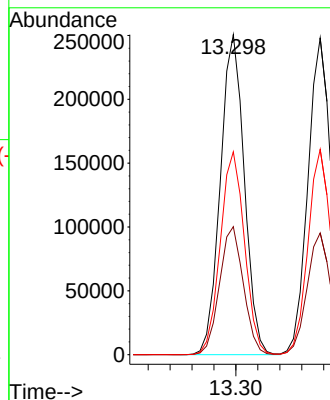
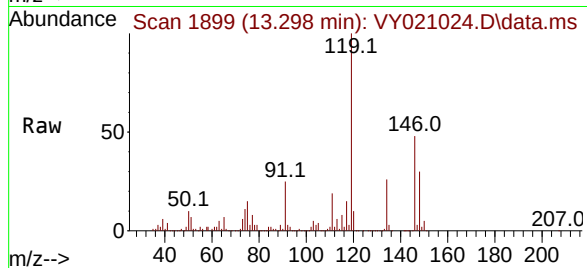
148 64.0 32.1 96.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 99.212 ug/l

RT: 13.377 min Scan# 1912

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

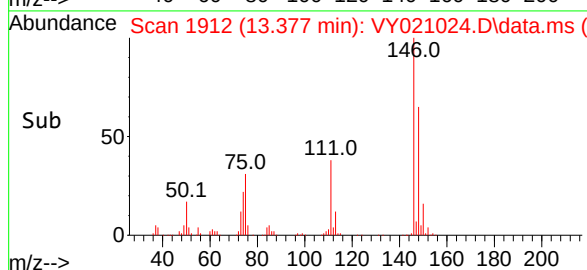
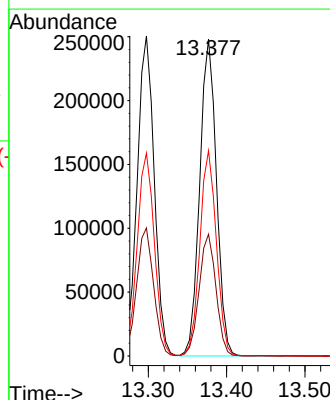
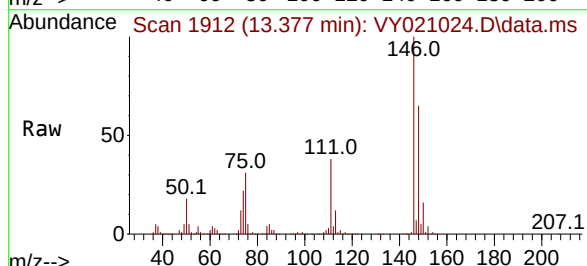
Tgt Ion:146 Resp: 368361

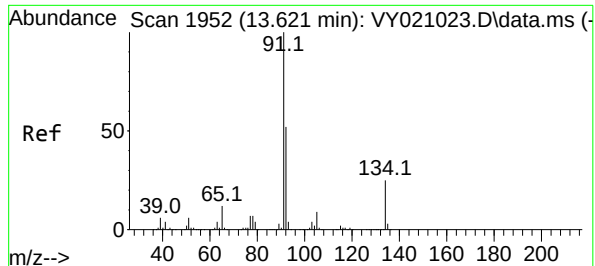
Ion Ratio Lower Upper

146 100

111 38.7 19.0 57.0

148 64.0 31.6 95.0





#89

n-Butylbenzene

Concen: 109.974 ug/l

RT: 13.627 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

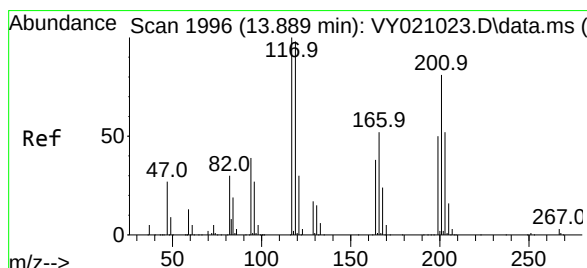
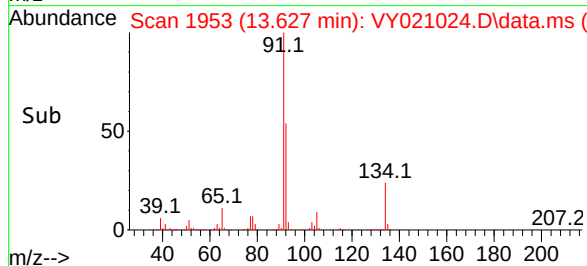
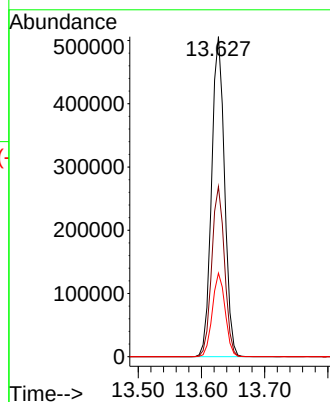
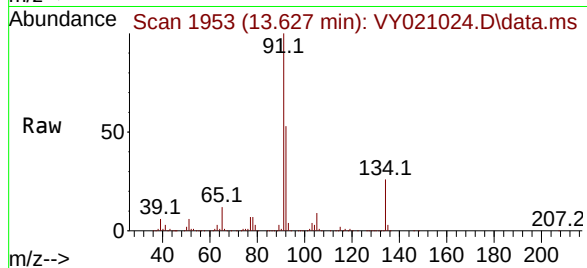
ClientSampleId :

VSTDIC100

Tgt Ion:	91	Resp:	72025
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.7	80.1
134	25.9	13.7	41.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#90

Hexachloroethane

Concen: 108.782 ug/l

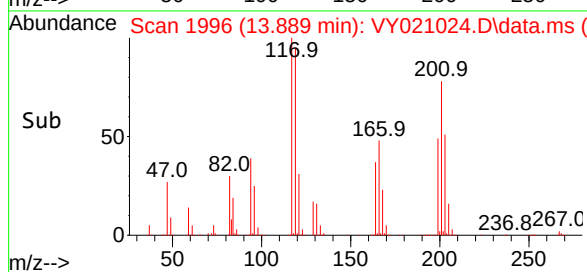
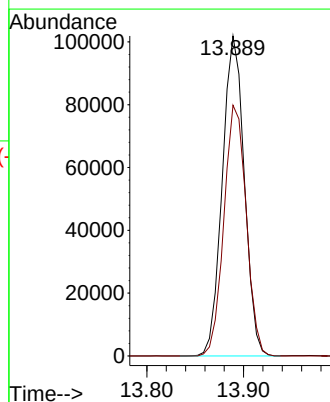
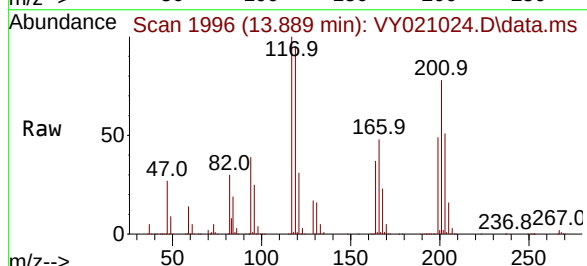
RT: 13.889 min Scan# 1996

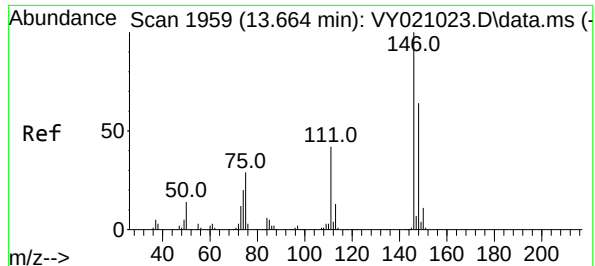
Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Tgt Ion:	117	Resp:	160918
Ion	Ratio	Lower	Upper
117	100		
201	79.4	42.5	127.5





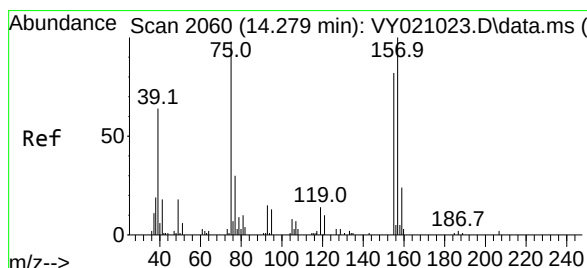
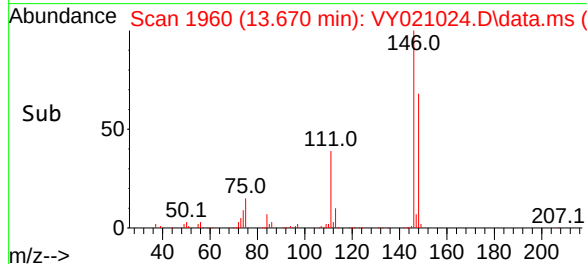
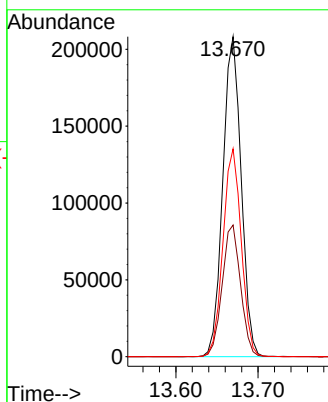
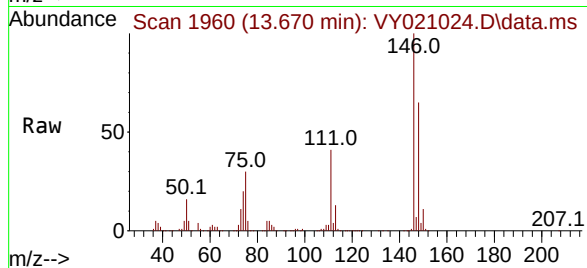
#91
1,2-Dichlorobenzene
Concen: 99.218 ug/l
RT: 13.670 min Scan# 1959
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 323508
Ion Ratio Lower Upper
146 100
111 41.3 20.3 60.8
148 64.6 32.2 96.6

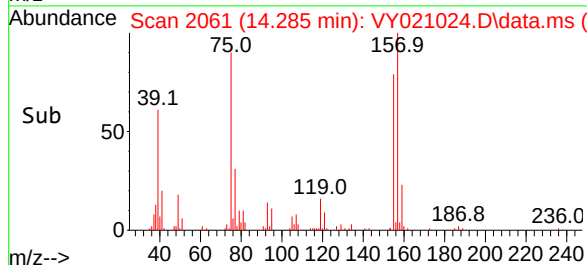
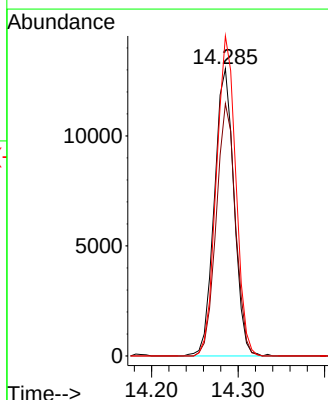
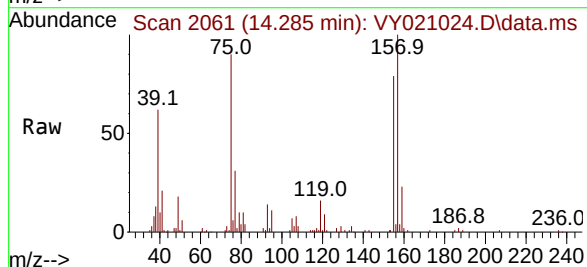
Manual Integrations
APPROVED

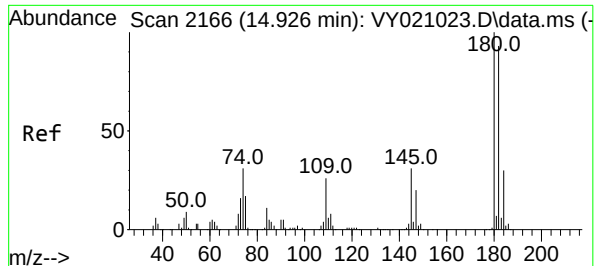
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 102.253 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion: 75 Resp: 20553
Ion Ratio Lower Upper
75 100
155 86.0 45.9 137.6
157 110.2 59.3 177.9





#93

1,2,4-Trichlorobenzene

Concen: 100.693 ug/l

RT: 14.932 min Scan# 2167

Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

Instrument :

MSVOA_Y

ClientSampleId :

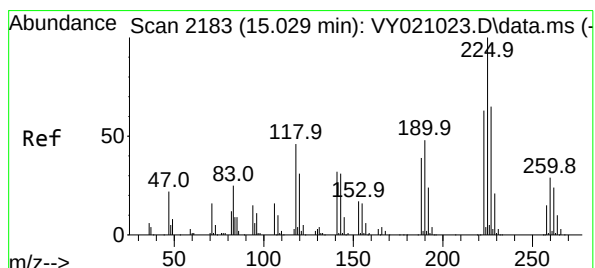
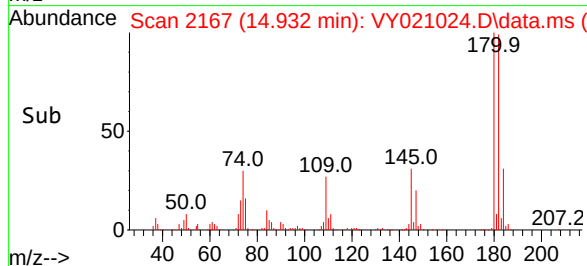
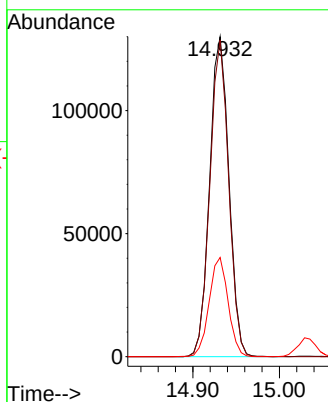
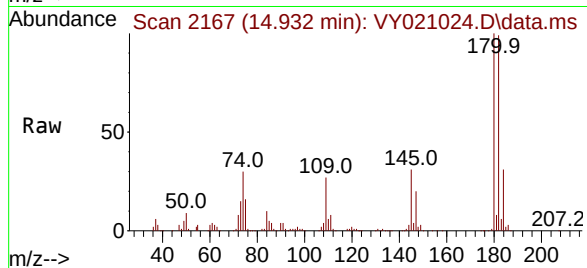
VSTDICC100

Tgt Ion:	180	Resp:	201024
Ion Ratio	Lower	Upper	
180	100		
182	96.5	48.3	144.8
145	30.6	15.3	45.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#94

Hexachlorobutadiene

Concen: 90.315 ug/l

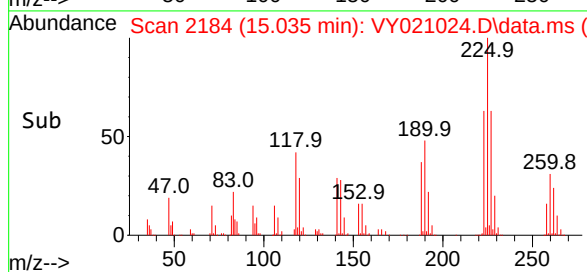
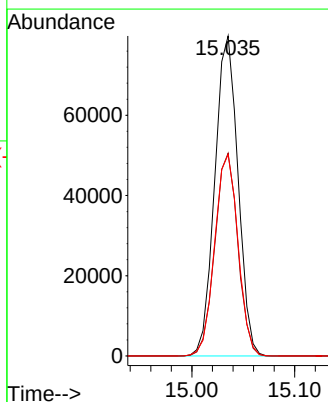
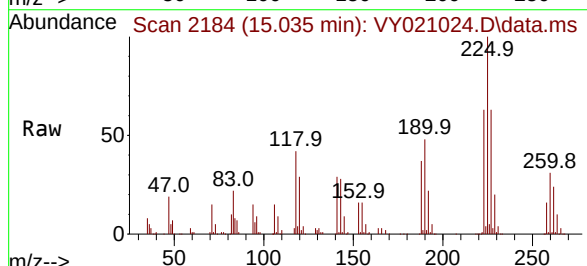
RT: 15.035 min Scan# 2184

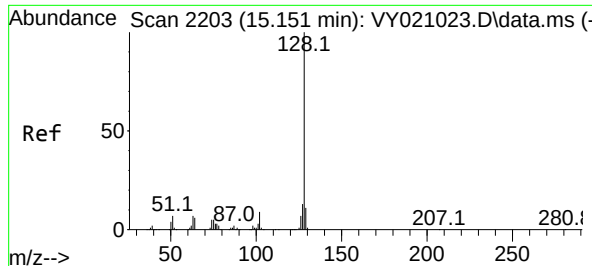
Delta R.T. 0.006 min

Lab File: VY021024.D

Acq: 03 Feb 2025 12:21

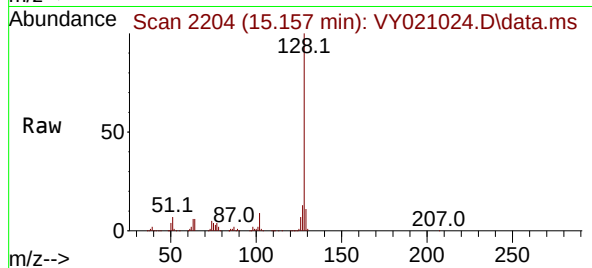
Tgt Ion:	225	Resp:	124879
Ion Ratio	Lower	Upper	
225	100		
223	62.8	31.4	94.2
227	63.5	31.8	95.3





#95
Naphthalene
Concen: 103.361 ug/l
RT: 15.157 min Scan# 2204
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

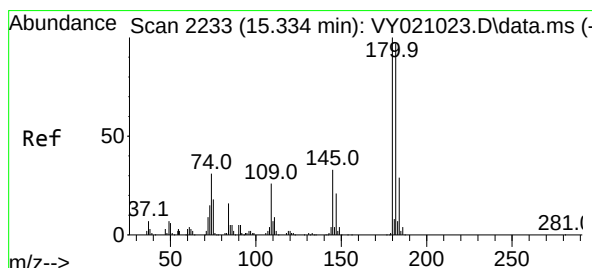
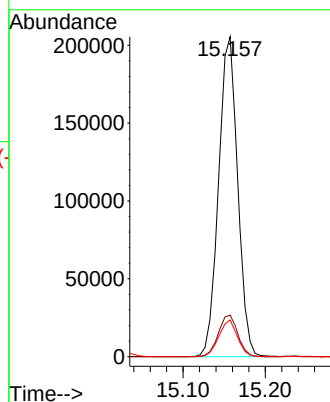
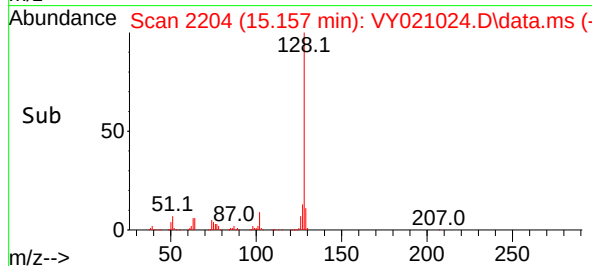
Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC100



Tgt Ion:128 Resp: 33164
Ion Ratio Lower Upper
128 100
127 13.3 10.2 15.4
129 11.1 8.8 13.2

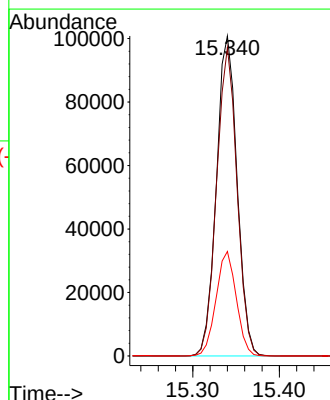
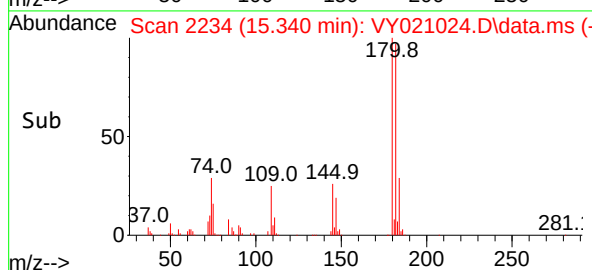
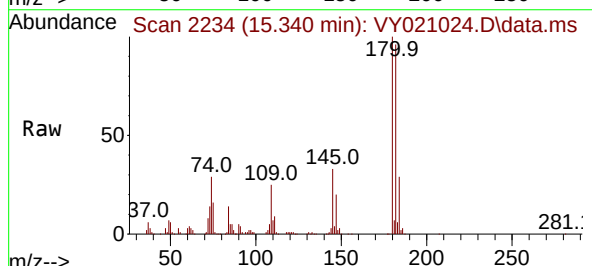
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 99.024 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.006 min
Lab File: VY021024.D
Acq: 03 Feb 2025 12:21

Tgt Ion:180 Resp: 167187
Ion Ratio Lower Upper
180 100
182 95.0 47.7 143.1
145 32.0 15.6 46.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021025.D
 Acq On : 03 Feb 2025 12:44
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 13:05:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:05:07 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	189855	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	287697	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	248527	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	112575	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	293662	145.336	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 290.680%#	
35) Dibromofluoromethane	7.640	113	287798	155.917	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 311.840%#	
50) Toluene-d8	10.109	98	1111573	156.140	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 312.280%#	
62) 4-Bromofluorobenzene	12.408	95	360358	162.912	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 325.820%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	260067	160.872	ug/l	97
3) Chloromethane	2.074	50	248885	87.825	ug/l	98
4) Vinyl Chloride	2.208	62	252501	75.880	ug/l	99
5) Bromomethane	2.592	94	146541	62.028	ug/l	99
6) Chloroethane	2.739	64	148751	70.352	ug/l	97
7) Trichlorofluoromethane	3.062	101	462994	129.223	ug/l	99
8) Diethyl Ether	3.458	74	147927	142.521	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.824	101	290713	133.999	ug/l	95
10) Methyl Iodide	4.013	142	352076	163.787	ug/l	94
11) Tert butyl alcohol	4.872	59	91037	651.581	ug/l	97
12) 1,1-Dichloroethene	3.799	96	283433	141.825	ug/l	94
13) Acrolein	3.659	56	152214	707.118	ug/l	98
14) Allyl chloride	4.391	41	481954	159.438	ug/l	96
15) Acrylonitrile	5.061	53	309767	696.889	ug/l	99
16) Acetone	3.873	43	237711	483.636	ug/l	96
17) Carbon Disulfide	4.116	76	886308	139.070	ug/l	100
18) Methyl Acetate	4.391	43	166019	134.682	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	720513	159.427	ug/l	99
20) Methylene Chloride	4.622	84	281630	109.728	ug/l	96
21) trans-1,2-Dichloroethene	5.122	96	306161	134.636	ug/l	94
22) Diisopropyl ether	6.025	45	955213	148.878	ug/l	97
23) Vinyl Acetate	5.970	43	2761423	786.547	ug/l	99
24) 1,1-Dichloroethane	5.921	63	563116	141.610	ug/l	98
25) 2-Butanone	6.902	43	395886	620.601	ug/l	99
26) 2,2-Dichloropropane	6.890	77	527500	153.065	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	356495	144.373	ug/l	94
28) Bromochloromethane	7.256	49	224174	131.225	ug/l	98
29) Tetrahydrofuran	7.268	42	263943	736.644	ug/l	96
30) Chloroform	7.427	83	572890	143.739	ug/l	98
31) Cyclohexane	7.707	56	485167	128.899	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	540513	151.377	ug/l	99
36) 1,1-Dichloropropene	7.841	75	423720	143.160	ug/l	99
37) Ethyl Acetate	6.988	43	186661	153.217	ug/l	99
38) Carbon Tetrachloride	7.823	117	501205	170.502	ug/l	99
39) Methylcyclohexane	9.115	83	542900	152.474	ug/l	98
40) Benzene	8.085	78	1239229	148.429	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021025.D
 Acq On : 03 Feb 2025 12:44
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 13:05:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M

Quant Title : SW846 8260

QLast Update : Mon Feb 03 13:05:07 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	115234	185.120	ug/l	95
42) 1,2-Dichloroethane	8.164	62	340547	158.367	ug/l	97
43) Isopropyl Acetate	8.201	43	388966	175.917	ug/l #	86
44) Trichloroethene	8.872	130	323716	150.703	ug/l	96
45) 1,2-Dichloropropane	9.146	63	294150	147.060	ug/l	100
46) Dibromomethane	9.237	93	161341	154.118	ug/l	95
47) Bromodichloromethane	9.426	83	437119	160.591	ug/l	98
48) Methyl methacrylate	9.225	41	187040	167.251	ug/l	94
49) 1,4-Dioxane	9.231	88	32704	3078.544	ug/l	94
51) 4-Methyl-2-Pentanone	10.006	43	965506	814.397	ug/l	98
52) Toluene	10.176	92	792134	155.591	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	416872	166.270	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	483429	158.232	ug/l	92
55) 1,1,2-Trichloroethane	10.579	97	209006	146.925	ug/l	99
56) Ethyl methacrylate	10.444	69	313458	200.500	ug/l	93
57) 1,3-Dichloropropane	10.725	76	365553	149.005	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	721923	788.766	ug/l	100
59) 2-Hexanone	10.762	43	642448	763.675	ug/l	98
60) Dibromochloromethane	10.914	129	298751	175.351	ug/l	98
61) 1,2-Dibromoethane	11.018	107	200840	153.273	ug/l	99
64) Tetrachloroethene	10.652	164	288752	156.856	ug/l	96
65) Chlorobenzene	11.444	112	854481	161.190	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.524	131	303176	159.942	ug/l	97
67) Ethyl Benzene	11.524	91	1560654	161.195	ug/l	100
68) m/p-Xylenes	11.633	106	1152452	314.841	ug/l	97
69) o-Xylene	11.963	106	543425	163.662	ug/l	97
70) Styrene	11.975	104	900989	172.776	ug/l	97
71) Bromoform	12.139	173	170929	181.883	ug/l #	97
73) Isopropylbenzene	12.261	105	1439642	154.780	ug/l	100
74) N-amyl acetate	12.072	43	337562	180.383	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.511	83	229575	139.062	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	166289m	149.965	ug/l	
77) Bromobenzene	12.536	156	330230	166.838	ug/l	92
78) n-propylbenzene	12.603	91	1706799	149.261	ug/l	99
79) 2-Chlorotoluene	12.688	91	961670	153.047	ug/l	100
80) 1,3,5-Trimethylbenzene	12.743	105	1146647	156.334	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.310	75	84506	165.703	ug/l	98
82) 4-Chlorotoluene	12.786	91	973177	151.120	ug/l	99
83) tert-Butylbenzene	13.005	119	1067144	164.670	ug/l	98
84) 1,2,4-Trimethylbenzene	13.048	105	1138490	157.248	ug/l	100
85) sec-Butylbenzene	13.182	105	1490237	152.184	ug/l	98
86) p-Isopropyltoluene	13.298	119	1267584	159.829	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	615944	153.896	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	600370	153.567	ug/l	99
89) n-Butylbenzene	13.621	91	1172760	153.276	ug/l	98
90) Hexachloroethane	13.883	117	264877	160.566	ug/l	86
91) 1,2-Dichlorobenzene	13.663	146	529143	159.648	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	36737	173.904	ug/l	99
93) 1,2,4-Trichlorobenzene	14.925	180	338957	199.568	ug/l	98
94) Hexachlorobutadiene	15.029	225	204211	192.252	ug/l	99
95) Naphthalene	15.151	128	581994	199.946	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	280907	197.311	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021025.D
Acq On : 03 Feb 2025 12:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 03 13:05:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:05:07 2025
Response via : Initial Calibration

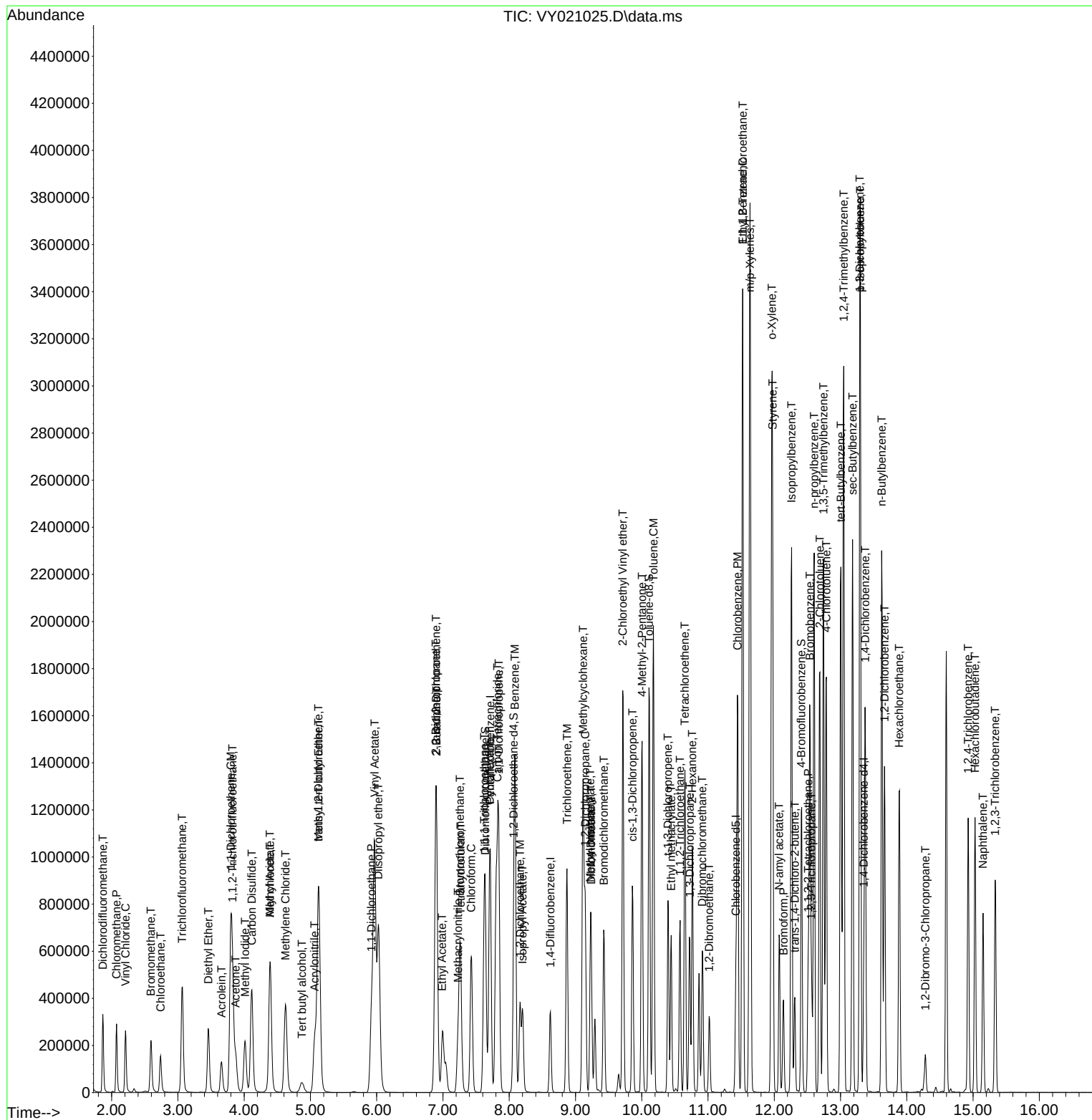
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

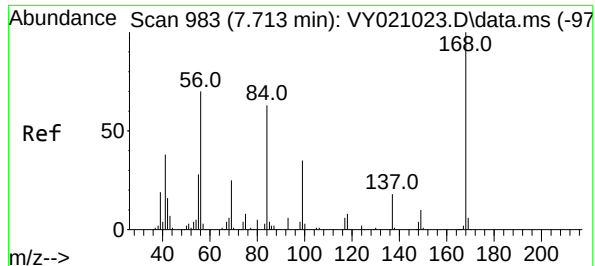
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations

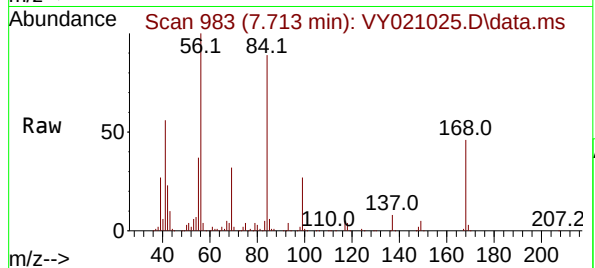
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

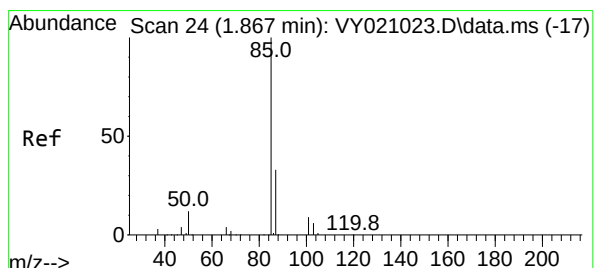
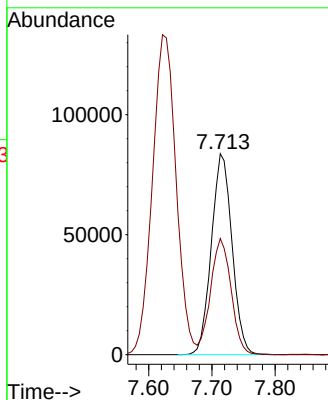
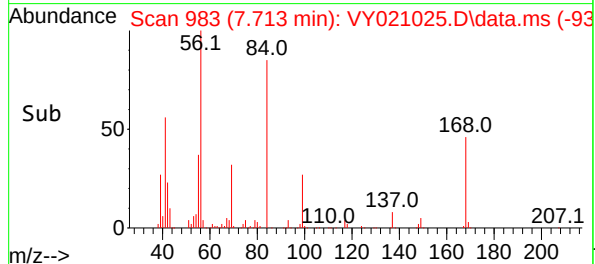
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



Tgt Ion: 168 Resp: 18985
Ion Ratio Lower Upper
168 100
99 57.7 44.2 66.4

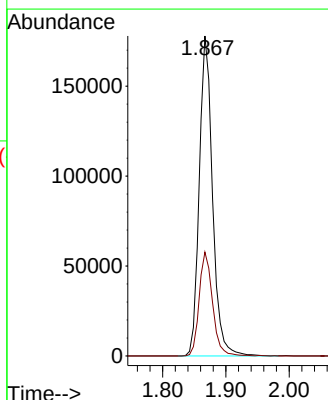
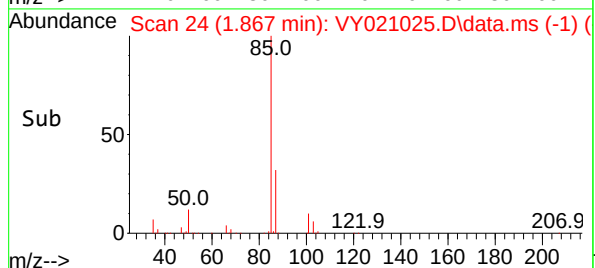
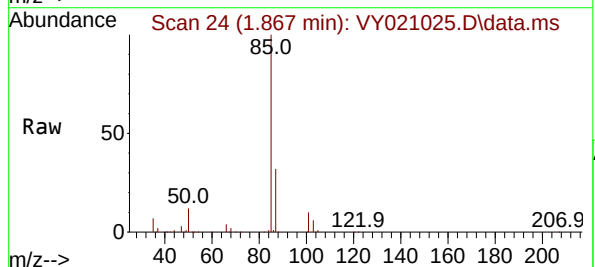
Manual Integrations
APPROVED

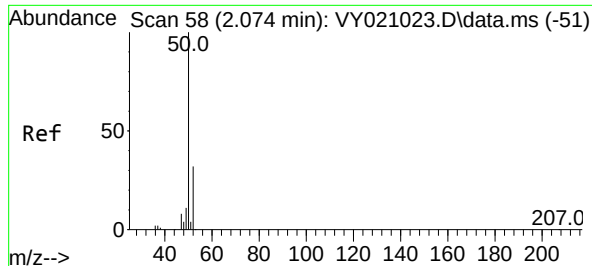
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#2
Dichlorodifluoromethane
Concen: 160.872 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Tgt Ion: 85 Resp: 260067
Ion Ratio Lower Upper
85 100
87 32.5 17.1 51.3





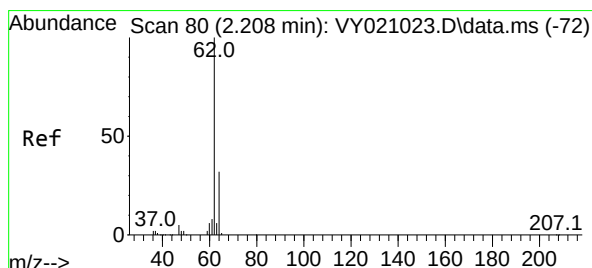
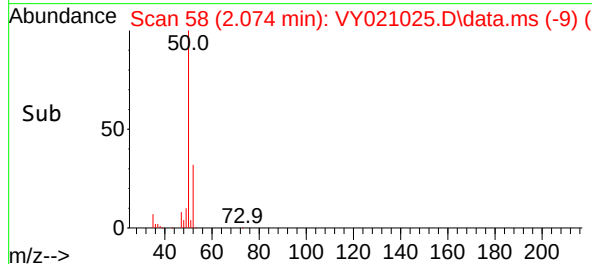
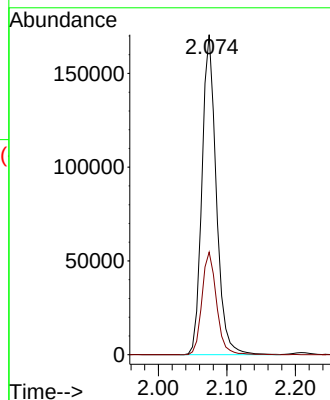
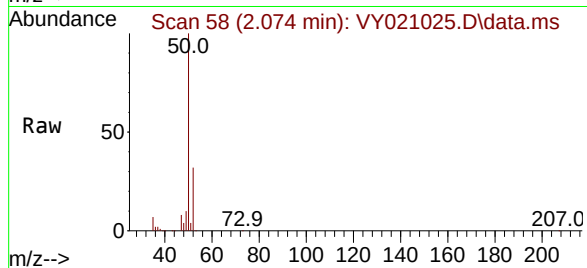
#3
Chloromethane
Concen: 87.825 ug/l
RT: 2.074 min Scan# 50
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 24888
Ion Ratio Lower Upper
50 100
52 32.0 26.7 40.1

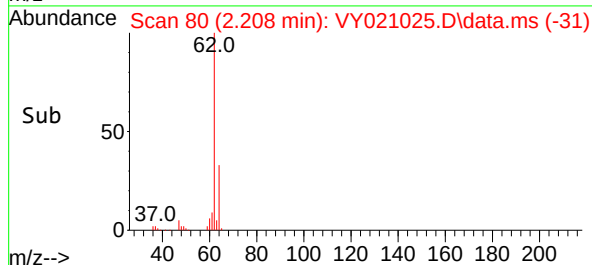
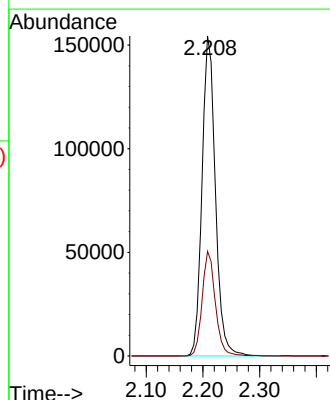
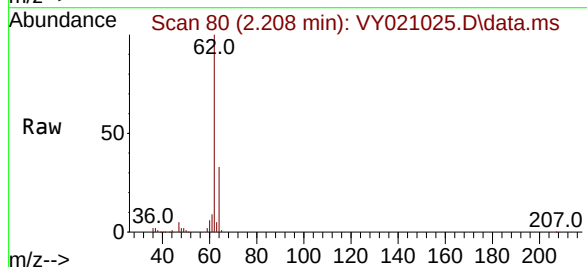
Manual Integrations
APPROVED

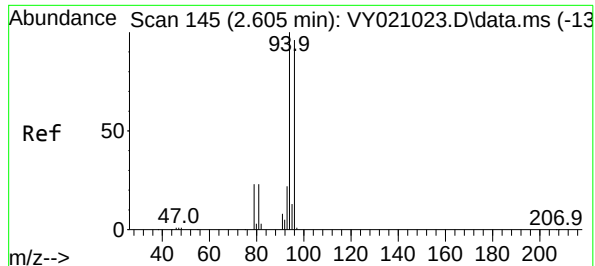
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#4
Vinyl Chloride
Concen: 75.880 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Tgt Ion: 62 Resp: 252501
Ion Ratio Lower Upper
62 100
64 32.7 25.7 38.5





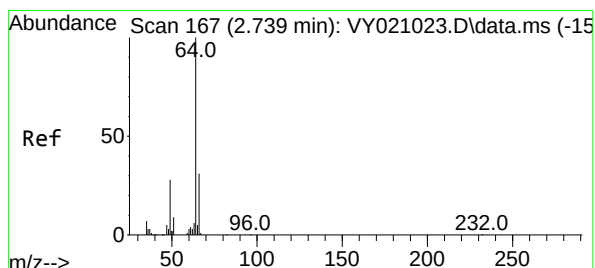
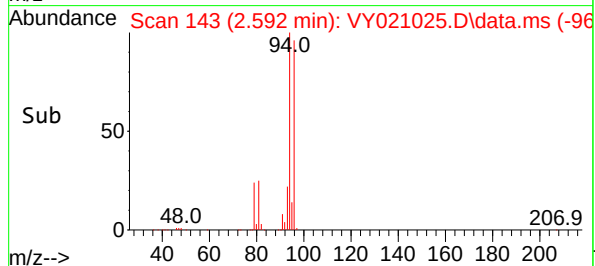
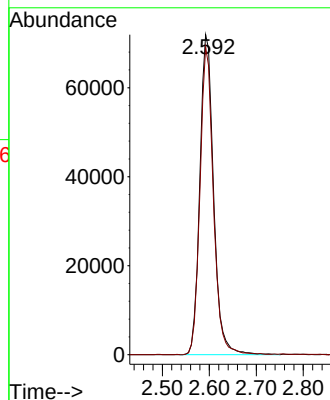
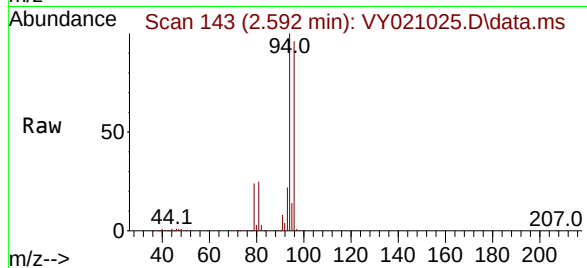
#5
Bromomethane
Concen: 62.028 ug/l
RT: 2.592 min Scan# 145
Delta R.T. -0.012 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 14654
Ion Ratio Lower Upper
94 100
96 96.1 77.3 115.9

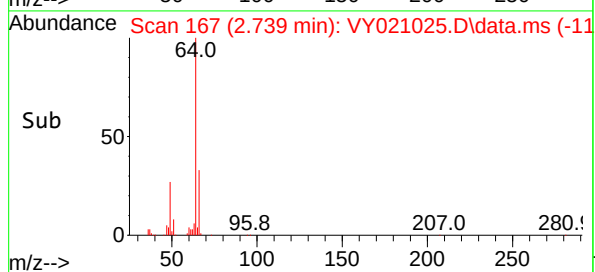
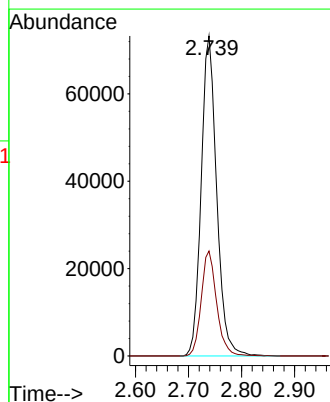
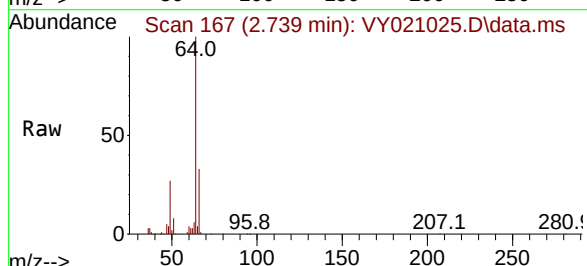
Manual Integrations
APPROVED

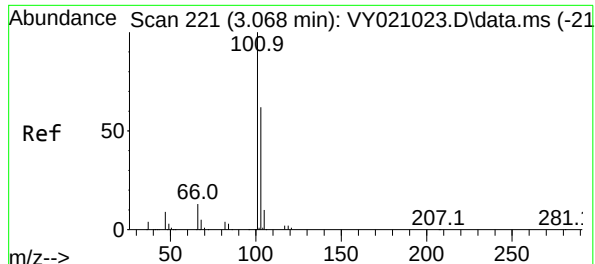
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#6
Chloroethane
Concen: 70.352 ug/l
RT: 2.739 min Scan# 167
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

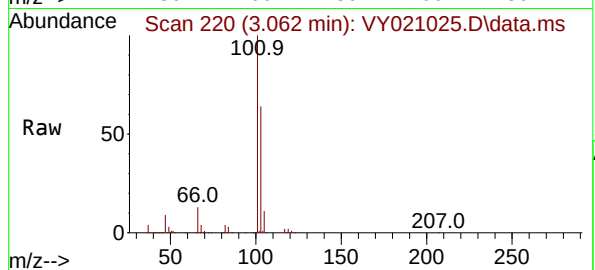
Tgt Ion: 64 Resp: 148751
Ion Ratio Lower Upper
64 100
66 32.8 25.1 37.7





#7
Trichlorofluoromethane
Concen: 129.223 ug/l
RT: 3.062 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

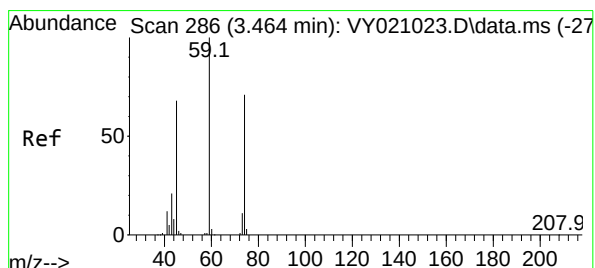
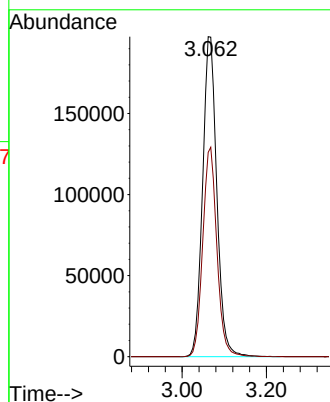
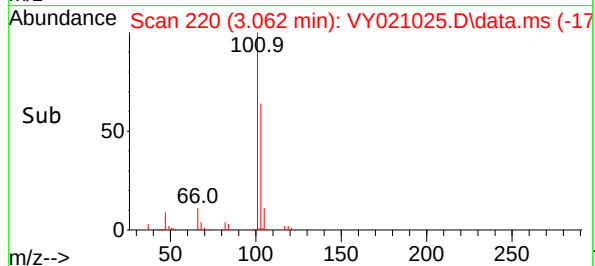
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



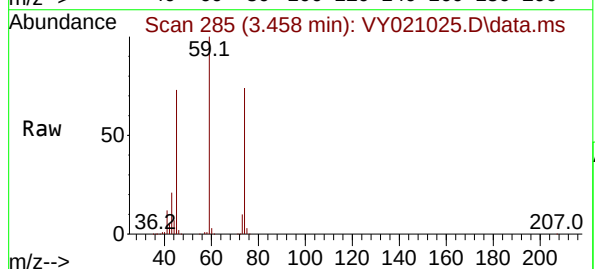
Tgt Ion:101 Resp: 462994
Ion Ratio Lower Upper
101 100
103 63.9 51.9 77.9

Manual Integrations
APPROVED

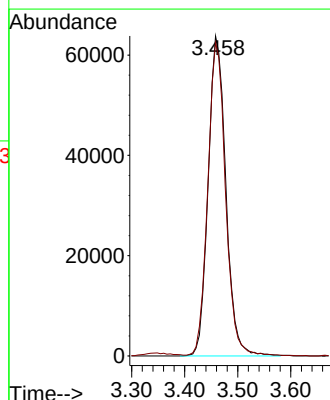
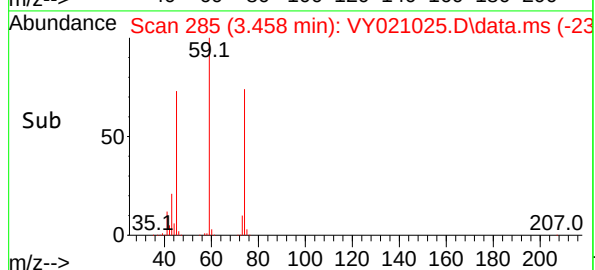
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

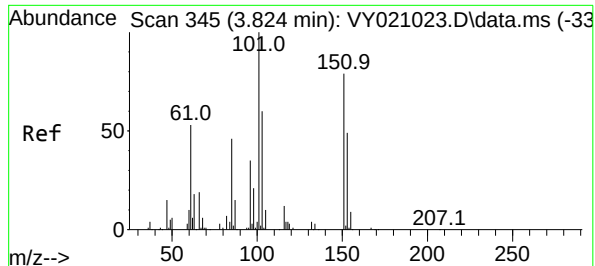


#8
Diethyl Ether
Concen: 142.521 ug/l
RT: 3.458 min Scan# 285
Delta R.T. -0.006 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44



Tgt Ion: 74 Resp: 147927
Ion Ratio Lower Upper
74 100
45 98.2 47.9 143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 133.999 ug/l

RT: 3.824 min Scan# 345

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

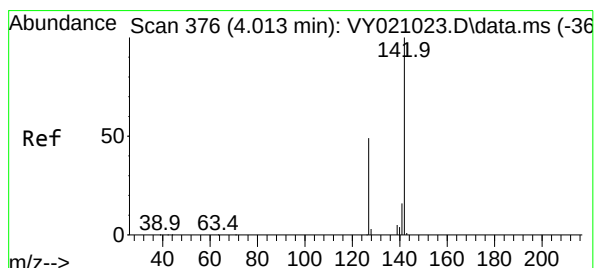
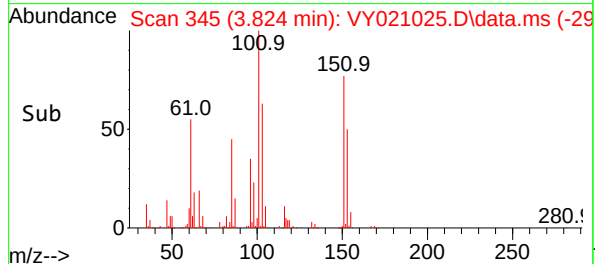
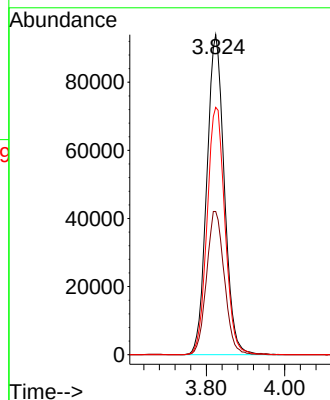
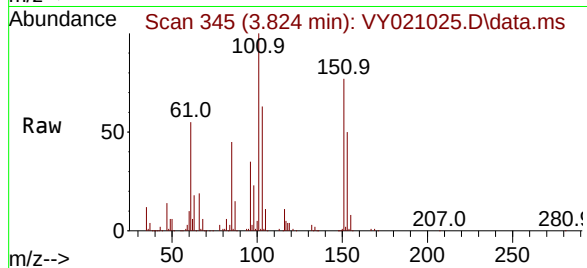
VSTDIC150

Tgt Ion:	101	Resp:	29071
Ion	Ratio	Lower	Upper
101	100		
85	45.6	35.8	53.6
151	78.9	58.6	88.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#10

Methyl Iodide

Concen: 163.787 ug/l

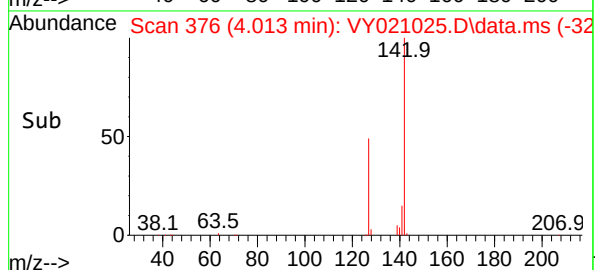
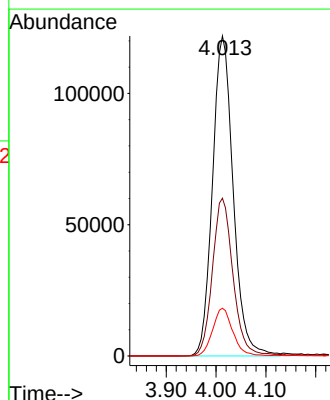
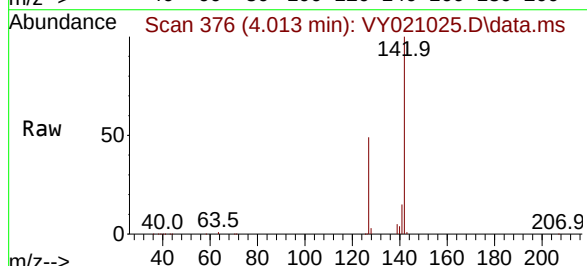
RT: 4.013 min Scan# 376

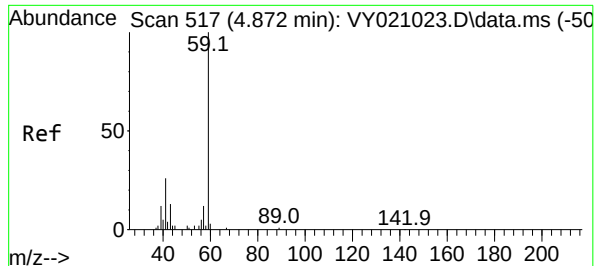
Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Tgt Ion:	142	Resp:	352076
Ion	Ratio	Lower	Upper
142	100		
127	49.2	35.1	52.7
141	14.5	11.8	17.6





#11

Tert butyl alcohol

Concen: 651.581 ug/l

RT: 4.872 min Scan# 517

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 9103

Ion Ratio Lower Upper

59 100

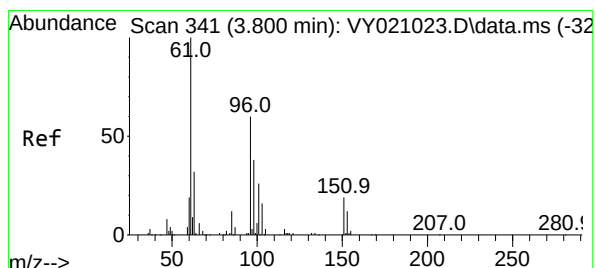
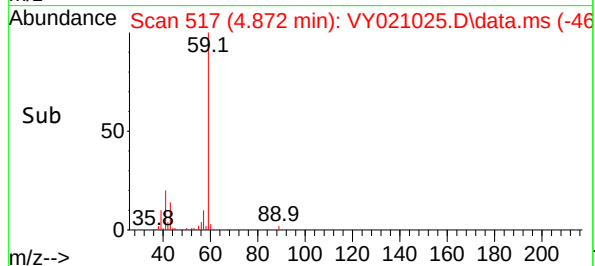
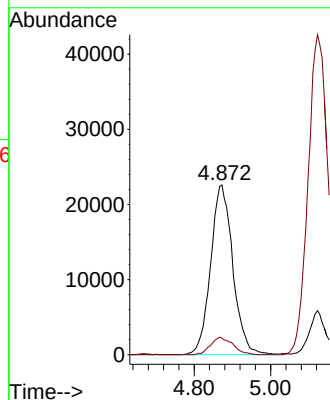
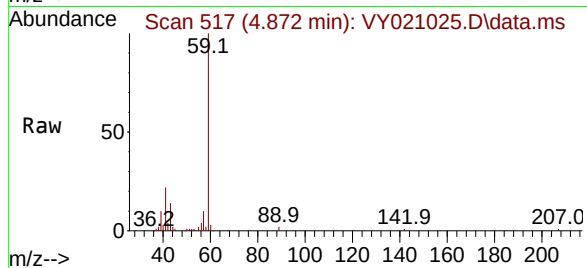
57 10.3 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#12

1,1-Dichloroethene

Concen: 141.825 ug/l

RT: 3.799 min Scan# 341

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

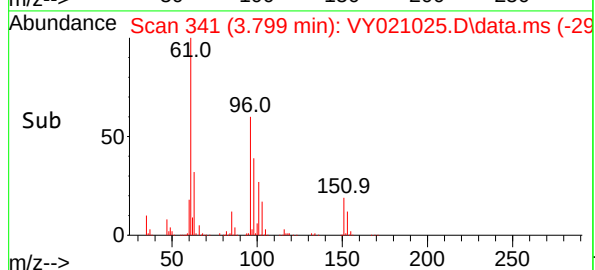
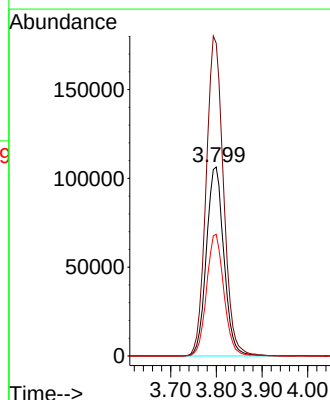
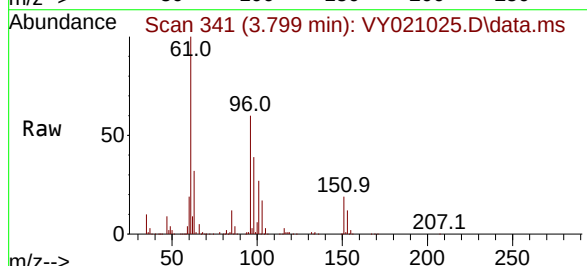
Tgt Ion: 96 Resp: 283433

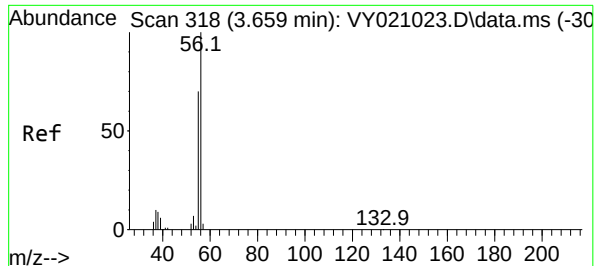
Ion Ratio Lower Upper

96 100

61 165.5 124.2 186.2

98 64.4 52.6 79.0





#13

Acrolein

Concen: 707.118 ug/l

RT: 3.659 min Scan# 318

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 56 Resp: 152214

Ion Ratio Lower Upper

56 100

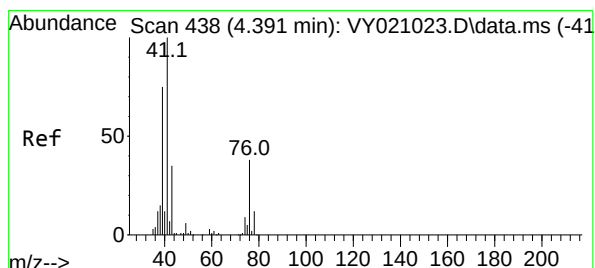
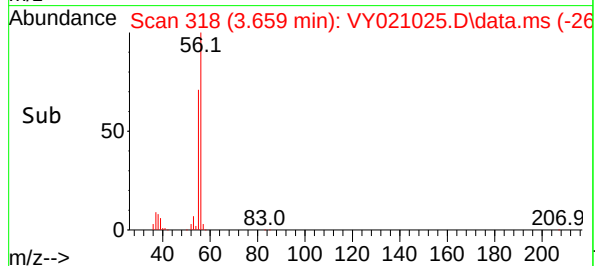
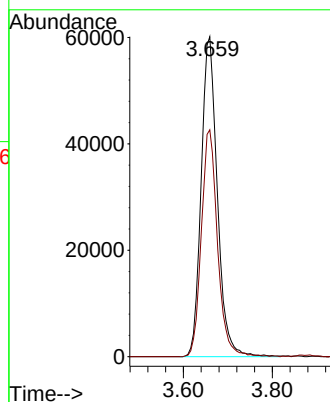
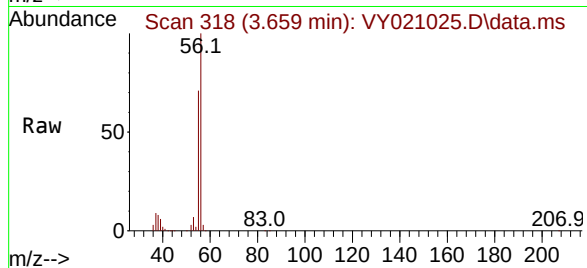
55 71.1 55.4 83.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#14

Allyl chloride

Concen: 159.438 ug/l

RT: 4.391 min Scan# 438

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

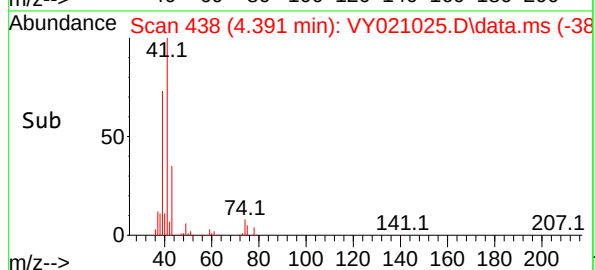
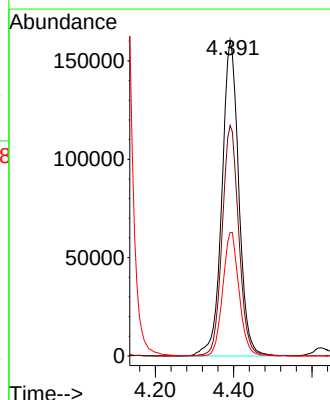
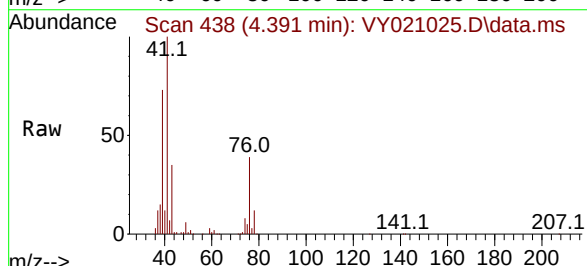
Tgt Ion: 41 Resp: 481954

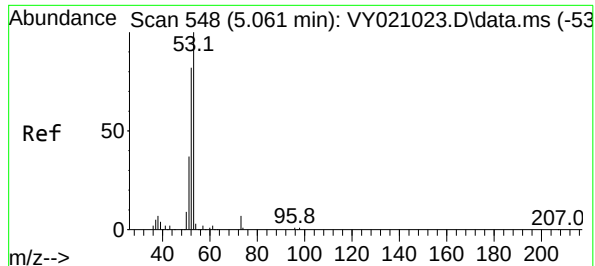
Ion Ratio Lower Upper

41 100

39 71.7 54.7 82.1

76 37.7 31.8 47.6





#15

Acrylonitrile

Concen: 696.889 ug/l

RT: 5.061 min Scan# 54

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

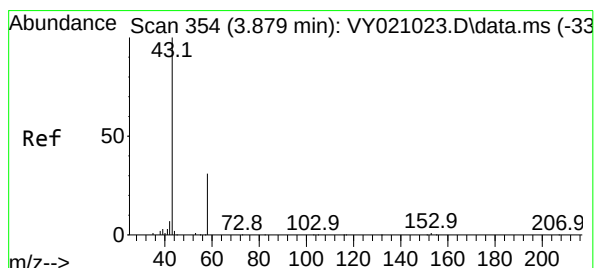
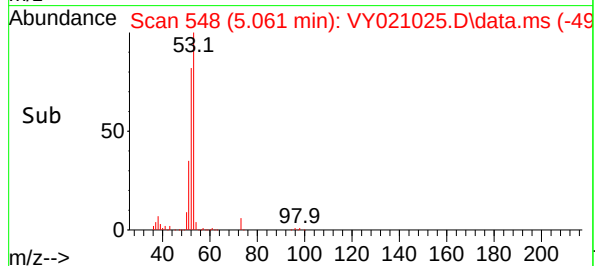
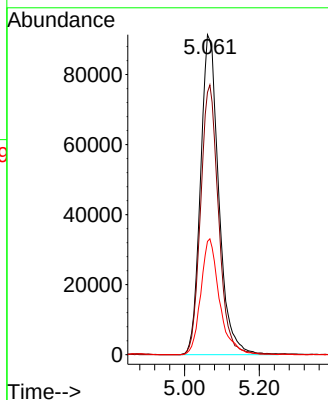
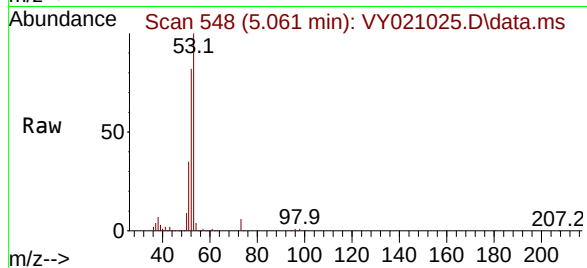
ClientSampleId :

VSTDICC150

Tgt Ion:	53	Resp:	30976
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.1	97.7
51	37.1	29.0	43.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#16

Acetone

Concen: 483.636 ug/l

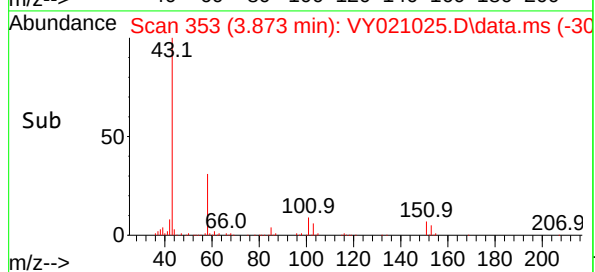
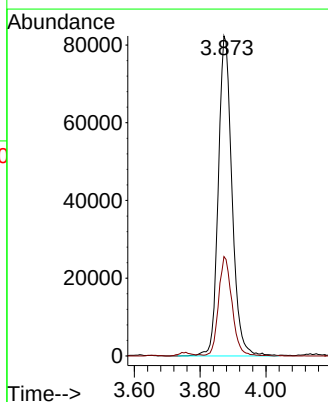
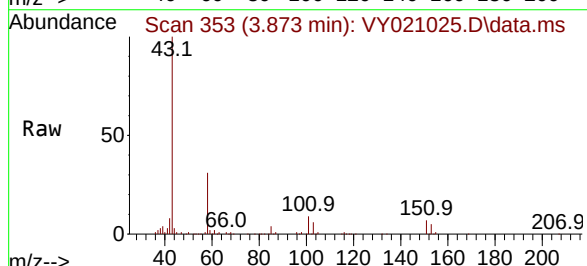
RT: 3.873 min Scan# 353

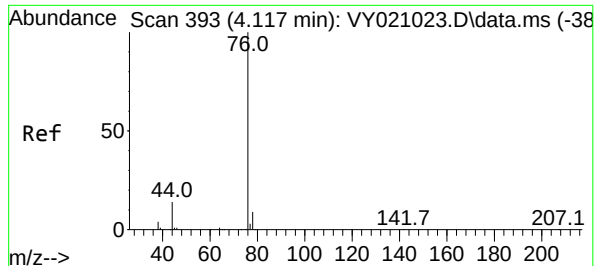
Delta R.T. -0.006 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Tgt Ion:	43	Resp:	237711
Ion	Ratio	Lower	Upper
43	100		
58	31.0	26.6	39.8





#17

Carbon Disulfide

Concen: 139.070 ug/l

RT: 4.116 min Scan# 393

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 886308

Ion Ratio Lower Upper

76 100

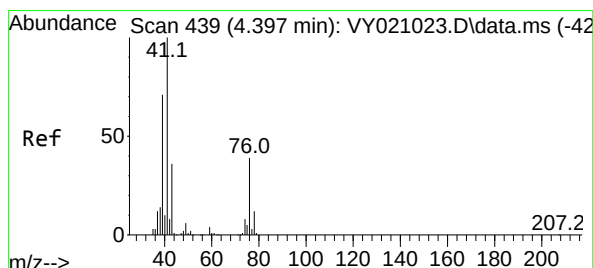
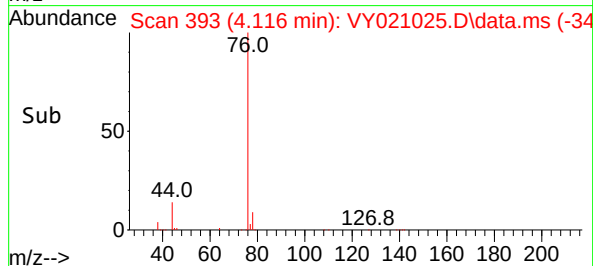
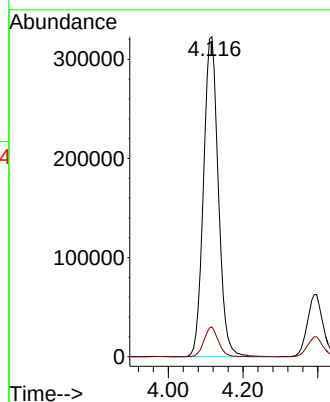
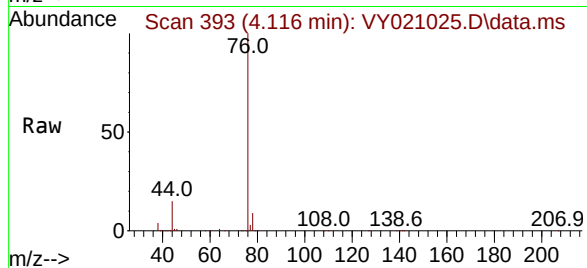
78 9.3 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#18

Methyl Acetate

Concen: 134.682 ug/l

RT: 4.391 min Scan# 438

Delta R.T. -0.006 min

Lab File: VY021025.D

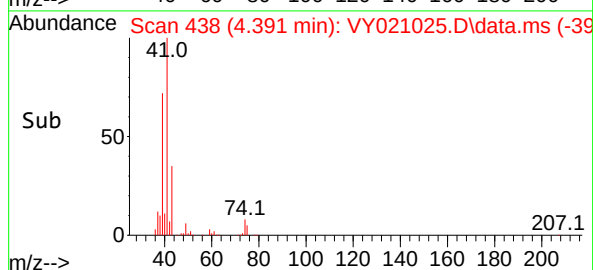
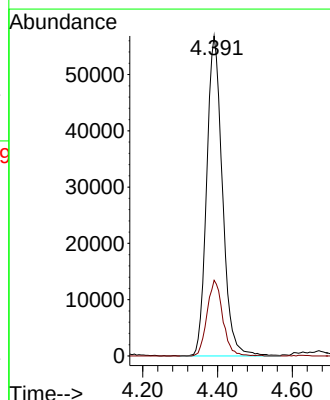
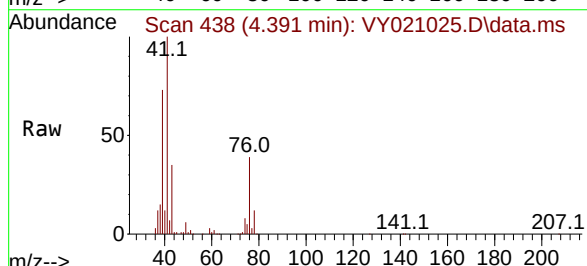
Acq: 03 Feb 2025 12:44

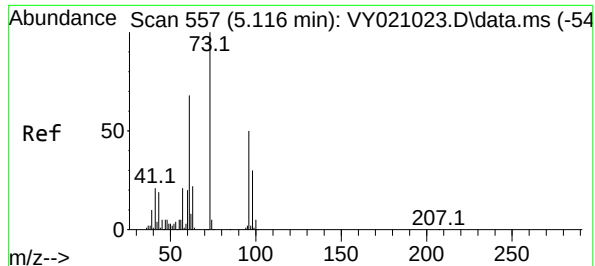
Tgt Ion: 43 Resp: 166019

Ion Ratio Lower Upper

43 100

74 23.5 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 159.427 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 73 Resp: 72051

Ion Ratio Lower Upper

73 100

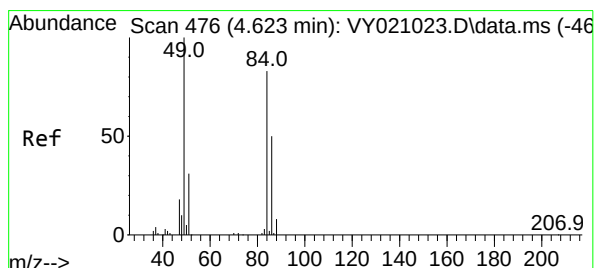
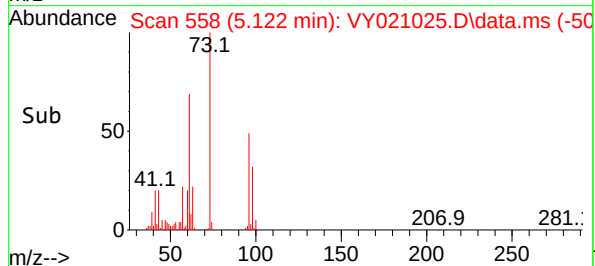
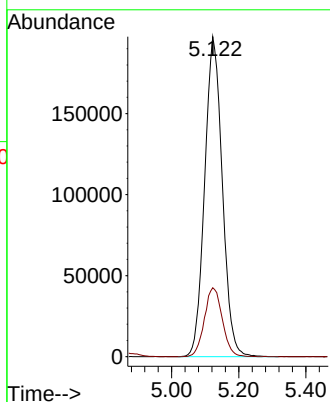
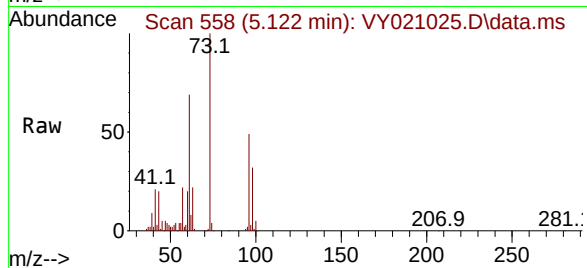
57 21.6 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#20

Methylene Chloride

Concen: 109.728 ug/l

RT: 4.622 min Scan# 476

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Tgt Ion: 84 Resp: 281630

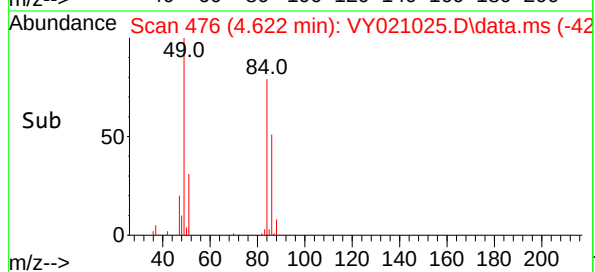
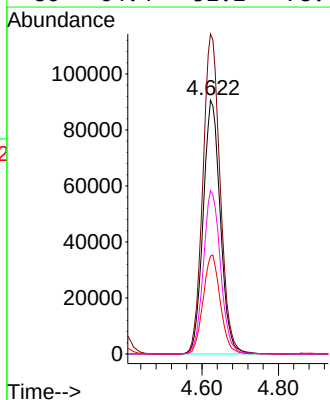
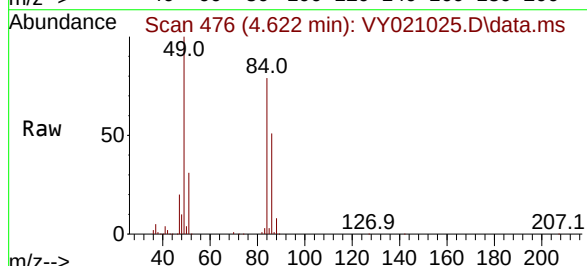
Ion Ratio Lower Upper

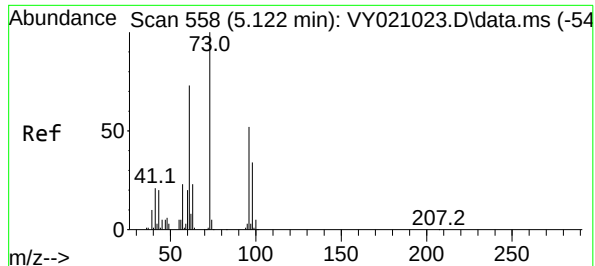
84 100

49 126.1 95.2 142.8

51 38.6 29.9 44.9

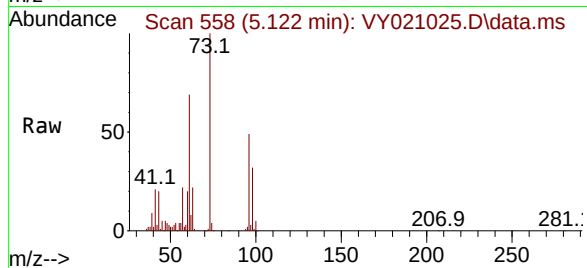
86 64.4 52.2 78.4





#21
trans-1,2-Dichloroethene
Concen: 134.636 ug/l
RT: 5.122 min Scan# 51
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

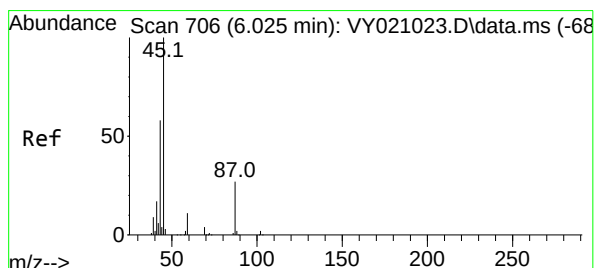
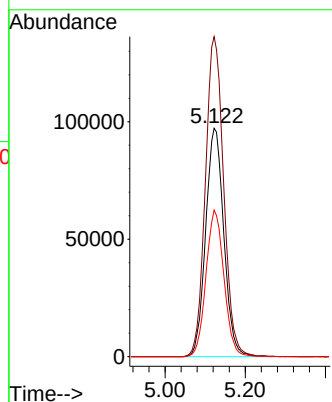
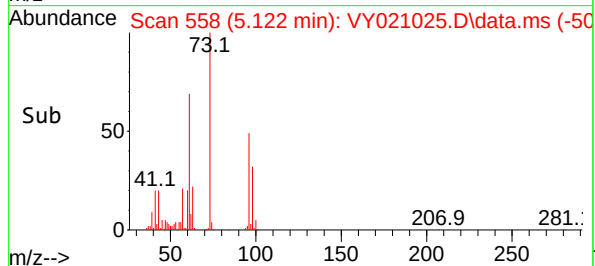
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



Tgt Ion: 96 Resp: 30616
Ion Ratio Lower Upper
96 100
61 140.1 104.6 156.8
98 64.1 50.9 76.3

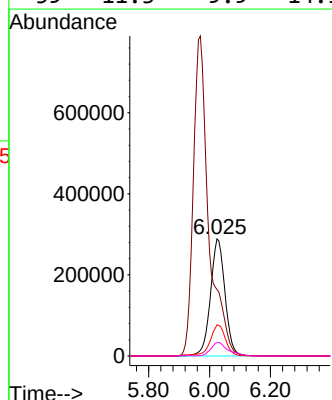
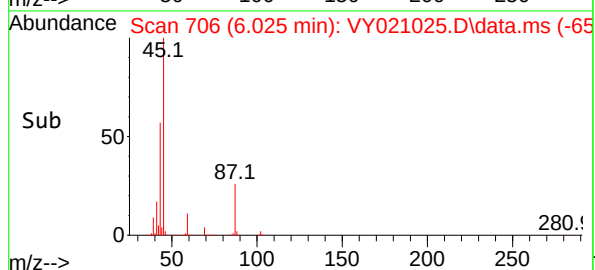
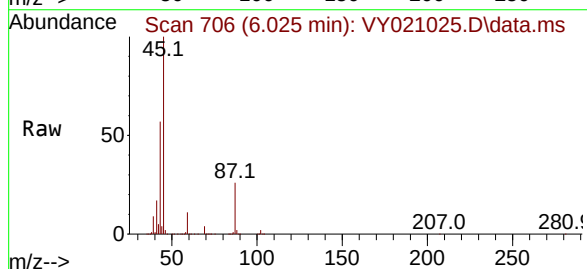
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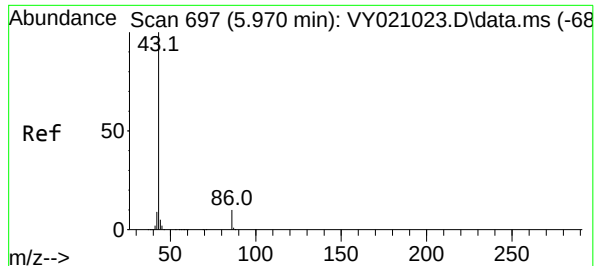
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#22
Diisopropyl ether
Concen: 148.878 ug/l
RT: 6.025 min Scan# 706
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Tgt Ion: 45 Resp: 955213
Ion Ratio Lower Upper
45 100
43 56.6 46.8 70.2
87 26.5 22.2 33.2
59 11.3 9.9 14.9





#23

Vinyl Acetate

Concen: 786.547 ug/l

RT: 5.970 min Scan# 697

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 276142

Ion Ratio Lower Upper

43

100

86

10.5

8.6

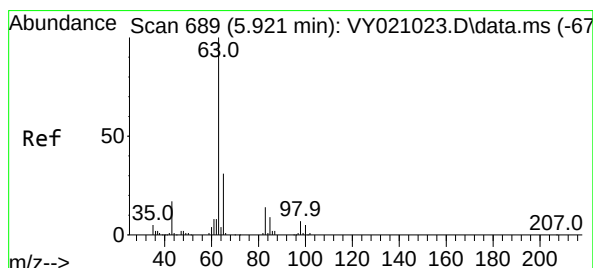
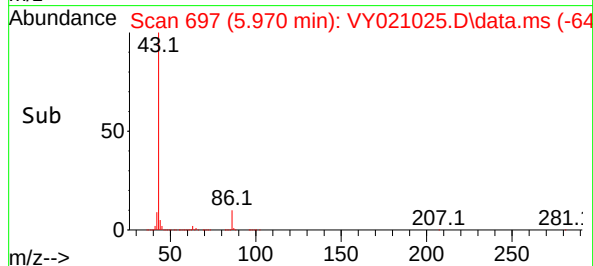
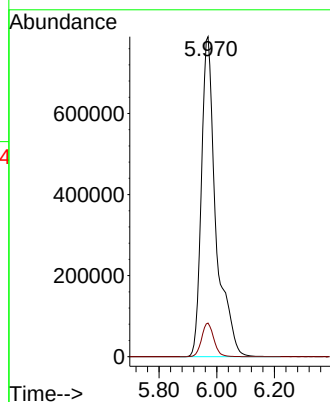
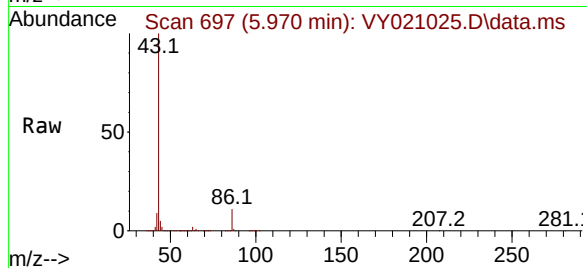
13.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#24

1,1-Dichloroethane

Concen: 141.610 ug/l

RT: 5.921 min Scan# 689

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Tgt Ion: 63 Resp: 563116

Ion Ratio Lower Upper

63

100

98

6.9

3.8

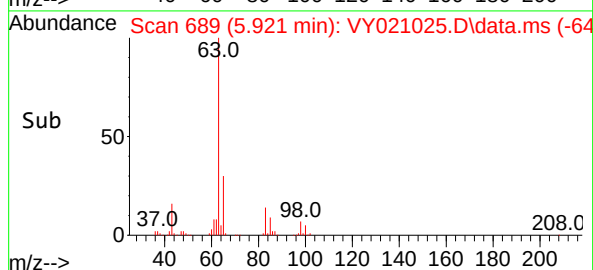
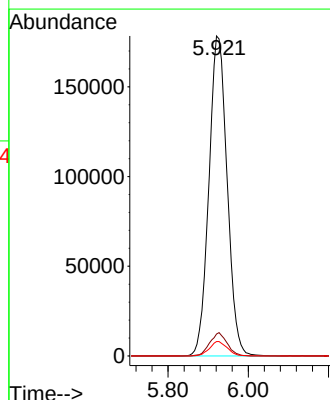
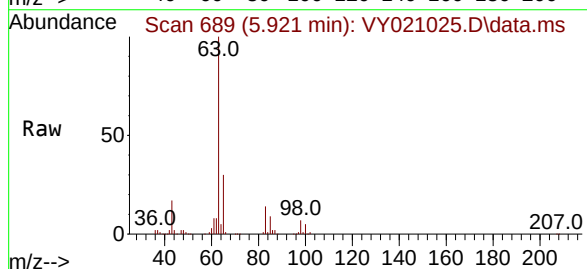
11.4

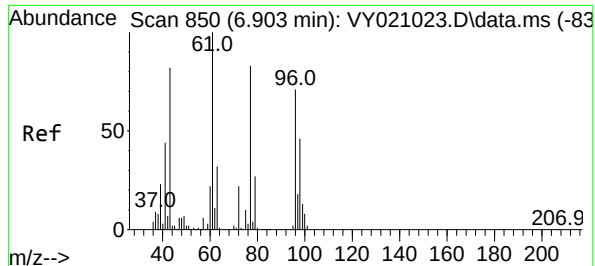
100

4.5

2.1

6.2





#25

2-Butanone

Concen: 620.601 ug/l

RT: 6.902 min Scan# 850

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 39588

Ion Ratio Lower Upper

43 100

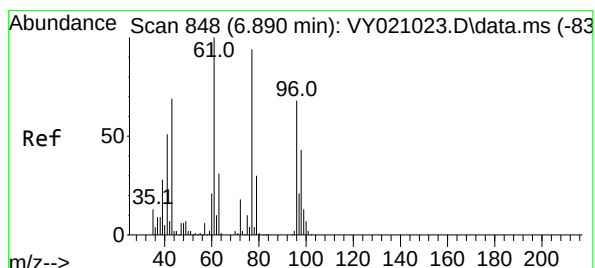
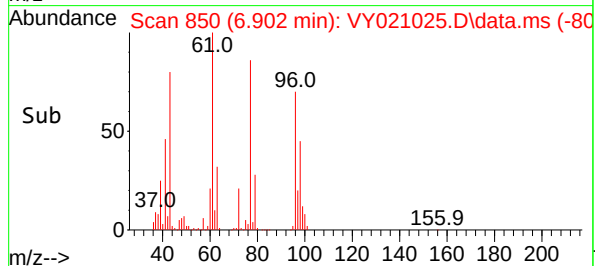
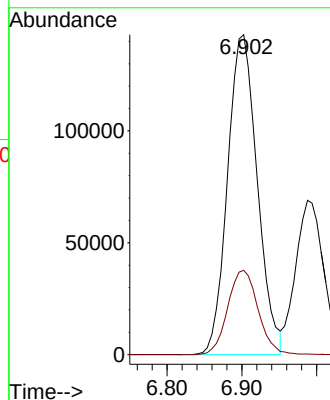
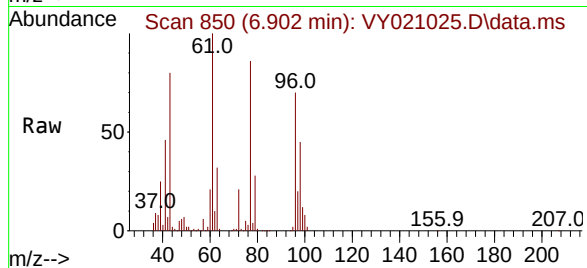
72 26.4 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#26

2,2-Dichloropropane

Concen: 153.065 ug/l

RT: 6.890 min Scan# 848

Delta R.T. -0.000 min

Lab File: VY021025.D

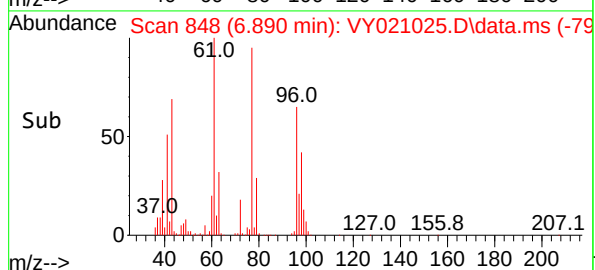
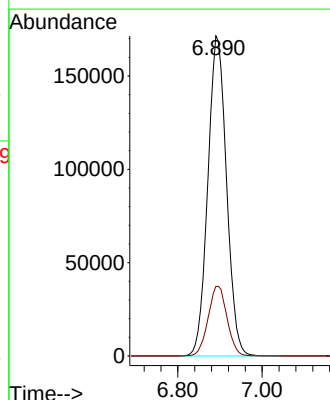
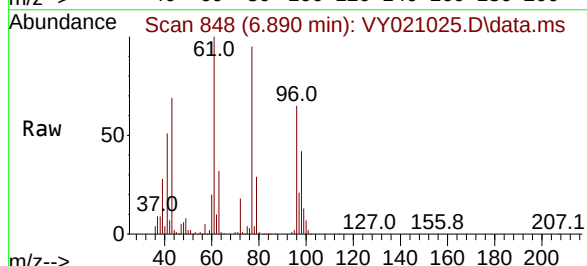
Acq: 03 Feb 2025 12:44

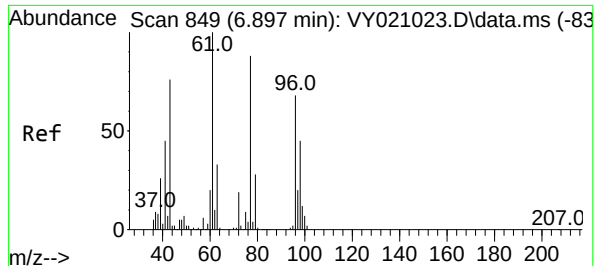
Tgt Ion: 77 Resp: 527500

Ion Ratio Lower Upper

77 100

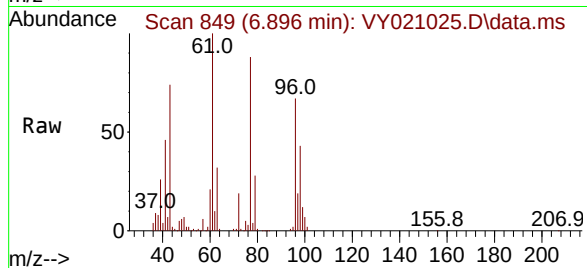
97 22.1 11.7 35.0





#27
cis-1,2-Dichloroethene
Concen: 144.373 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

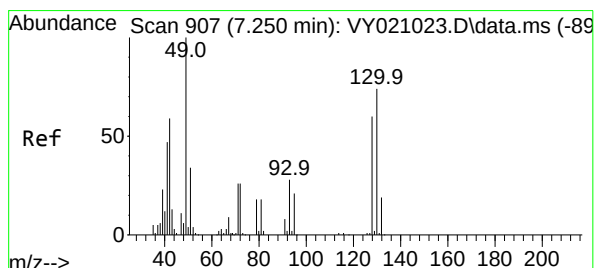
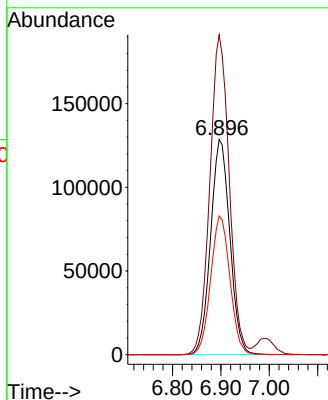
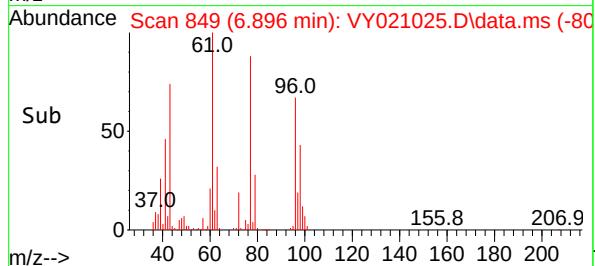
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



Tgt Ion: 96 Resp: 35649
Ion Ratio Lower Upper
96 100
61 149.4 0.0 278.8
98 64.4 0.0 127.0

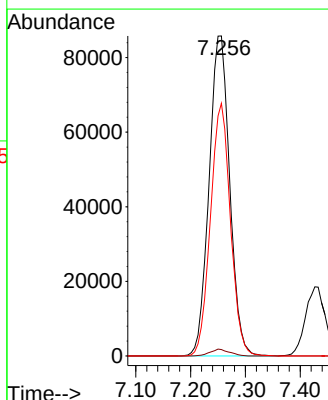
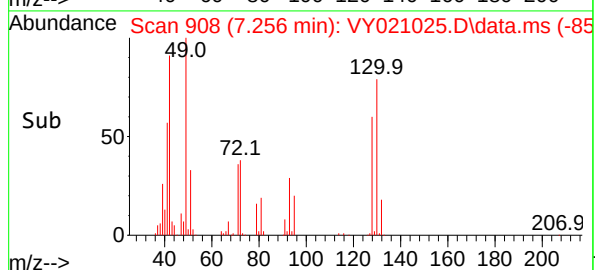
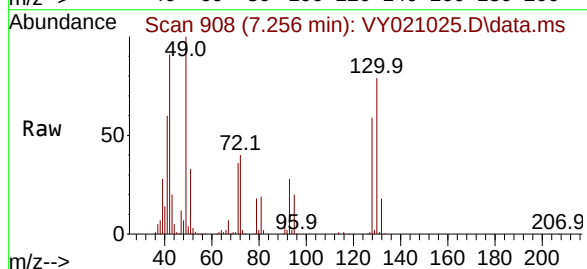
Manual Integrations
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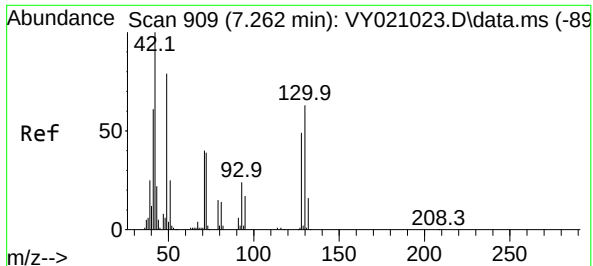
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#28
Bromochloromethane
Concen: 131.225 ug/l
RT: 7.256 min Scan# 908
Delta R.T. 0.006 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Tgt Ion: 49 Resp: 224174
Ion Ratio Lower Upper
49 100
129 2.0 0.0 3.8
130 76.4 59.8 89.8





#29

Tetrahydrofuran

Concen: 736.644 ug/l

RT: 7.268 min Scan# 910

Delta R.T. 0.006 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 26394

Ion Ratio Lower Upper

42 100

72 42.9 36.6 54.8

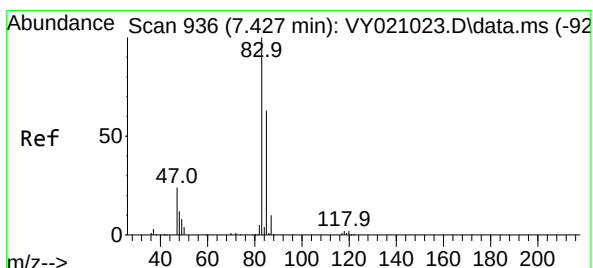
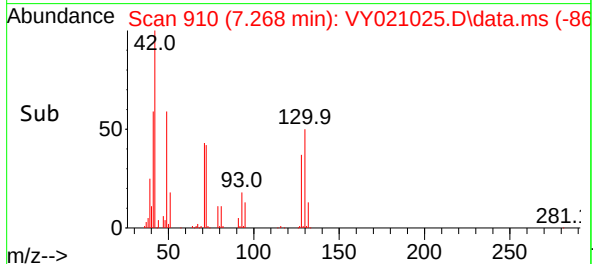
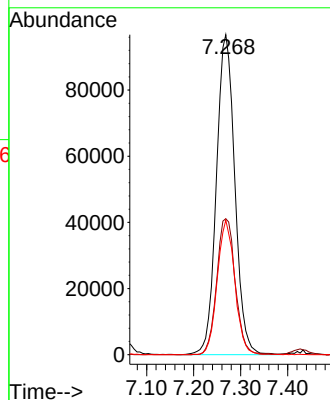
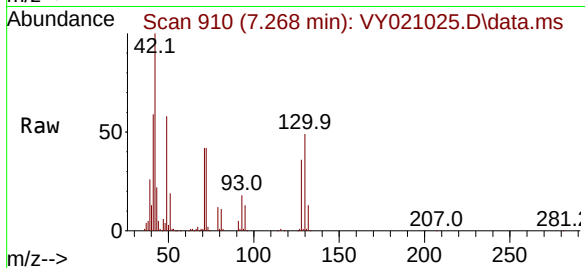
71 39.9 33.8 50.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#30

Chloroform

Concen: 143.739 ug/l

RT: 7.427 min Scan# 936

Delta R.T. -0.000 min

Lab File: VY021025.D

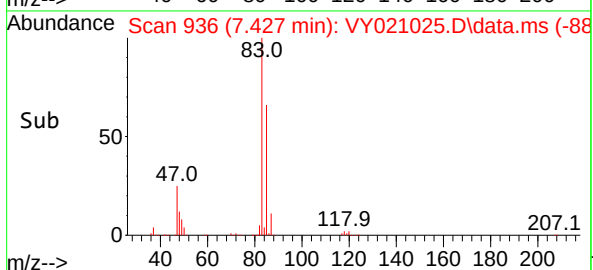
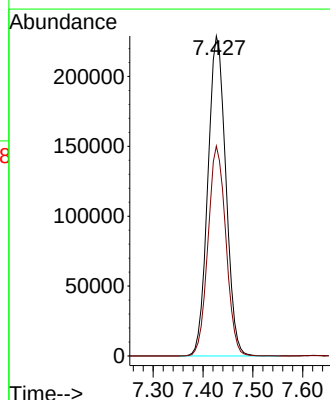
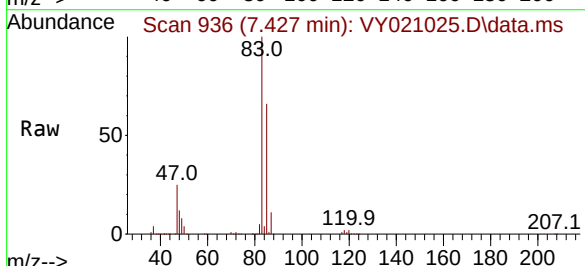
Acq: 03 Feb 2025 12:44

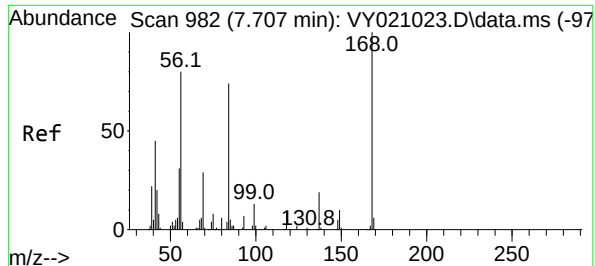
Tgt Ion: 83 Resp: 572890

Ion Ratio Lower Upper

83 100

85 65.6 51.2 76.8





#31

Cyclohexane

Concen: 128.899 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 56 Resp: 48516

Ion Ratio Lower Upper

56 100

69 31.0 27.0 40.6

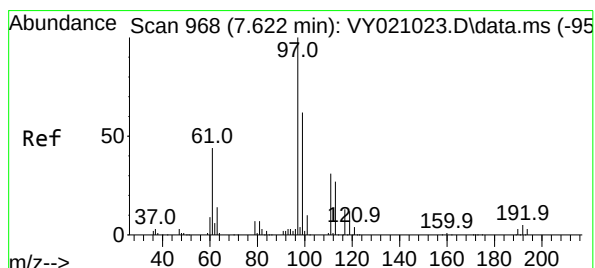
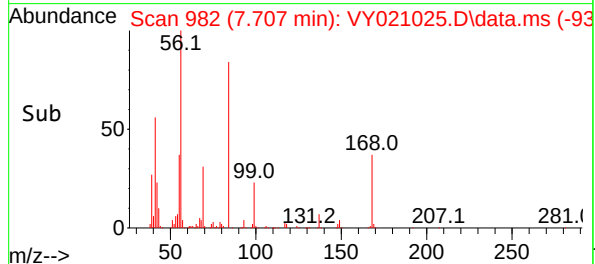
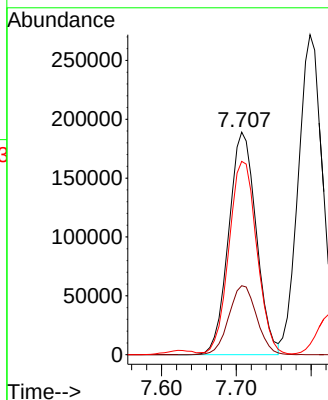
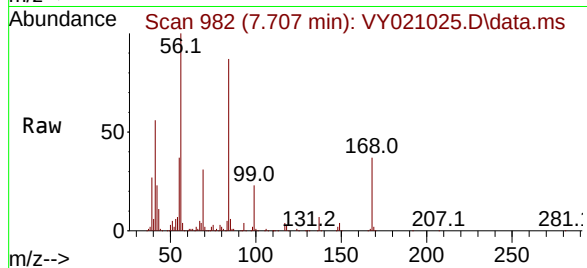
84 84.9 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#32

1,1,1-Trichloroethane

Concen: 151.377 ug/l

RT: 7.622 min Scan# 968

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

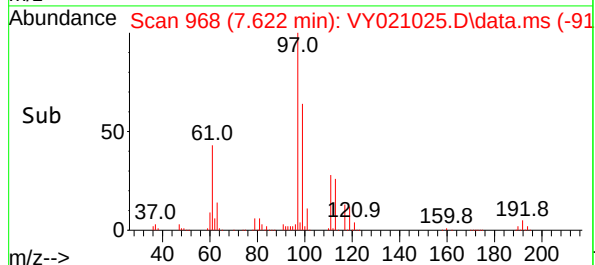
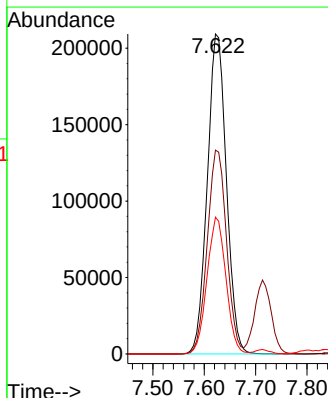
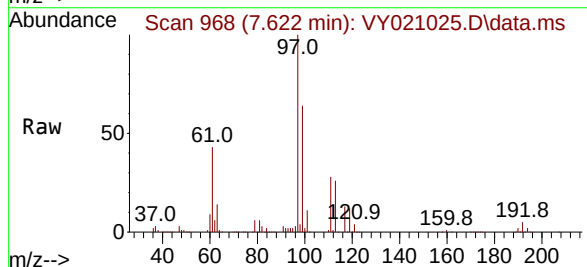
Tgt Ion: 97 Resp: 540513

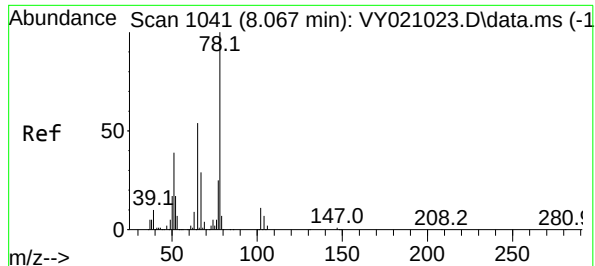
Ion Ratio Lower Upper

97 100

99 64.4 51.2 76.8

61 42.5 35.0 52.6





#33

1,2-Dichloroethane-d4

Concen: 145.336 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 293662

Ion Ratio Lower Upper

65 100

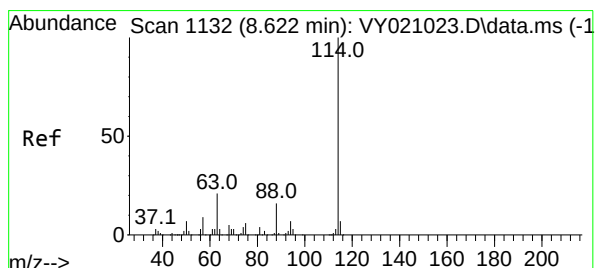
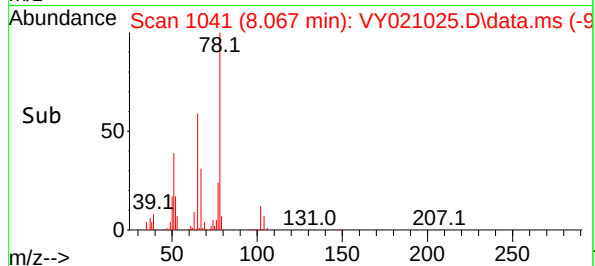
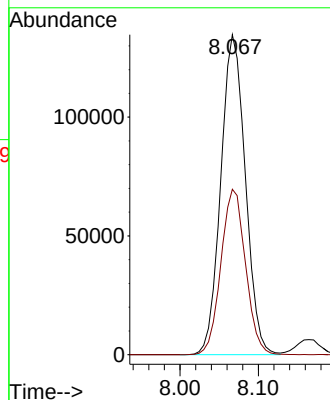
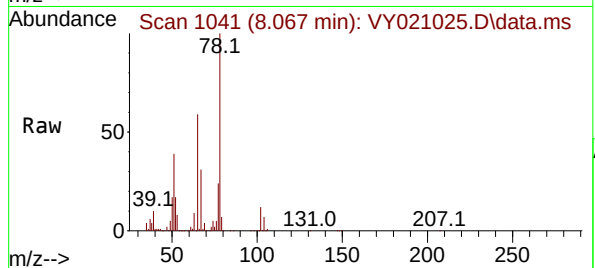
67 51.7 0.0 109.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

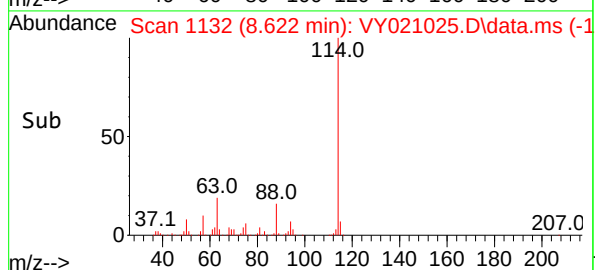
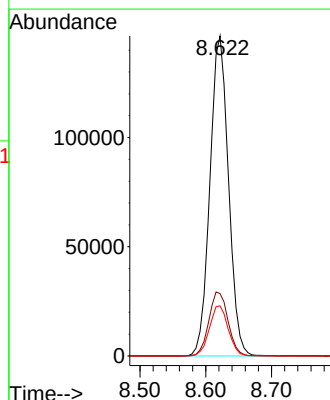
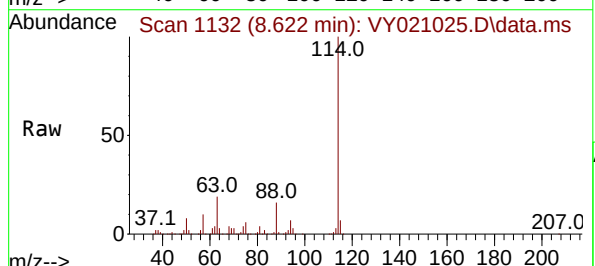
Tgt Ion:114 Resp: 287697

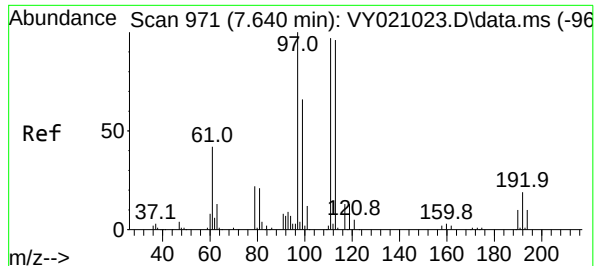
Ion Ratio Lower Upper

114 100

63 19.5 0.0 37.4

88 15.7 0.0 29.0





#35

Dibromofluoromethane

Concen: 155.917 ug/l

RT: 7.640 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Tgt Ion:113 Resp: 287798

Ion Ratio Lower Upper

113 100

111 102.3 83.8 125.6

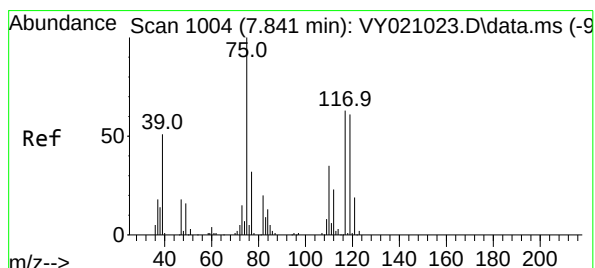
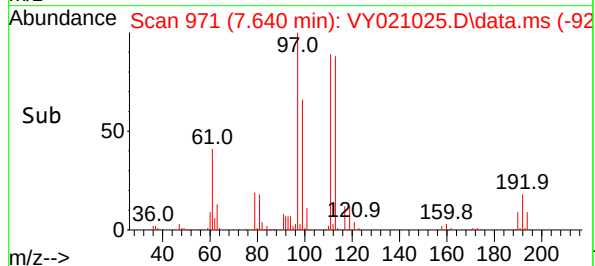
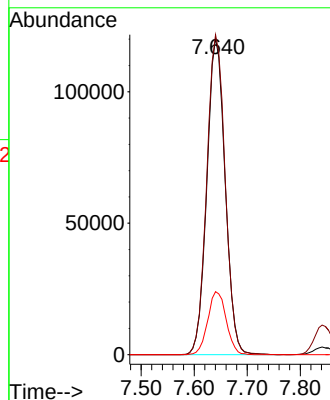
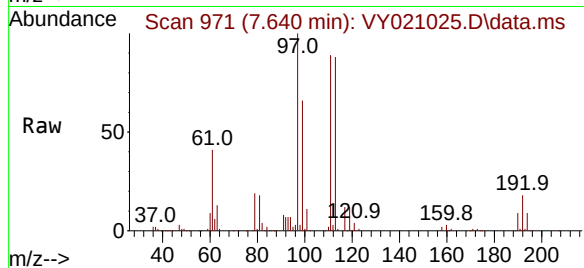
192 20.1 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#36

1,1-Dichloropropene

Concen: 143.160 ug/l

RT: 7.841 min Scan# 1004

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

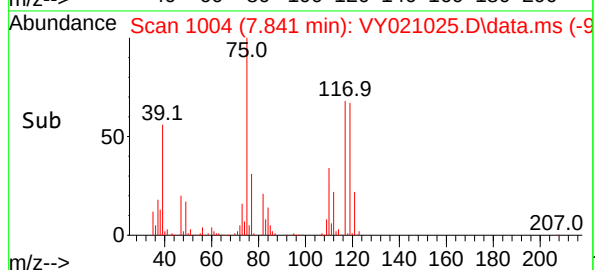
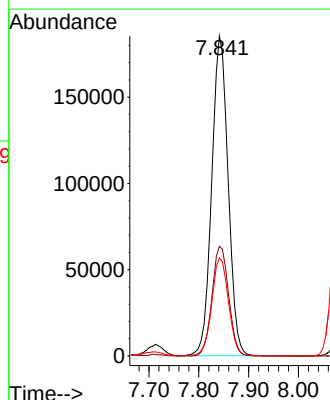
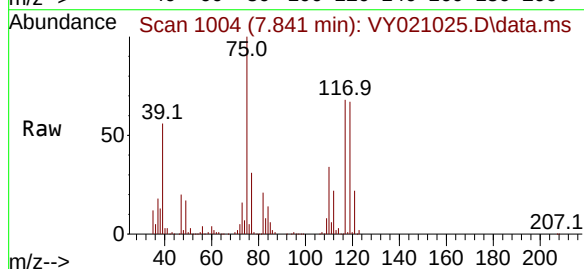
Tgt Ion: 75 Resp: 423720

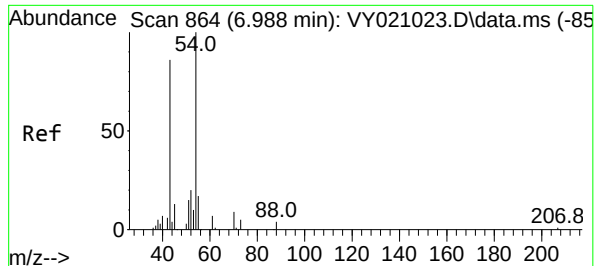
Ion Ratio Lower Upper

75 100

110 34.7 17.4 52.3

77 31.4 24.7 37.1





#37

Ethyl Acetate

Concen: 153.217 ug/l

RT: 6.988 min Scan# 80

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 18666

Ion Ratio Lower Upper

43 100

61 13.2 11.0 16.6

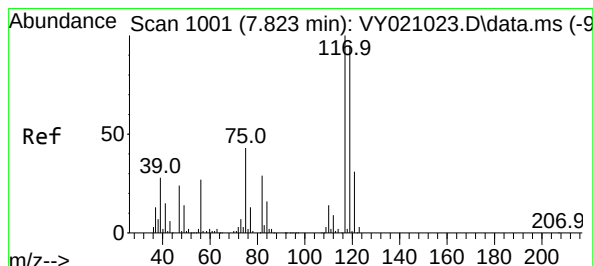
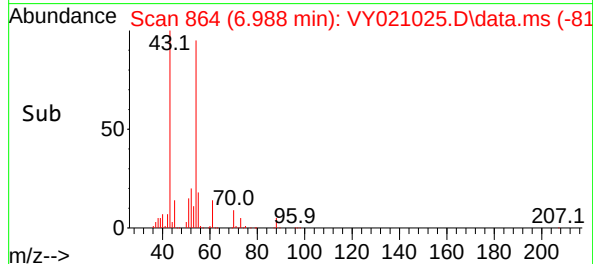
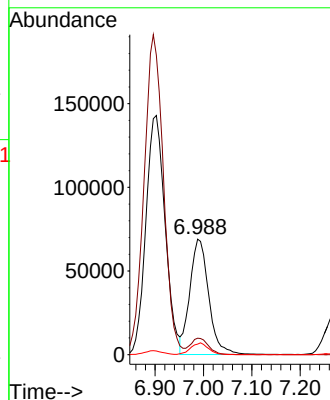
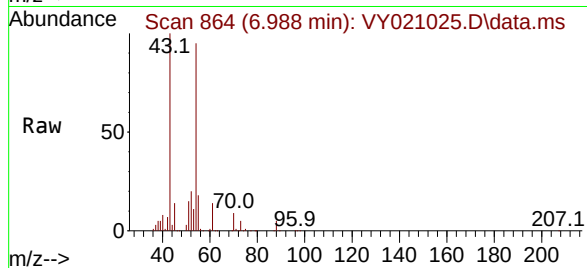
70 9.6 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#38

Carbon Tetrachloride

Concen: 170.502 ug/l

RT: 7.823 min Scan# 1001

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

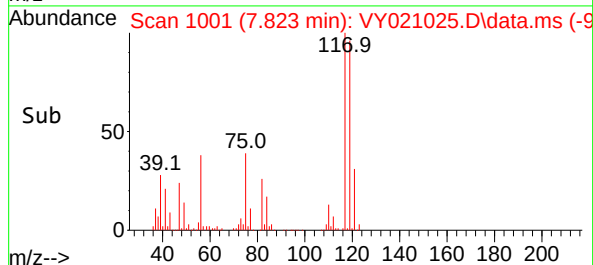
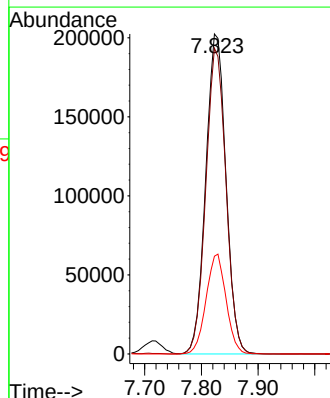
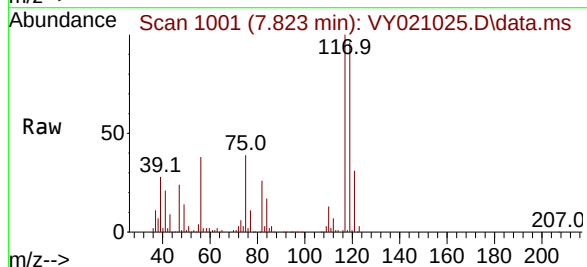
Tgt Ion:117 Resp: 501205

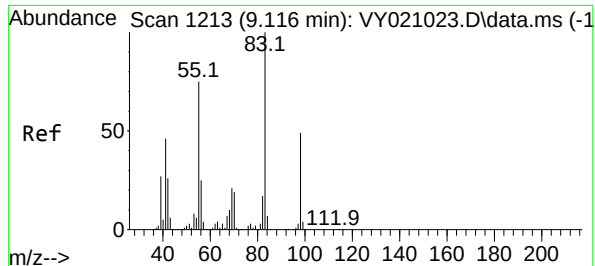
Ion Ratio Lower Upper

117 100

119 95.5 76.0 114.0

121 30.6 24.2 36.2





#39

Methylcyclohexane

Concen: 152.474 ug/l

RT: 9.115 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 542900

Ion Ratio Lower Upper

83 100

55 75.5 59.7 89.5

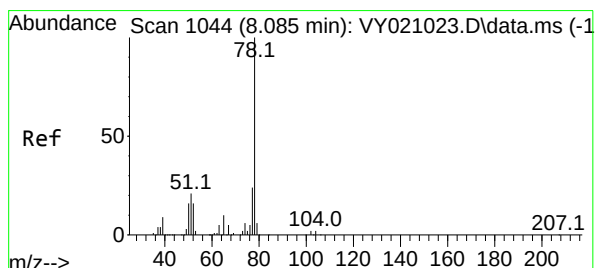
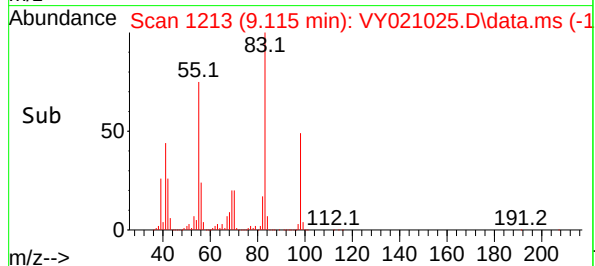
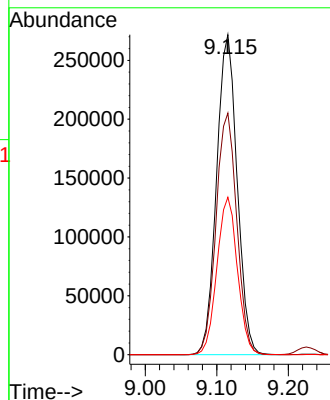
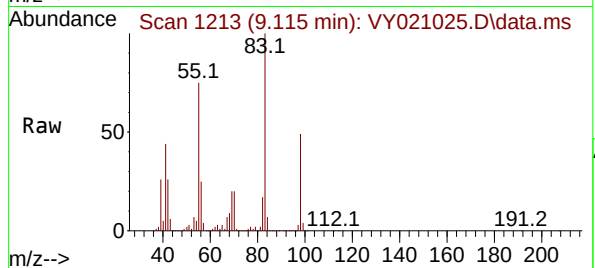
98 49.2 38.0 57.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#40

Benzene

Concen: 148.429 ug/l

RT: 8.085 min Scan# 1044

Delta R.T. -0.000 min

Lab File: VY021025.D

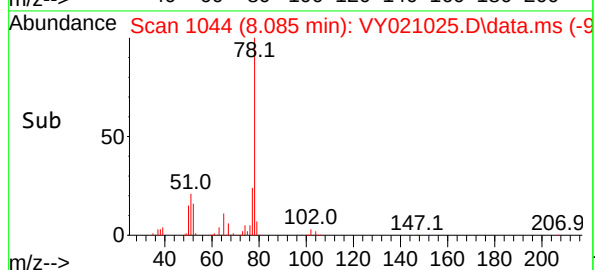
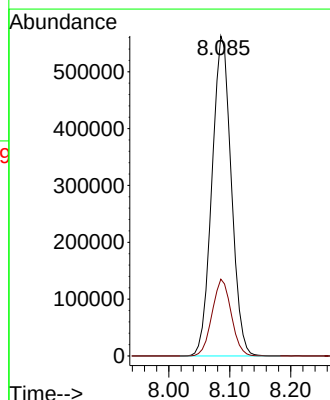
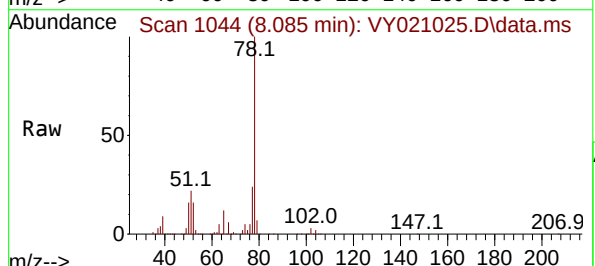
Acq: 03 Feb 2025 12:44

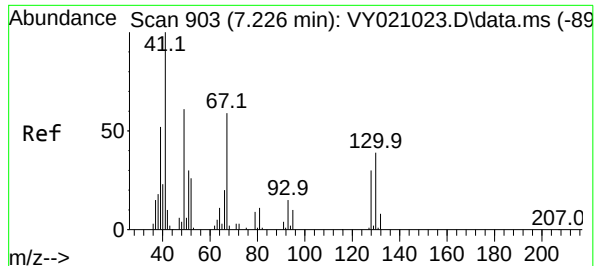
Tgt Ion: 78 Resp: 1239229

Ion Ratio Lower Upper

78 100

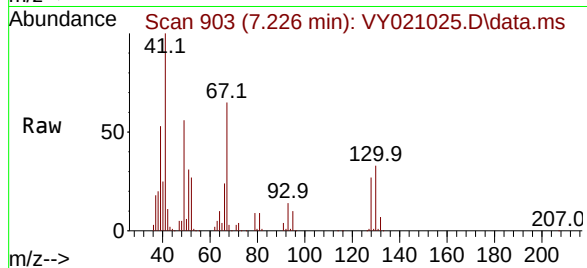
77 24.0 18.8 28.2





#41
Methacrylonitrile
Concen: 185.120 ug/l
RT: 7.226 min Scan# 903
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

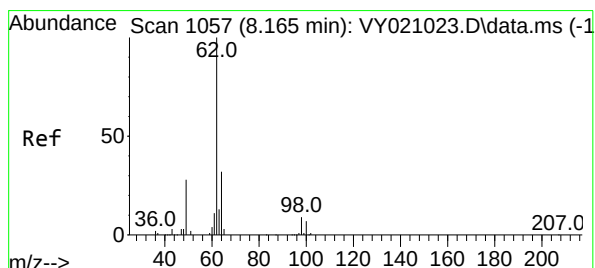
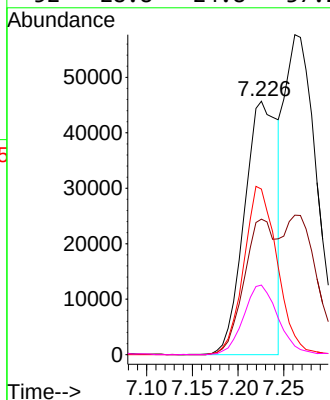
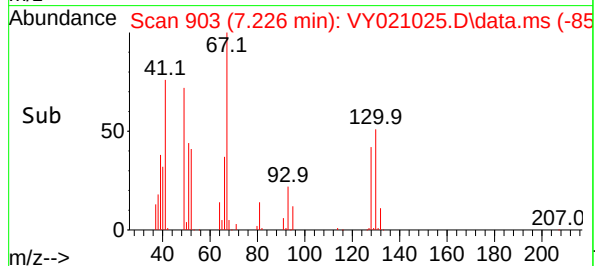
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



Tgt Ion: 41 Resp: 115234
Ion Ratio Lower Upper
41 100
39 52.7 41.9 62.9
67 67.4 59.8 89.6
52 28.8 24.8 37.2

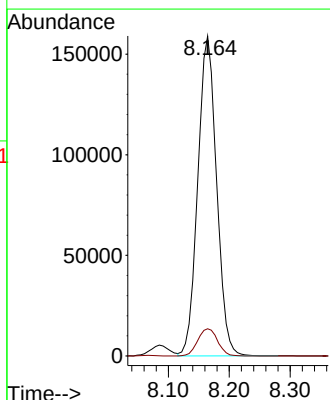
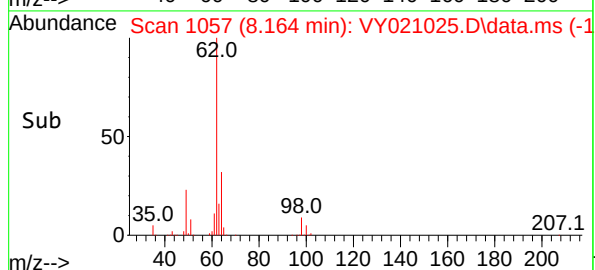
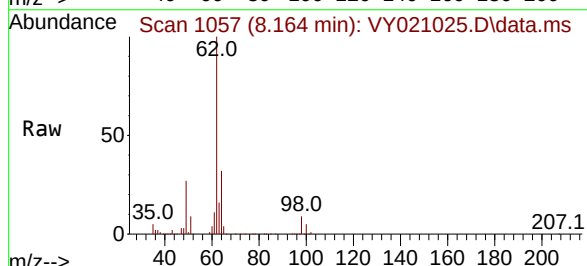
Manual Integrations
APPROVED

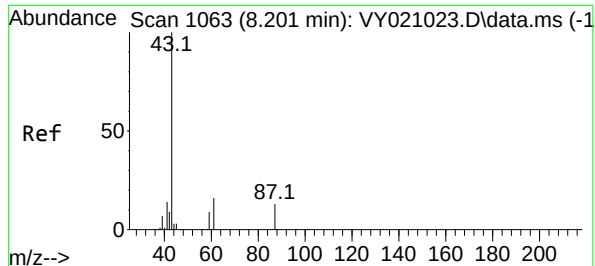
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#42
1,2-Dichloroethane
Concen: 158.367 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Tgt Ion: 62 Resp: 340547
Ion Ratio Lower Upper
62 100
98 9.0 0.0 20.2





#43

Isopropyl Acetate

Concen: 175.917 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 388960

Ion Ratio Lower Upper

43 100

61 20.0 24.8 37.2

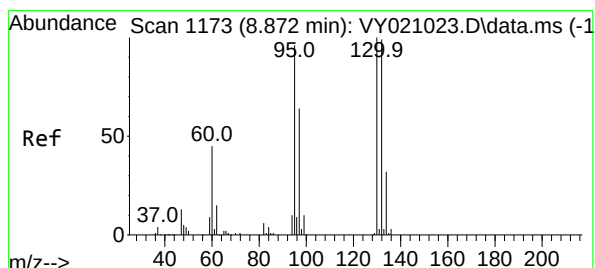
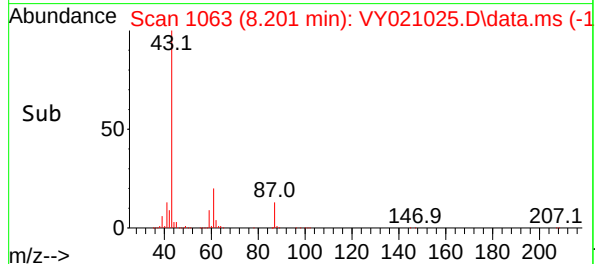
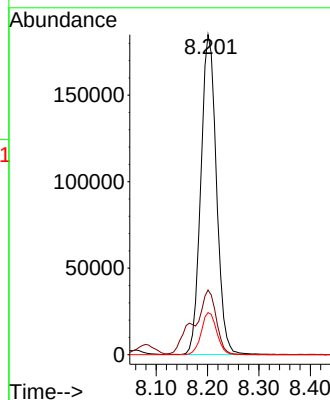
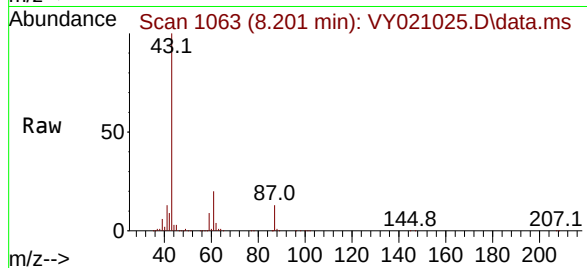
87 13.1 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#44

Trichloroethene

Concen: 150.703 ug/l

RT: 8.872 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VY021025.D

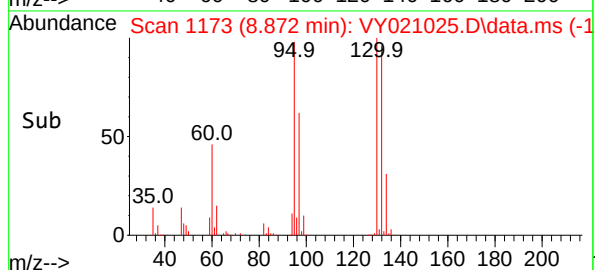
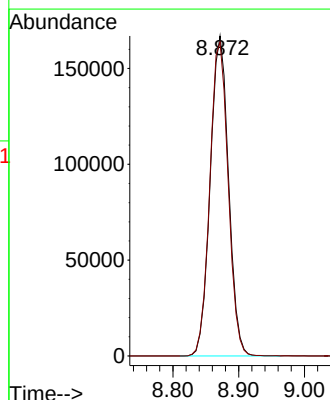
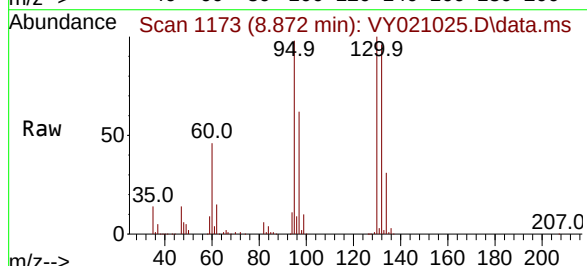
Acq: 03 Feb 2025 12:44

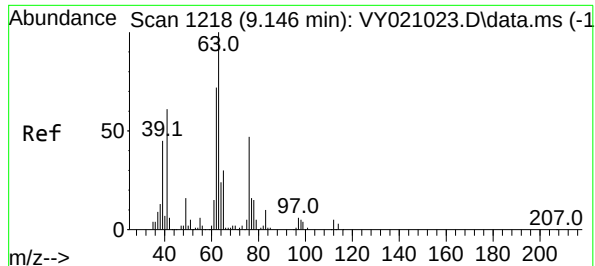
Tgt Ion:130 Resp: 323716

Ion Ratio Lower Upper

130 100

95 98.0 0.0 203.8





#45

1,2-Dichloropropane

Concen: 147.060 ug/l

RT: 9.146 min Scan# 1218

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 294150

Ion Ratio Lower Upper

63 100

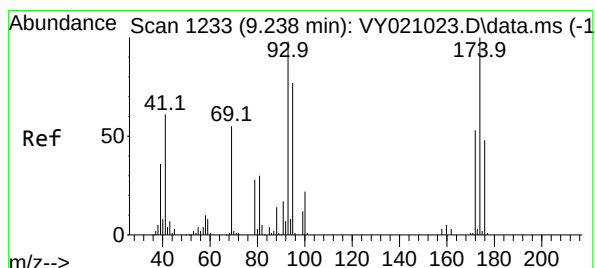
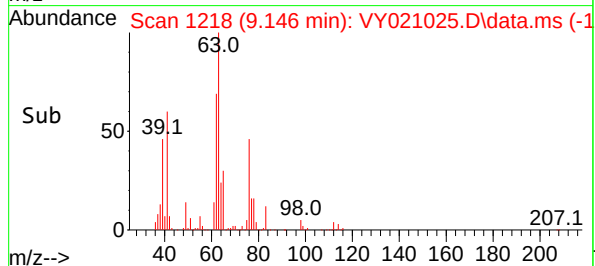
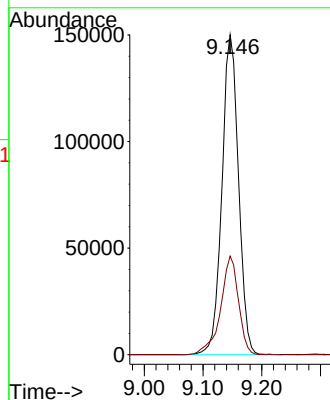
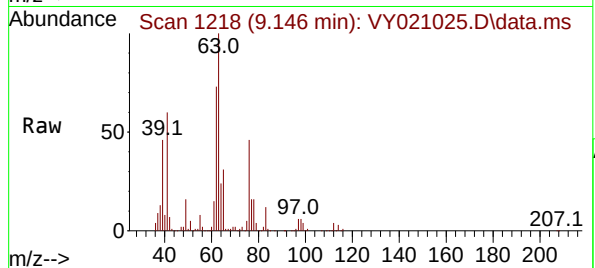
65 30.8 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#46

Dibromomethane

Concen: 154.118 ug/l

RT: 9.237 min Scan# 1233

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

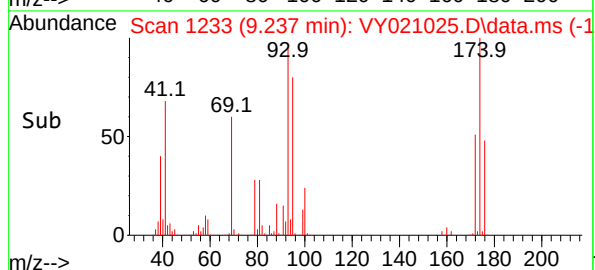
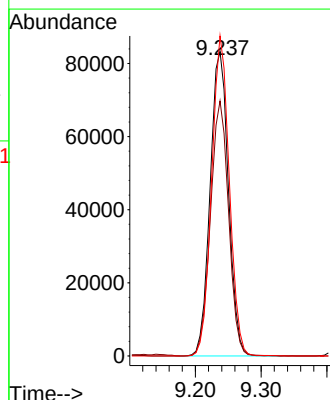
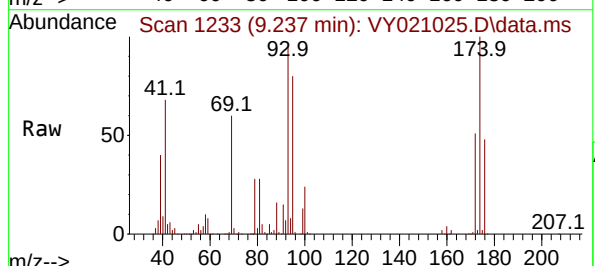
Tgt Ion: 93 Resp: 161341

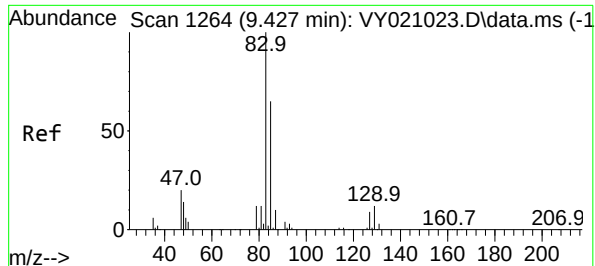
Ion Ratio Lower Upper

93 100

95 82.9 66.6 99.8

174 101.4 73.8 110.6





#47

Bromodichloromethane

Concen: 160.591 ug/l

RT: 9.426 min Scan# 1264

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

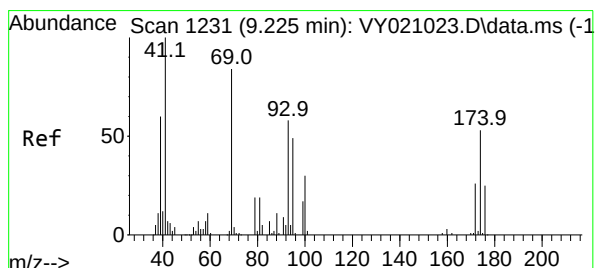
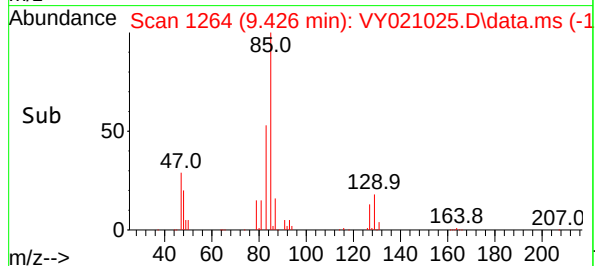
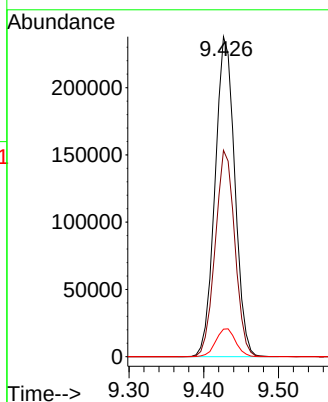
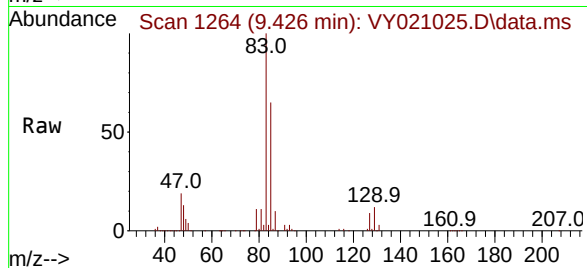
VSTDICC150

Tgt Ion: 83 Resp: 437119

Ion	Ratio	Lower	Upper
83	100		
85	64.5	53.2	79.8
127	8.6	6.4	9.6

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#48

Methyl methacrylate

Concen: 167.251 ug/l

RT: 9.225 min Scan# 1231

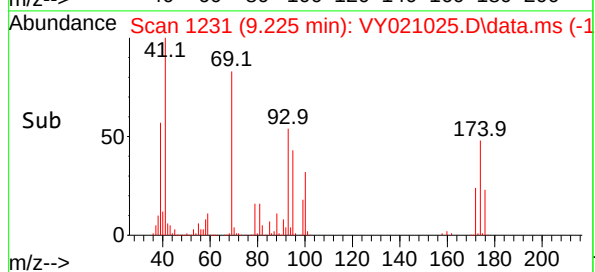
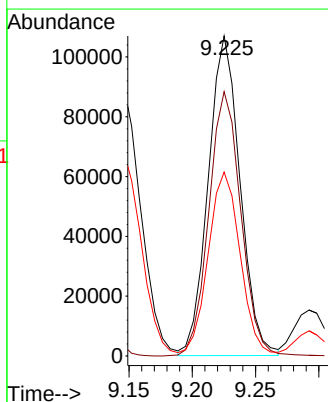
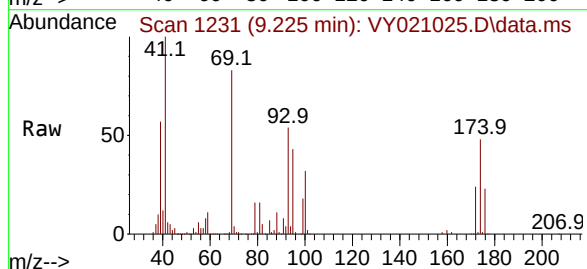
Delta R.T. -0.000 min

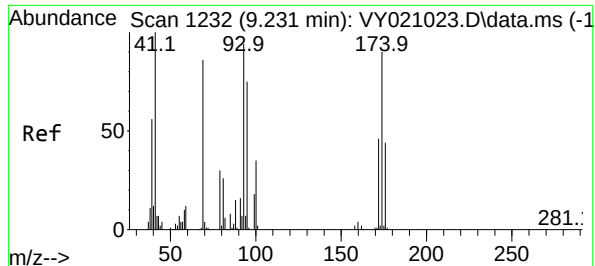
Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Tgt Ion: 41 Resp: 187040

Ion	Ratio	Lower	Upper
41	100		
69	83.4	72.1	108.1
39	55.8	42.8	64.2





#49

1,4-Dioxane

Concen: 3078.544 ug/l

RT: 9.231 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

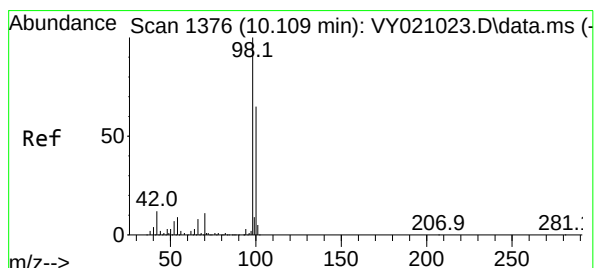
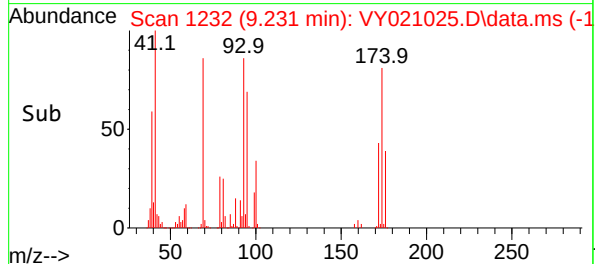
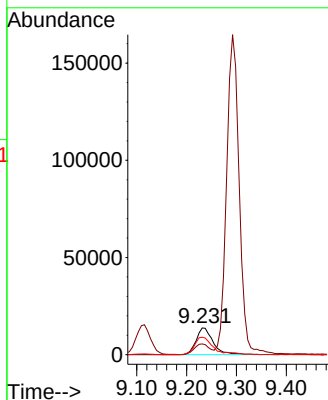
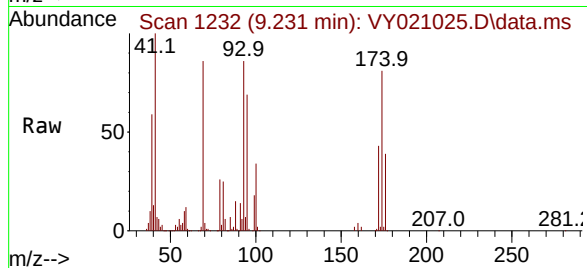
VSTDICC150

Tgt Ion: 88 Resp: 32704

Ion	Ratio	Lower	Upper
88	100		
43	36.2	28.2	42.4
58	72.3	52.2	78.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#50

Toluene-d8

Concen: 156.140 ug/l

RT: 10.109 min Scan# 1376

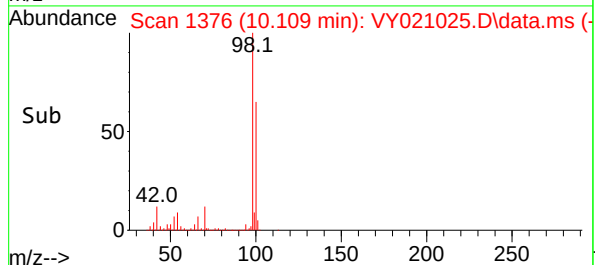
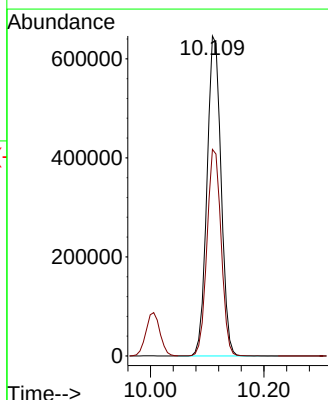
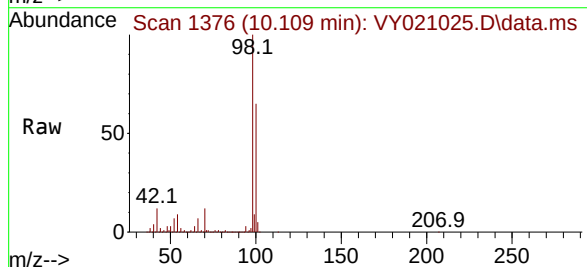
Delta R.T. -0.000 min

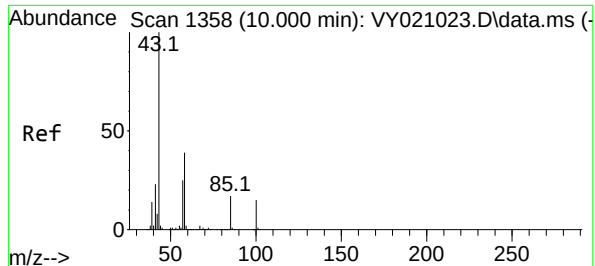
Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Tgt Ion: 98 Resp: 1111573

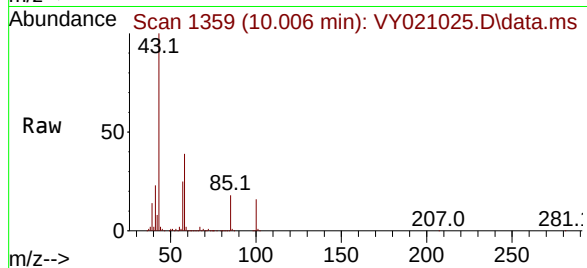
Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.3	78.5





#51
4-Methyl-2-Pentanone
Concen: 814.397 ug/l
RT: 10.006 min Scan# 1359
Delta R.T. 0.006 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

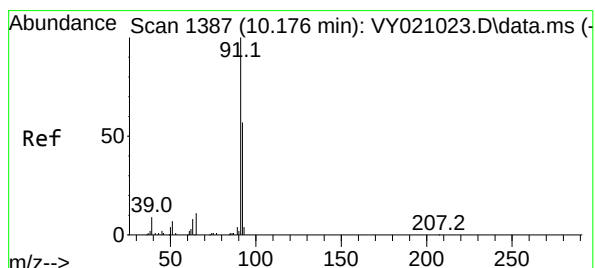
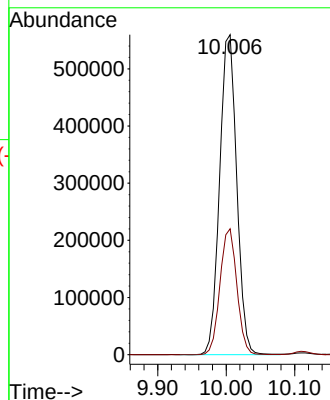
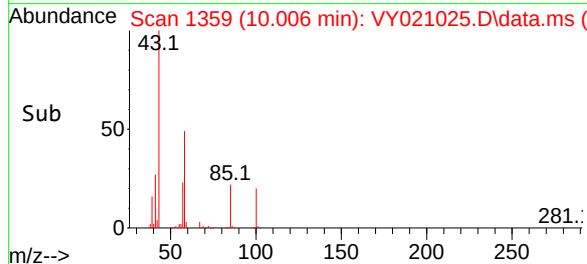
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



Tgt Ion: 43 Resp: 965500
Ion Ratio Lower Upper
43 100
58 38.9 32.2 48.2

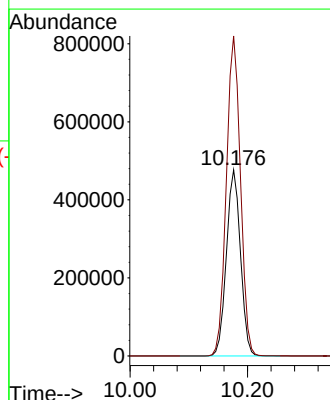
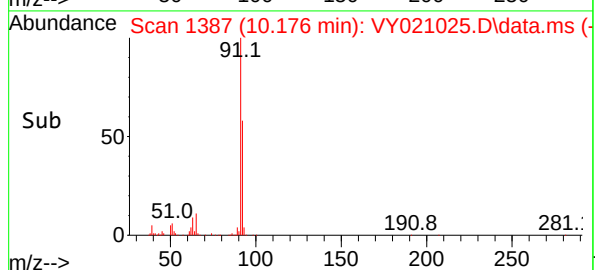
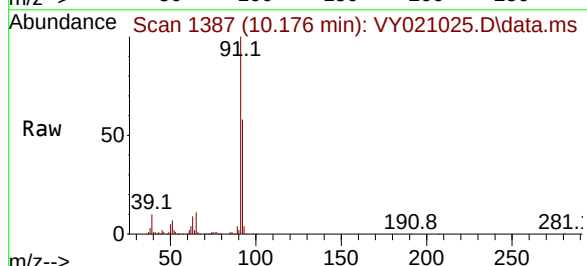
Manual Integrations
APPROVED

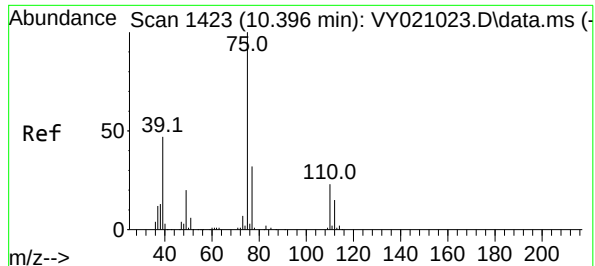
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#52
Toluene
Concen: 155.591 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

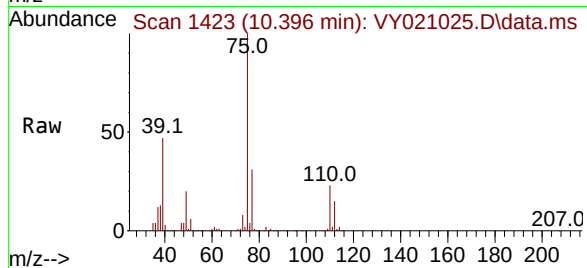
Tgt Ion: 92 Resp: 792134
Ion Ratio Lower Upper
92 100
91 172.3 137.6 206.4





#53
t-1,3-Dichloropropene
Concen: 166.270 ug/l
RT: 10.396 min Scan# 1423
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

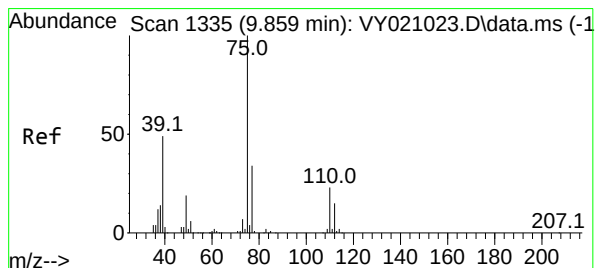
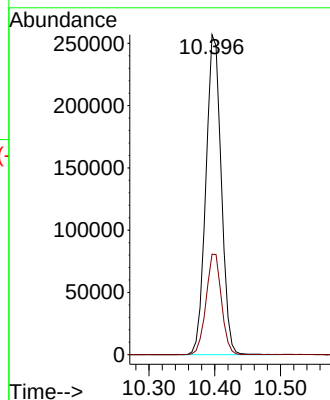
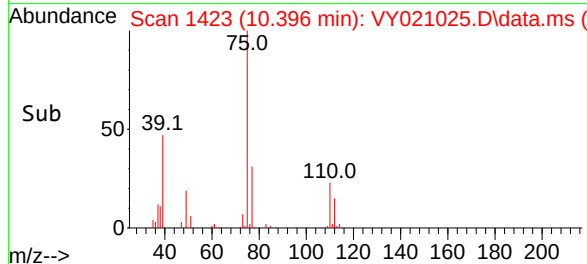
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



Tgt Ion: 75 Resp: 416872
Ion Ratio Lower Upper
75 100
77 31.4 24.6 36.8

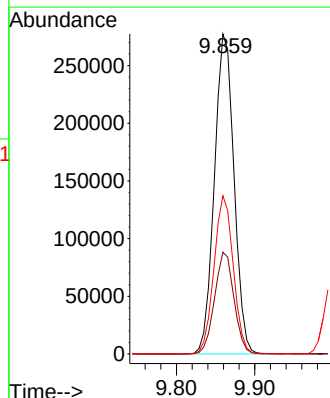
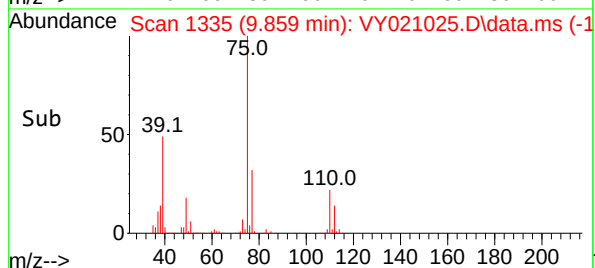
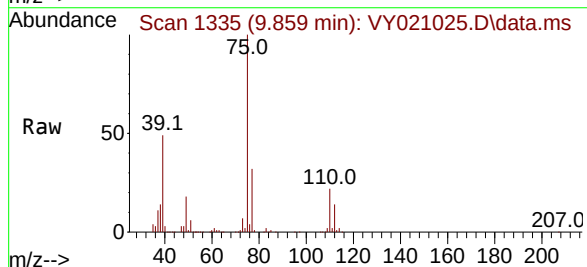
Manual Integrations
APPROVED

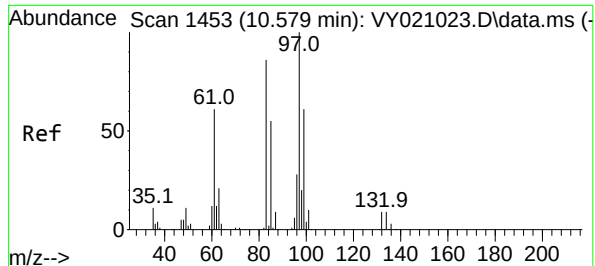
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#54
cis-1,3-Dichloropropene
Concen: 158.232 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Tgt Ion: 75 Resp: 483429
Ion Ratio Lower Upper
75 100
77 31.8 24.6 36.8
39 49.4 33.6 50.4





#55

1,1,2-Trichloroethane

Concen: 146.925 ug/l

RT: 10.579 min Scan# 1453

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 209000

Ion Ratio Lower Upper

97 100

83 85.6 69.4 104.2

85 56.0 43.9 65.9

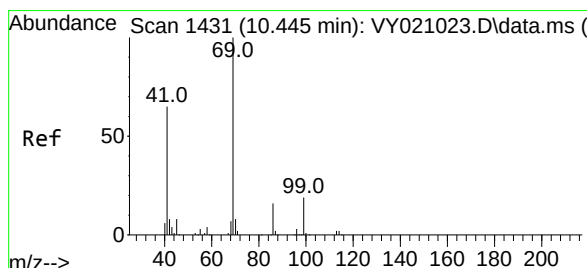
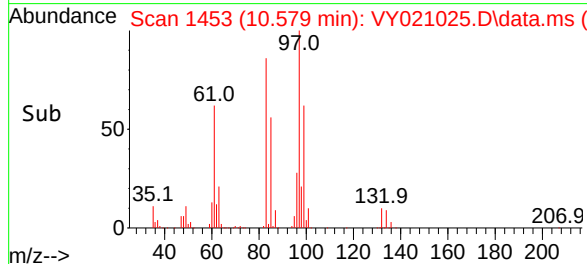
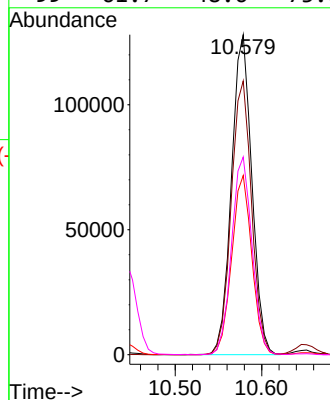
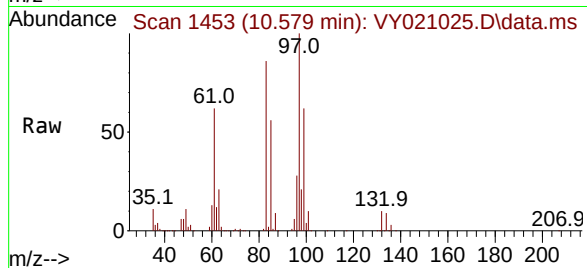
99 61.7 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#56

Ethyl methacrylate

Concen: 200.500 ug/l

RT: 10.444 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

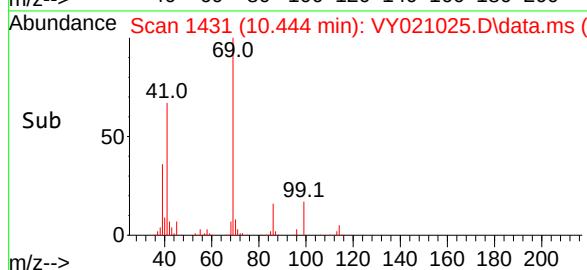
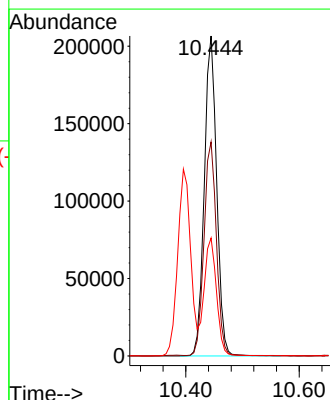
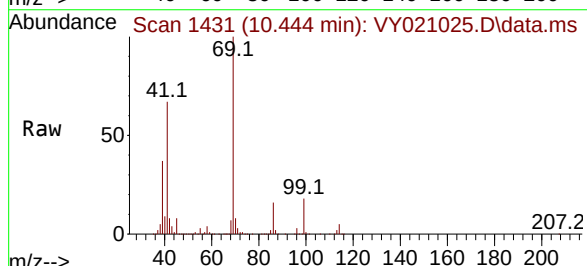
Tgt Ion: 69 Resp: 313458

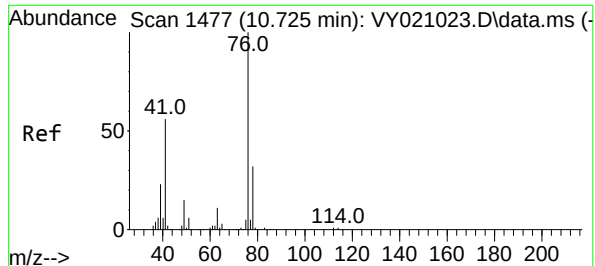
Ion Ratio Lower Upper

69 100

41 67.0 49.2 73.8

39 37.0 26.8 40.2





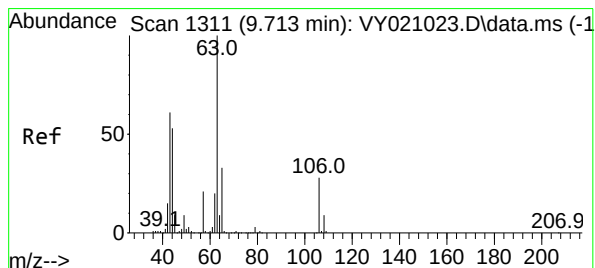
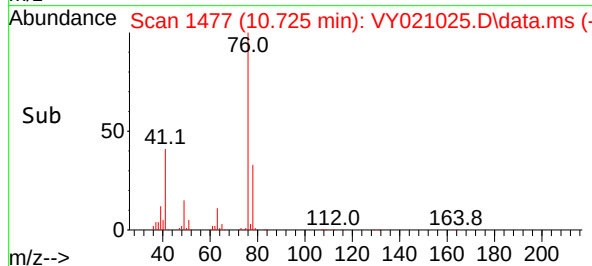
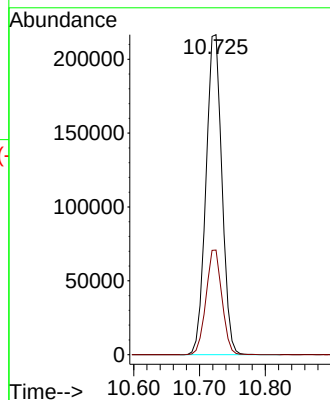
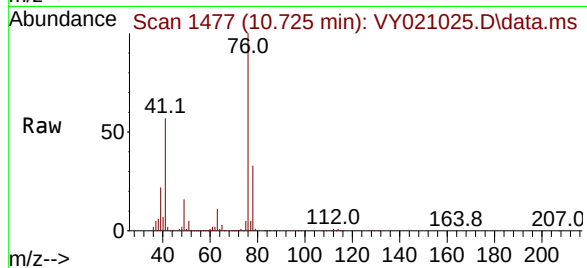
#57
1,3-Dichloropropane
Concen: 149.005 ug/l
RT: 10.725 min Scan# 1477
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 36555
Ion Ratio Lower Upper
76 100
78 32.7 26.1 39.1

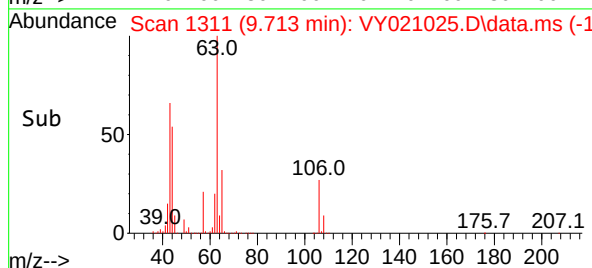
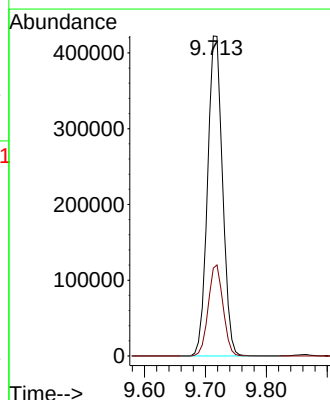
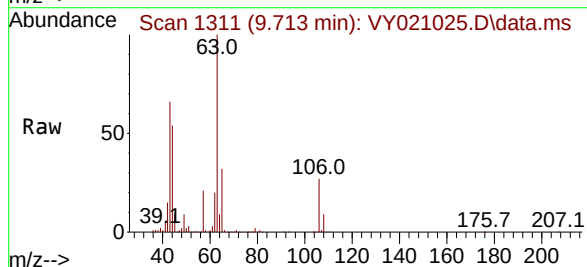
Manual Integrations
APPROVED

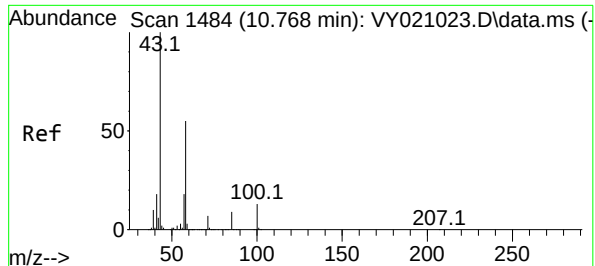
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#58
2-Chloroethyl Vinyl ether
Concen: 788.766 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

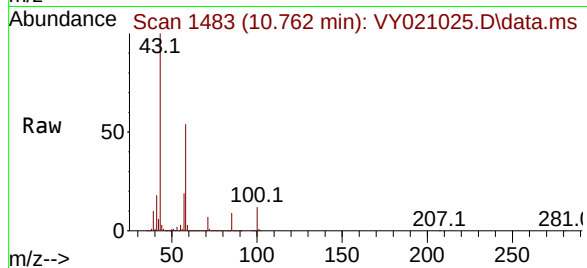
Tgt Ion: 63 Resp: 721923
Ion Ratio Lower Upper
63 100
106 28.0 22.4 33.6





#59
2-Hexanone
Concen: 763.675 ug/l
RT: 10.762 min Scan# 1483
Delta R.T. -0.006 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

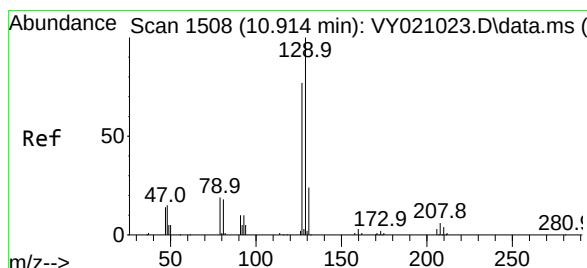
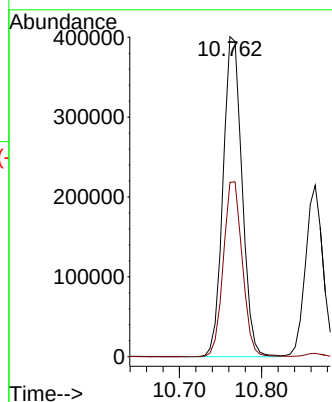
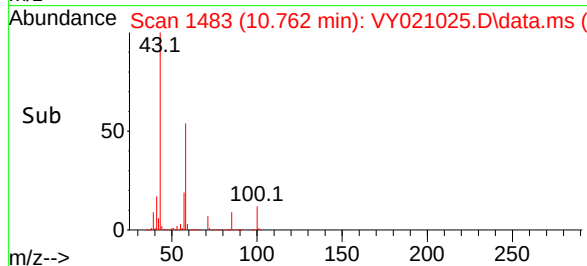
Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC150



Tgt Ion: 43 Resp: 642448
Ion Ratio Lower Upper
43 100
58 54.6 28.1 84.3

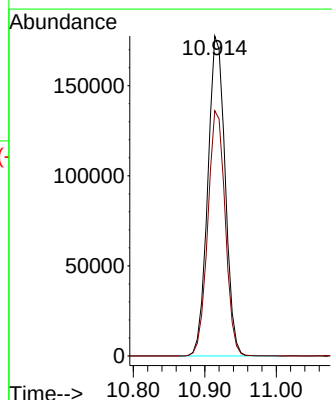
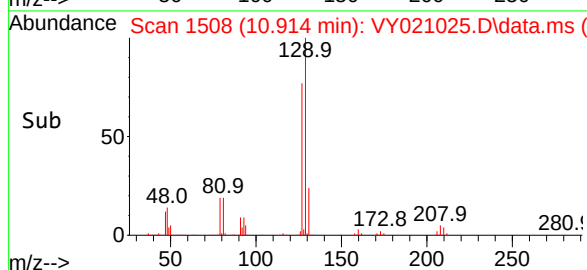
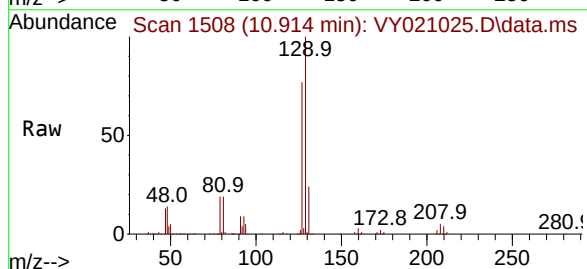
Manual Integrations
APPROVED

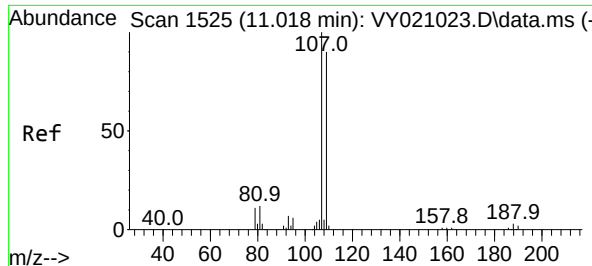
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#60
Dibromochloromethane
Concen: 175.351 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

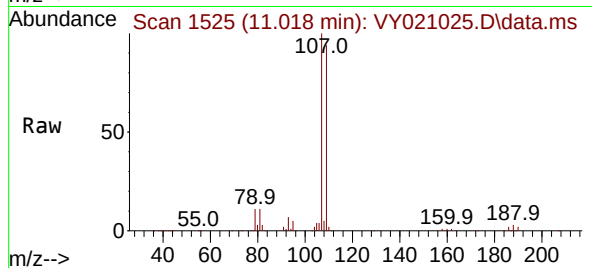
Tgt Ion:129 Resp: 298751
Ion Ratio Lower Upper
129 100
127 76.9 39.2 117.6





#61
1,2-Dibromoethane
Concen: 153.273 ug/l
RT: 11.018 min Scan# 1525
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

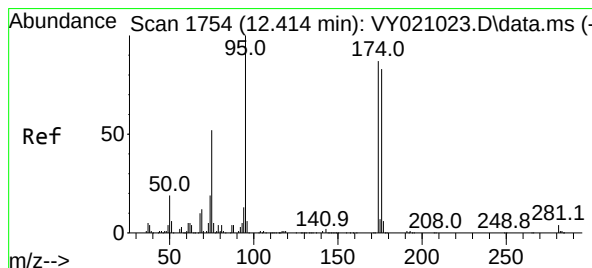
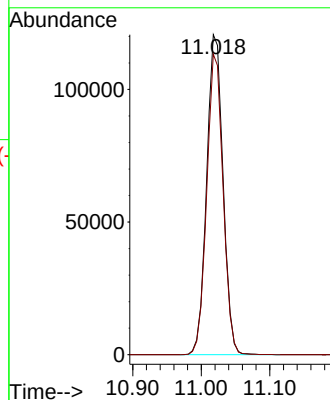
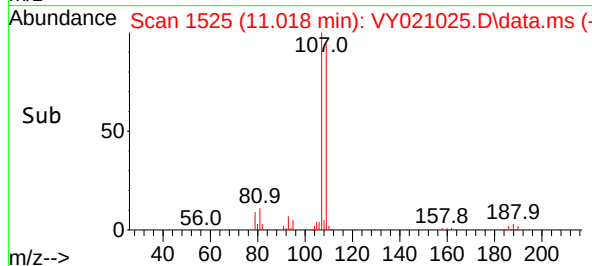
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



Tgt Ion:107 Resp: 200840
Ion Ratio Lower Upper
107 100
109 93.5 75.4 113.2

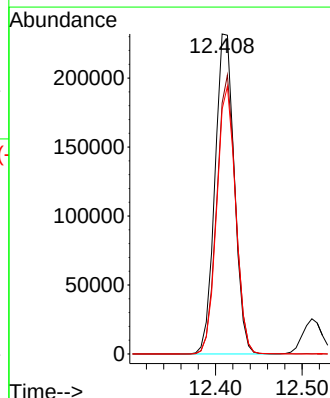
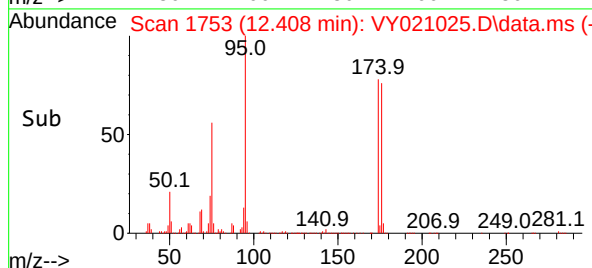
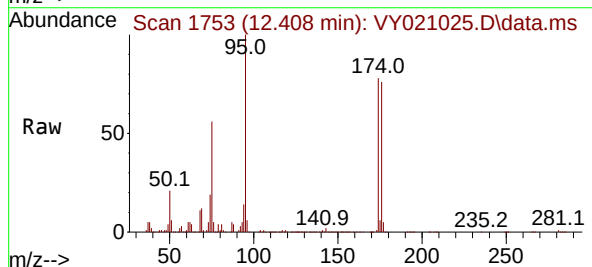
Manual Integrations
APPROVED

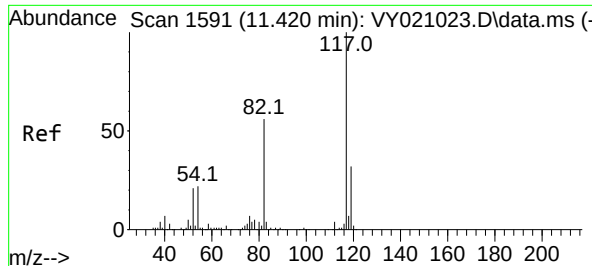
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#62
4-Bromofluorobenzene
Concen: 162.912 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

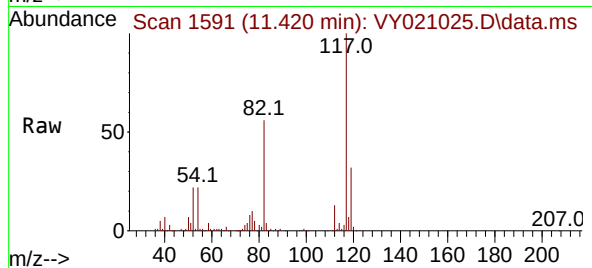
Tgt Ion: 95 Resp: 360358
Ion Ratio Lower Upper
95 100
174 84.2 0.0 160.0
176 81.4 0.0 151.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

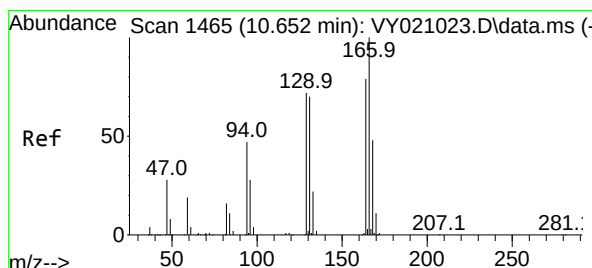
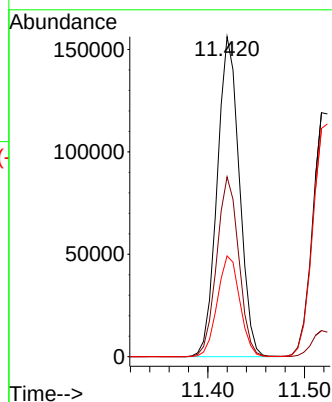
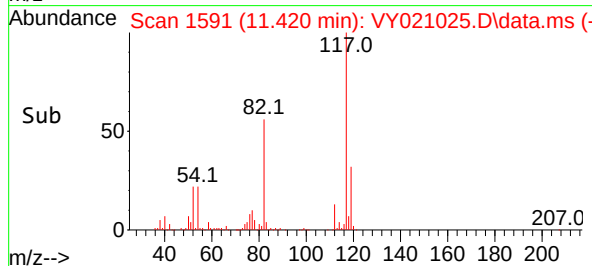
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



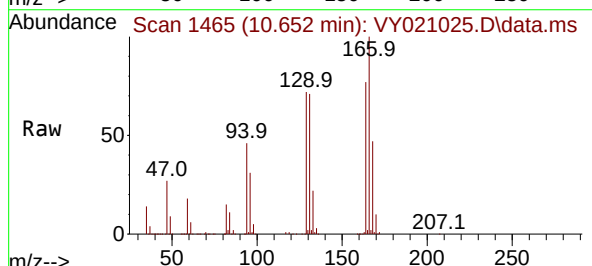
Tgt Ion:117 Resp: 24852
Ion Ratio Lower Upper
117 100
82 56.2 43.8 65.8
119 31.5 26.5 39.7

Manual Integrations
APPROVED

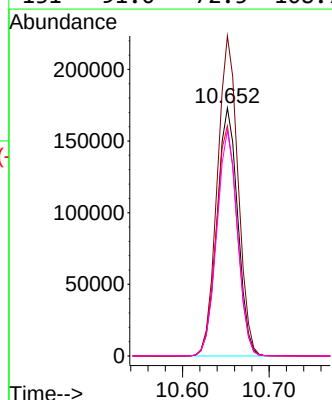
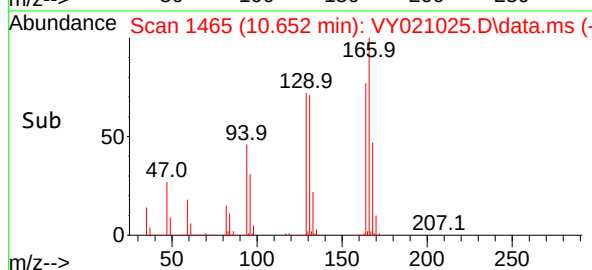
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

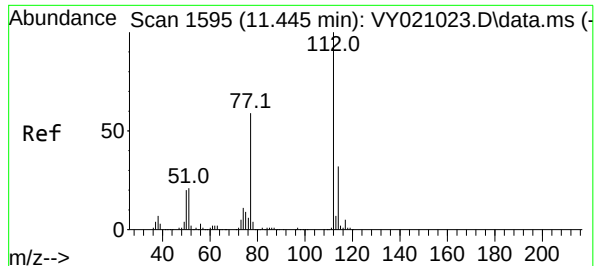


#64
Tetrachloroethene
Concen: 156.856 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44



Tgt Ion:164 Resp: 288752
Ion Ratio Lower Upper
164 100
166 129.1 98.8 148.2
129 92.8 78.9 118.3
131 91.0 72.5 108.7





#65

Chlorobenzene

Concen: 161.190 ug/l

RT: 11.444 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion:112 Resp: 85448

Ion Ratio Lower Upper

112 100

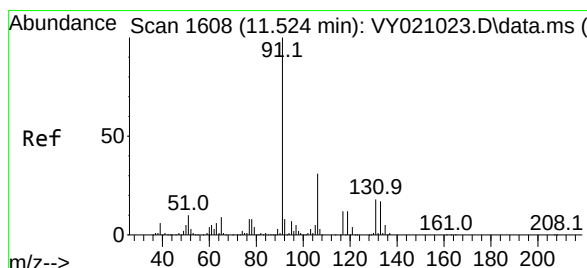
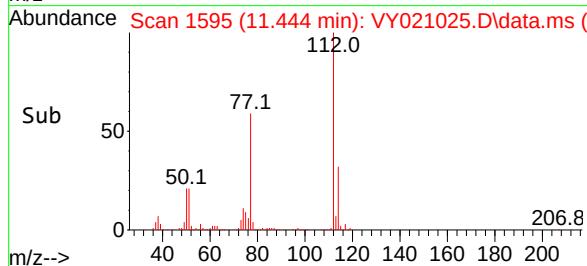
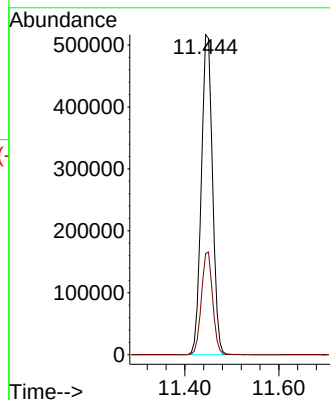
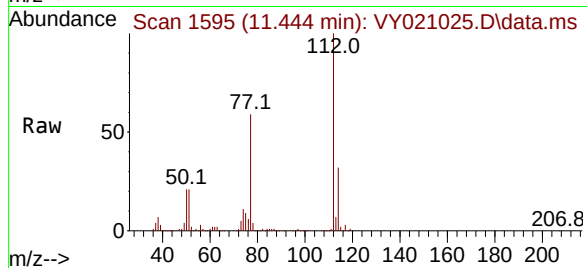
114 31.6 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 159.942 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

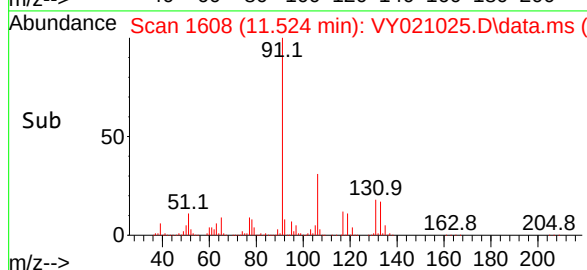
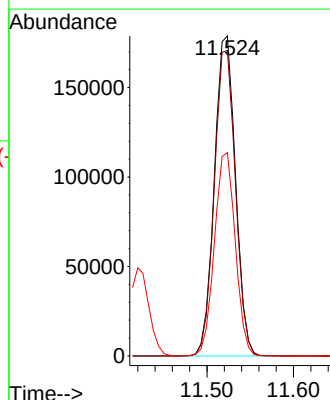
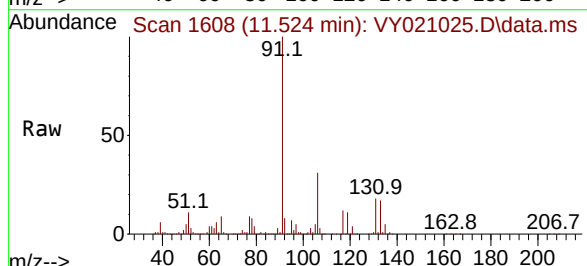
Tgt Ion:131 Resp: 303176

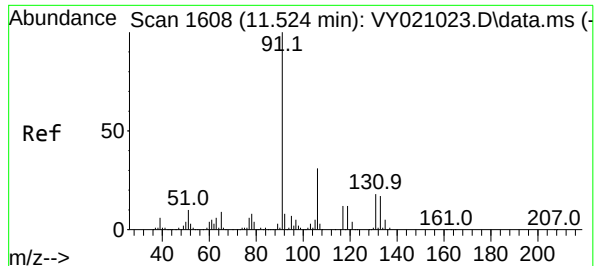
Ion Ratio Lower Upper

131 100

133 95.7 47.0 141.0

119 62.8 33.3 99.9





#67

Ethyl Benzene

Concen: 161.195 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 1560654

Ion Ratio Lower Upper

91 100

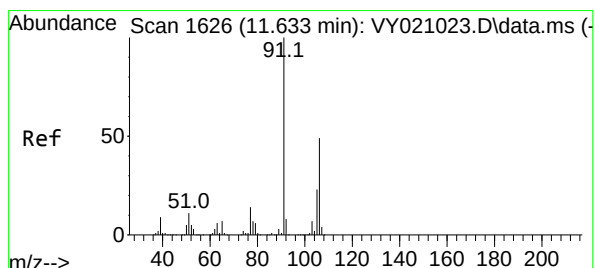
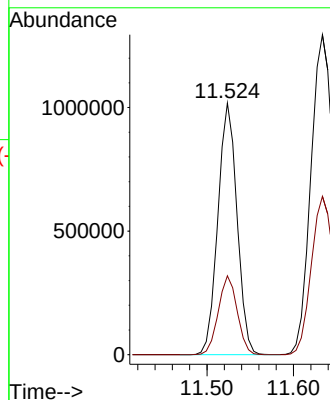
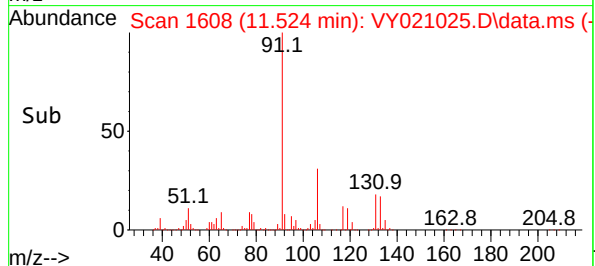
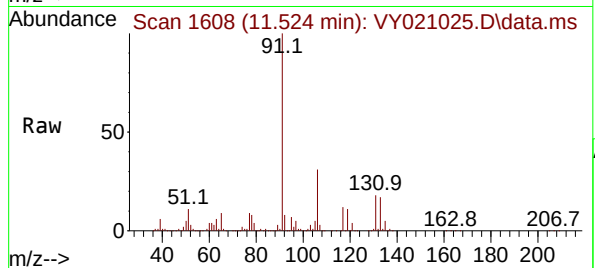
106 31.3 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#68

m/p-Xylenes

Concen: 314.841 ug/l

RT: 11.633 min Scan# 1626

Delta R.T. -0.000 min

Lab File: VY021025.D

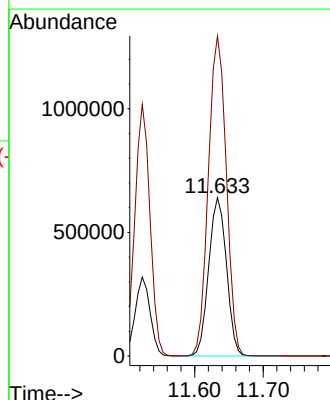
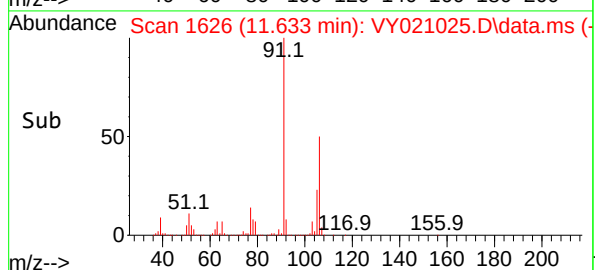
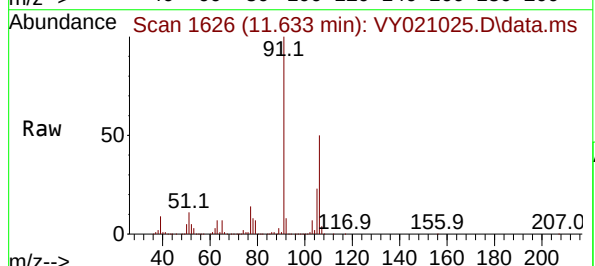
Acq: 03 Feb 2025 12:44

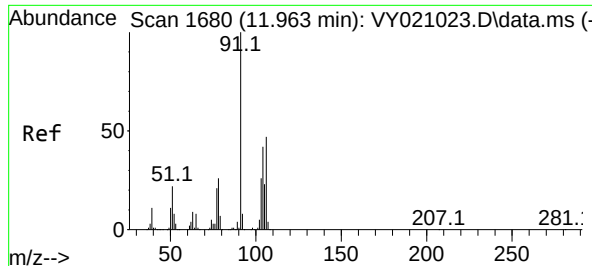
Tgt Ion:106 Resp: 1152452

Ion Ratio Lower Upper

106 100

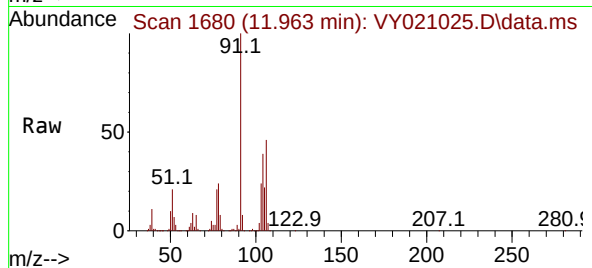
91 204.9 160.7 241.1





#69
o-Xylene
Concen: 163.662 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

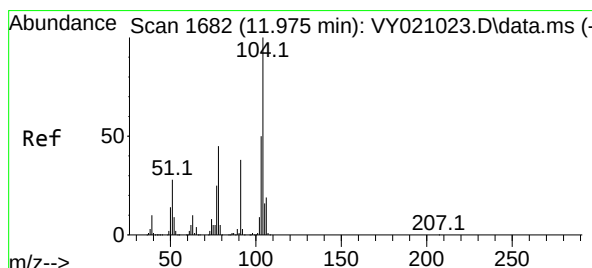
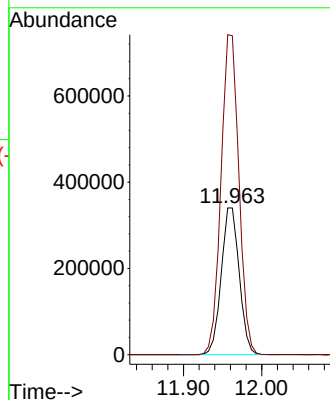
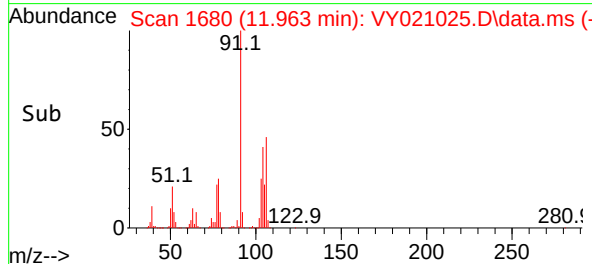
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



Tgt Ion:106 Resp: 543425
Ion Ratio Lower Upper
106 100
91 217.3 106.5 319.5

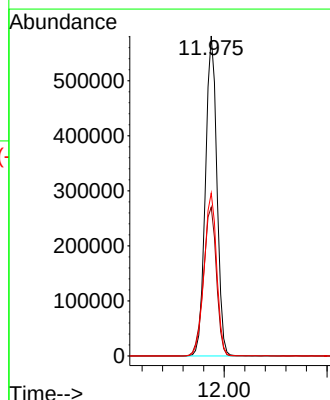
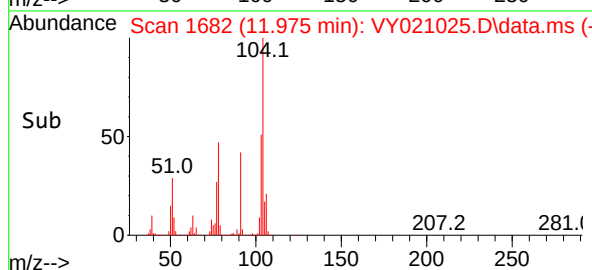
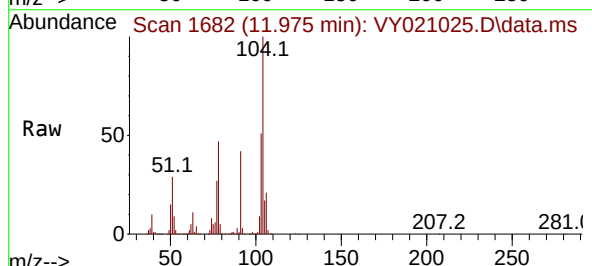
Manual Integrations
APPROVED

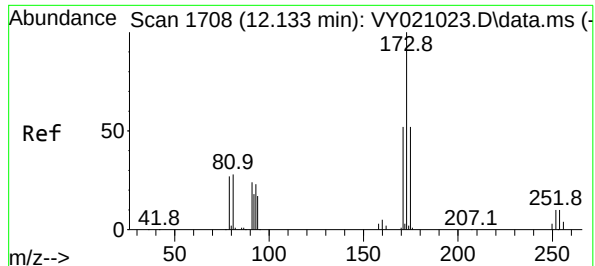
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#70
Styrene
Concen: 172.776 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

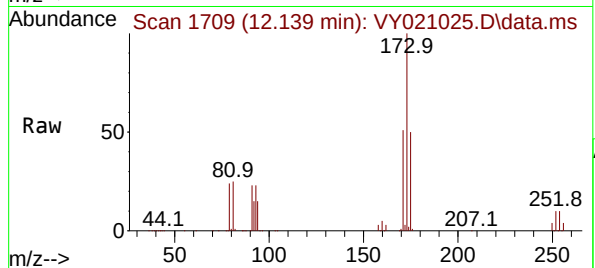
Tgt Ion:104 Resp: 900989
Ion Ratio Lower Upper
104 100
78 52.1 39.2 58.8
103 55.3 43.8 65.6





#71
Bromoform
Concen: 181.883 ug/l
RT: 12.139 min Scan# 1709
Delta R.T. 0.006 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

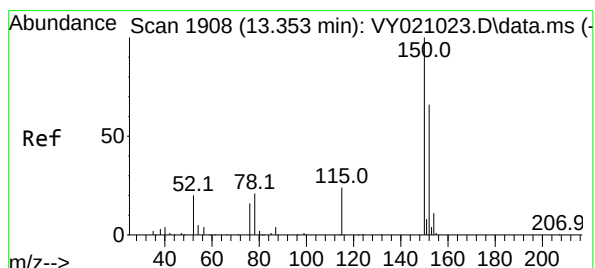
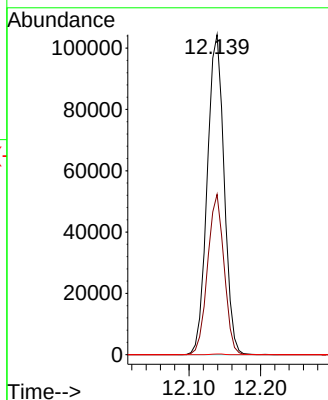
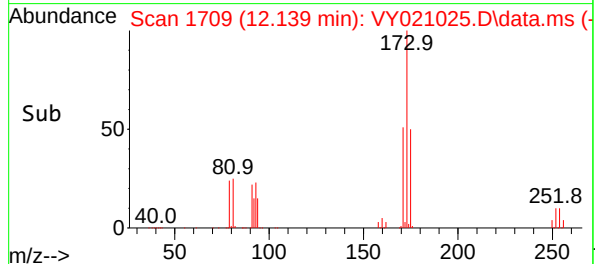
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



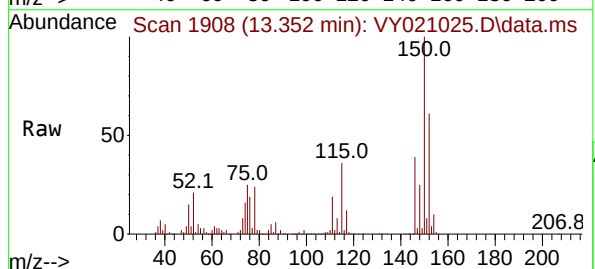
Tgt Ion:173 Resp: 170929
Ion Ratio Lower Upper
173 100
175 48.9 23.5 70.6
254 0.1 0.0 0.0

Manual Integrations
APPROVED

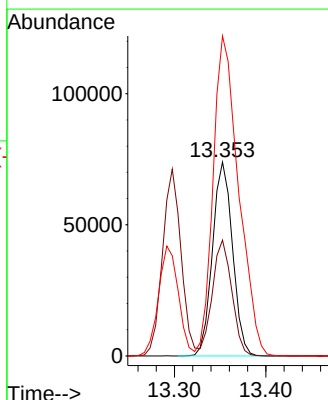
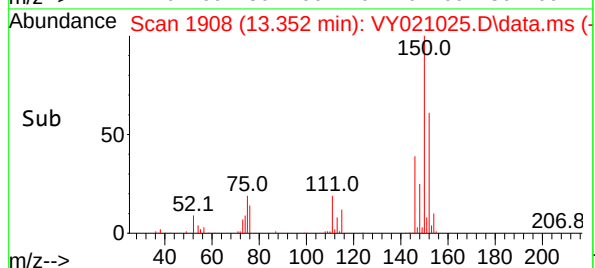
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

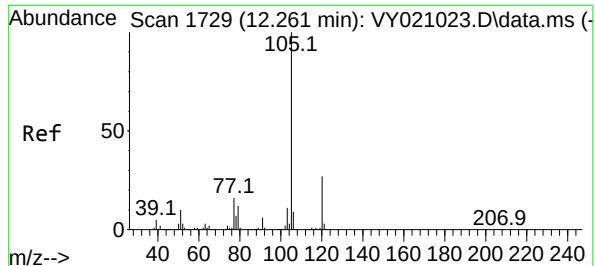


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44



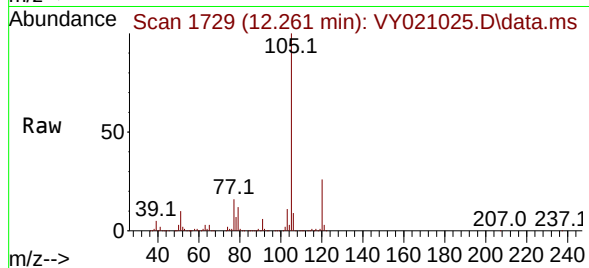
Tgt Ion:152 Resp: 112575
Ion Ratio Lower Upper
152 100
115 57.8 30.0 90.0
150 210.4 0.0 344.6





#73
Isopropylbenzene
Concen: 154.780 ug/l
RT: 12.261 min Scan# 1729
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

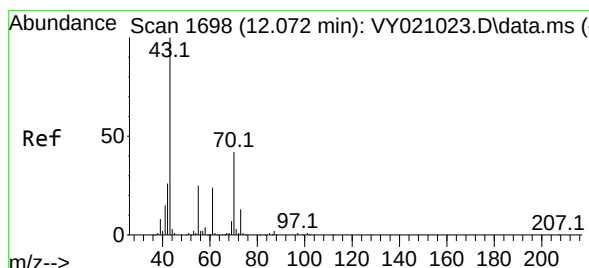
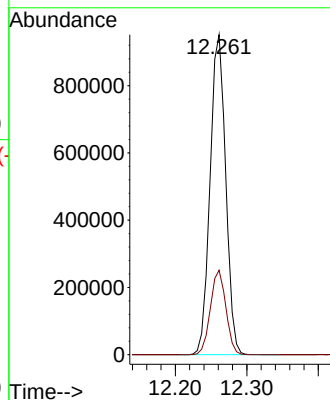
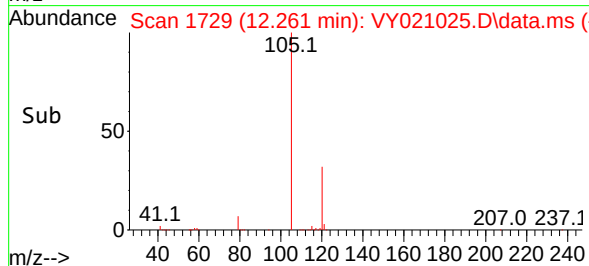
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



Tgt Ion:105 Resp: 143964
Ion Ratio Lower Upper
105 100
120 26.2 13.0 39.0

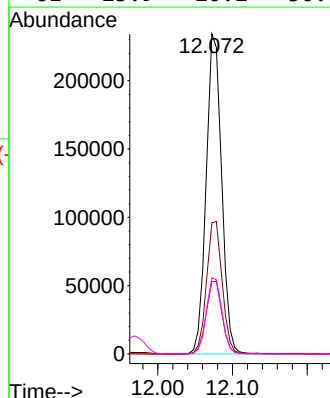
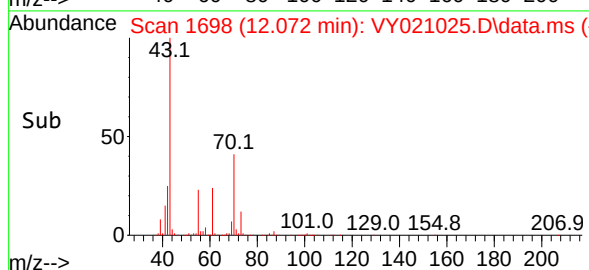
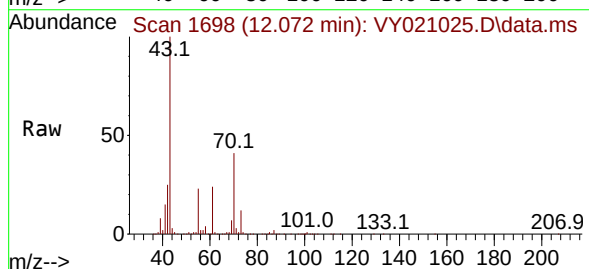
Manual Integrations
APPROVED

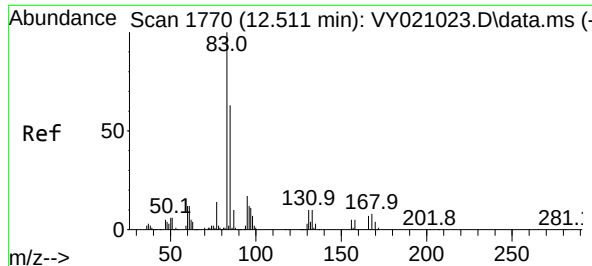
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#74
N-ethyl acetate
Concen: 180.383 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Tgt Ion: 43 Resp: 337562
Ion Ratio Lower Upper
43 100
70 41.9 36.6 55.0
55 23.4 22.2 33.4
61 23.9 20.2 30.4





#75

1,1,2,2-Tetrachloroethane

Concen: 139.062 ug/l

RT: 12.511 min Scan# 1770

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 229579

Ion Ratio Lower Upper

83 100

131 10.7 4.9 14.6

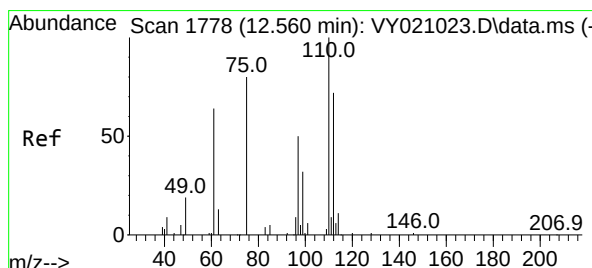
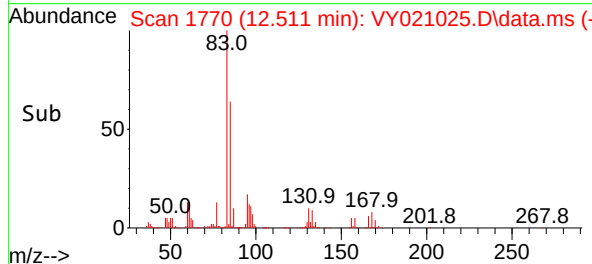
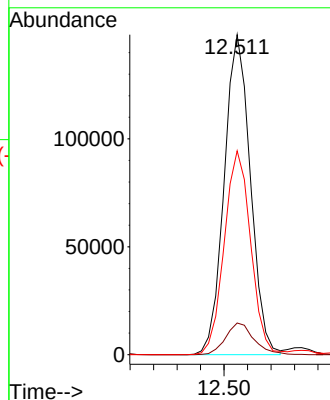
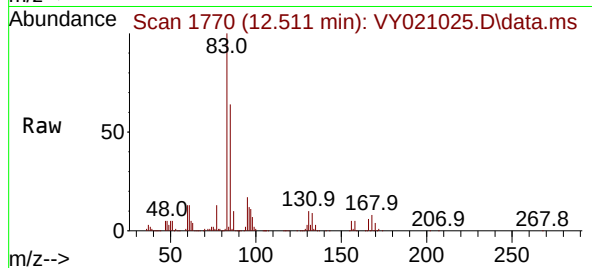
85 64.5 32.6 98.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#76

1,2,3-Trichloropropane

Concen: 149.965 ug/l m

RT: 12.560 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VY021025.D

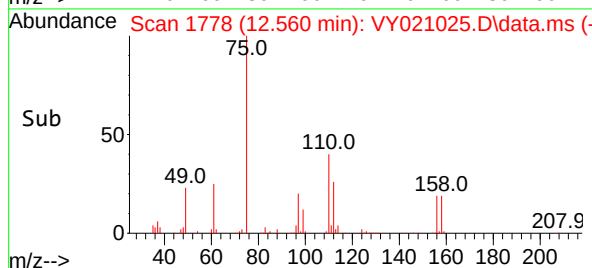
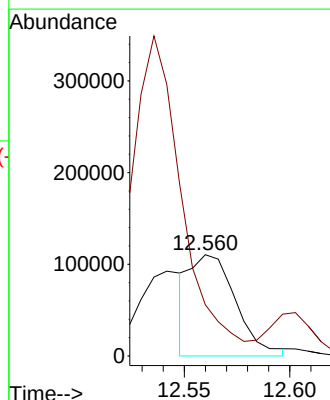
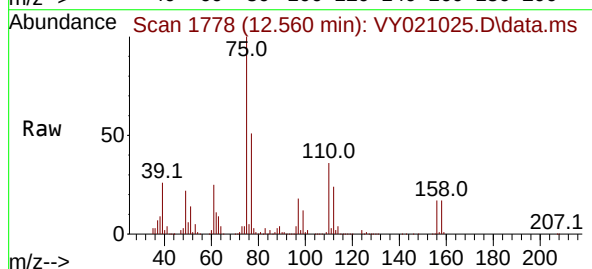
Acq: 03 Feb 2025 12:44

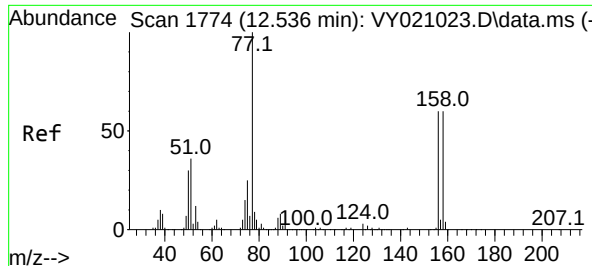
Tgt Ion: 75 Resp: 166289

Ion Ratio Lower Upper

75 100

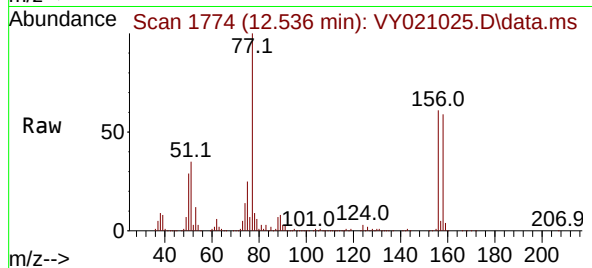
77 0.0 0.0 0.0





#77
Bromobenzene
Concen: 166.838 ug/l
RT: 12.536 min Scan# 1774
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

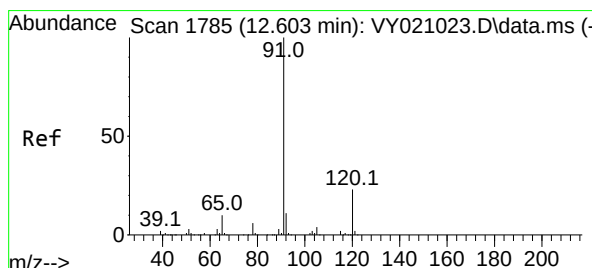
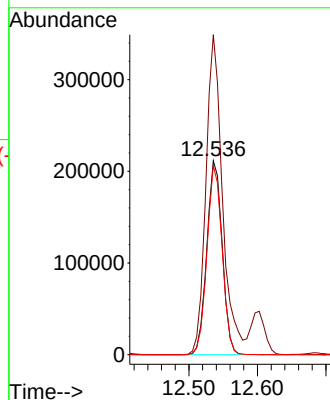
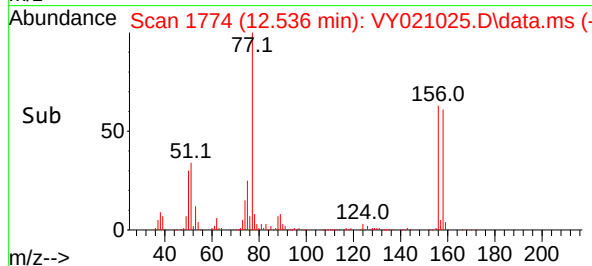
Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC150



Tgt Ion:156 Resp: 330230
Ion Ratio Lower Upper
156 100
77 177.0 97.3 291.8
158 96.2 48.4 145.0

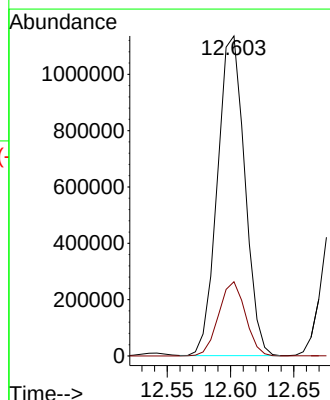
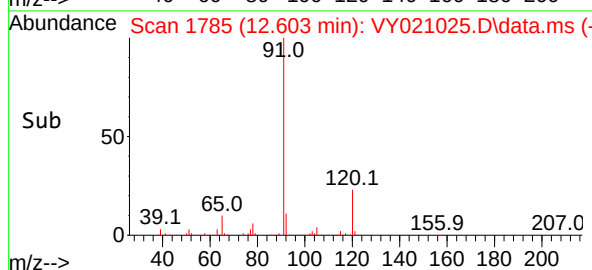
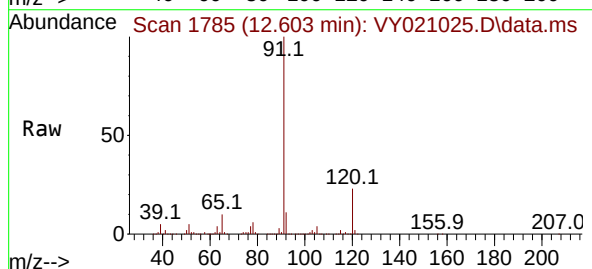
Manual Integrations
APPROVED

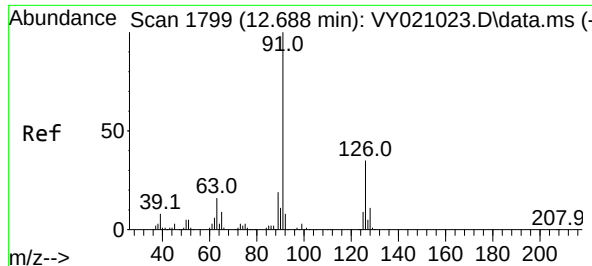
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#78
n-propylbenzene
Concen: 149.261 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Tgt Ion: 91 Resp: 1706799
Ion Ratio Lower Upper
91 100
120 22.7 11.0 33.0





#79

2-Chlorotoluene

Concen: 153.047 ug/l

RT: 12.688 min Scan# 1799

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 961670

Ion Ratio Lower Upper

91 100

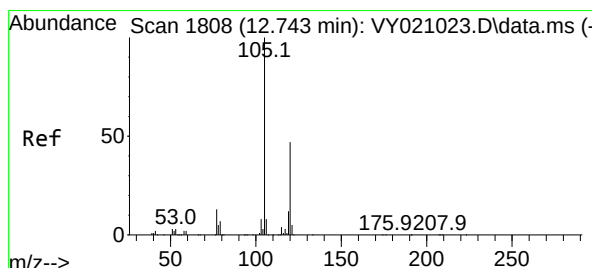
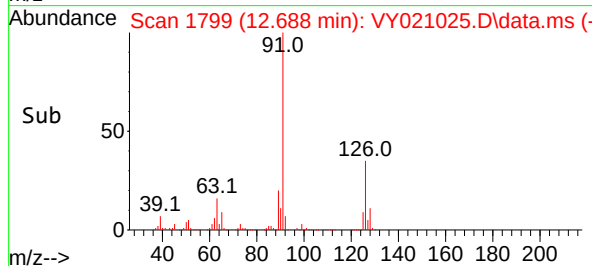
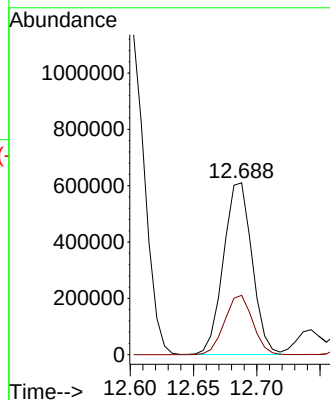
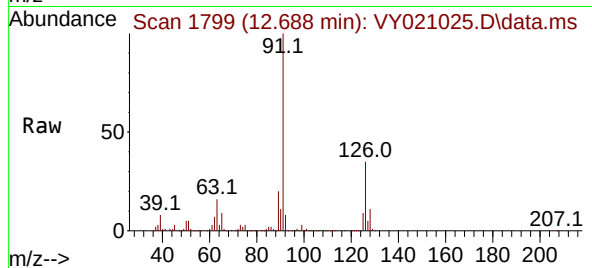
126 34.0 17.0 51.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#80

1,3,5-Trimethylbenzene

Concen: 156.334 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. -0.000 min

Lab File: VY021025.D

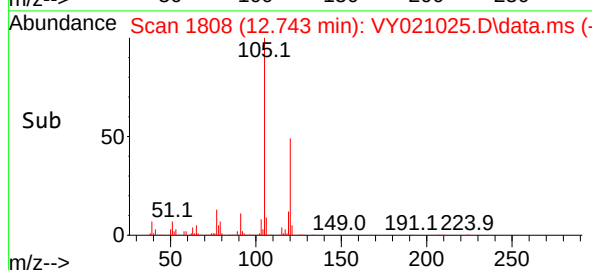
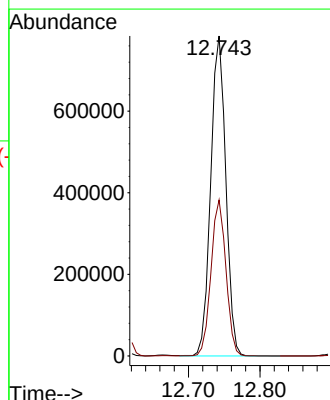
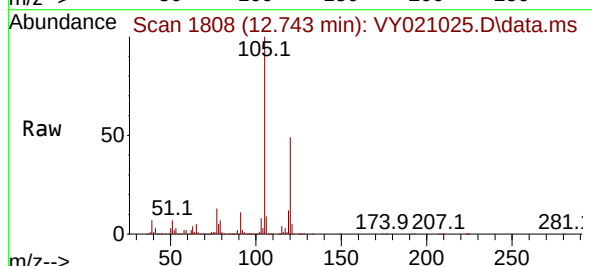
Acq: 03 Feb 2025 12:44

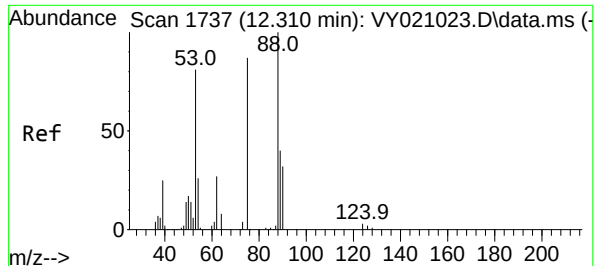
Tgt Ion:105 Resp: 1146647

Ion Ratio Lower Upper

105 100

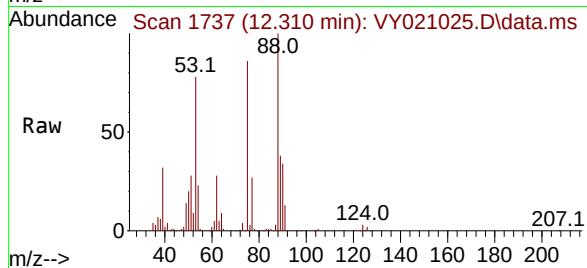
120 48.3 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 165.703 ug/l
RT: 12.310 min Scan# 1737
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

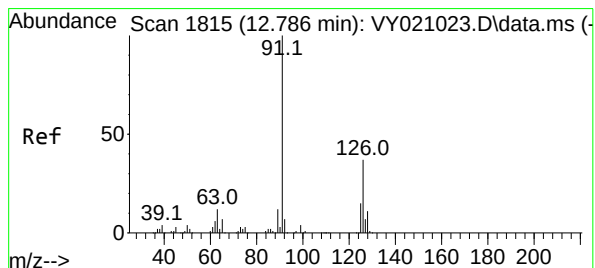
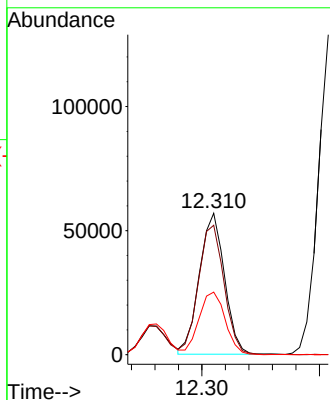
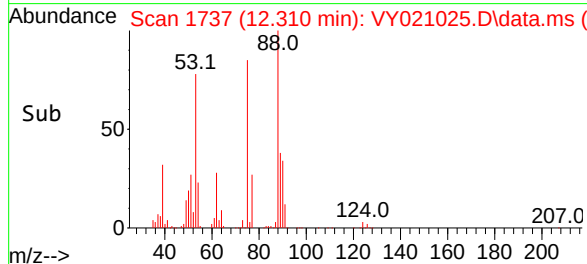
Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150



Tgt Ion: 75 Resp: 84500
Ion Ratio Lower Upper
75 100
53 94.3 74.0 111.0
89 46.7 36.5 54.7

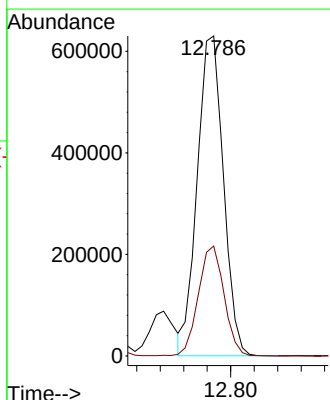
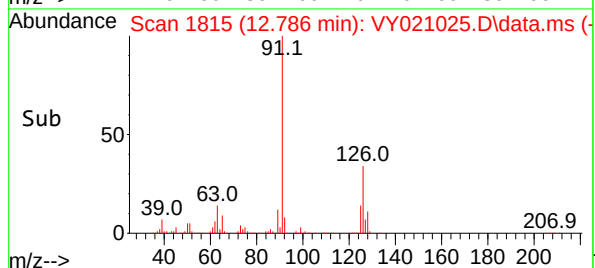
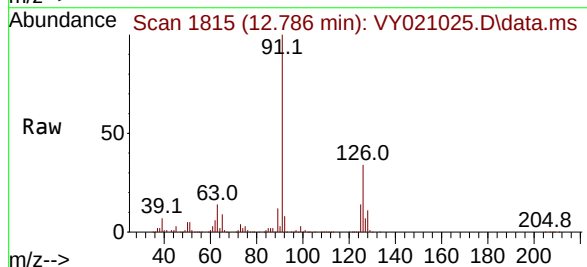
Manual Integrations
APPROVED

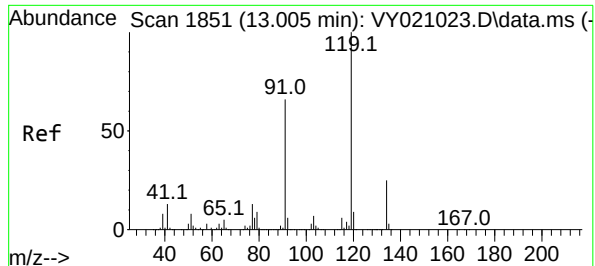
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#82
4-Chlorotoluene
Concen: 151.120 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Tgt Ion: 91 Resp: 973177
Ion Ratio Lower Upper
91 100
126 33.8 17.1 51.2





#83

tert-Butylbenzene

Concen: 164.670 ug/l

RT: 13.005 min Scan# 1851

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion:119 Resp: 106714

Ion Ratio Lower Upper

119 100

91 65.0 31.5 94.5

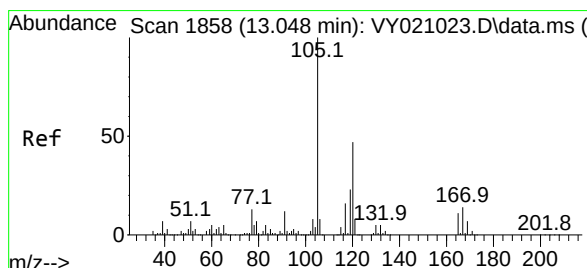
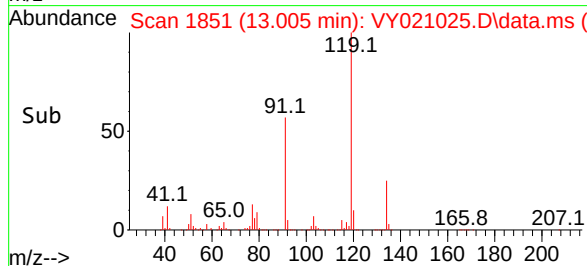
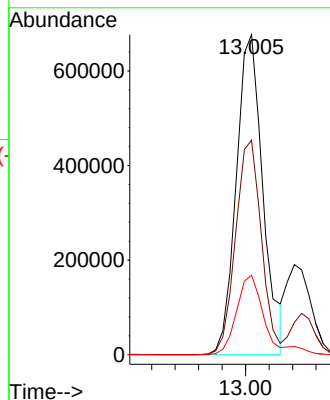
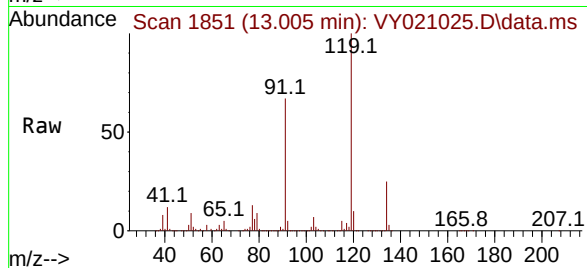
134 26.0 13.1 39.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#84

1,2,4-Trimethylbenzene

Concen: 157.248 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. -0.000 min

Lab File: VY021025.D

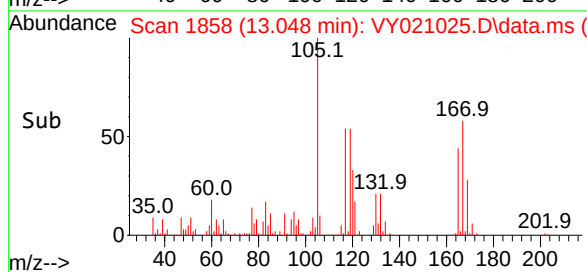
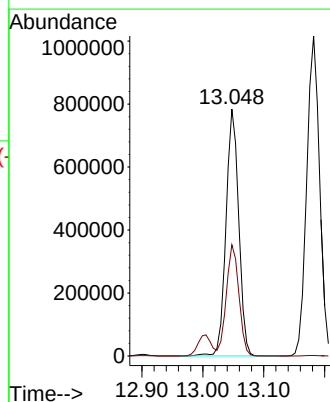
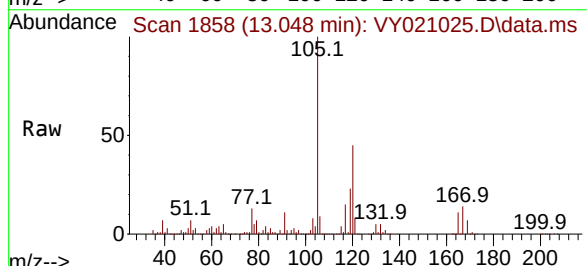
Acq: 03 Feb 2025 12:44

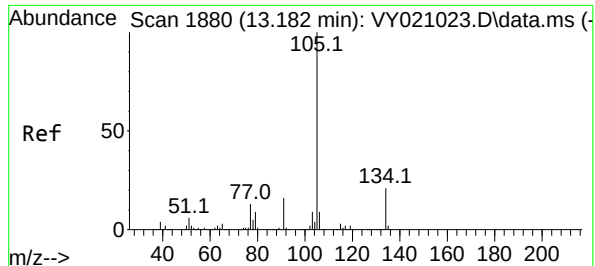
Tgt Ion:105 Resp: 1138490

Ion Ratio Lower Upper

105 100

120 44.3 22.1 66.3





#85

sec-Butylbenzene

Concen: 152.184 ug/l

RT: 13.182 min Scan# 1880

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion:105 Resp: 149023

Ion Ratio Lower Upper

105 100

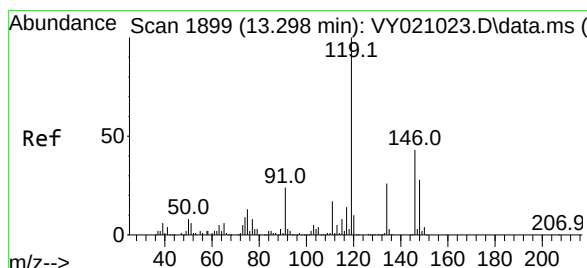
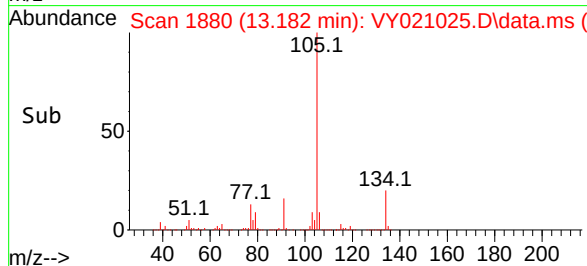
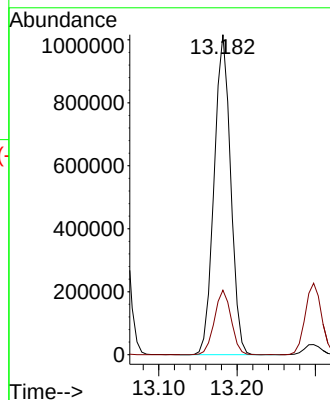
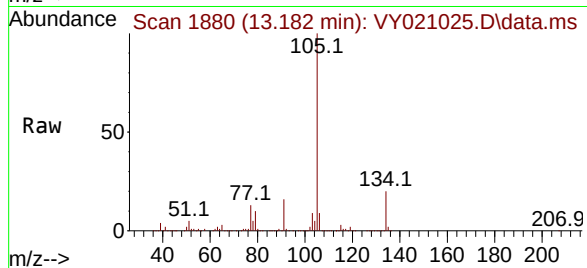
134 20.4 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#86

p-Isopropyltoluene

Concen: 159.829 ug/l

RT: 13.298 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

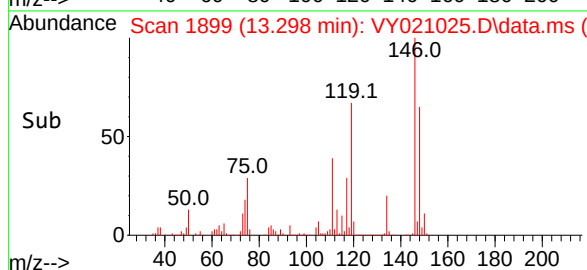
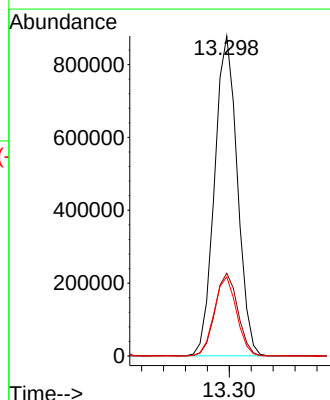
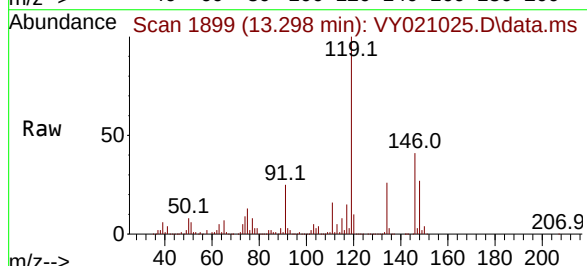
Tgt Ion:119 Resp: 1267584

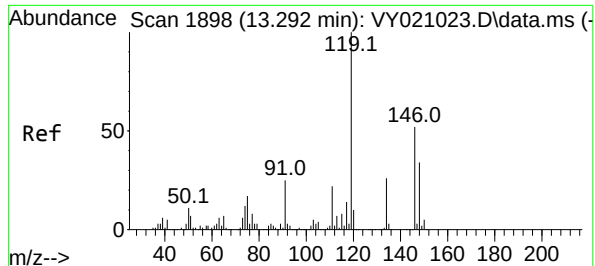
Ion Ratio Lower Upper

119 100

134 26.0 13.1 39.1

91 24.4 11.7 35.0





#87

1,3-Dichlorobenzene

Concen: 153.896 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

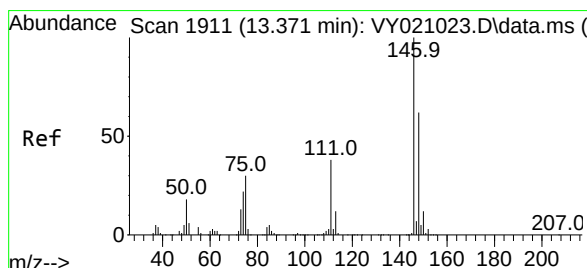
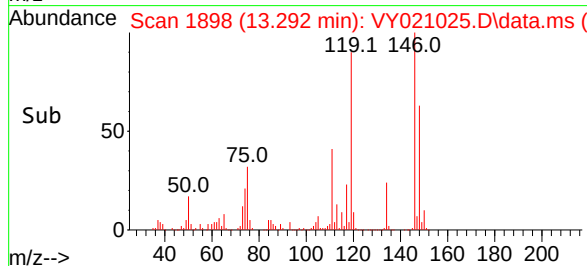
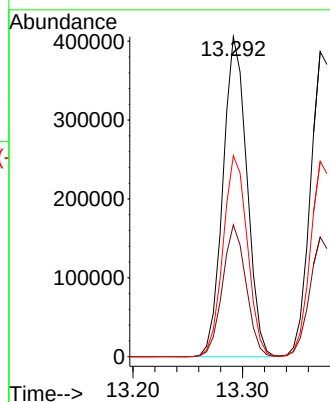
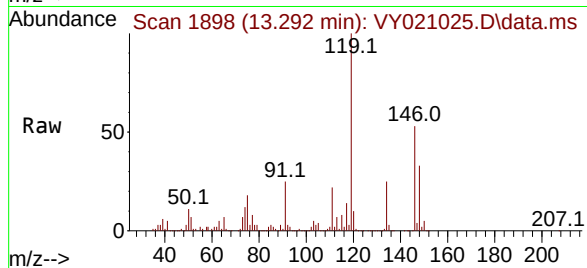
ClientSampleId :

VSTDIC150

Tgt Ion:	146	Resp:	61594
Ion Ratio	Lower	Upper	
146	100		
111	40.4	20.2	60.5
148	63.7	31.9	95.9

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 153.567 ug/l

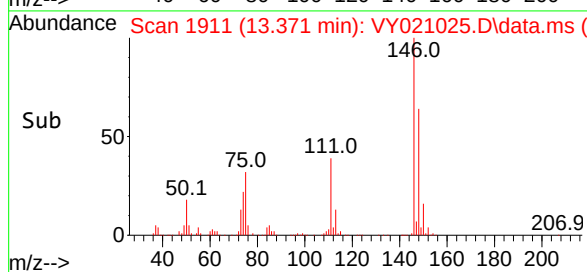
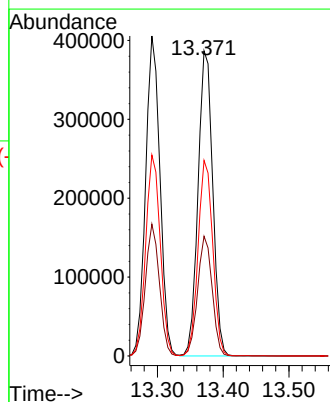
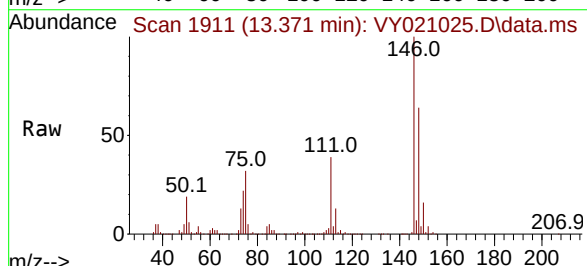
RT: 13.371 min Scan# 1911

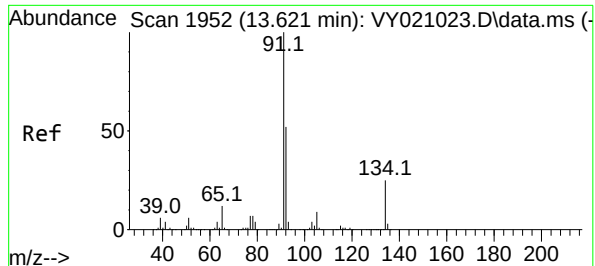
Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Tgt Ion:	146	Resp:	600370
Ion Ratio	Lower	Upper	
146	100		
111	38.7	19.3	57.9
148	63.8	31.6	94.7





#89

n-Butylbenzene

Concen: 153.276 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 1172760

Ion Ratio Lower Upper

91 100

92 53.2 26.4 79.2

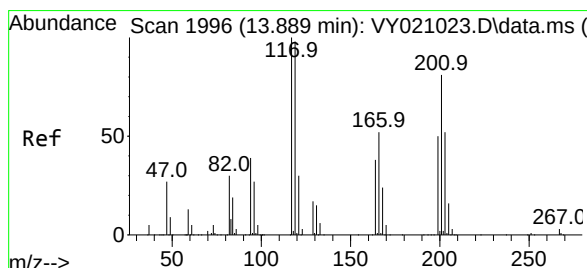
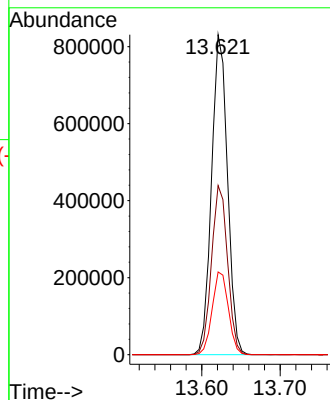
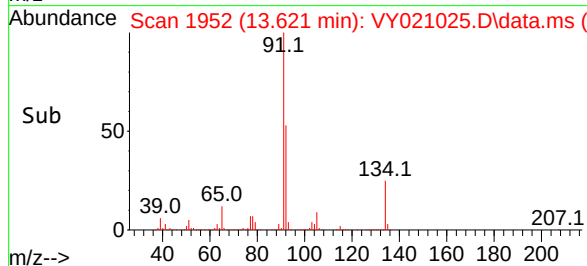
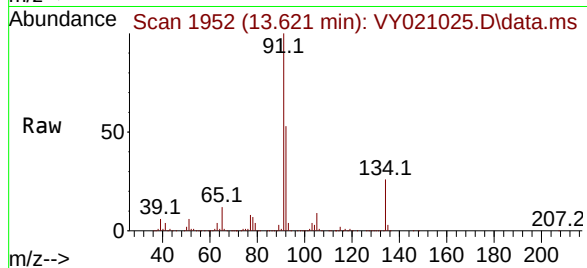
134 26.3 12.3 36.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#90

Hexachloroethane

Concen: 160.566 ug/l

RT: 13.883 min Scan# 1995

Delta R.T. -0.006 min

Lab File: VY021025.D

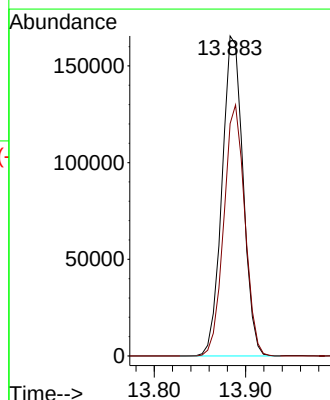
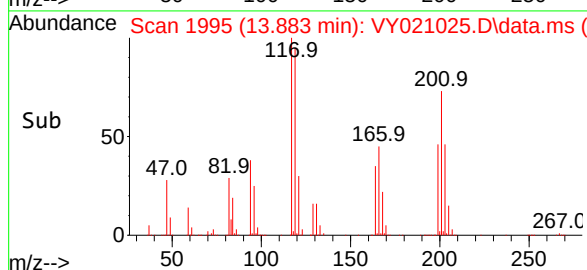
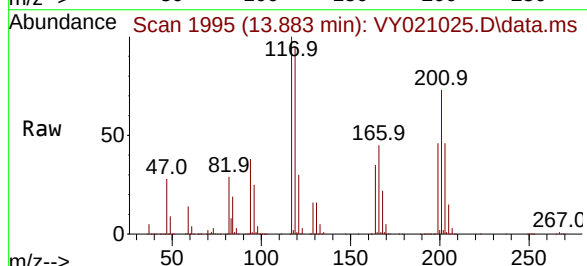
Acq: 03 Feb 2025 12:44

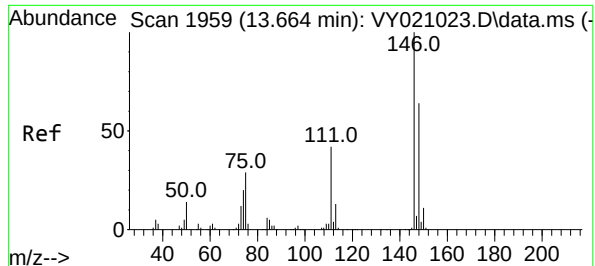
Tgt Ion:117 Resp: 264877

Ion Ratio Lower Upper

117 100

201 78.2 33.4 100.1





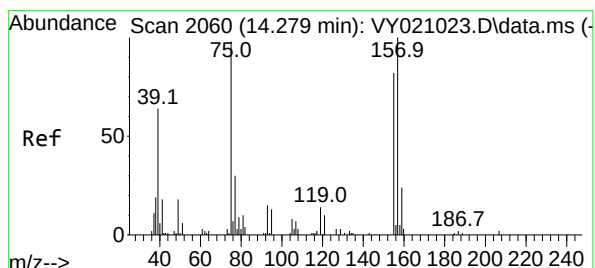
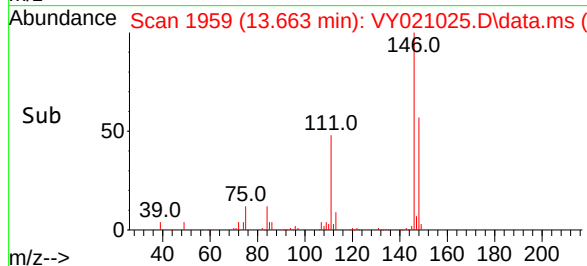
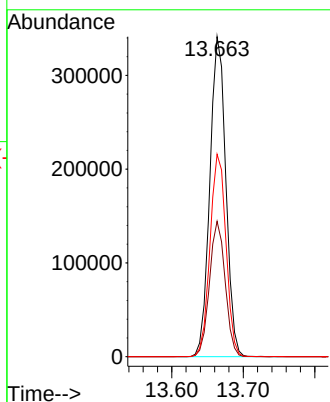
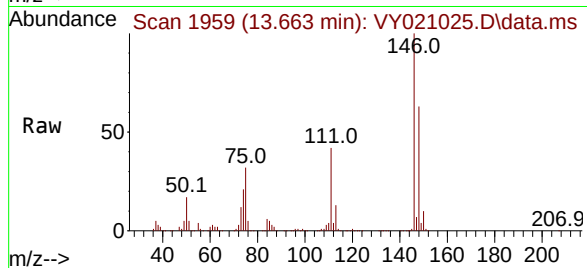
#91
1,2-Dichlorobenzene
Concen: 159.648 ug/l
RT: 13.663 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC150

Tgt Ion:146 Resp: 52914
Ion Ratio Lower Upper
146 100
111 41.6 20.5 61.6
148 63.4 31.4 94.3

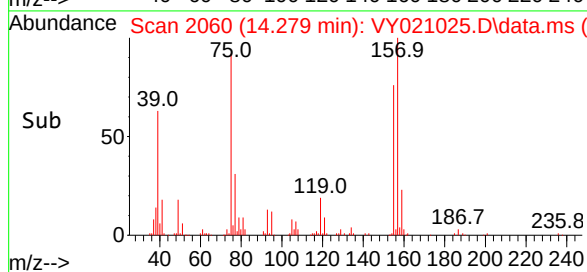
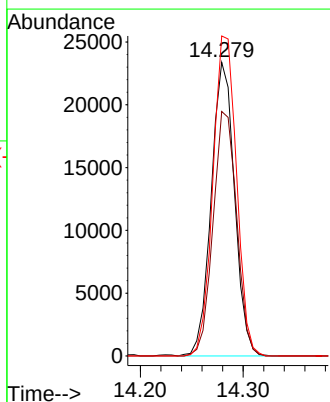
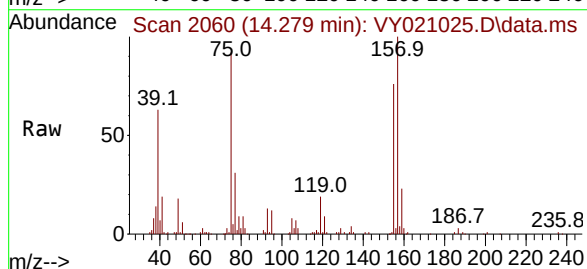
Manual Integrations
APPROVED

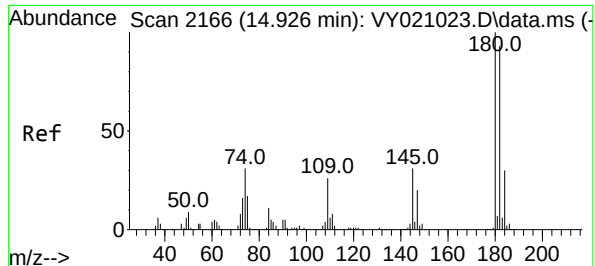
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 173.904 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. -0.000 min
Lab File: VY021025.D
Acq: 03 Feb 2025 12:44

Tgt Ion: 75 Resp: 36737
Ion Ratio Lower Upper
75 100
155 84.1 42.1 126.3
157 110.5 55.8 167.4





#93

1,2,4-Trichlorobenzene

Concen: 199.568 ug/l

RT: 14.925 min Scan# 2166

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 33895

Ion Ratio Lower Upper

180 100

182 94.1 47.9 143.7

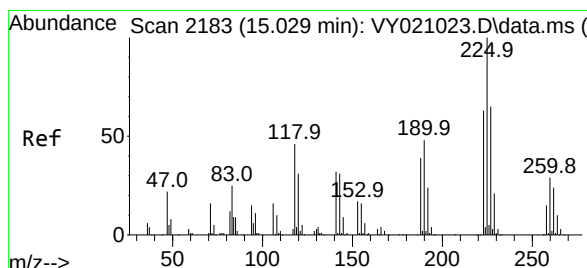
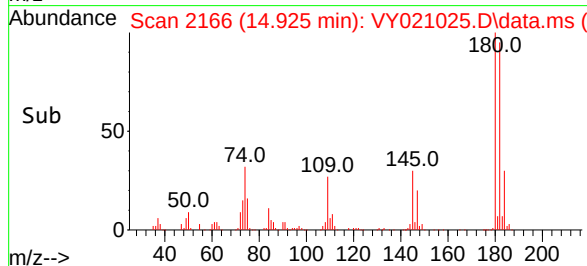
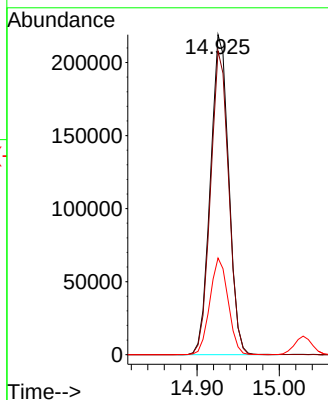
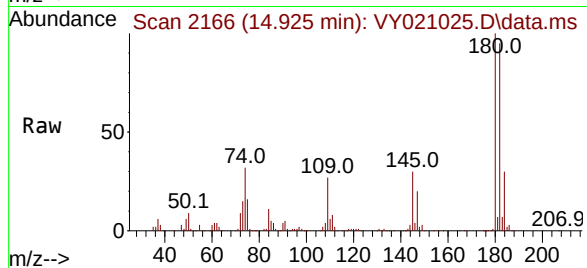
145 30.1 15.9 47.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#94

Hexachlorobutadiene

Concen: 192.252 ug/l

RT: 15.029 min Scan# 2183

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

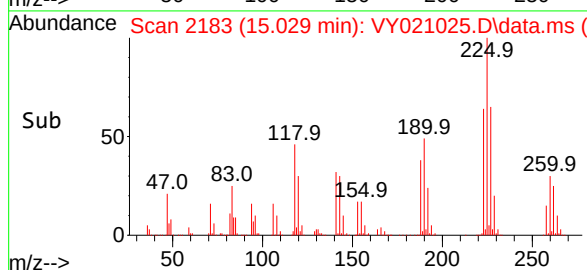
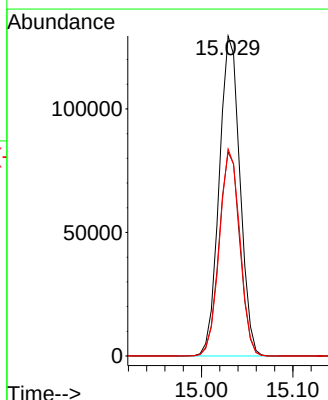
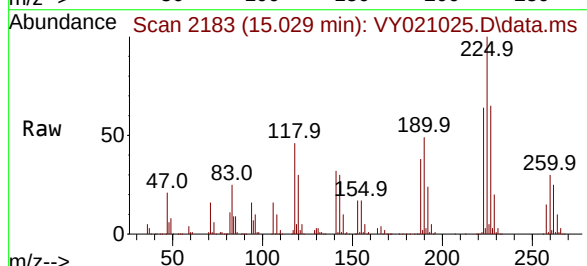
Tgt Ion:225 Resp: 204211

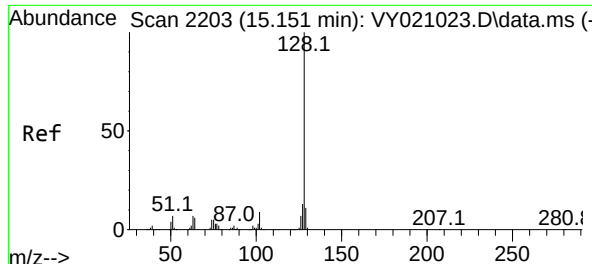
Ion Ratio Lower Upper

225 100

223 63.7 31.4 94.3

227 64.1 32.3 96.8





#95

Naphthalene

Concen: 199.946 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Instrument :

MSVOA_Y

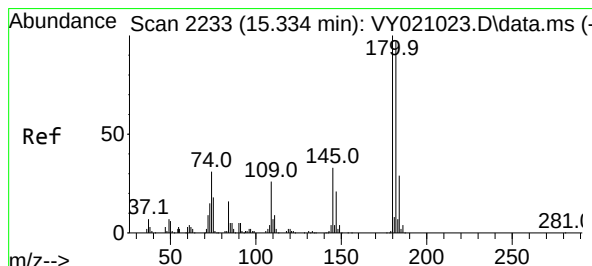
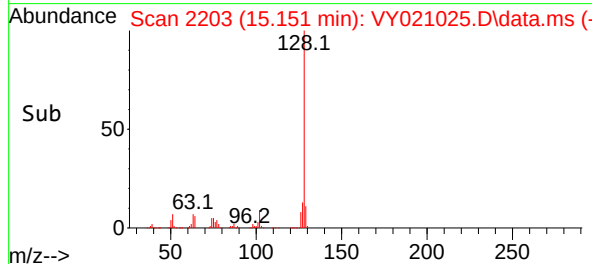
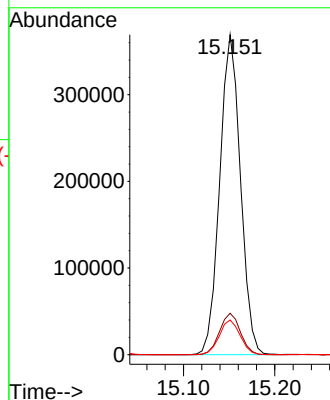
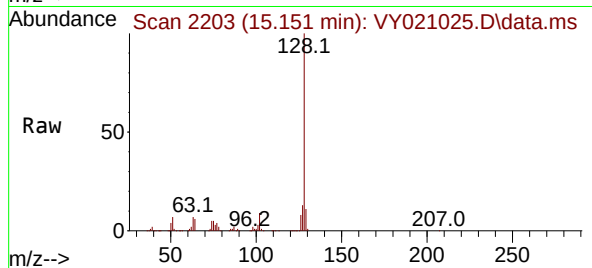
ClientSampleId :

VSTDIC150

Tgt Ion:	128	Resp:	581994
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.4
129	10.9	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#96

1,2,3-Trichlorobenzene

Concen: 197.311 ug/l

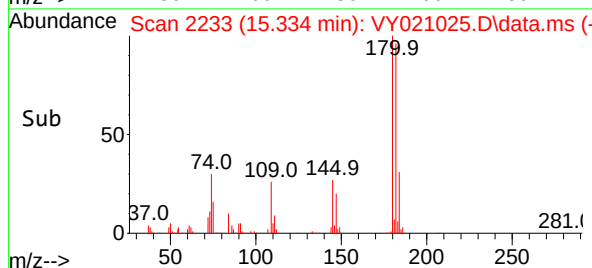
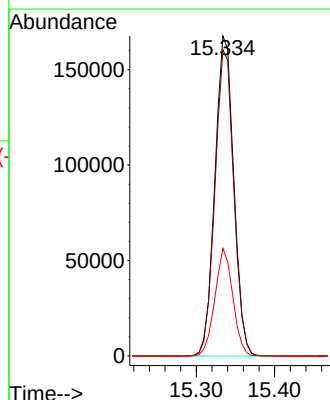
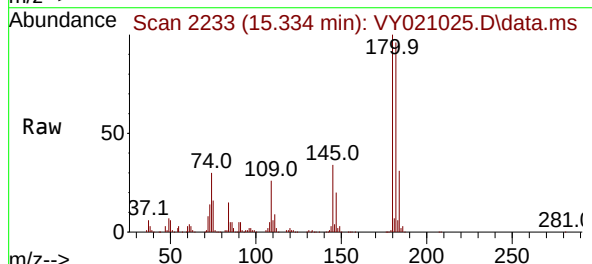
RT: 15.334 min Scan# 2233

Delta R.T. -0.000 min

Lab File: VY021025.D

Acq: 03 Feb 2025 12:44

Tgt Ion:	180	Resp:	280907
Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.3	138.8
145	31.9	16.1	48.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021027.D
 Acq On : 03 Feb 2025 13:37
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY020325

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 04 00:48:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	186133	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	280950	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	237569	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	112062	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	104134	54.604	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 109.200%	
35) Dibromofluoromethane	7.640	113	104051	57.790	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 115.580%	
50) Toluene-d8	10.109	98	411045	59.966	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 119.940%	
62) 4-Bromofluorobenzene	12.407	95	131943	58.919	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 117.840%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	86748	52.290	ug/l	98
3) Chloromethane	2.074	50	85135	52.006	ug/l	100
4) Vinyl Chloride	2.208	62	84130	51.058	ug/l	99
5) Bromomethane	2.598	94	53592	52.624	ug/l	94
6) Chloroethane	2.738	64	48969	49.925	ug/l	96
7) Trichlorofluoromethane	3.068	101	155690	51.864	ug/l	99
8) Diethyl Ether	3.458	74	43771	46.708	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	97040	51.507	ug/l	95
10) Methyl Iodide	4.013	142	102264	48.858	ug/l	95
11) Tert butyl alcohol	4.860	59	27677	214.161	ug/l	96
12) 1,1-Dichloroethene	3.793	96	91949	51.810	ug/l	92
13) Acrolein	3.653	56	46827	235.305	ug/l	100
14) Allyl chloride	4.391	41	151536	50.663	ug/l	96
15) Acrylonitrile	5.061	53	89881	230.328	ug/l	99
16) Acetone	3.866	43	72566	243.997	ug/l	96
17) Carbon Disulfide	4.110	76	289409	52.004	ug/l	99
18) Methyl Acetate	4.391	43	48057	46.031	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	213244	47.538	ug/l	100
20) Methylene Chloride	4.628	84	91358	49.414	ug/l	96
21) trans-1,2-Dichloroethene	5.122	96	98665	50.506	ug/l	94
22) Diisopropyl ether	6.024	45	304603	49.407	ug/l	98
23) Vinyl Acetate	5.964	43	819243	238.370	ug/l	100
24) 1,1-Dichloroethane	5.921	63	179904	49.806	ug/l	97
25) 2-Butanone	6.896	43	114117	233.503	ug/l	96
26) 2,2-Dichloropropane	6.890	77	169757	50.791	ug/l	97
27) cis-1,2-Dichloroethene	6.896	96	111947	49.785	ug/l	94
28) Bromochloromethane	7.250	49	78173	54.731	ug/l	99
29) Tetrahydrofuran	7.262	42	75445	228.139	ug/l	96
30) Chloroform	7.427	83	181229	48.846	ug/l	97
31) Cyclohexane	7.707	56	162806	50.051	ug/l	97
32) 1,1,1-Trichloroethane	7.622	97	174612	50.620	ug/l	99
36) 1,1-Dichloropropene	7.841	75	140344	52.625	ug/l	99
37) Ethyl Acetate	6.988	43	54994	47.006	ug/l	100
38) Carbon Tetrachloride	7.823	117	161137	51.711	ug/l	100
39) Methylcyclohexane	9.115	83	176554	54.123	ug/l	97
40) Benzene	8.085	78	399547	51.052	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021027.D
 Acq On : 03 Feb 2025 13:37
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY020325

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 04 00:48:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	29193	43.131	ug/l	98
42) 1,2-Dichloroethane	8.164	62	104015	47.910	ug/l	97
43) Isopropyl Acetate	8.201	43	110476	47.523	ug/l	98
44) Trichloroethene	8.872	130	102671	50.777	ug/l	95
45) 1,2-Dichloropropane	9.146	63	92259	49.666	ug/l	99
46) Dibromomethane	9.237	93	48251	46.914	ug/l	95
47) Bromodichloromethane	9.426	83	134607	48.799	ug/l	99
48) Methyl methacrylate	9.225	41	52480	49.560	ug/l	93
49) 1,4-Dioxane	9.231	88	9588	1001.398	ug/l	99
51) 4-Methyl-2-Pentanone	9.999	43	276605	236.615	ug/l	97
52) Toluene	10.176	92	251287	51.135	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	123718	49.950	ug/l	100
54) cis-1,3-Dichloropropene	9.859	75	148244	50.550	ug/l	96
55) 1,1,2-Trichloroethane	10.579	97	62357	46.820	ug/l	99
56) Ethyl methacrylate	10.444	69	87450	49.082	ug/l	93
57) 1,3-Dichloropropane	10.719	76	110606	47.980	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	213481	251.852	ug/l	99
59) 2-Hexanone	10.761	43	180455	239.750	ug/l	96
60) Dibromochloromethane	10.914	129	90009	48.123	ug/l	100
61) 1,2-Dibromoethane	11.017	107	59039	47.325	ug/l	100
64) Tetrachloroethene	10.652	164	92493	52.446	ug/l	95
65) Chlorobenzene	11.444	112	268544	50.766	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.523	131	94662	50.356	ug/l	98
67) Ethyl Benzene	11.523	91	492537	52.642	ug/l	99
68) m/p-Xylenes	11.633	106	367445	104.978	ug/l	98
69) o-Xylene	11.956	106	169897	52.062	ug/l	96
70) Styrene	11.975	104	282879	52.009	ug/l	99
71) Bromoform	12.133	173	50400	48.166	ug/l #	99
73) Isopropylbenzene	12.255	105	467245	53.377	ug/l	99
74) N-amyl acetate	12.072	43	94701	49.483	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.511	83	68636	47.145	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	47988m	47.207	ug/l	
77) Bromobenzene	12.536	156	101991	50.490	ug/l	93
78) n-propylbenzene	12.596	91	558013	53.513	ug/l	98
79) 2-Chlorotoluene	12.682	91	310097	51.922	ug/l	100
80) 1,3,5-Trimethylbenzene	12.743	105	375018	52.840	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	24332	48.841	ug/l	98
82) 4-Chlorotoluene	12.779	91	313949	51.594	ug/l	100
83) tert-Butylbenzene	13.005	119	348046	53.952	ug/l	99
84) 1,2,4-Trimethylbenzene	13.048	105	370353	53.370	ug/l	99
85) sec-Butylbenzene	13.182	105	494957	53.301	ug/l	98
86) p-Isopropyltoluene	13.298	119	411332	53.325	ug/l	99
87) 1,3-Dichlorobenzene	13.291	146	198405	50.868	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	193207	50.309	ug/l	99
89) n-Butylbenzene	13.621	91	384473	54.636	ug/l	99
90) Hexachloroethane	13.883	117	82908	51.521	ug/l	84
91) 1,2-Dichlorobenzene	13.663	146	168238	49.696	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	10000	45.965	ug/l	98
93) 1,2,4-Trichlorobenzene	14.925	180	98409	52.224	ug/l	99
94) Hexachlorobutadiene	15.029	225	65883	52.760	ug/l	99
95) Naphthalene	15.151	128	154493	51.245	ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	79793	50.882	ug/l	97

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Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

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

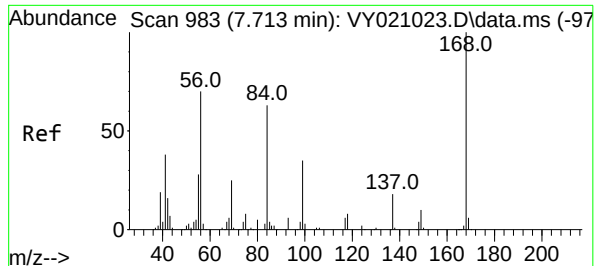
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Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Manual Integrations

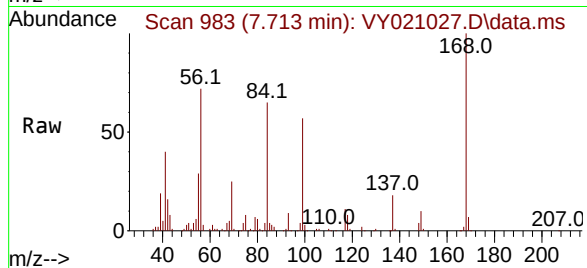
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

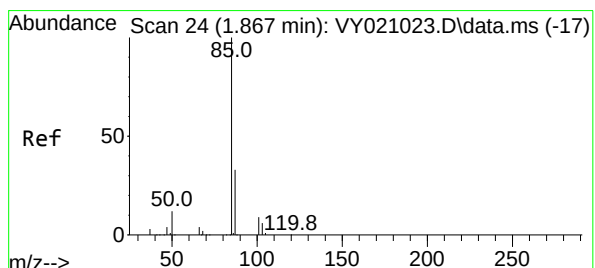
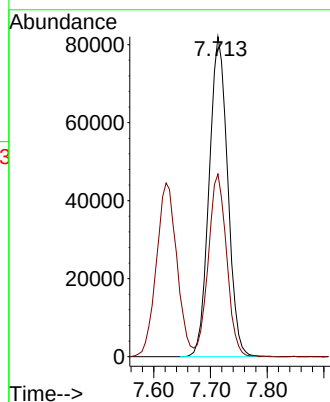
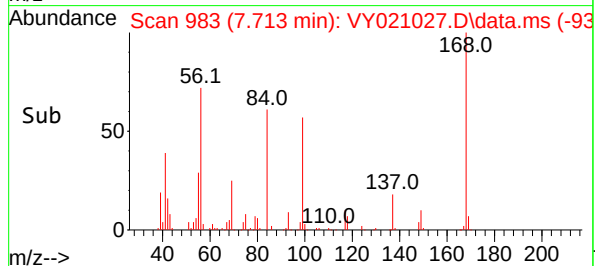
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion: 168 Resp: 18613
Ion Ratio Lower Upper
168 100
99 57.0 44.2 66.4

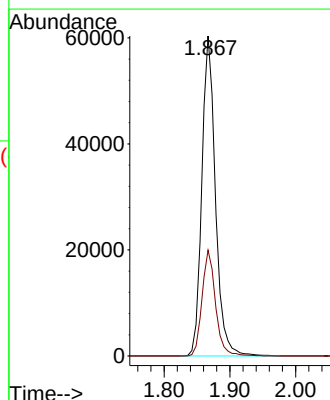
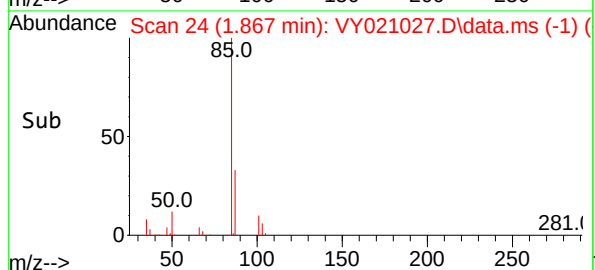
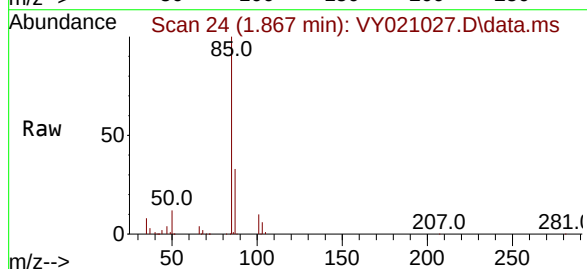
Manual Integrations
APPROVED

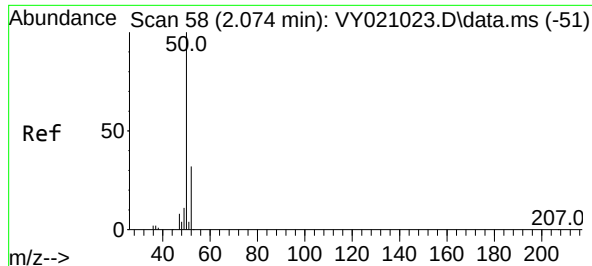
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#2
Dichlorodifluoromethane
Concen: 52.290 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion: 85 Resp: 86748
Ion Ratio Lower Upper
85 100
87 33.0 17.1 51.3





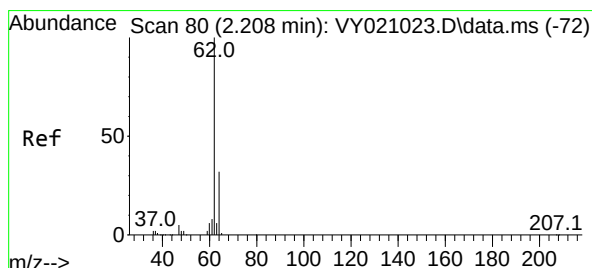
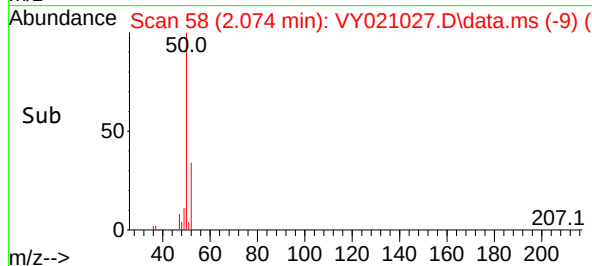
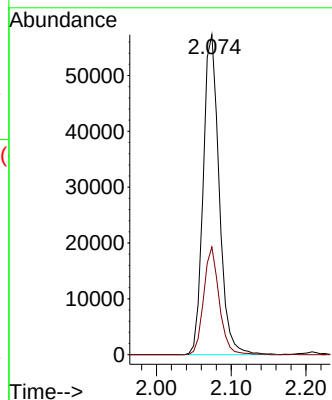
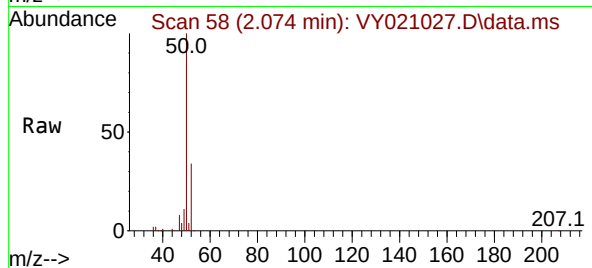
#3
Chloromethane
Concen: 52.006 ug/l
RT: 2.074 min Scan# 50
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Tgt Ion: 50 Resp: 8513
Ion Ratio Lower Upper
50 100
52 33.7 26.7 40.1

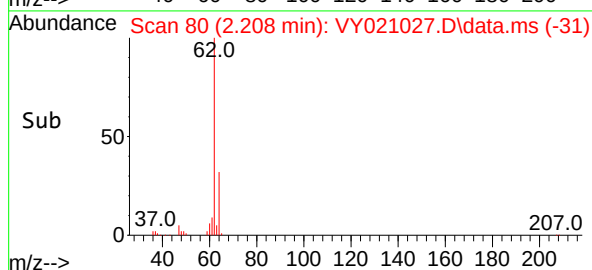
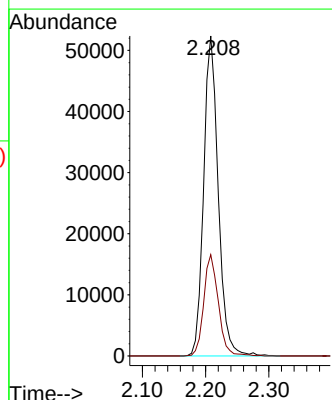
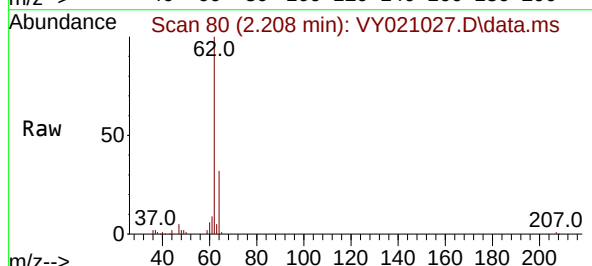
Manual Integrations
APPROVED

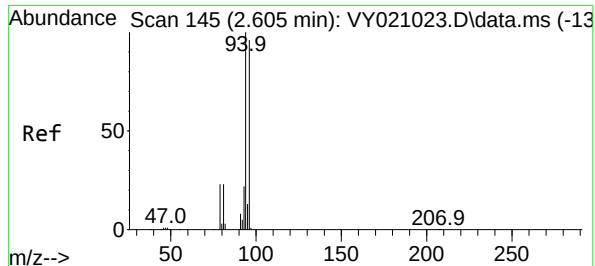
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#4
Vinyl Chloride
Concen: 51.058 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

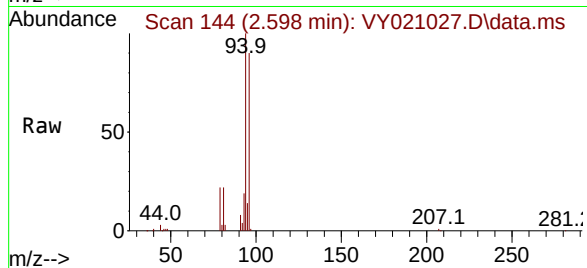
Tgt Ion: 62 Resp: 84130
Ion Ratio Lower Upper
62 100
64 31.6 25.7 38.5





#5
Bromomethane
Concen: 52.624 ug/l
RT: 2.598 min Scan# 145
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

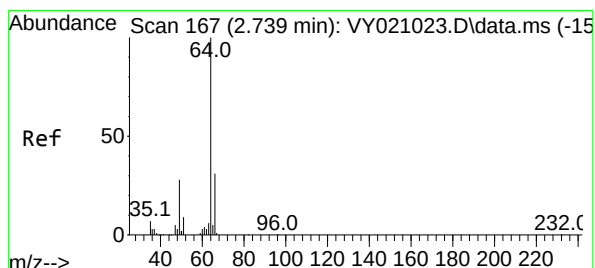
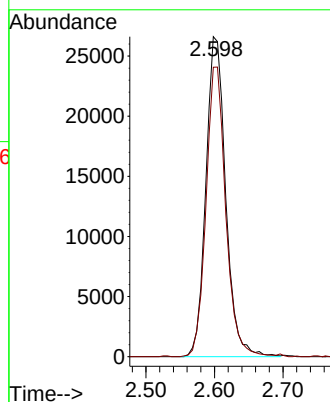
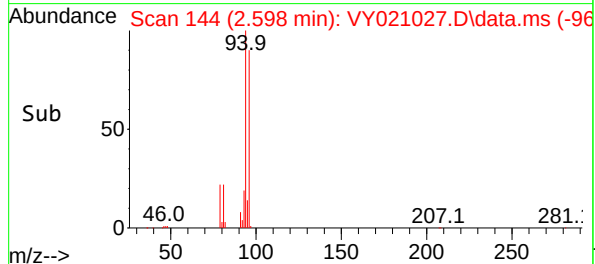
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion: 94 Resp: 53592
Ion Ratio Lower Upper
94 100
96 90.5 77.3 115.9

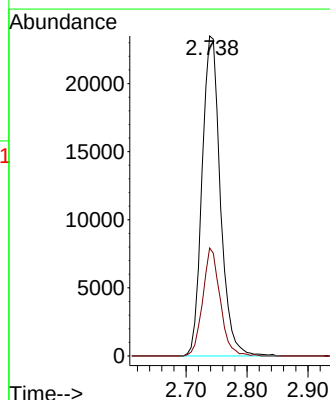
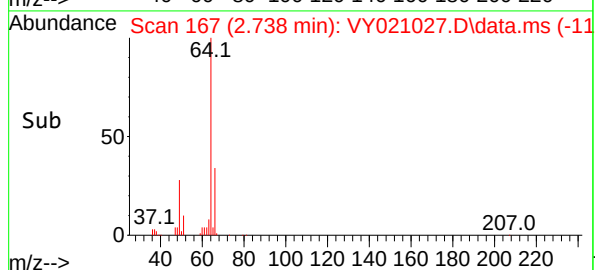
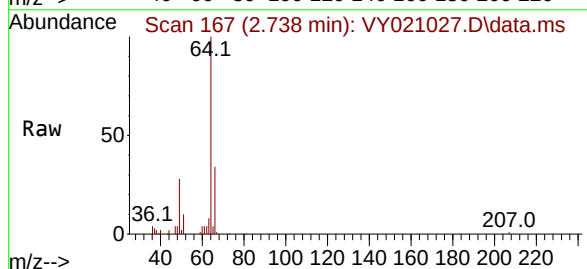
Manual Integrations
APPROVED

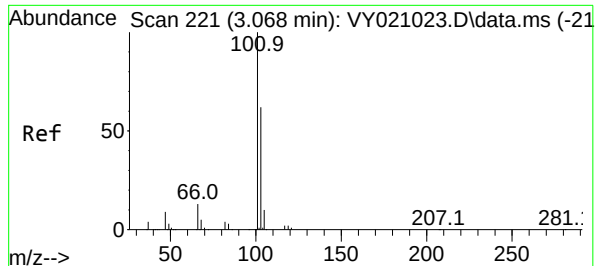
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#6
Chloroethane
Concen: 49.925 ug/l
RT: 2.738 min Scan# 167
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

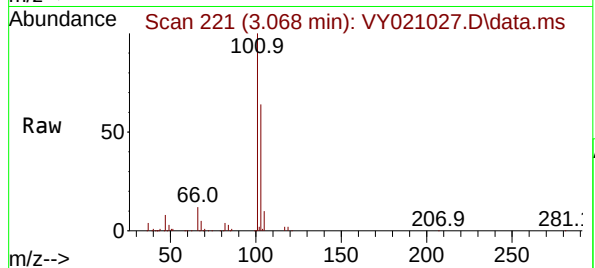
Tgt Ion: 64 Resp: 48969
Ion Ratio Lower Upper
64 100
66 33.8 25.1 37.7





#7
Trichlorofluoromethane
Concen: 51.864 ug/l
RT: 3.068 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

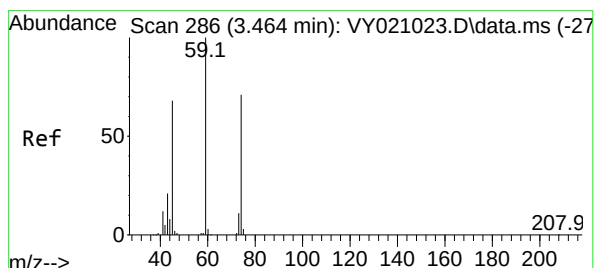
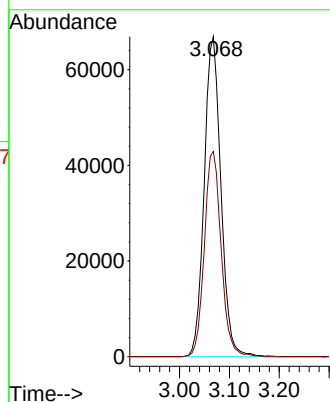
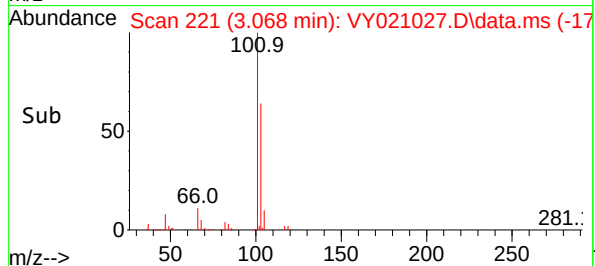
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion:101 Resp: 155690
Ion Ratio Lower Upper
101 100
103 64.2 51.9 77.9

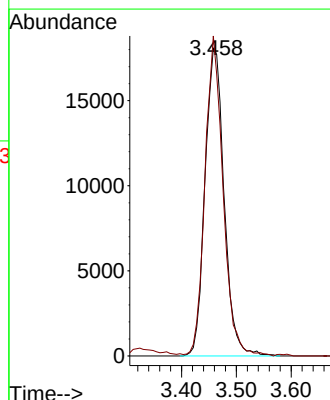
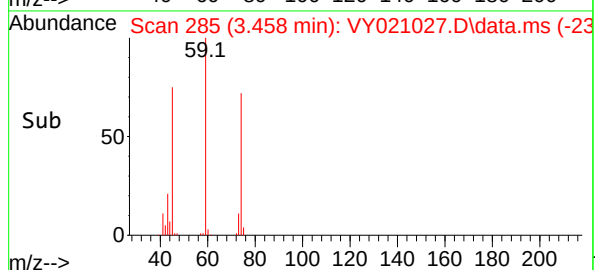
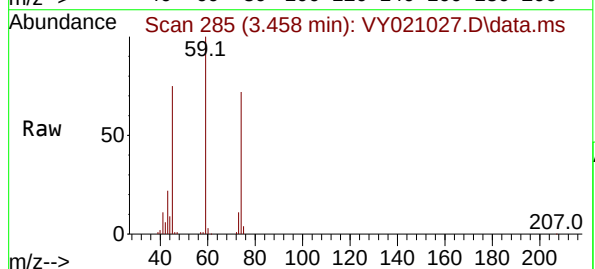
Manual Integrations
APPROVED

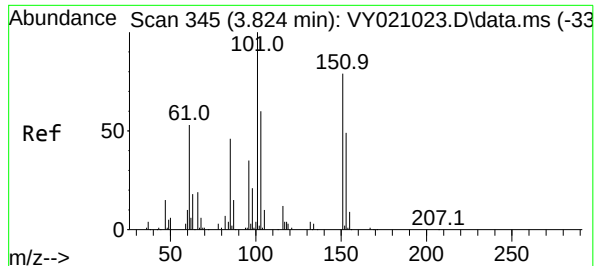
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#8
Diethyl Ether
Concen: 46.708 ug/l
RT: 3.458 min Scan# 285
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion: 74 Resp: 43771
Ion Ratio Lower Upper
74 100
45 98.4 47.9 143.7





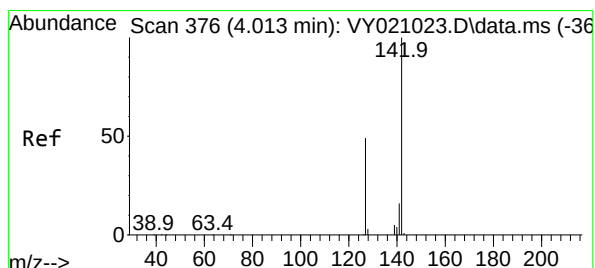
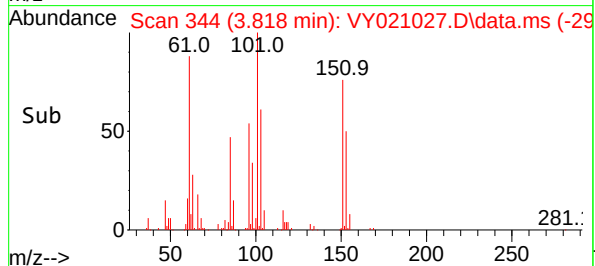
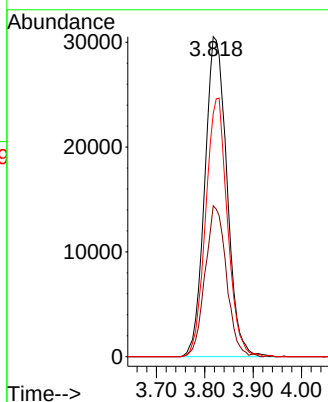
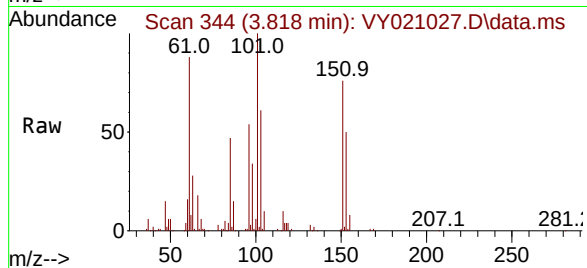
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.507 ug/l
RT: 3.818 min Scan# 345
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Tgt Ion:101 Resp: 97040
Ion Ratio Lower Upper
101 100
85 45.5 35.8 53.6
151 79.3 58.6 88.0

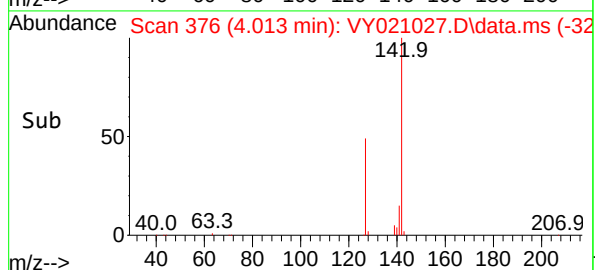
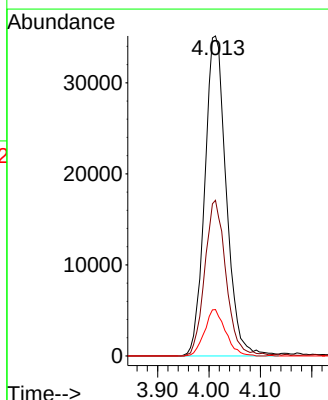
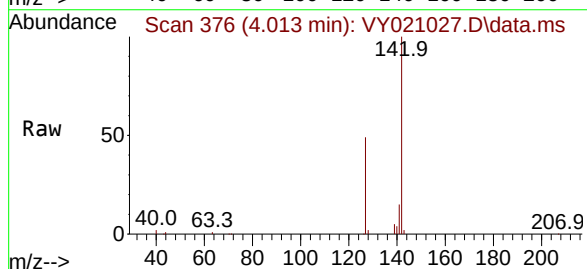
Manual Integrations
APPROVED

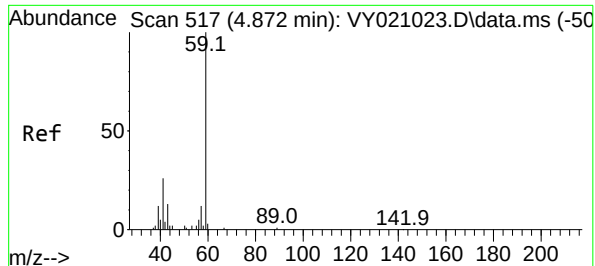
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#10
Methyl Iodide
Concen: 48.858 ug/l
RT: 4.013 min Scan# 376
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion:142 Resp: 102264
Ion Ratio Lower Upper
142 100
127 48.1 35.1 52.7
141 14.2 11.8 17.6





#11

Tert butyl alcohol

Concen: 214.161 ug/l

RT: 4.860 min Scan# 517

Delta R.T. -0.012 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion: 59 Resp: 2767

Ion Ratio Lower Upper

59 100

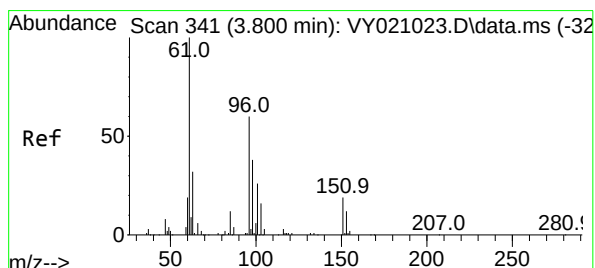
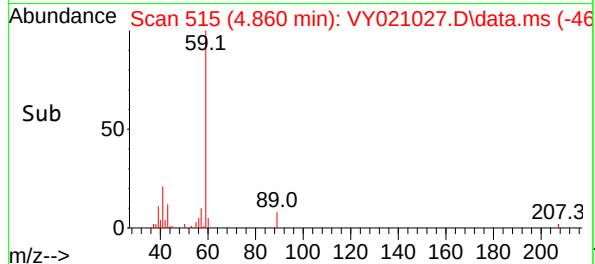
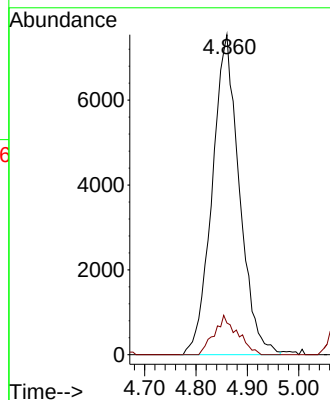
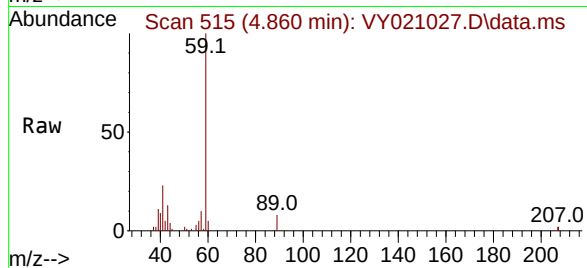
57 10.6 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#12

1,1-Dichloroethene

Concen: 51.810 ug/l

RT: 3.793 min Scan# 340

Delta R.T. -0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

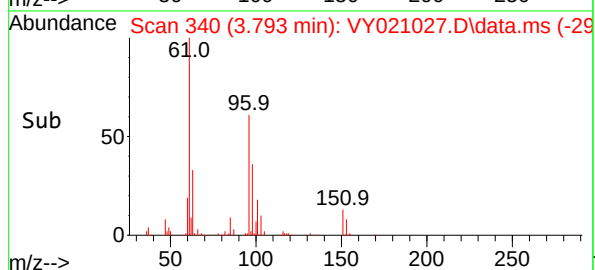
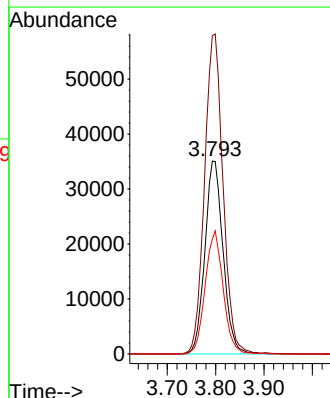
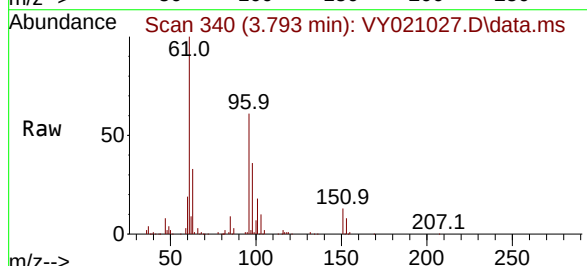
Tgt Ion: 96 Resp: 91949

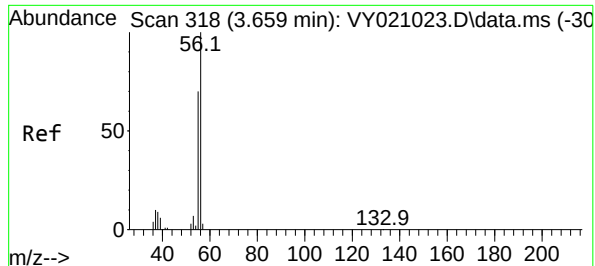
Ion Ratio Lower Upper

96 100

61 165.0 124.2 186.2

98 59.6 52.6 79.0





#13

Acrolein

Concen: 235.305 ug/l

RT: 3.653 min Scan# 31

Delta R.T. -0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion: 56 Resp: 4682

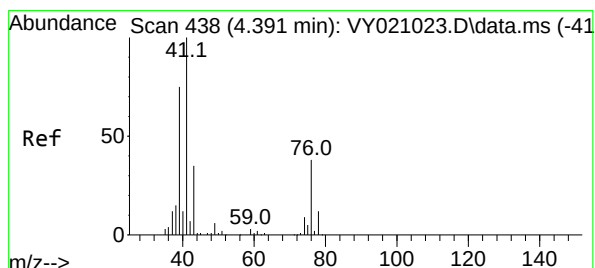
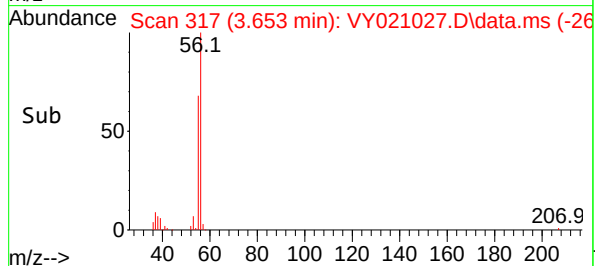
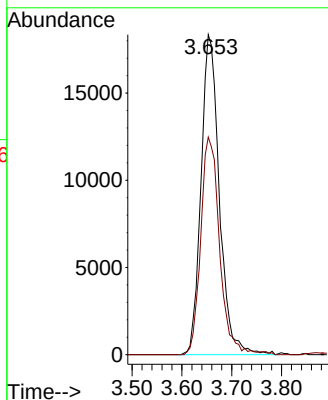
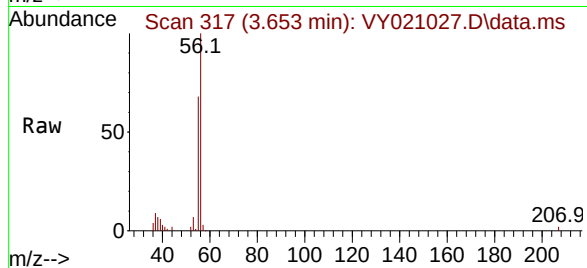
Ion Ratio Lower Upper

56 100

55 69.5 55.4 83.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#14

Allyl chloride

Concen: 50.663 ug/l

RT: 4.391 min Scan# 438

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

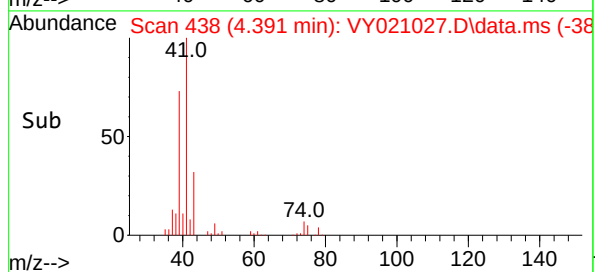
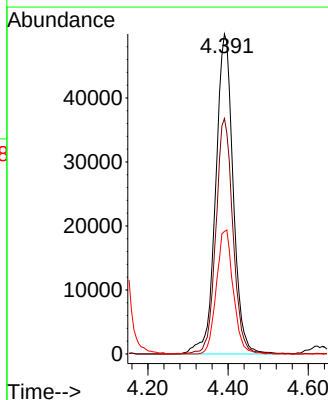
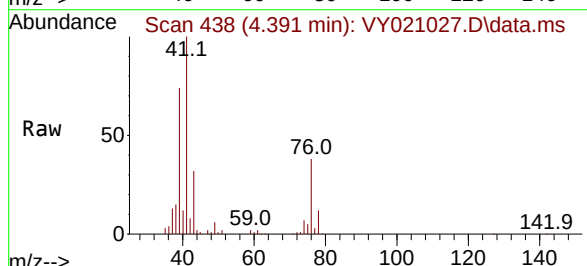
Tgt Ion: 41 Resp: 151536

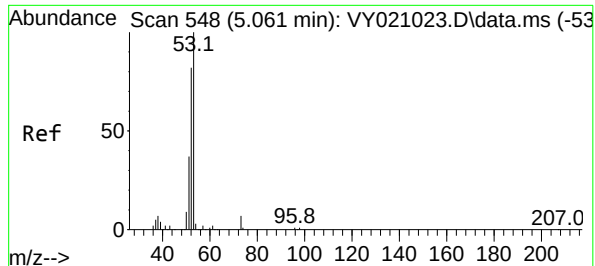
Ion Ratio Lower Upper

41 100

39 71.4 54.7 82.1

76 37.3 31.8 47.6





#15

Acrylonitrile

Concen: 230.328 ug/l

RT: 5.061 min Scan# 54

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

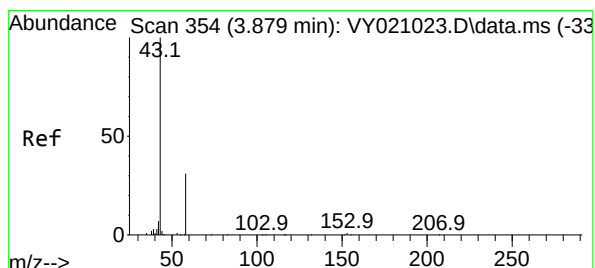
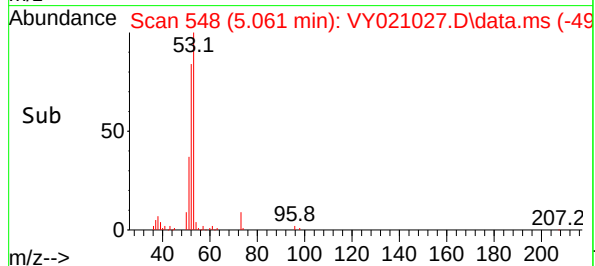
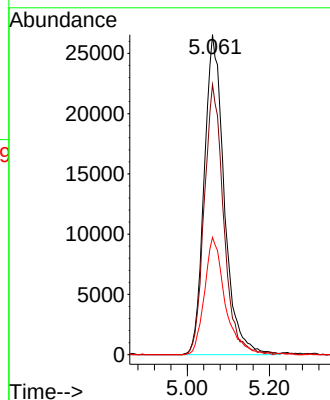
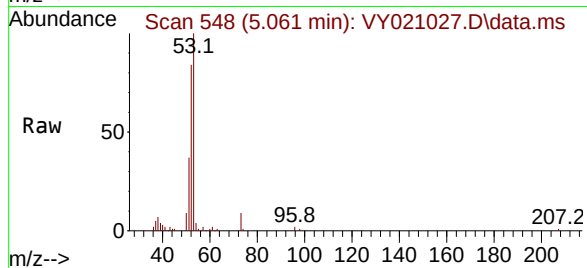
ClientSampleId :

ICVVY020325

Tgt Ion:	53	Resp:	8988
Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.1	97.7
51	37.6	29.0	43.4

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#16

Acetone

Concen: 243.997 ug/l

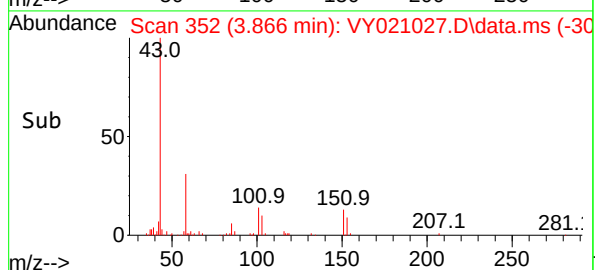
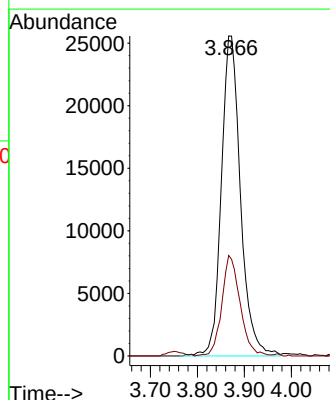
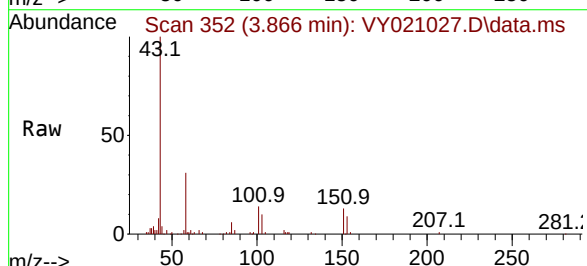
RT: 3.866 min Scan# 352

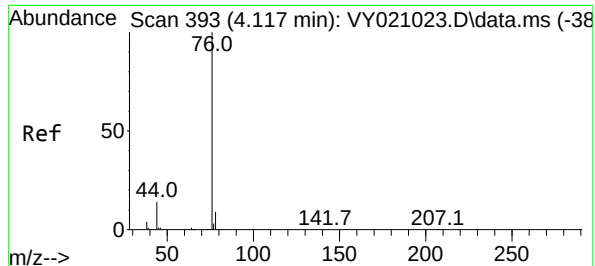
Delta R.T. -0.012 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

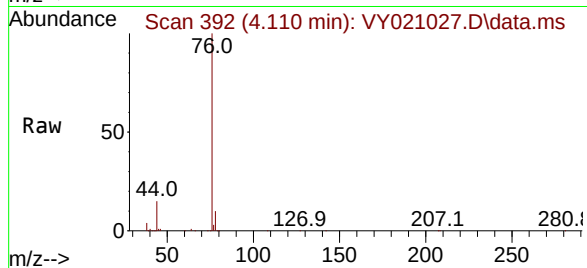
Tgt Ion:	43	Resp:	72566
Ion	Ratio	Lower	Upper
43	100		
58	31.0	26.6	39.8





#17
Carbon Disulfide
Concen: 52.004 ug/l
RT: 4.110 min Scan# 391
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

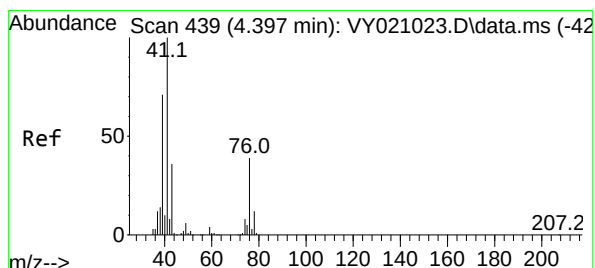
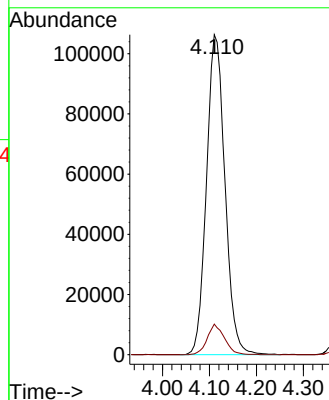
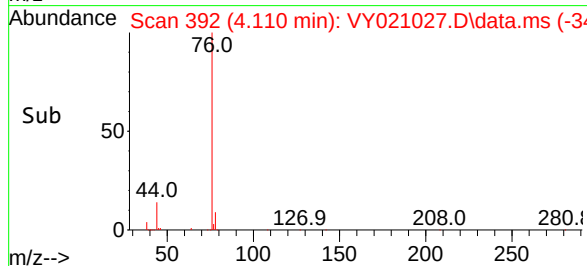
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion: 76 Resp: 289409
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.0

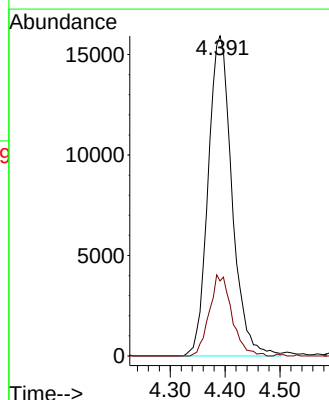
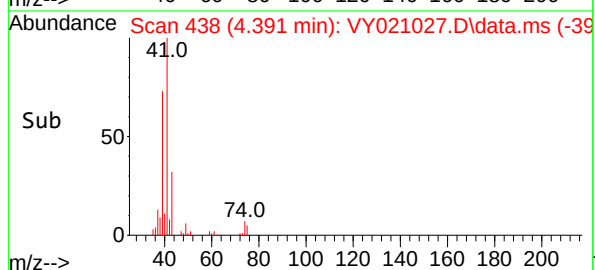
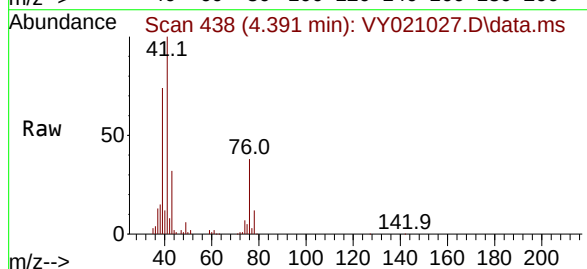
Manual Integrations
APPROVED

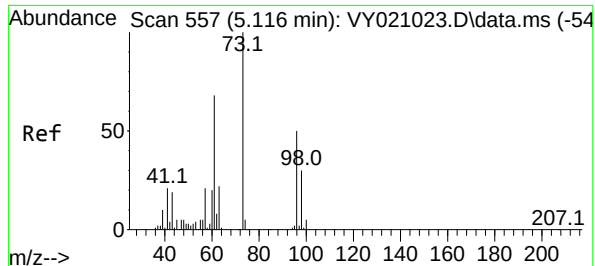
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#18
Methyl Acetate
Concen: 46.031 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion: 43 Resp: 48057
Ion Ratio Lower Upper
43 100
74 23.9 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 47.538 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion: 73 Resp: 21324

Ion Ratio Lower Upper

73 100

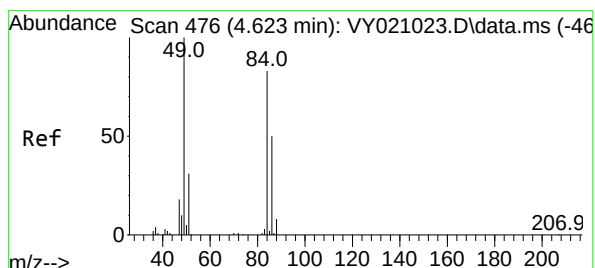
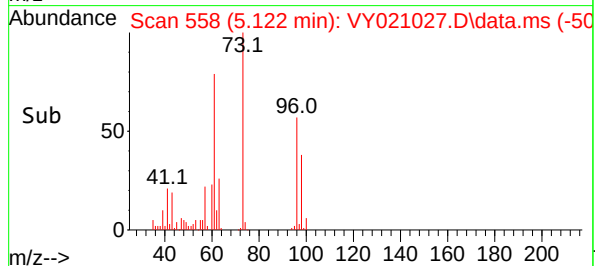
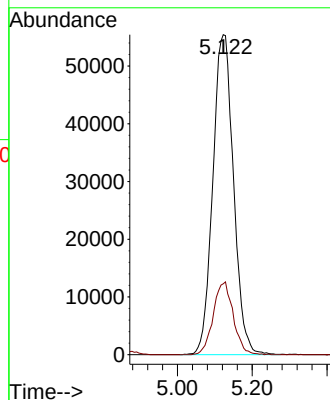
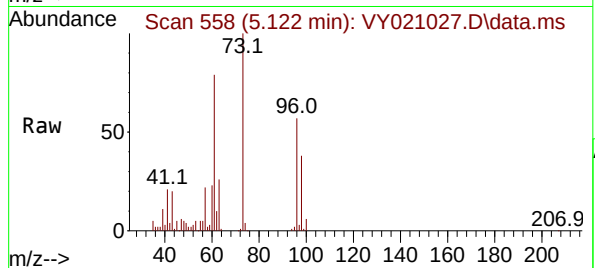
57 22.2 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#20

Methylene Chloride

Concen: 49.414 ug/l

RT: 4.628 min Scan# 477

Delta R.T. 0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion: 84 Resp: 91358

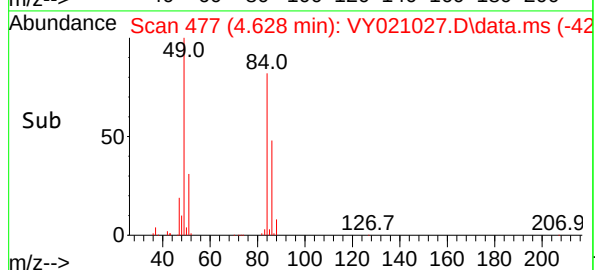
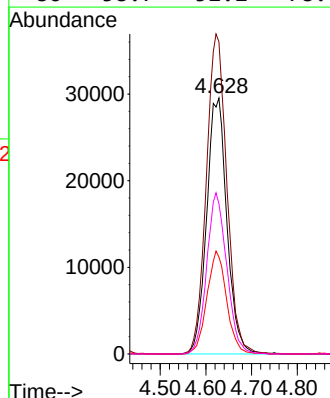
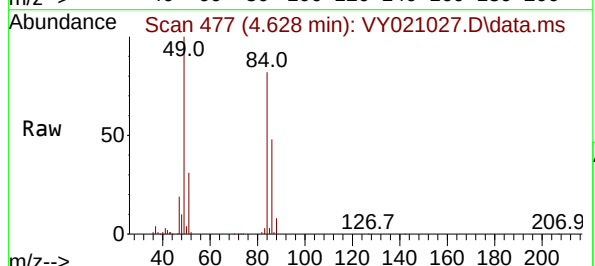
Ion Ratio Lower Upper

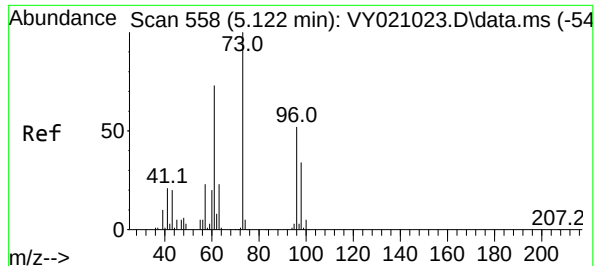
84 100

49 122.0 95.2 142.8

51 37.9 29.9 44.9

86 58.7 52.2 78.4





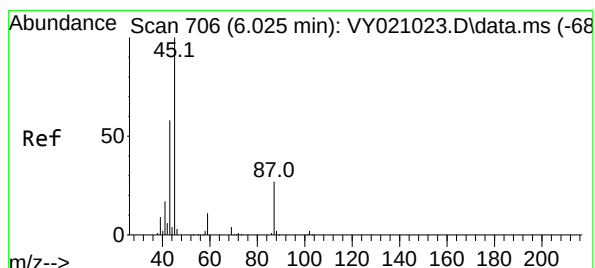
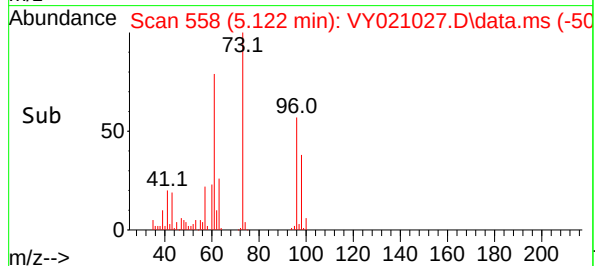
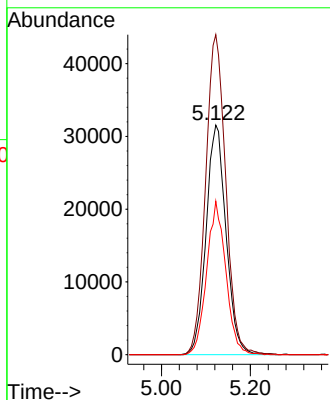
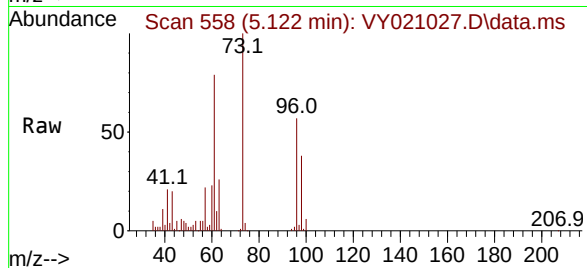
#21
trans-1,2-Dichloroethene
Concen: 50.506 ug/l
RT: 5.122 min Scan# 51
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Tgt Ion: 96 Resp: 9866
Ion Ratio Lower Upper
96 100
61 139.4 104.6 156.8
98 66.8 50.9 76.3

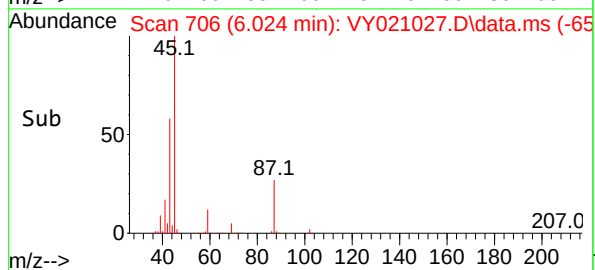
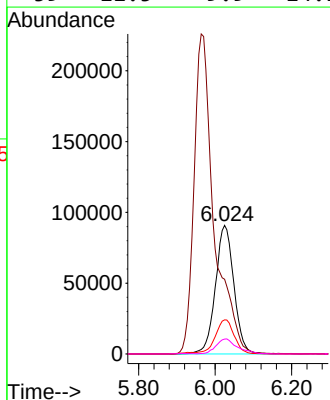
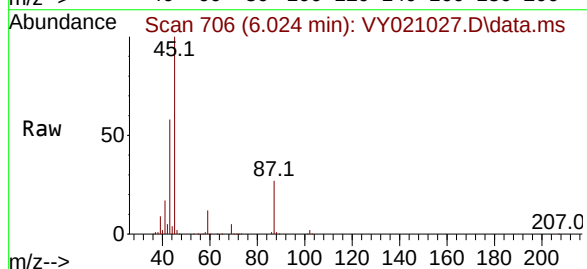
Manual Integrations
APPROVED

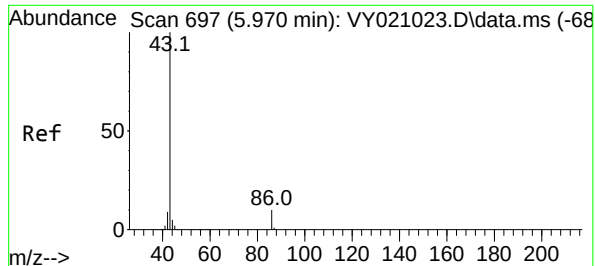
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#22
Diisopropyl ether
Concen: 49.407 ug/l
RT: 6.024 min Scan# 706
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion: 45 Resp: 304603
Ion Ratio Lower Upper
45 100
43 57.5 46.8 70.2
87 26.5 22.2 33.2
59 11.5 9.9 14.9





#23

Vinyl Acetate

Concen: 238.370 ug/l

RT: 5.964 min Scan# 697

Delta R.T. -0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVY020325

Tgt Ion: 43 Resp: 81924

Ion Ratio Lower Upper

43

100

86

10.7

8.6

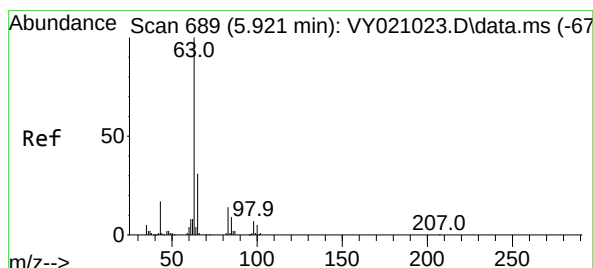
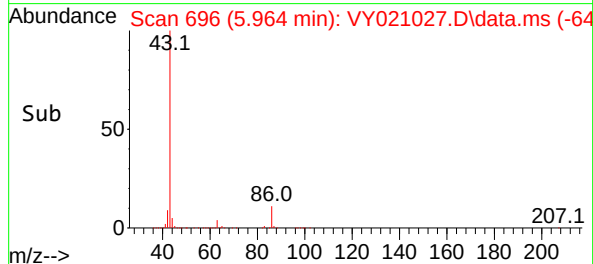
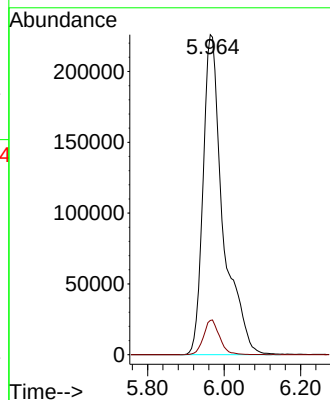
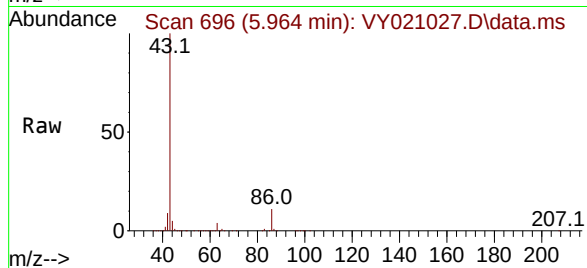
13.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#24

1,1-Dichloroethane

Concen: 49.806 ug/l

RT: 5.921 min Scan# 689

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion: 63 Resp: 179904

Ion Ratio Lower Upper

63

100

98

6.2

3.8

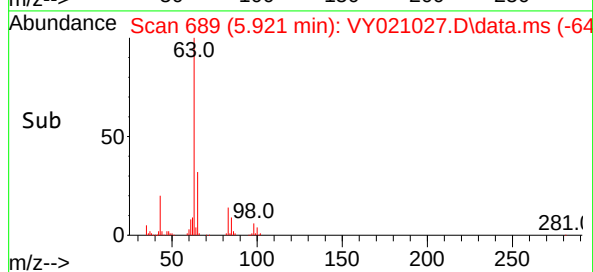
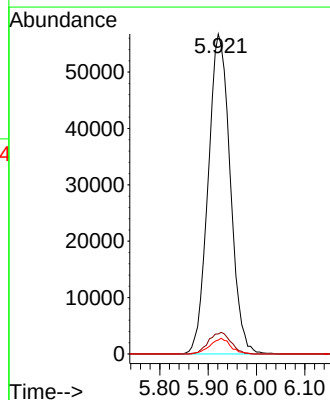
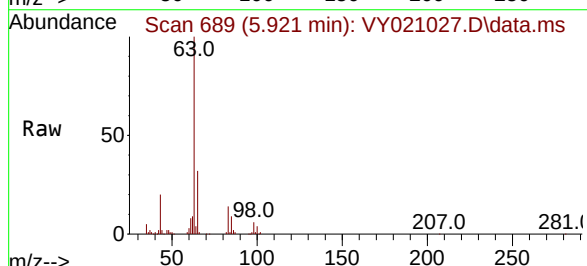
11.4

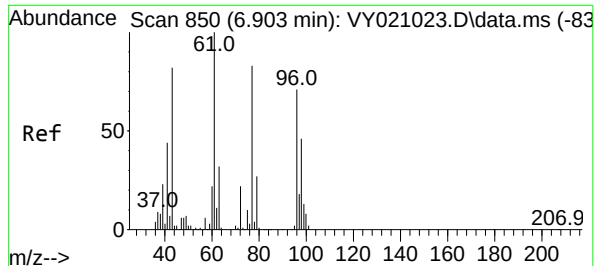
100

4.4

2.1

6.2





#25

2-Butanone

Concen: 233.503 ug/l

RT: 6.896 min Scan# 849

Delta R.T. -0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion: 43 Resp: 11411

Ion Ratio Lower Upper

43 100

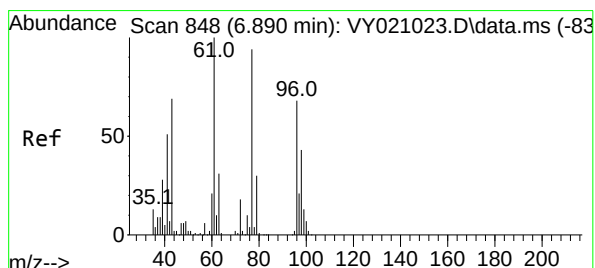
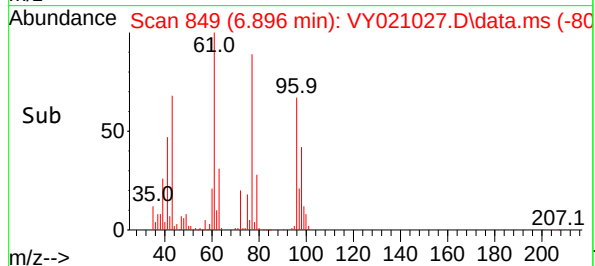
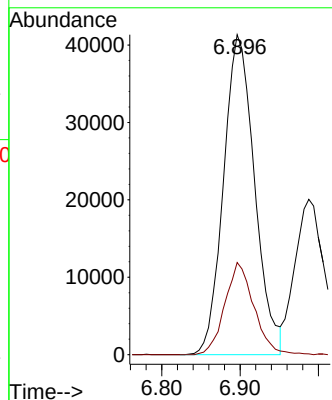
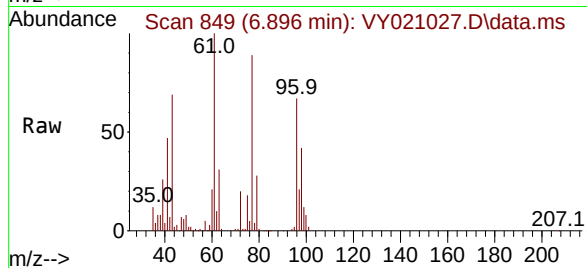
72 28.8 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#26

2,2-Dichloropropane

Concen: 50.791 ug/l

RT: 6.890 min Scan# 848

Delta R.T. -0.000 min

Lab File: VY021027.D

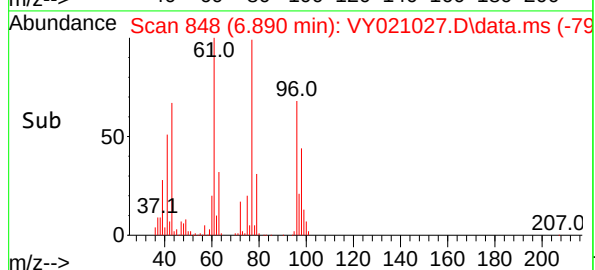
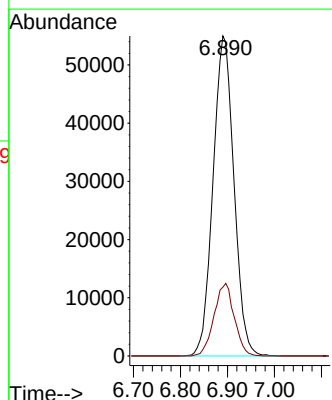
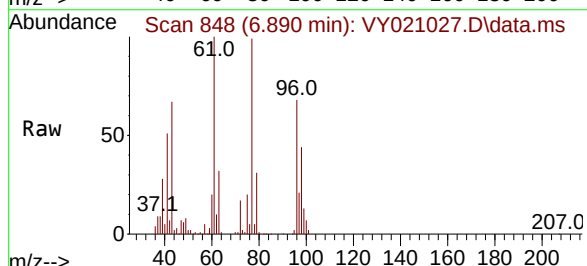
Acq: 03 Feb 2025 13:37

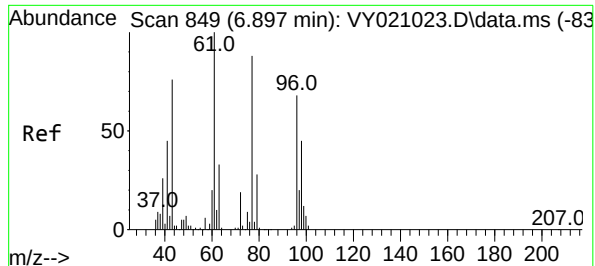
Tgt Ion: 77 Resp: 169757

Ion Ratio Lower Upper

77 100

97 21.9 11.7 35.0





#27

cis-1,2-Dichloroethene

Concen: 49.785 ug/l

RT: 6.896 min Scan# 849

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

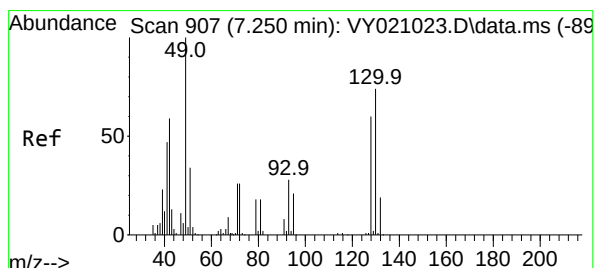
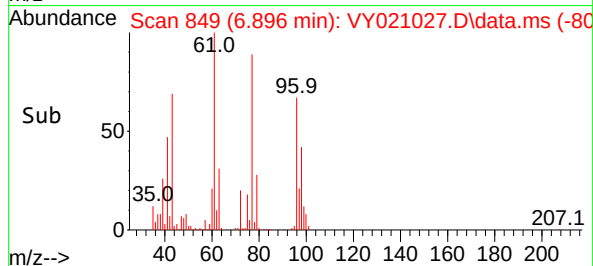
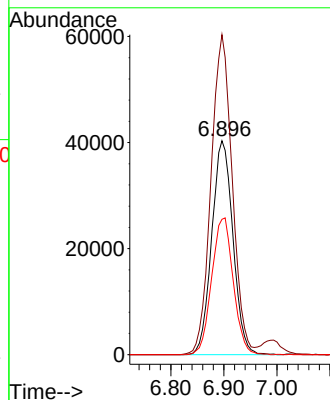
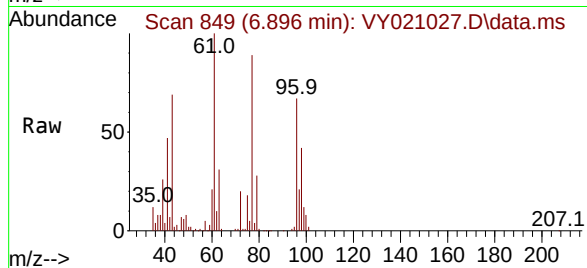
ClientSampleId :

ICVVY020325

Tgt Ion:	96	Resp:	11194
Ion	Ratio	Lower	Upper
96	100		
61	149.6	0.0	278.8
98	65.1	0.0	127.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#28

Bromochloromethane

Concen: 54.731 ug/l

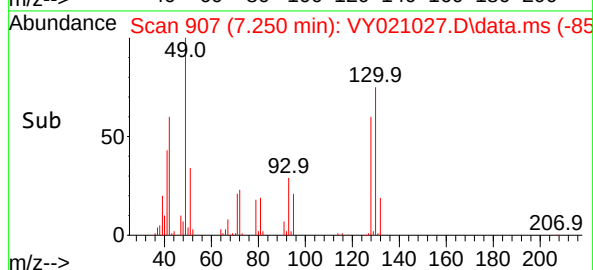
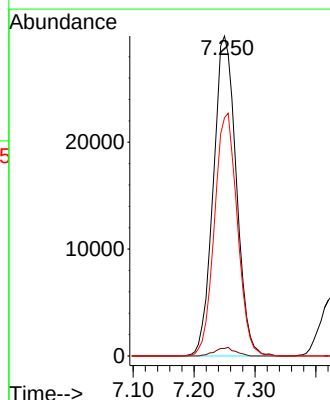
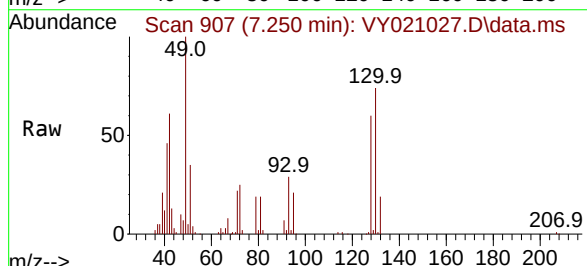
RT: 7.250 min Scan# 907

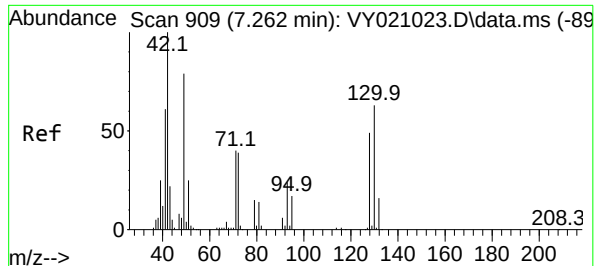
Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion:	49	Resp:	78173
Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	3.8
130	75.7	59.8	89.8





#29

Tetrahydrofuran

Concen: 228.139 ug/l

RT: 7.262 min Scan# 909

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

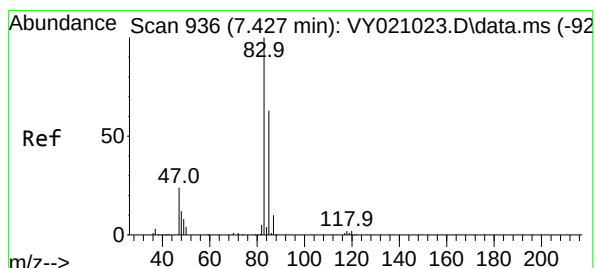
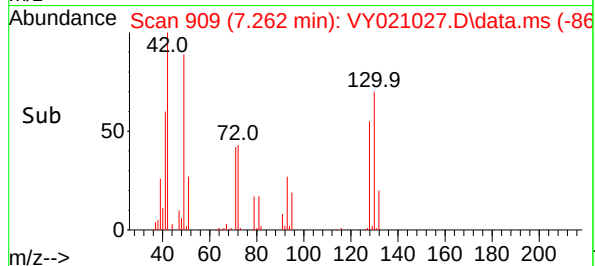
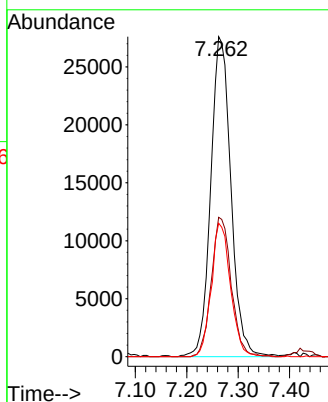
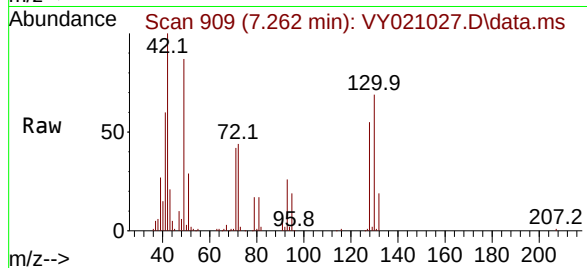
ClientSampleId :

ICVY020325

Tgt Ion:	42	Resp:	7544
Ion	Ratio	Lower	Upper
42	100		
72	42.8	36.6	54.8
71	39.7	33.8	50.6

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#30

Chloroform

Concen: 48.846 ug/l

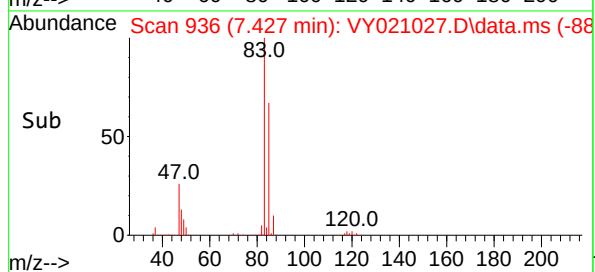
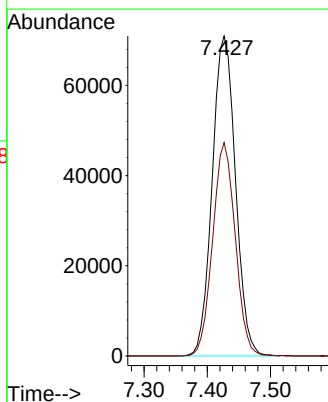
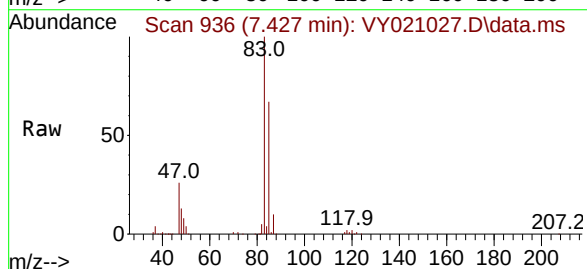
RT: 7.427 min Scan# 936

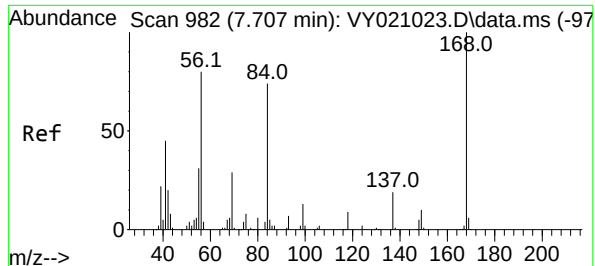
Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion:	83	Resp:	181229
Ion	Ratio	Lower	Upper
83	100		
85	66.7	51.2	76.8





#31

Cyclohexane

Concen: 50.051 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVY020325

Tgt Ion: 56 Resp: 162800

Ion Ratio Lower Upper

56 100

69 32.5 27.0 40.6

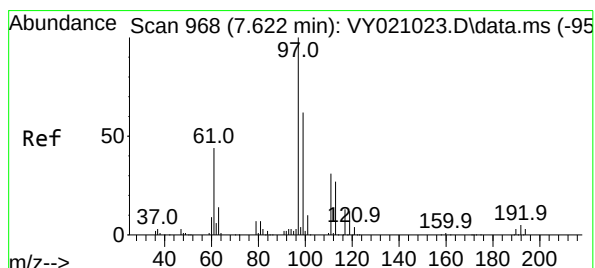
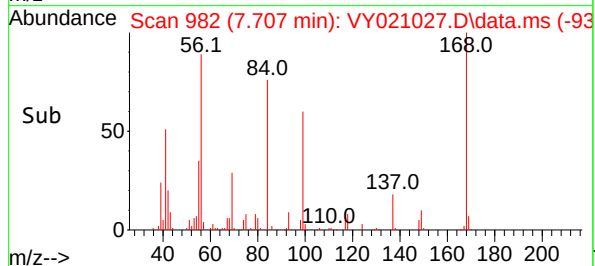
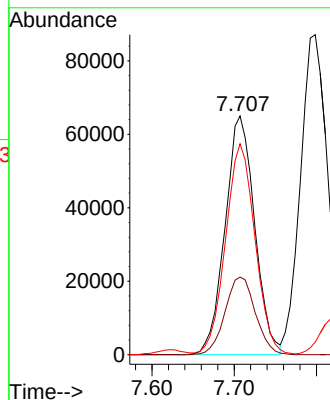
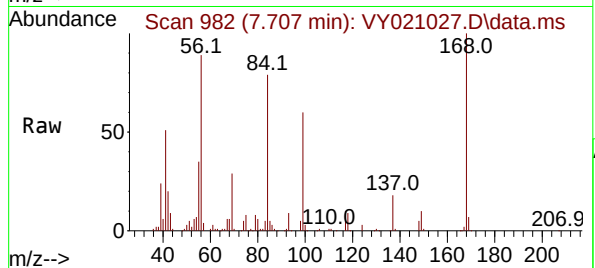
84 86.9 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#32

1,1,1-Trichloroethane

Concen: 50.620 ug/l

RT: 7.622 min Scan# 968

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

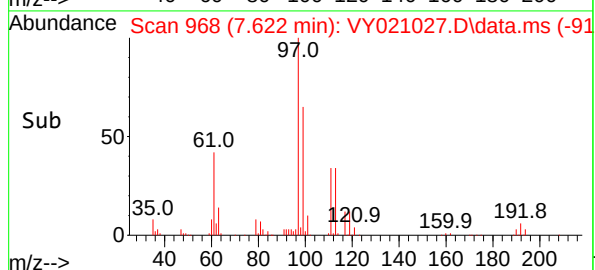
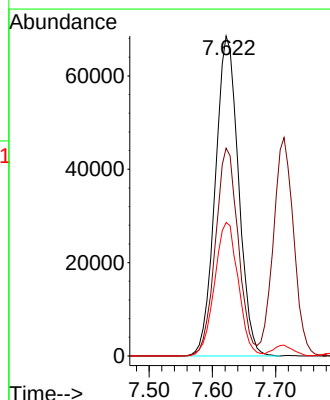
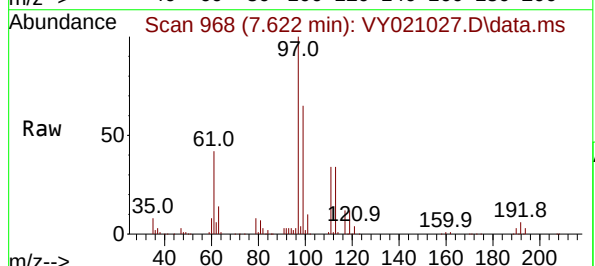
Tgt Ion: 97 Resp: 174612

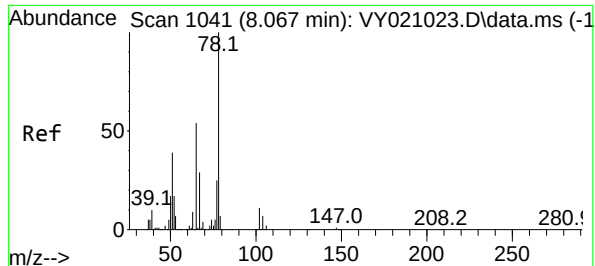
Ion Ratio Lower Upper

97 100

99 64.1 51.2 76.8

61 42.6 35.0 52.6





#33

1,2-Dichloroethane-d4

Concen: 54.604 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVY020325

Tgt Ion: 65 Resp: 104134

Ion Ratio Lower Upper

65 100

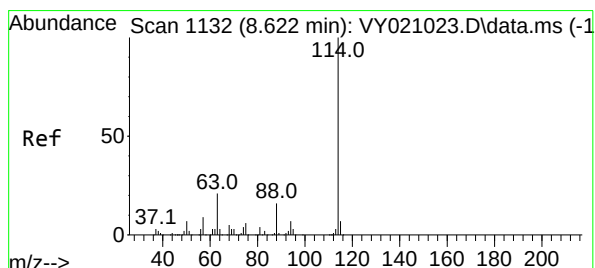
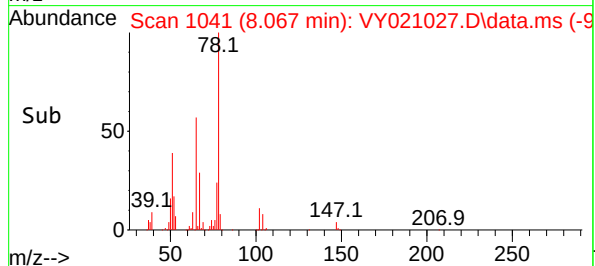
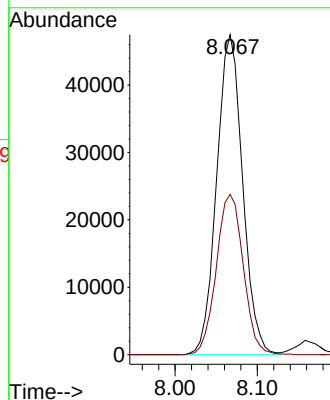
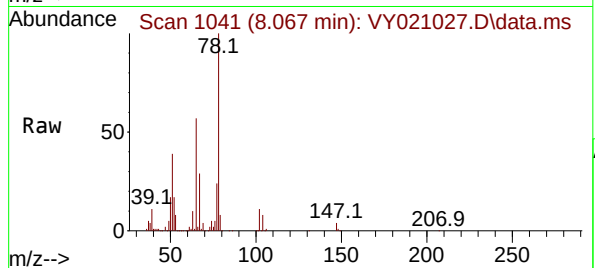
67 52.1 0.0 109.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

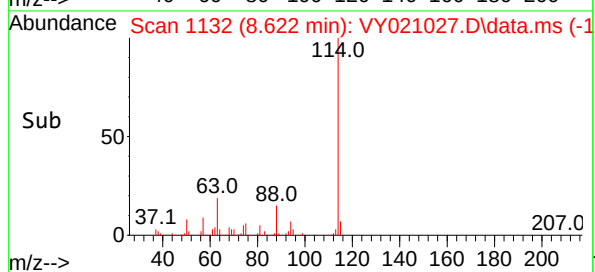
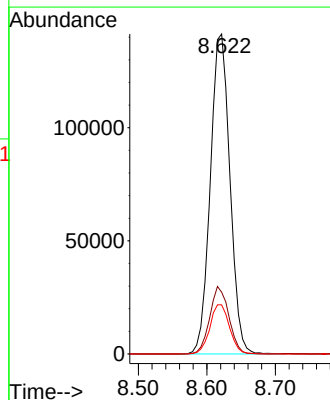
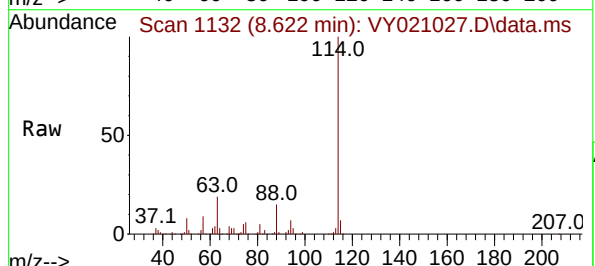
Tgt Ion:114 Resp: 280950

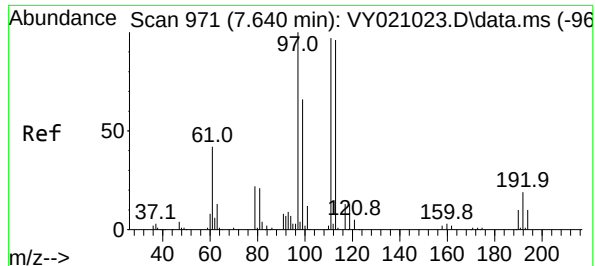
Ion Ratio Lower Upper

114 100

63 19.3 0.0 37.4

88 15.4 0.0 29.0





#35

Dibromofluoromethane

Concen: 57.790 ug/l

RT: 7.640 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion:113 Resp: 10405

Ion Ratio Lower Upper

113 100

111 102.6 83.8 125.6

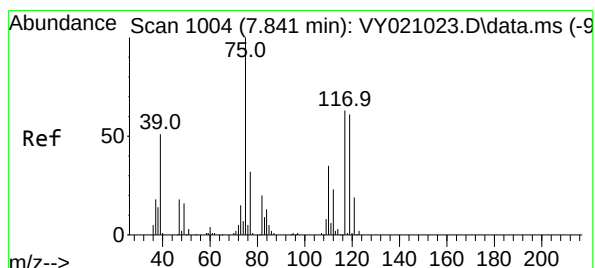
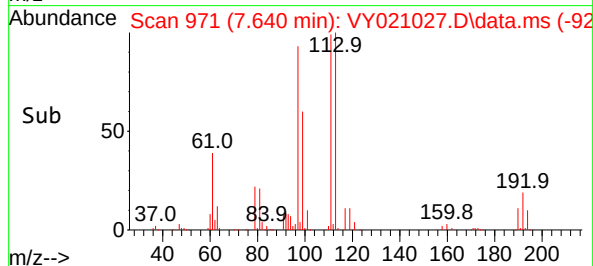
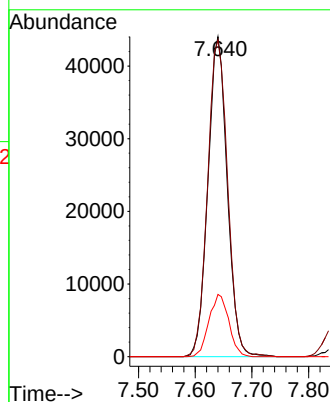
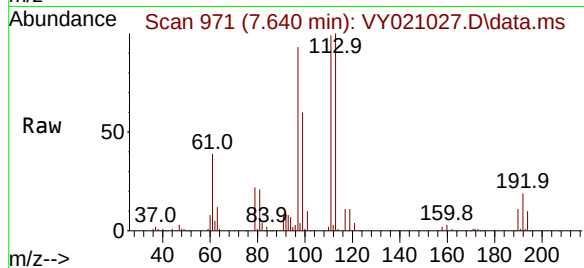
192 20.0 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#36

1,1-Dichloropropene

Concen: 52.625 ug/l

RT: 7.841 min Scan# 1004

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

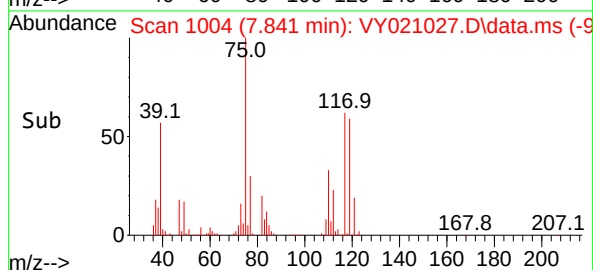
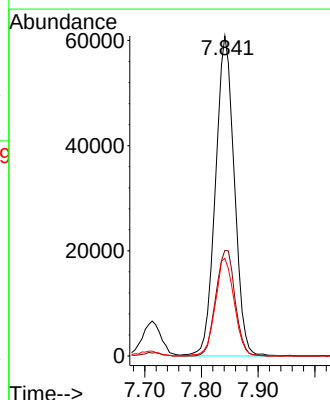
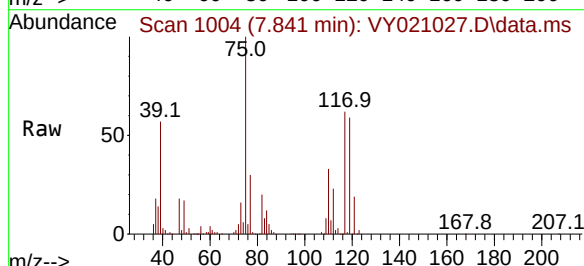
Tgt Ion: 75 Resp: 140344

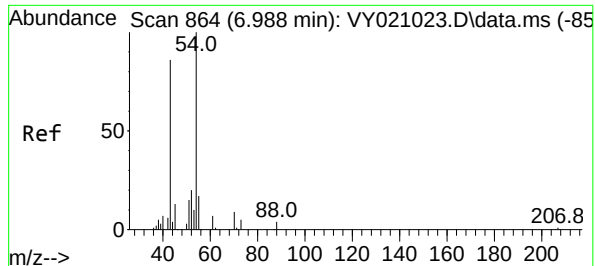
Ion Ratio Lower Upper

75 100

110 33.8 17.4 52.3

77 30.7 24.7 37.1





#37

Ethyl Acetate

Concen: 47.006 ug/l

RT: 6.988 min Scan# 80

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

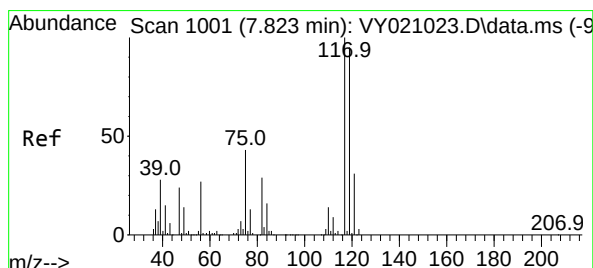
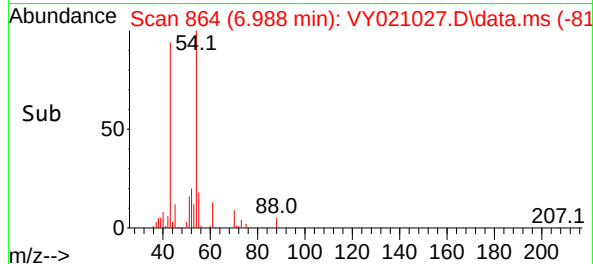
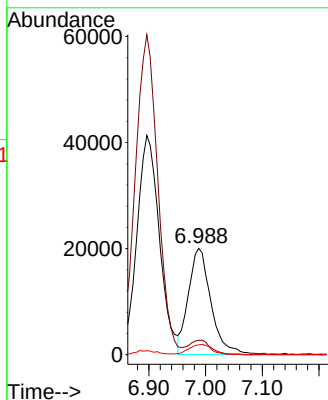
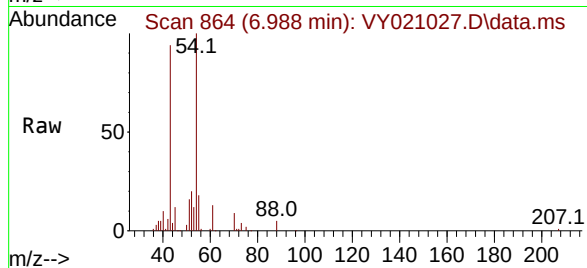
ClientSampleId :

ICVVY020325

Tgt Ion:	43	Resp:	54994
Ion	Ratio	Lower	Upper
43	100		
61	13.8	11.0	16.6
70	9.7	8.1	12.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#38

Carbon Tetrachloride

Concen: 51.711 ug/l

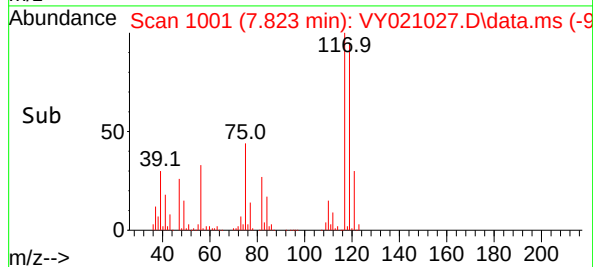
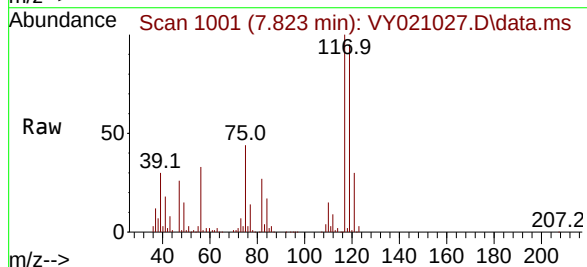
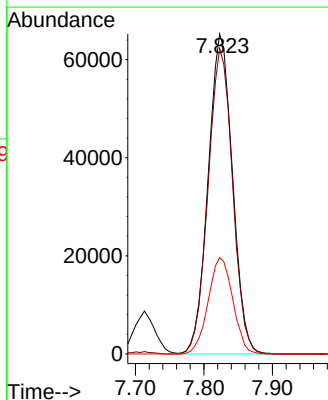
RT: 7.823 min Scan# 1001

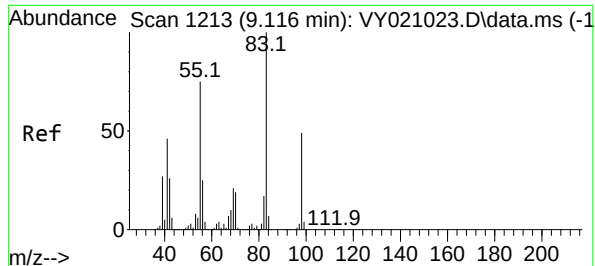
Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion:	117	Resp:	161137
Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.0	114.0
121	30.1	24.2	36.2





#39

Methylcyclohexane

Concen: 54.123 ug/l

RT: 9.115 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

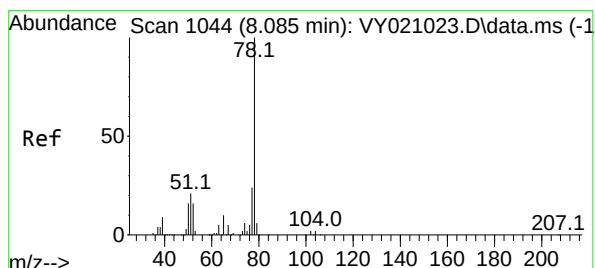
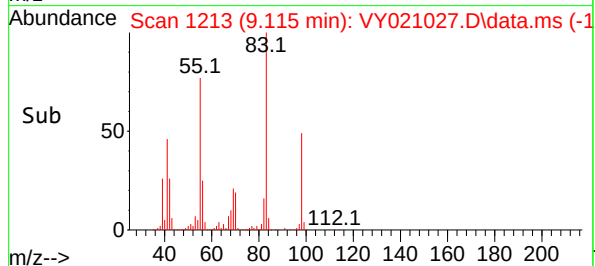
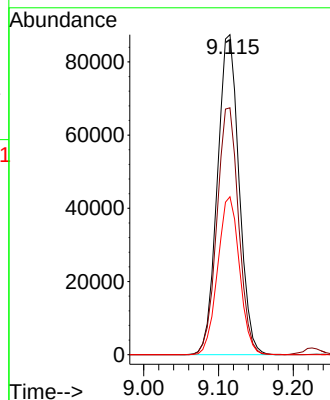
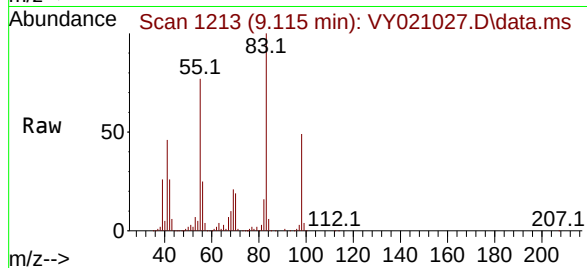
ClientSampleId :

ICVVY020325

Tgt Ion:	83	Resp:	176554
Ion	Ratio	Lower	Upper
83	100		
55	77.1	59.7	89.5
98	49.4	38.0	57.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#40

Benzene

Concen: 51.052 ug/l

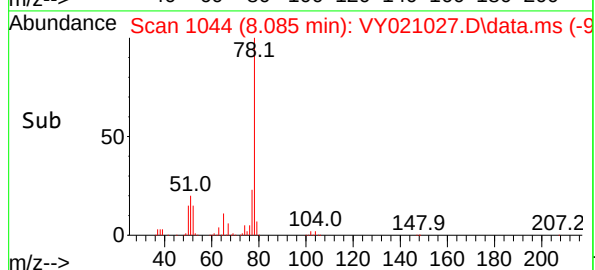
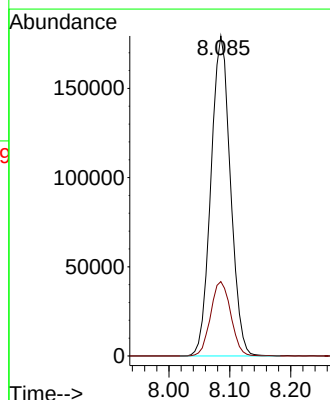
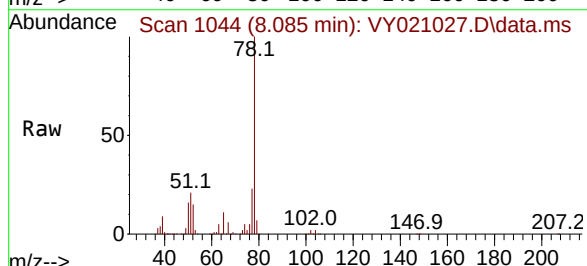
RT: 8.085 min Scan# 1044

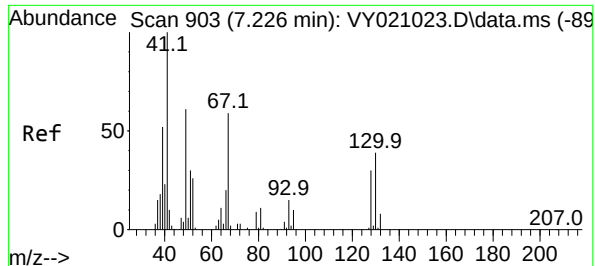
Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion:	78	Resp:	399547
Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.8	28.2





#41

Methacrylonitrile

Concen: 43.131 ug/l

RT: 7.232 min Scan# 904

Delta R.T. 0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion: 41 Resp: 2919

Ion Ratio Lower Upper

41 100

39 53.8 41.9 62.9

67 76.7 59.8 89.6

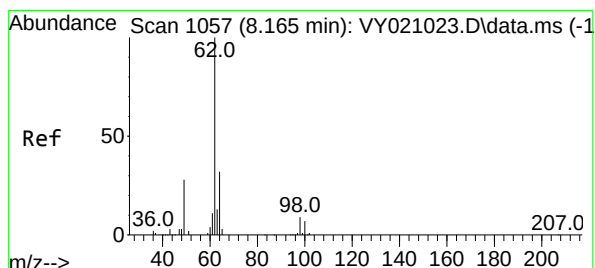
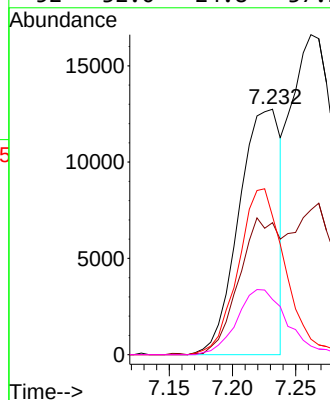
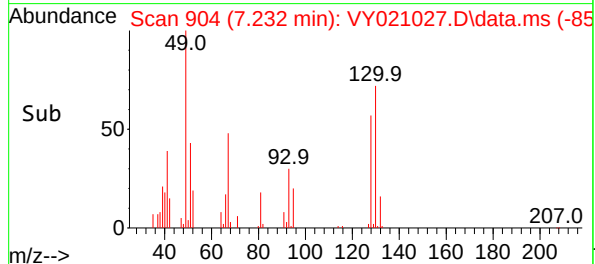
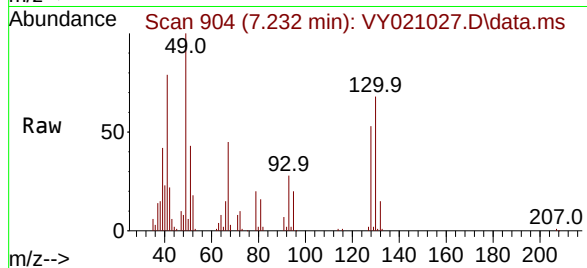
52 32.0 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#42

1,2-Dichloroethane

Concen: 47.910 ug/l

RT: 8.164 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VY021027.D

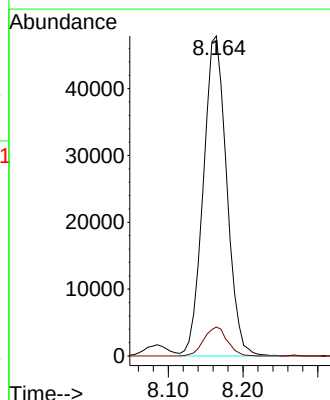
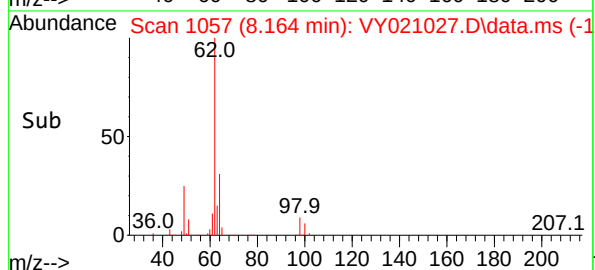
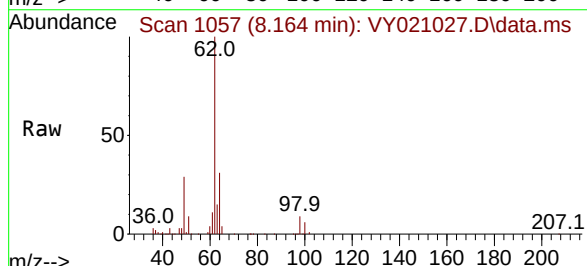
Acq: 03 Feb 2025 13:37

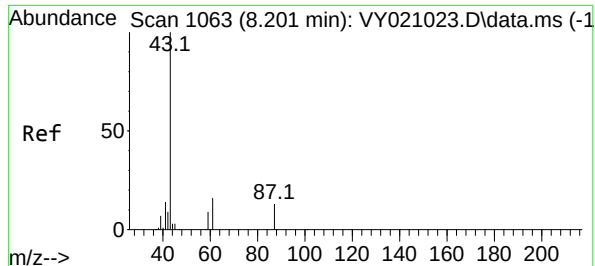
Tgt Ion: 62 Resp: 104015

Ion Ratio Lower Upper

62 100

98 9.0 0.0 20.2





#43

Isopropyl Acetate

Concen: 47.523 ug/l

RT: 8.201 min Scan# 110470

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

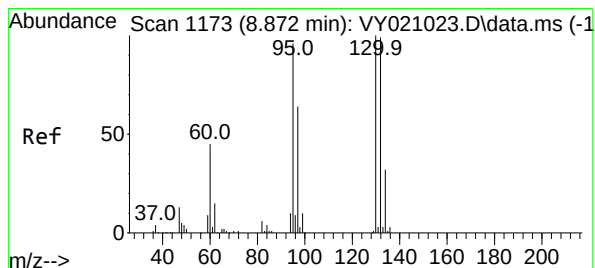
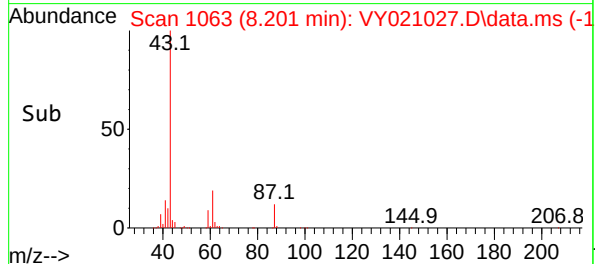
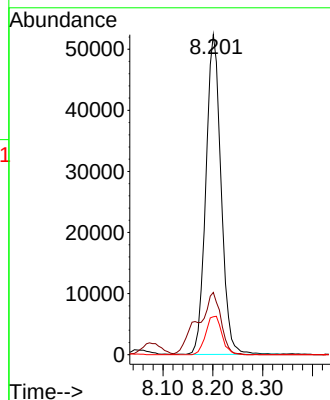
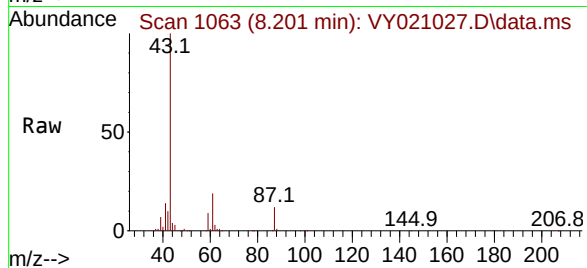
ICVVY020325

Tgt Ion:	43	Resp:	110470
Ion	Ratio	Lower	Upper
43	100		
61	29.5	24.8	37.2
87	12.8	10.7	16.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#44

Trichloroethene

Concen: 50.777 ug/l

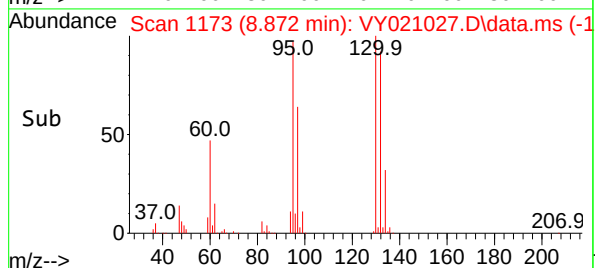
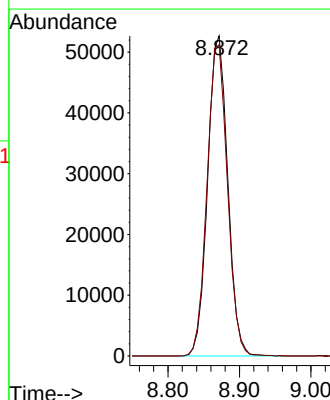
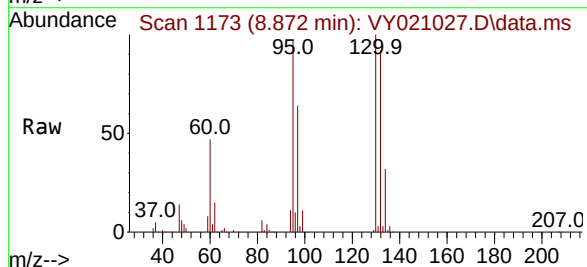
RT: 8.872 min Scan# 1173

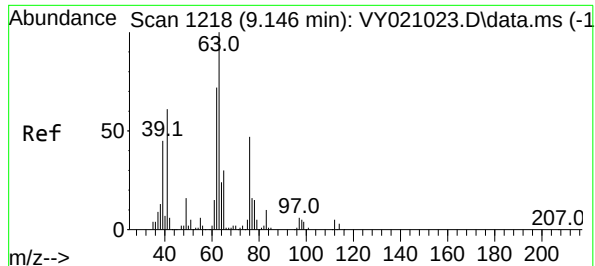
Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion:	130	Resp:	102671
Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	203.8





#45

1,2-Dichloropropane

Concen: 49.666 ug/l

RT: 9.146 min Scan# 1218

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVY020325

Tgt Ion: 63 Resp: 9225

Ion Ratio Lower Upper

63 100

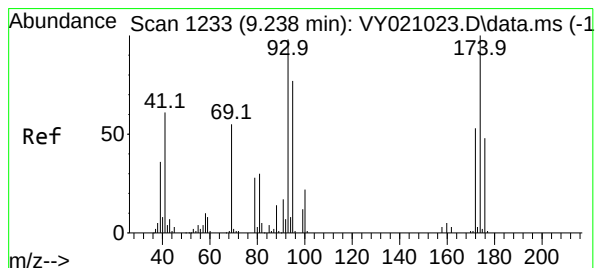
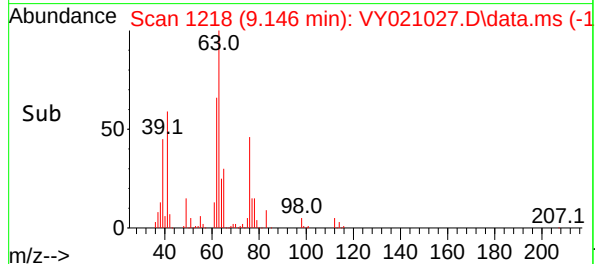
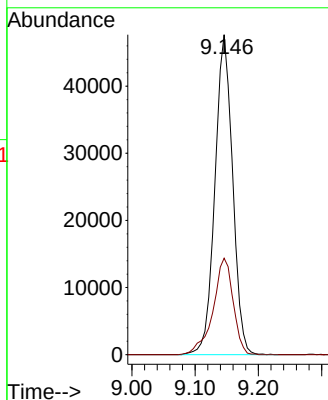
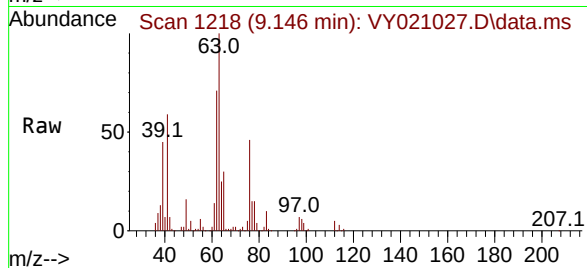
65 30.2 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#46

Dibromomethane

Concen: 46.914 ug/l

RT: 9.237 min Scan# 1233

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

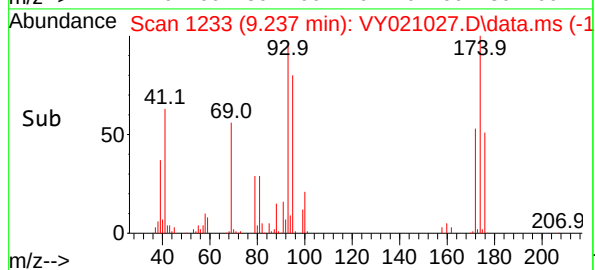
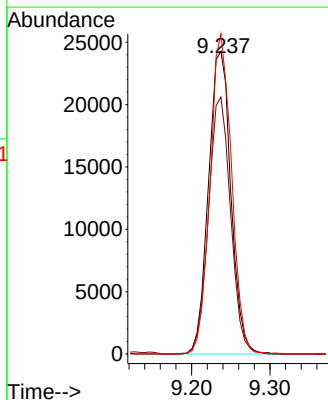
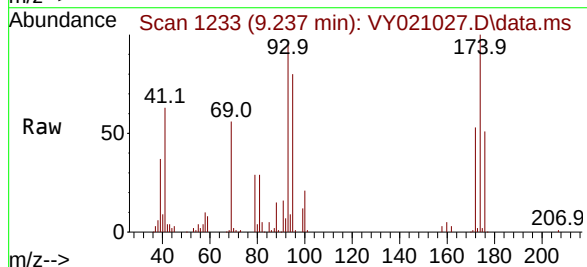
Tgt Ion: 93 Resp: 48251

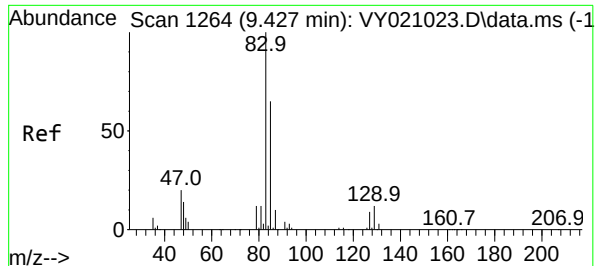
Ion Ratio Lower Upper

93 100

95 83.8 66.6 99.8

174 101.3 73.8 110.6





#47

Bromodichloromethane

Concen: 48.799 ug/l

RT: 9.426 min Scan# 1264

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

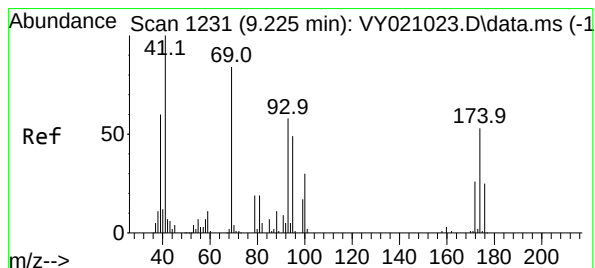
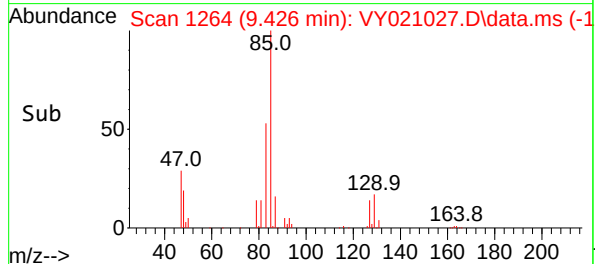
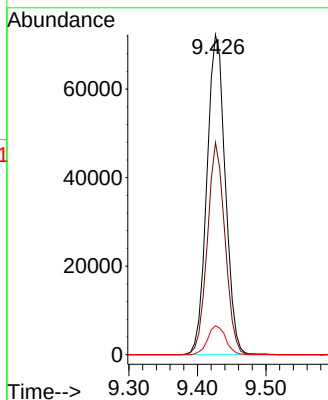
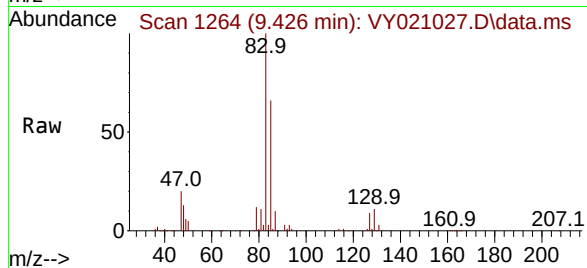
ClientSampleId :

ICVVY020325

Tgt Ion:	83	Resp:	13460
Ion	Ratio	Lower	Upper
83	100		
85	66.3	53.2	79.8
127	9.1	6.4	9.6

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#48

Methyl methacrylate

Concen: 49.560 ug/l

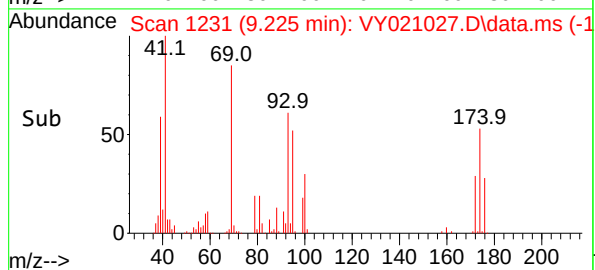
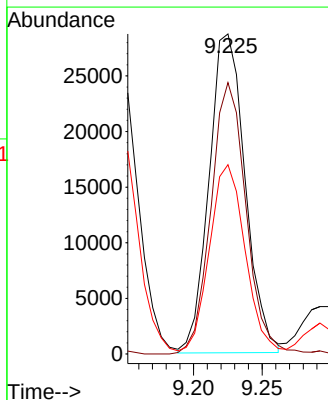
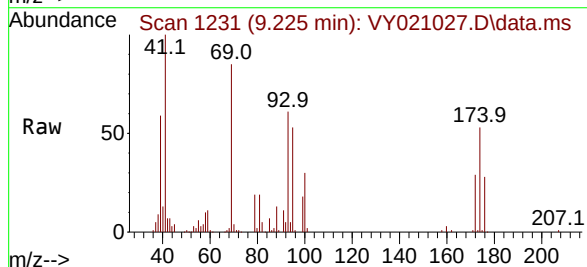
RT: 9.225 min Scan# 1231

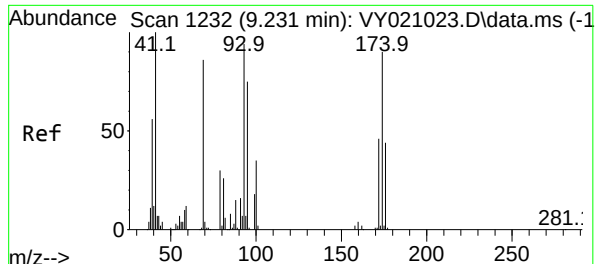
Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion:	41	Resp:	52480
Ion	Ratio	Lower	Upper
41	100		
69	83.0	72.1	108.1
39	57.2	42.8	64.2





#49

1,4-Dioxane

Concen: 1001.398 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion: 88 Resp: 958

Ion Ratio Lower Upper

88 100

43 35.5 28.2 42.4

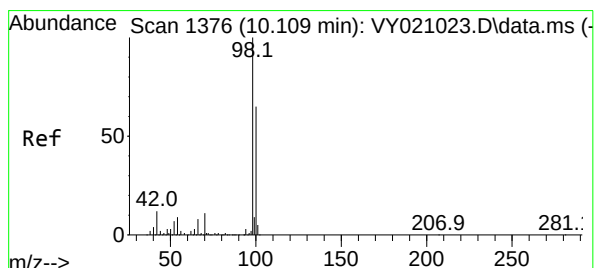
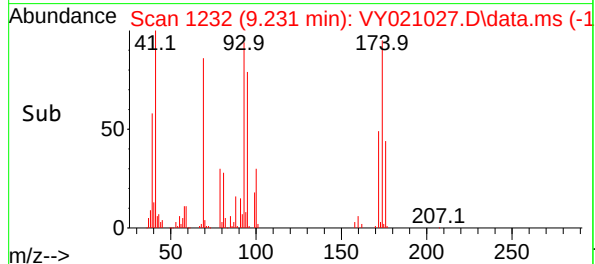
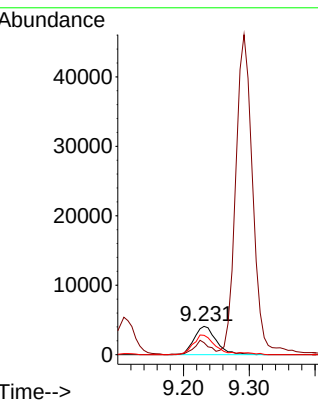
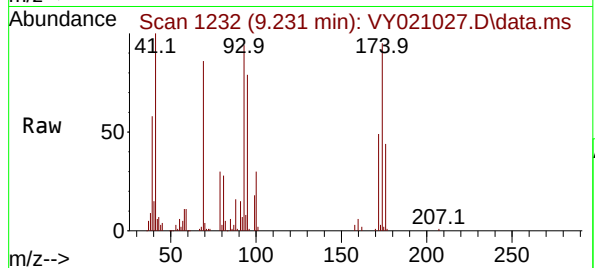
58 66.7 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#50

Toluene-d8

Concen: 59.966 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021027.D

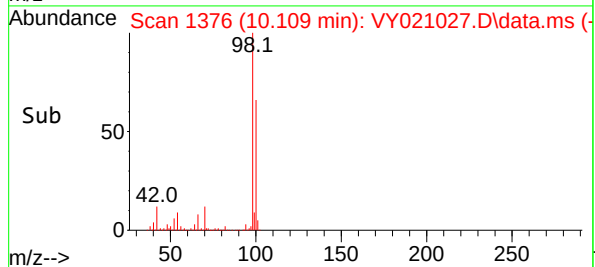
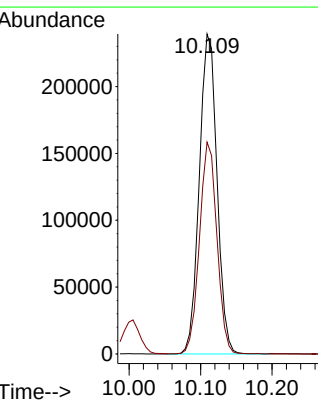
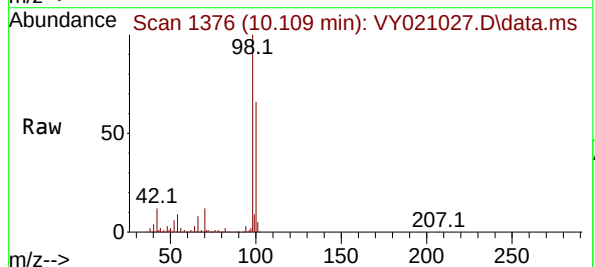
Acq: 03 Feb 2025 13:37

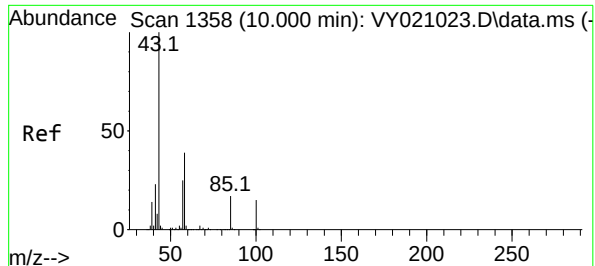
Tgt Ion: 98 Resp: 411045

Ion Ratio Lower Upper

98 100

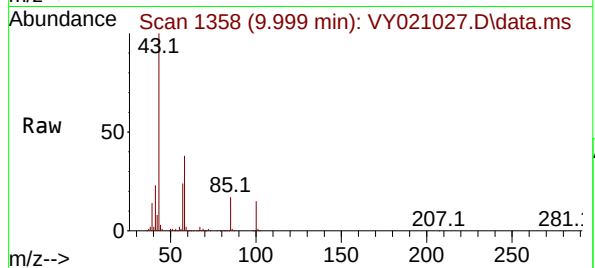
100 65.1 52.3 78.5





#51
4-Methyl-2-Pentanone
Concen: 236.615 ug/l
RT: 9.999 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

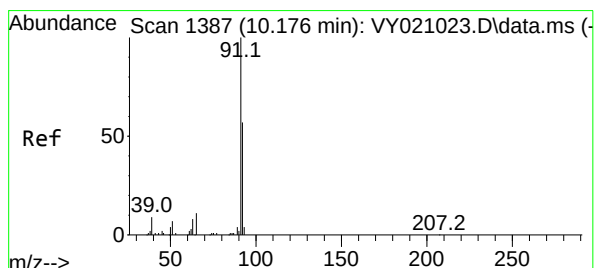
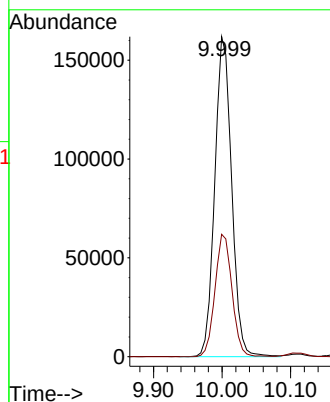
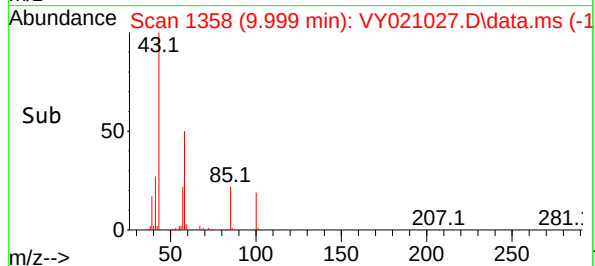
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion: 43 Resp: 276609
Ion Ratio Lower Upper
43 100
58 38.6 32.2 48.2

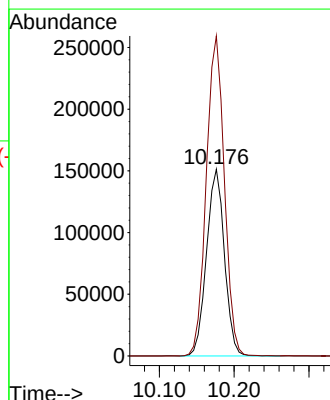
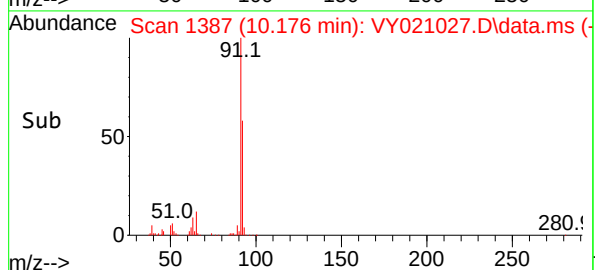
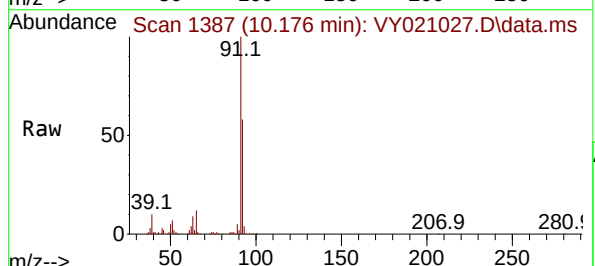
Manual Integrations
APPROVED

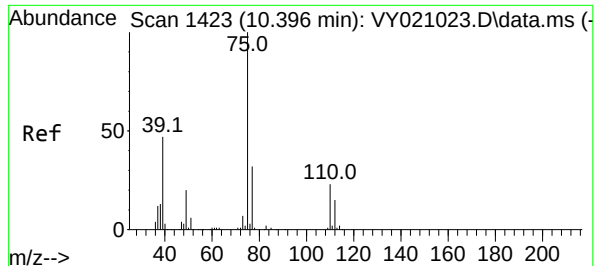
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#52
Toluene
Concen: 51.135 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

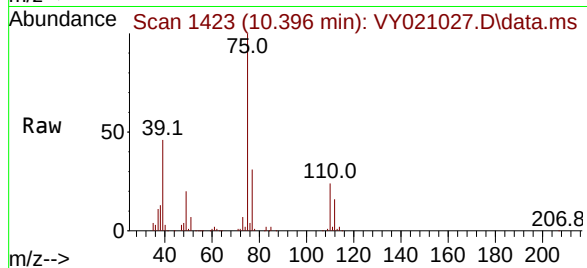
Tgt Ion: 92 Resp: 251287
Ion Ratio Lower Upper
92 100
91 173.2 137.6 206.4





#53
t-1,3-Dichloropropene
Concen: 49.950 ug/l
RT: 10.396 min Scan# 1423
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

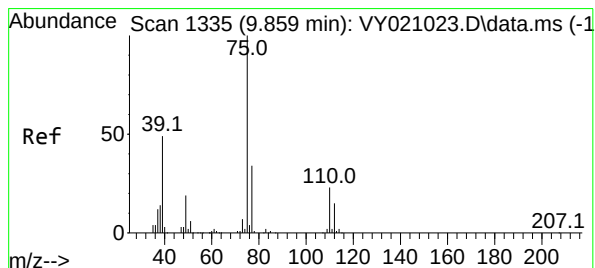
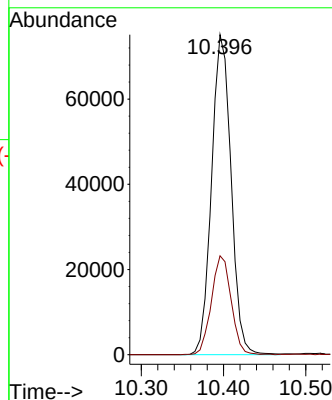
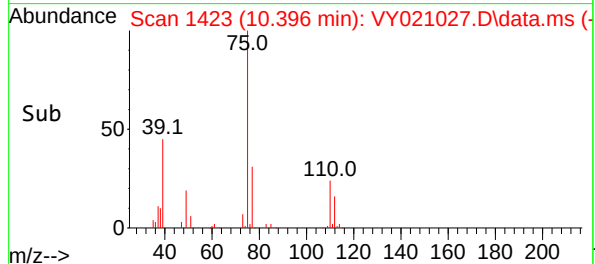
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion: 75 Resp: 123718
Ion Ratio Lower Upper
75 100
77 30.9 24.6 36.8

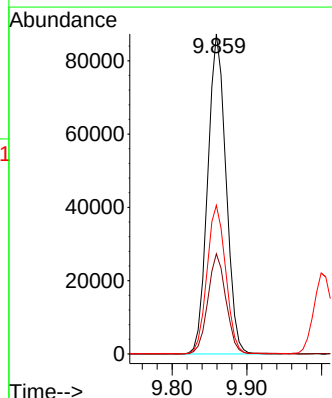
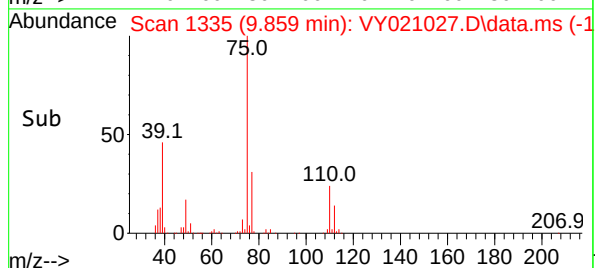
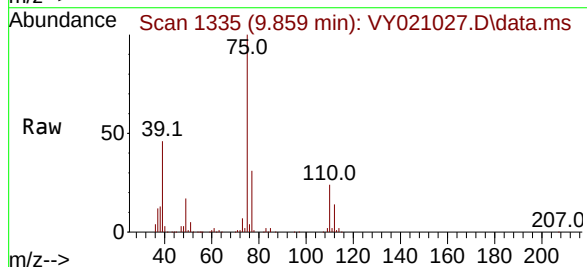
Manual Integrations
APPROVED

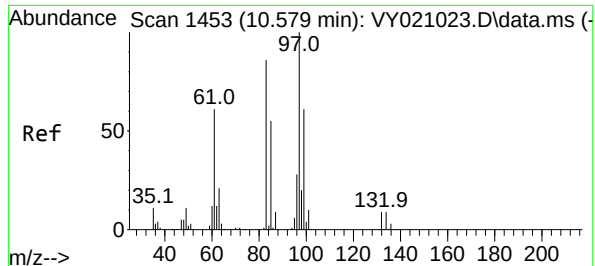
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#54
cis-1,3-Dichloropropene
Concen: 50.550 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion: 75 Resp: 148244
Ion Ratio Lower Upper
75 100
77 31.3 24.6 36.8
39 46.4 33.6 50.4





#55

1,1,2-Trichloroethane

Concen: 46.820 ug/l

RT: 10.579 min Scan# 1453

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion: 97 Resp: 6235

Ion Ratio Lower Upper

97 100

83 87.5 69.4 104.2

85 55.1 43.9 65.9

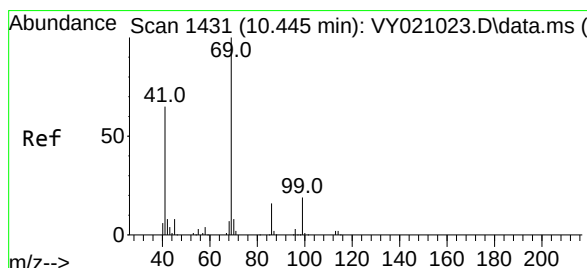
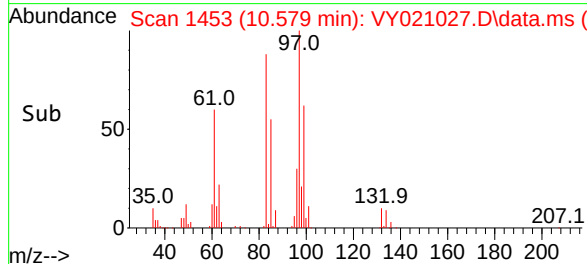
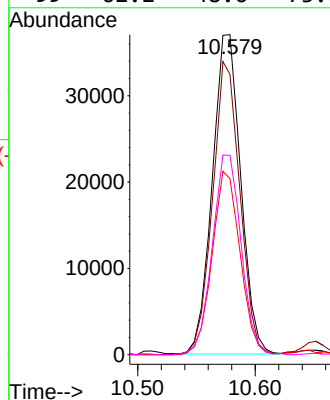
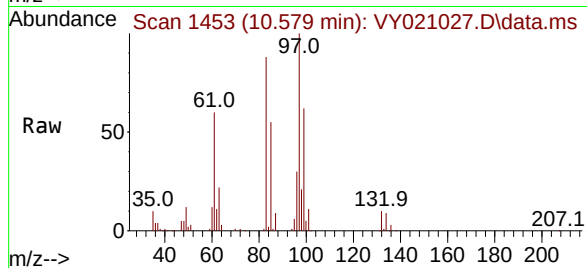
99 62.2 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#56

Ethyl methacrylate

Concen: 49.082 ug/l

RT: 10.444 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

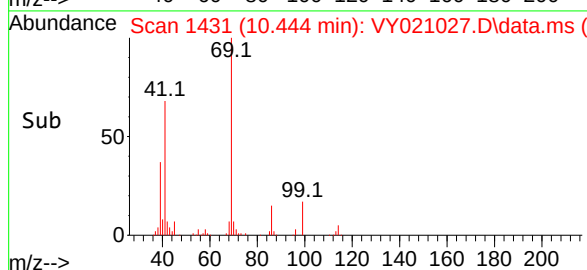
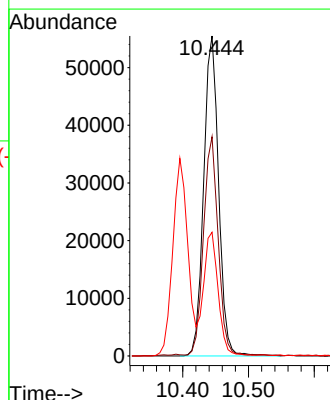
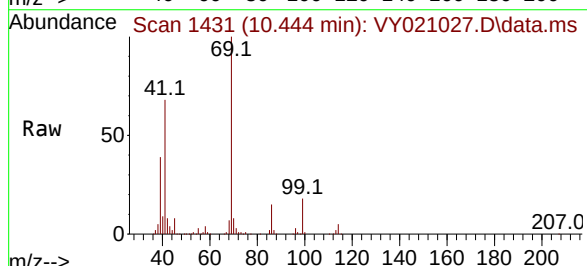
Tgt Ion: 69 Resp: 87450

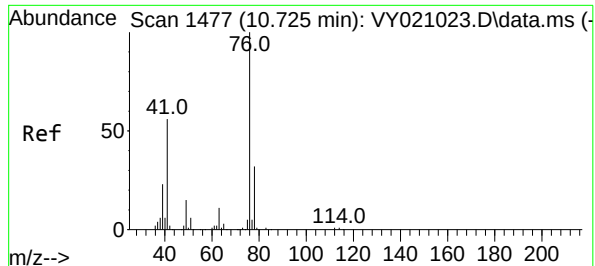
Ion Ratio Lower Upper

69 100

41 66.5 49.2 73.8

39 37.5 26.8 40.2





#57

1,3-Dichloropropane

Concen: 47.980 ug/l

RT: 10.719 min Scan# 1477

Delta R.T. -0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion: 76 Resp: 110600

Ion Ratio Lower Upper

76 100

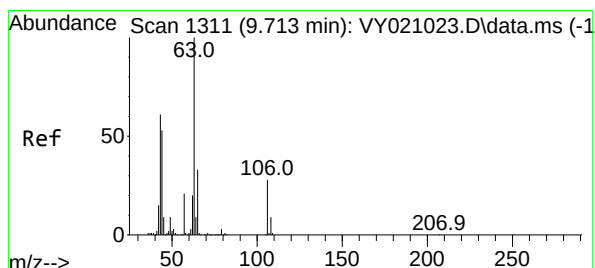
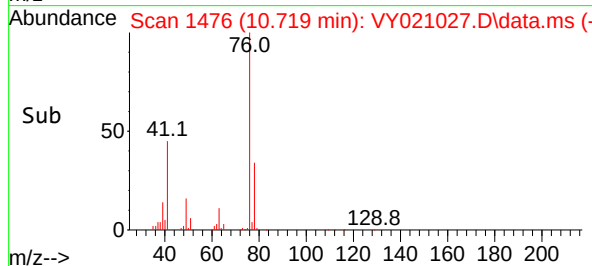
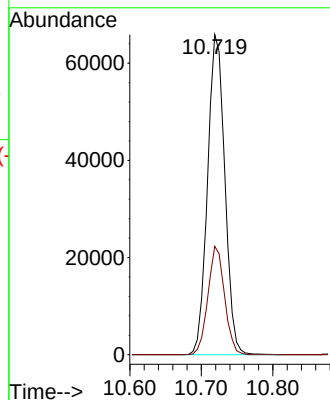
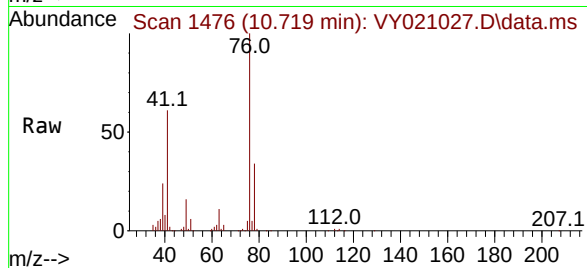
78 32.6 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#58

2-Chloroethyl Vinyl ether

Concen: 251.852 ug/l

RT: 9.713 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VY021027.D

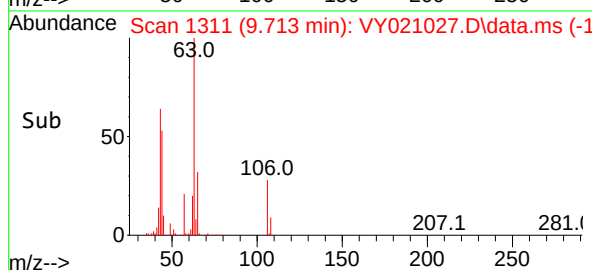
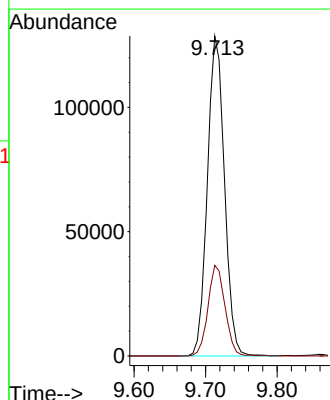
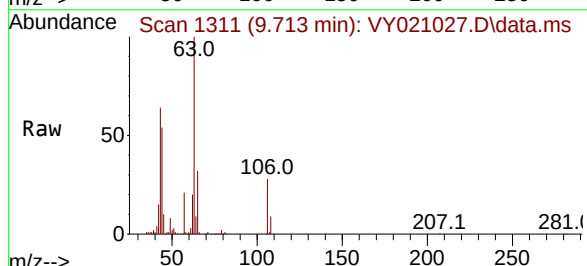
Acq: 03 Feb 2025 13:37

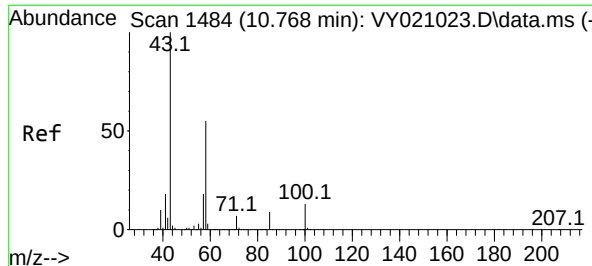
Tgt Ion: 63 Resp: 213481

Ion Ratio Lower Upper

63 100

106 28.3 22.4 33.6





#59

2-Hexanone

Concen: 239.750 ug/l

RT: 10.761 min Scan# 1483

Delta R.T. -0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion: 43 Resp: 18045

Ion Ratio Lower Upper

43 100

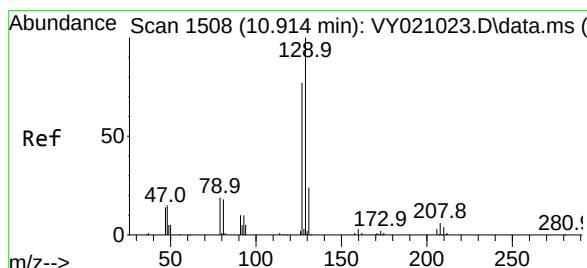
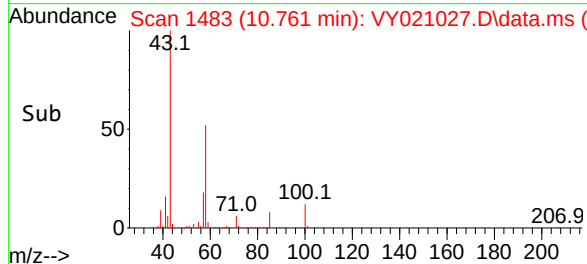
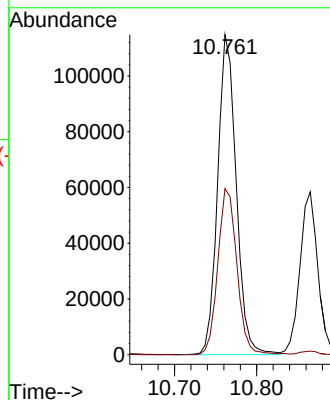
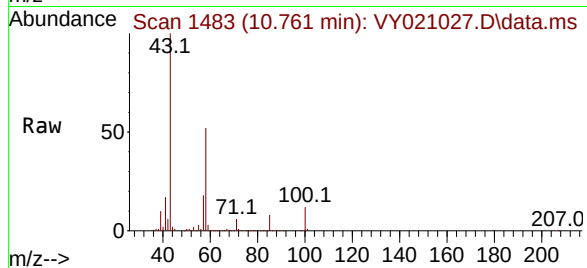
58 53.5 28.1 84.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#60

Dibromochloromethane

Concen: 48.123 ug/l

RT: 10.914 min Scan# 1508

Delta R.T. -0.000 min

Lab File: VY021027.D

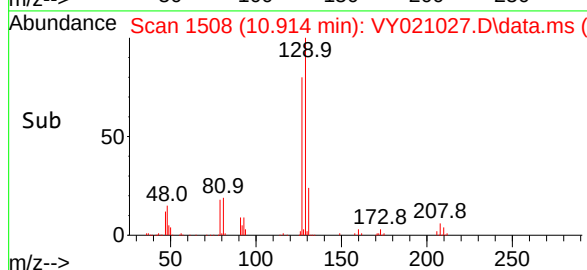
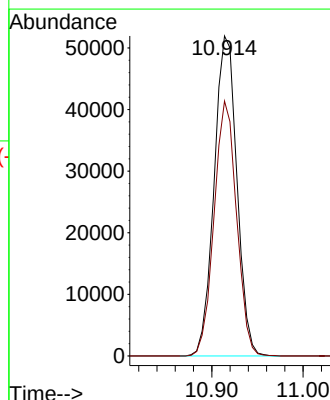
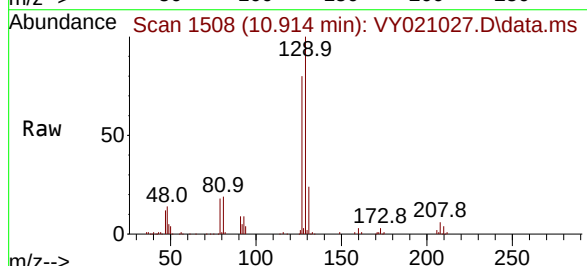
Acq: 03 Feb 2025 13:37

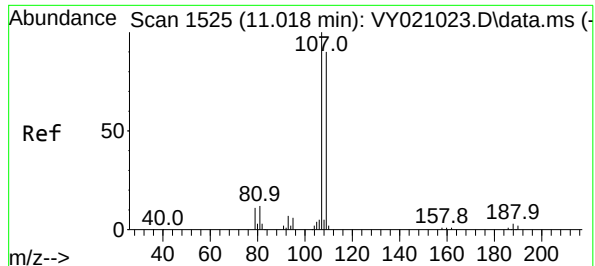
Tgt Ion:129 Resp: 90009

Ion Ratio Lower Upper

129 100

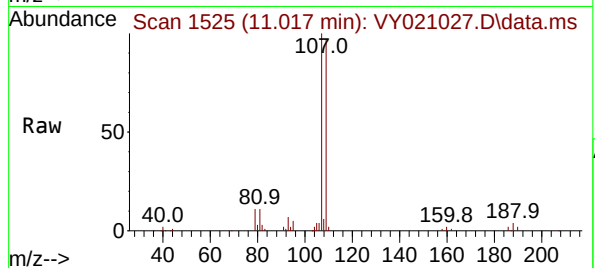
127 78.6 39.2 117.6





#61
1,2-Dibromoethane
Concen: 47.325 ug/l
RT: 11.017 min Scan# 1525
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

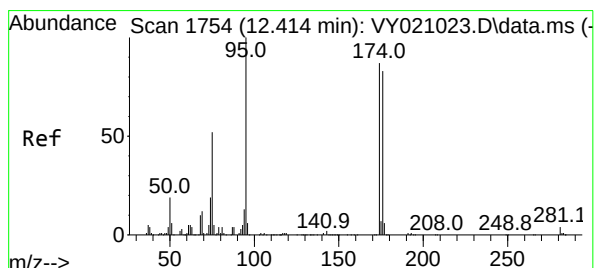
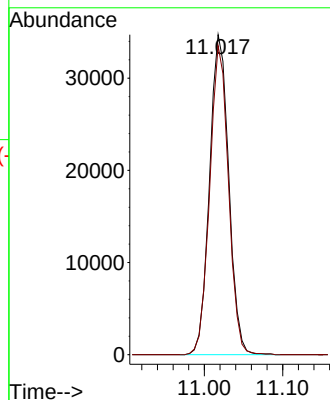
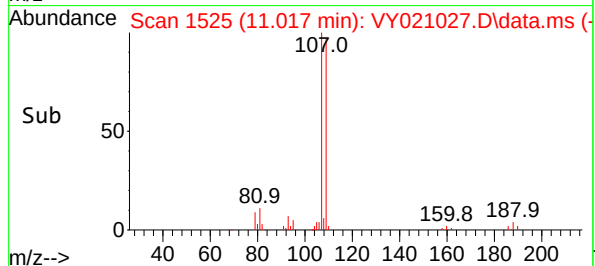
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion:107 Resp: 59039
Ion Ratio Lower Upper
107 100
109 94.5 75.4 113.2

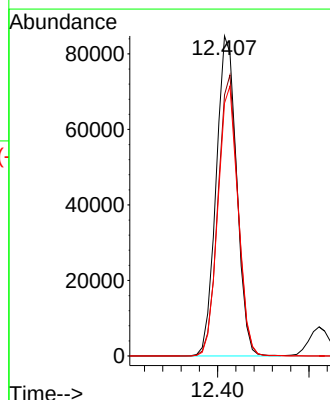
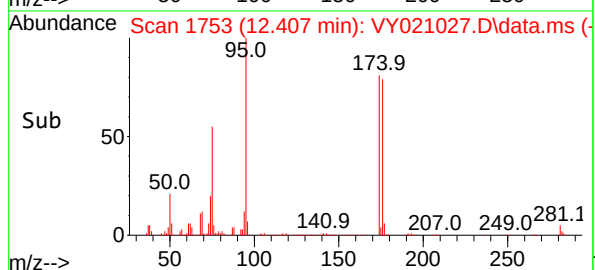
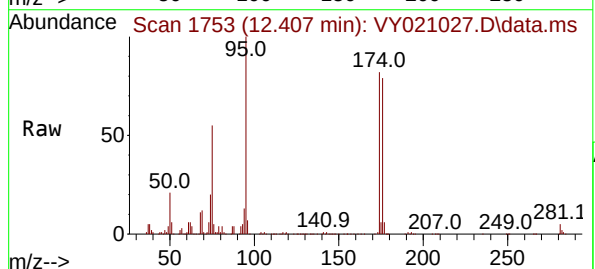
Manual Integrations
APPROVED

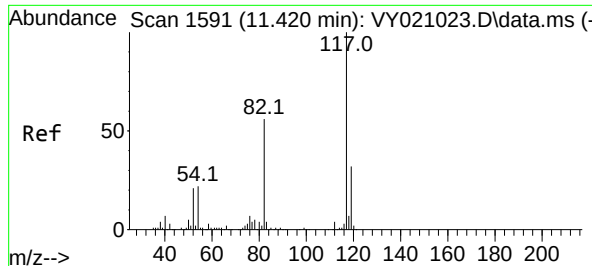
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#62
4-Bromofluorobenzene
Concen: 58.919 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion: 95 Resp: 131943
Ion Ratio Lower Upper
95 100
174 85.5 0.0 160.0
176 83.2 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion:117 Resp: 237569

Ion Ratio Lower Upper

117 100

82 54.9 43.8 65.8

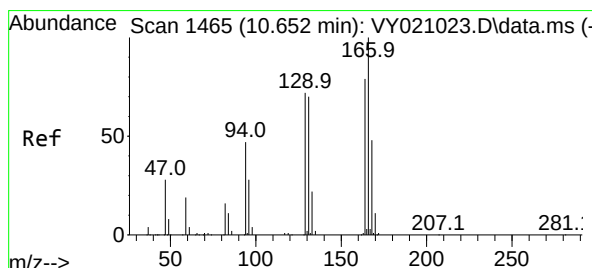
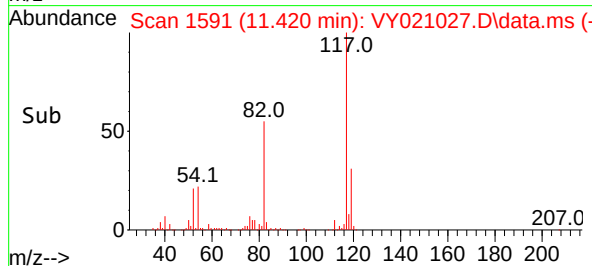
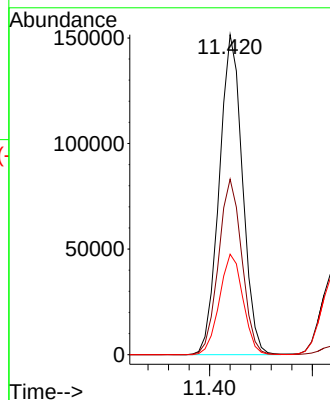
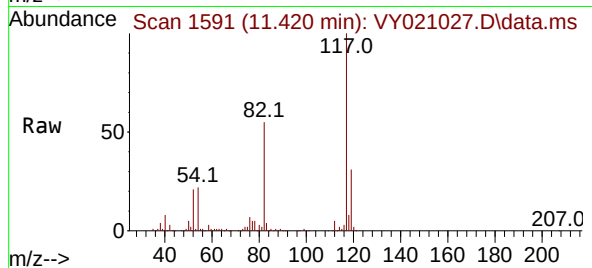
119 31.4 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#64

Tetrachloroethene

Concen: 52.446 ug/l

RT: 10.652 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion:164 Resp: 92493

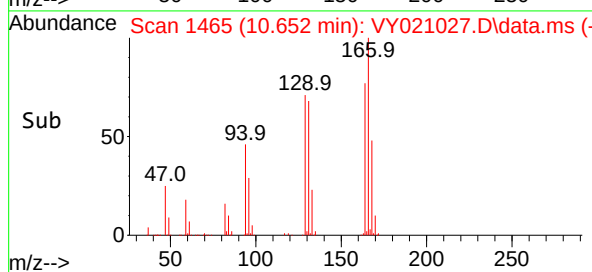
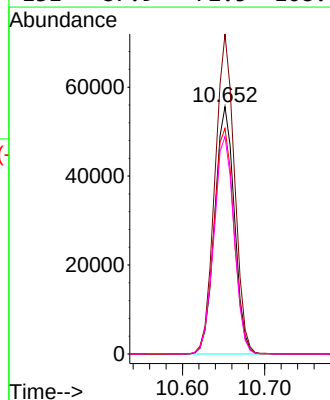
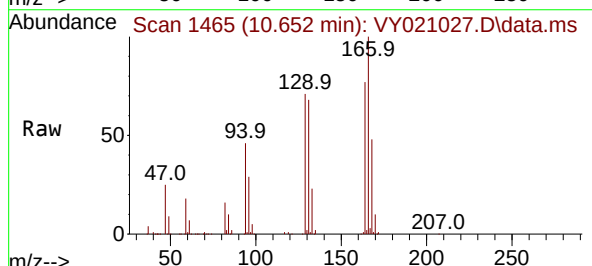
Ion Ratio Lower Upper

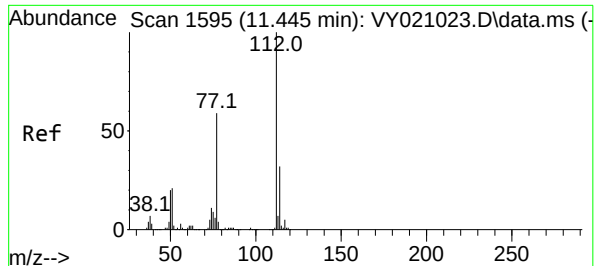
164 100

166 129.4 98.8 148.2

129 91.2 78.9 118.3

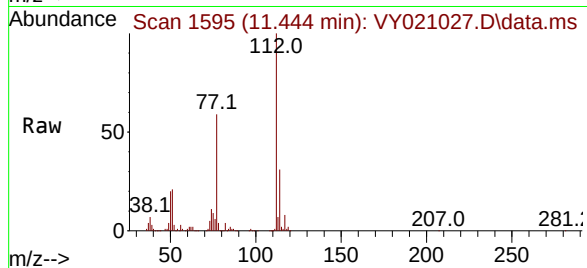
131 87.9 72.5 108.7





#65
Chlorobenzene
Concen: 50.766 ug/l
RT: 11.444 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

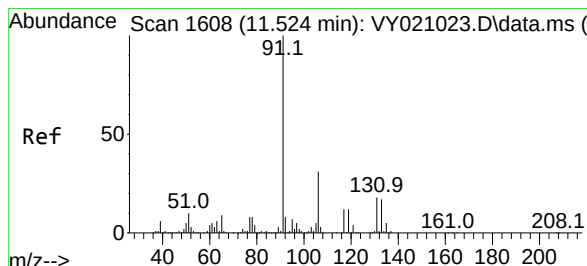
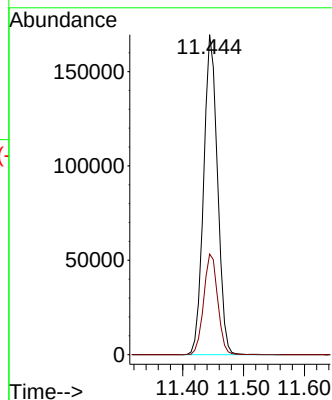
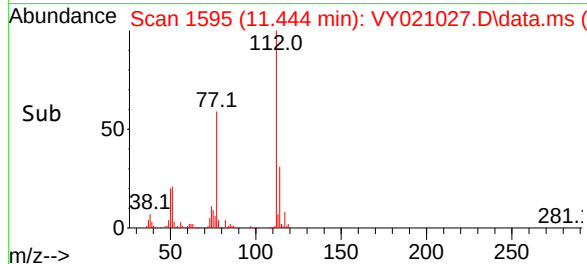
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion:112 Resp: 268544
Ion Ratio Lower Upper
112 100
114 31.5 26.1 39.1

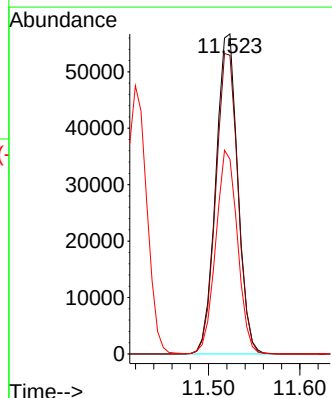
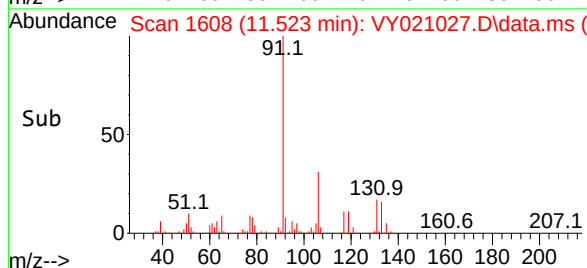
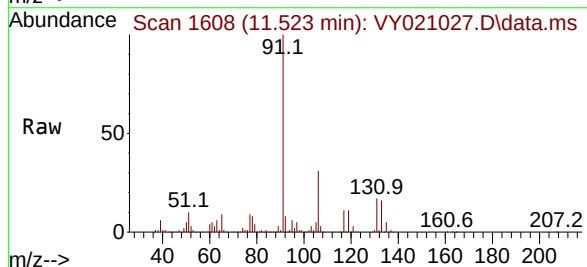
Manual Integrations
APPROVED

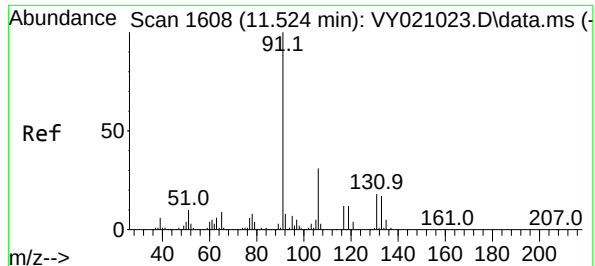
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 50.356 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion:131 Resp: 94662
Ion Ratio Lower Upper
131 100
133 94.7 47.0 141.0
119 63.3 33.3 99.9





#67

Ethyl Benzene

Concen: 52.642 ug/l

RT: 11.523 min Scan# 1608

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion: 91 Resp: 49253

Ion Ratio Lower Upper

91 100

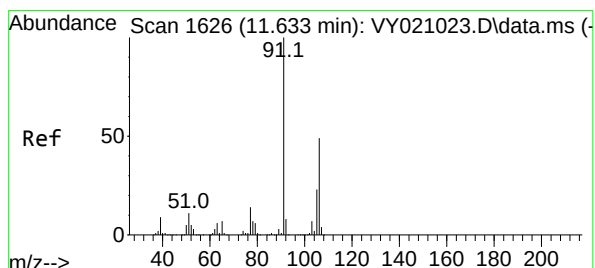
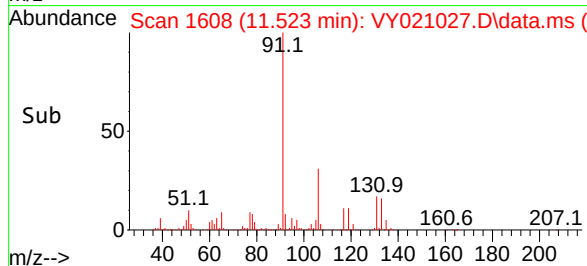
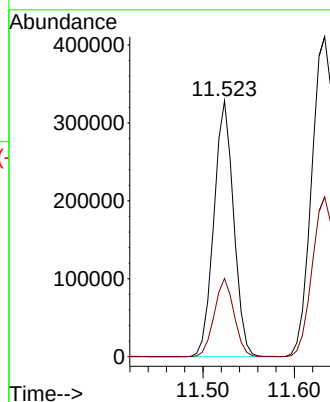
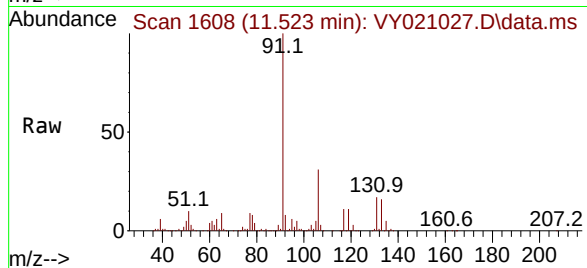
106 30.6 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#68

m/p-Xylenes

Concen: 104.978 ug/l

RT: 11.633 min Scan# 1626

Delta R.T. -0.000 min

Lab File: VY021027.D

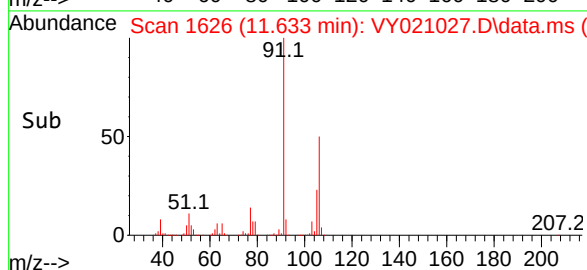
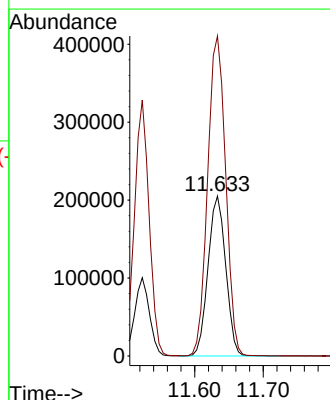
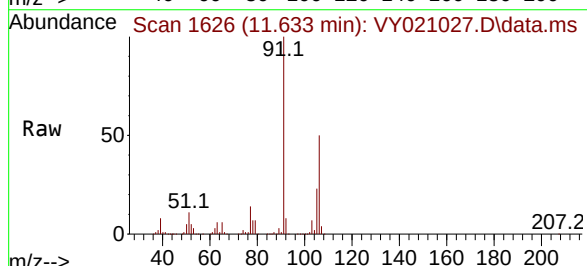
Acq: 03 Feb 2025 13:37

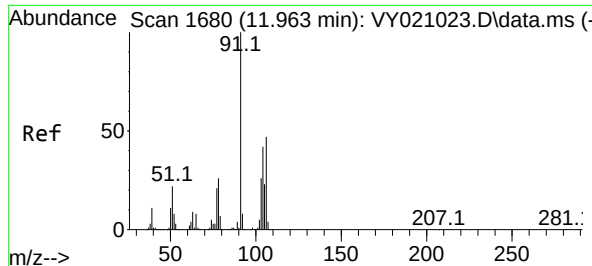
Tgt Ion:106 Resp: 367445

Ion Ratio Lower Upper

106 100

91 204.0 160.7 241.1





#69

o-Xylene

Concen: 52.062 ug/l

RT: 11.956 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVY020325

Tgt Ion:106 Resp: 16989

Ion Ratio Lower Upper

106 100

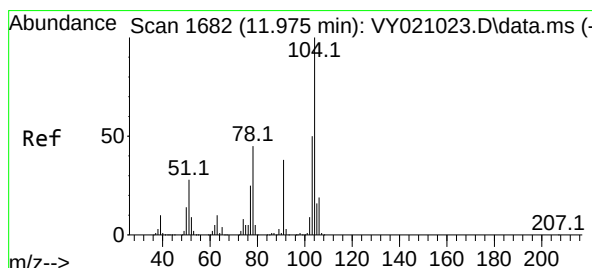
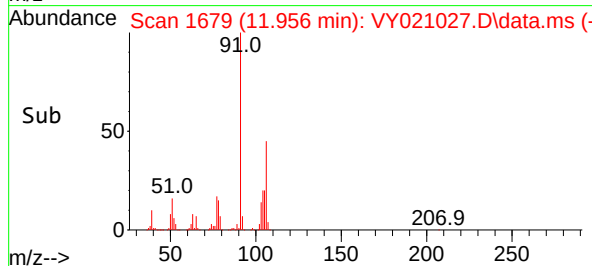
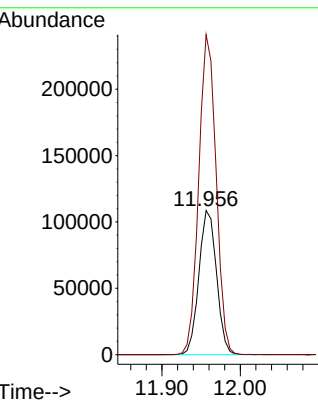
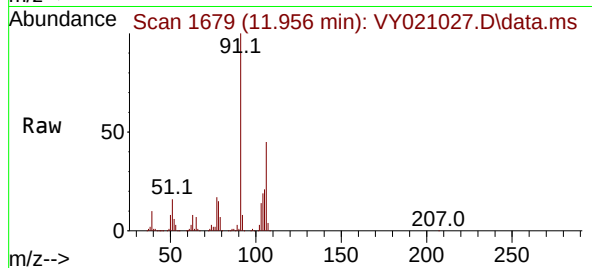
91 218.5 106.5 319.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#70

Styrene

Concen: 52.009 ug/l

RT: 11.975 min Scan# 1682

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

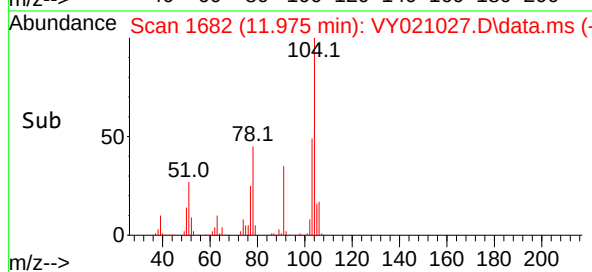
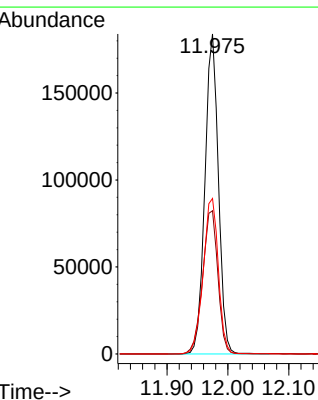
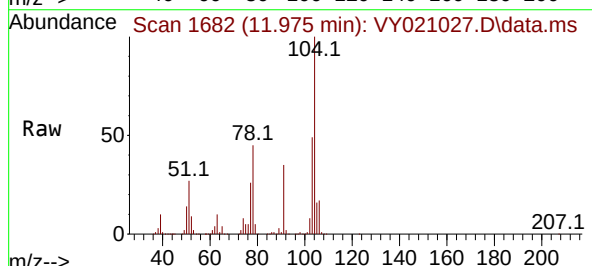
Tgt Ion:104 Resp: 282879

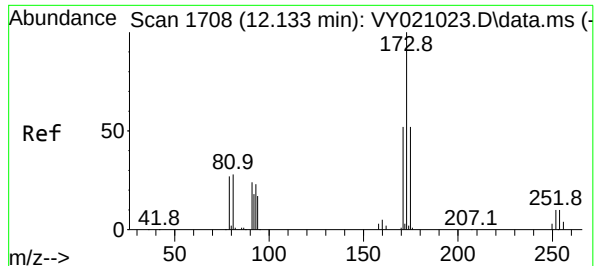
Ion Ratio Lower Upper

104 100

78 50.8 39.2 58.8

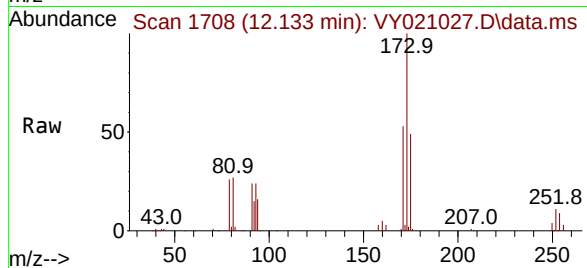
103 54.5 43.8 65.6





#71
Bromoform
Concen: 48.166 ug/l
RT: 12.133 min Scan# 1708
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

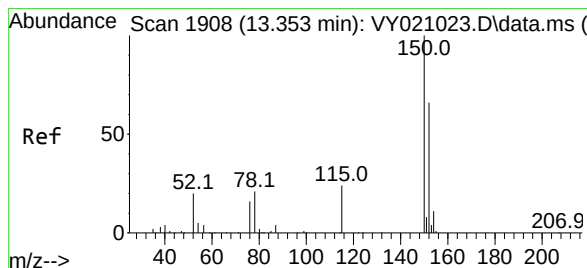
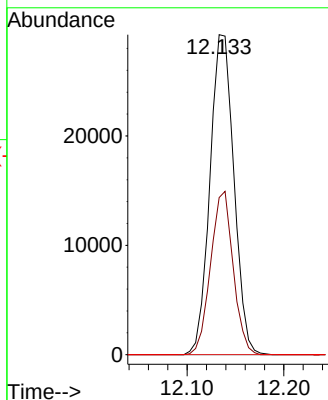
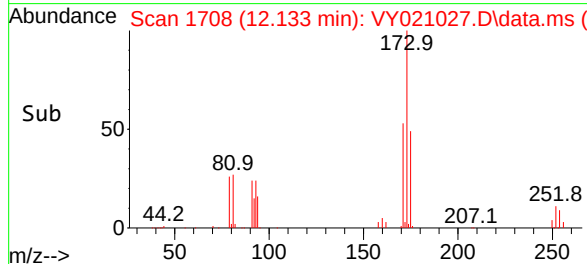
Instrument :
MSVOA_Y
ClientSampleId :
ICVY020325



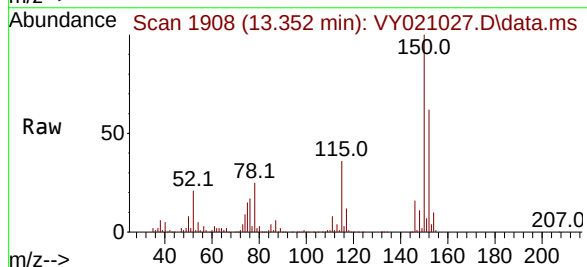
Tgt Ion:173 Resp: 50400
Ion Ratio Lower Upper
173 100
175 48.0 23.5 70.6
254 0.0 0.0 0.0

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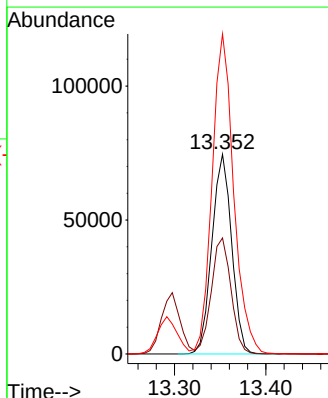
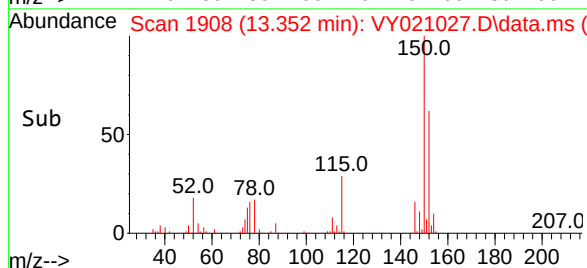
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

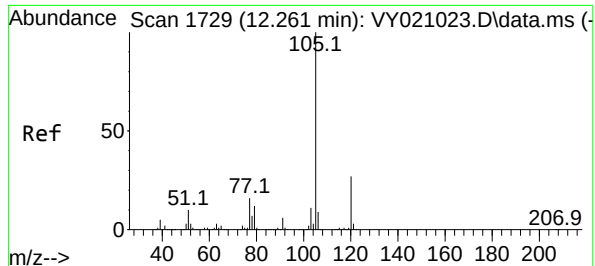


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37



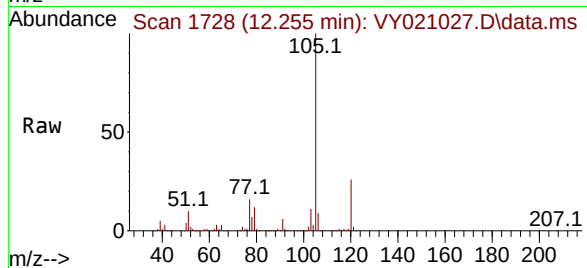
Tgt Ion:152 Resp: 112062
Ion Ratio Lower Upper
152 100
115 58.0 30.0 90.0
150 175.2 0.0 344.6





#73
Isopropylbenzene
Concen: 53.377 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

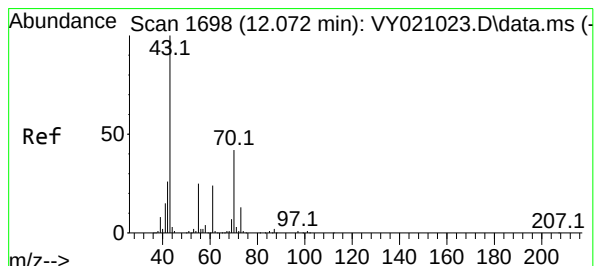
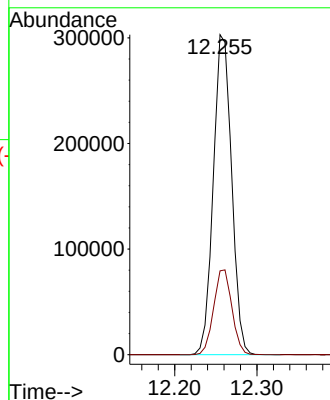
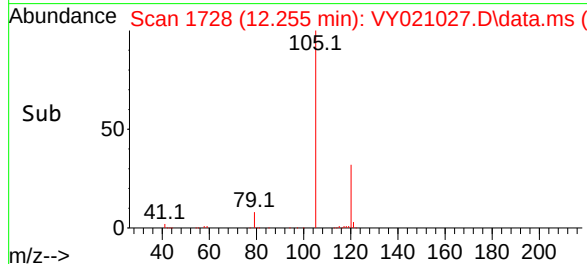
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion:105 Resp: 46724
Ion Ratio Lower Upper
105 100
120 26.5 13.0 39.0

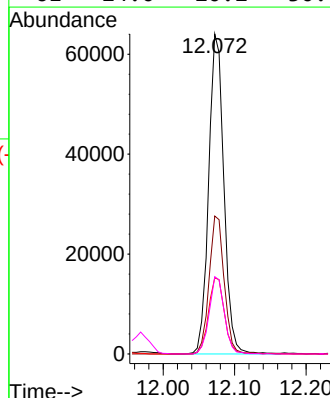
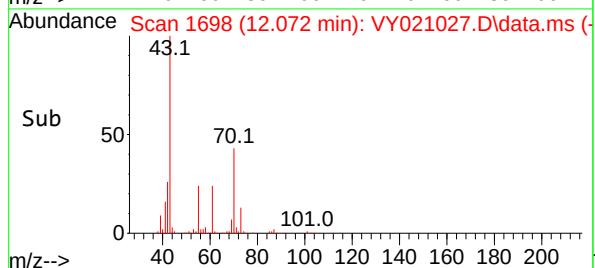
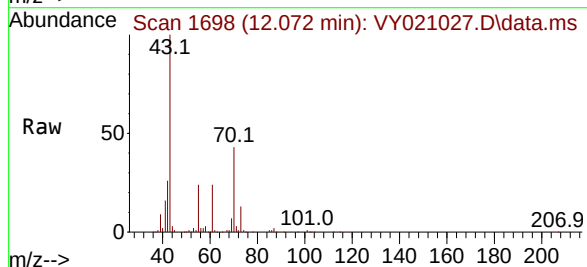
Manual Integrations
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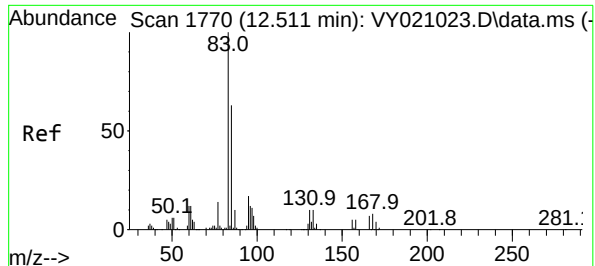
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#74
N-ethyl acetate
Concen: 49.483 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion: 43 Resp: 94701
Ion Ratio Lower Upper
43 100
70 42.8 36.6 55.0
55 24.9 22.2 33.4
61 24.0 20.2 30.4





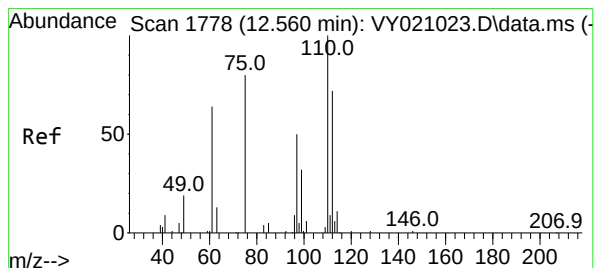
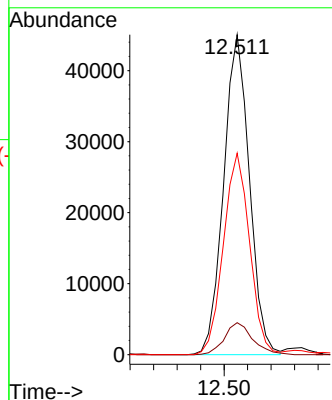
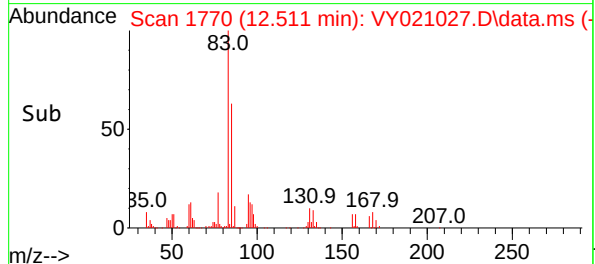
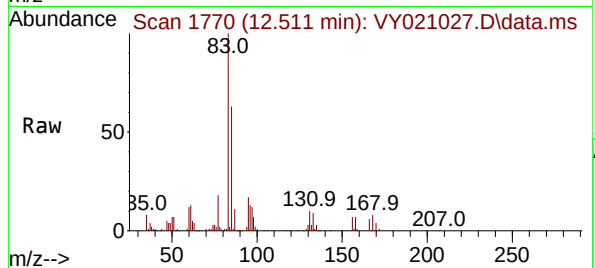
#75
1,1,2,2-Tetrachloroethane
Concen: 47.145 ug/l
RT: 12.511 min Scan# 1770
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Tgt Ion: 83 Resp: 68630
Ion Ratio Lower Upper
83 100
131 10.9 4.9 14.6
85 64.0 32.6 98.0

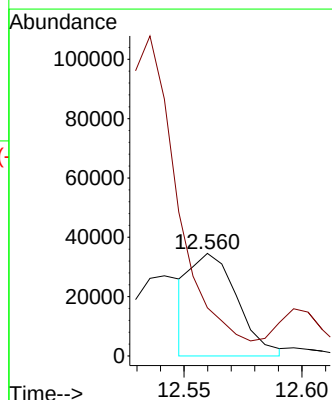
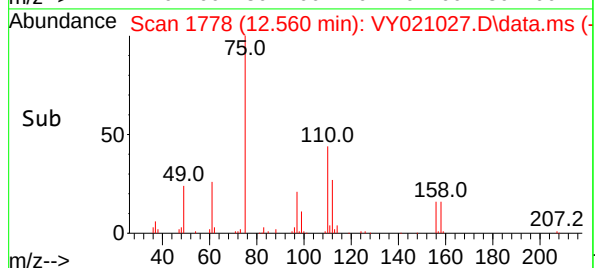
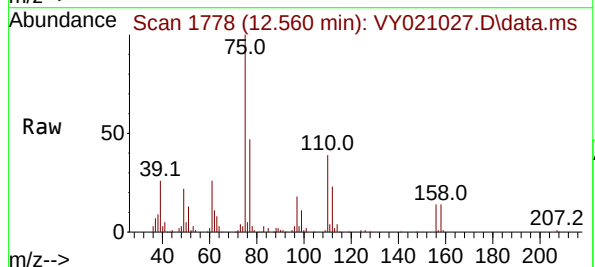
Manual Integrations
APPROVED

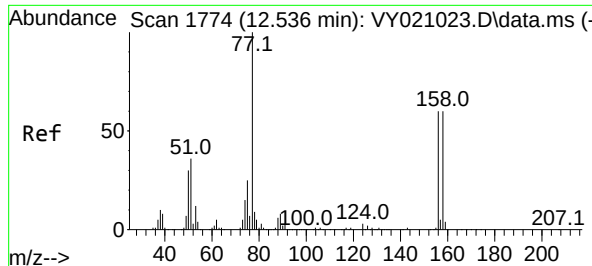
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#76
1,2,3-Trichloropropane
Concen: 47.207 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

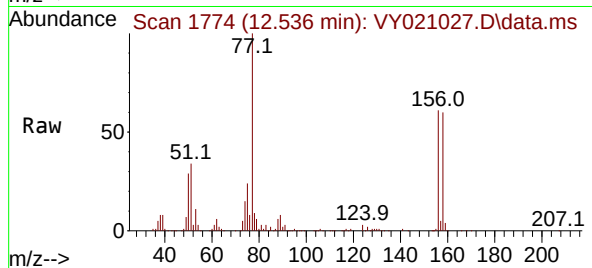
Tgt Ion: 75 Resp: 47988
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#77
Bromobenzene
Concen: 50.490 ug/l
RT: 12.536 min Scan# 1774
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

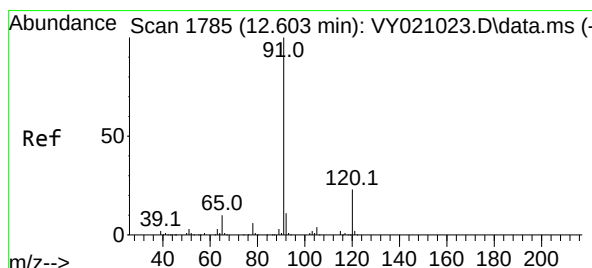
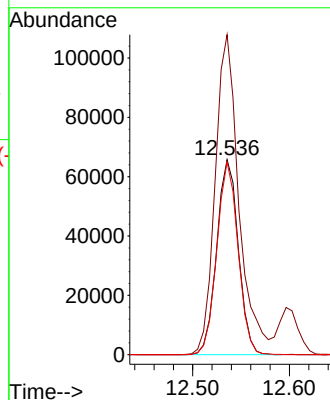
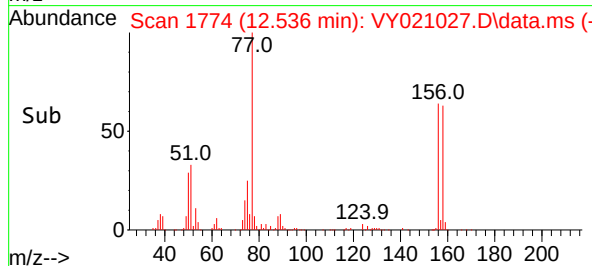
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion: 156 Resp: 10199
Ion Ratio Lower Upper
156 100
77 179.9 97.3 291.8
158 96.9 48.4 145.0

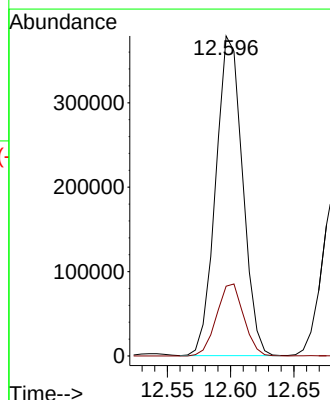
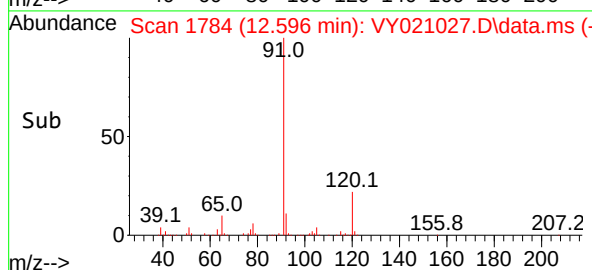
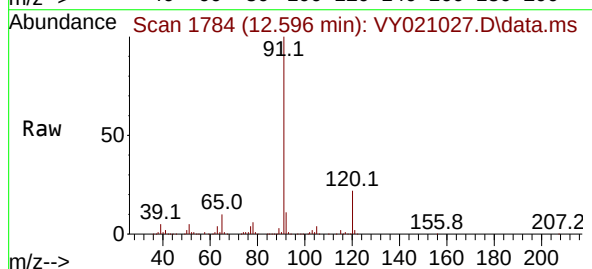
Manual Integrations
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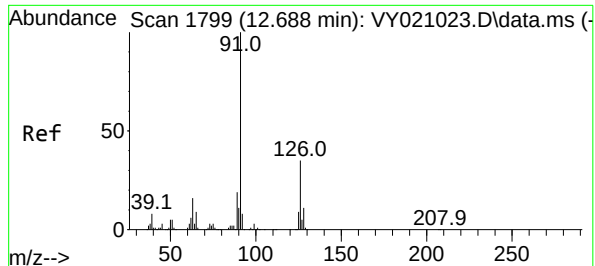
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#78
n-propylbenzene
Concen: 53.513 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

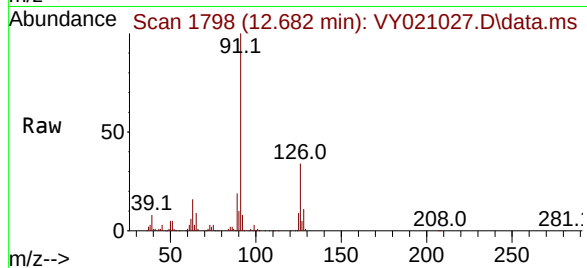
Tgt Ion: 91 Resp: 558013
Ion Ratio Lower Upper
91 100
120 22.8 11.0 33.0





#79
2-Chlorotoluene
Concen: 51.922 ug/l
RT: 12.682 min Scan# 1799
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

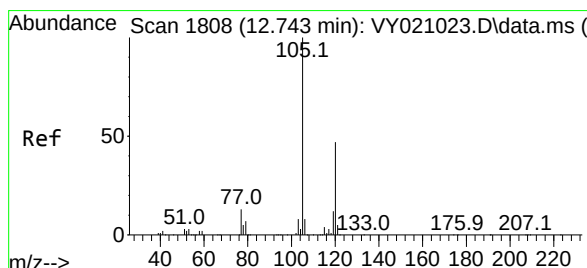
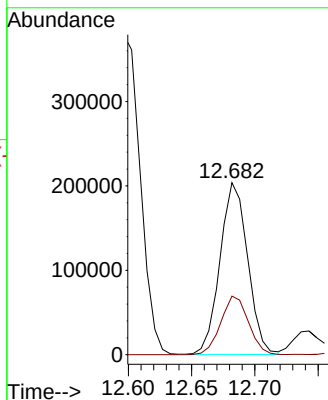
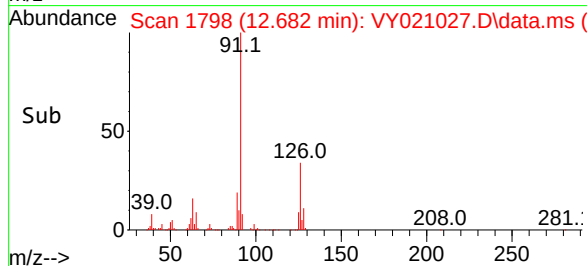
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion: 91 Resp: 31009
Ion Ratio Lower Upper
91 100
126 34.1 17.0 51.0

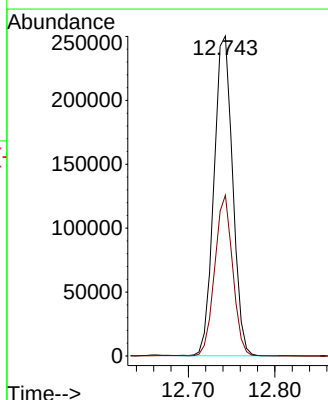
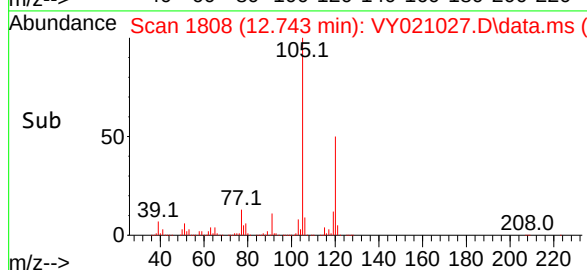
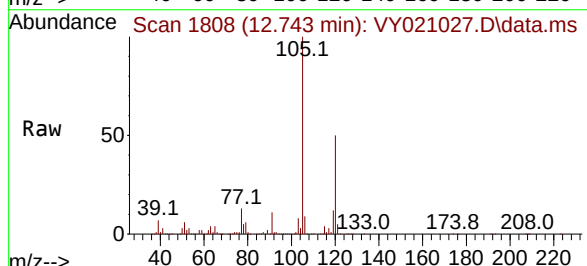
Manual Integrations
APPROVED

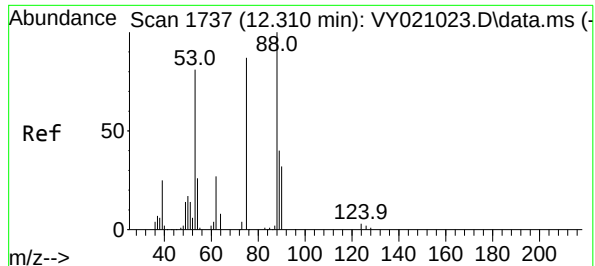
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#80
1,3,5-Trimethylbenzene
Concen: 52.840 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion:105 Resp: 375018
Ion Ratio Lower Upper
105 100
120 48.1 24.3 72.8





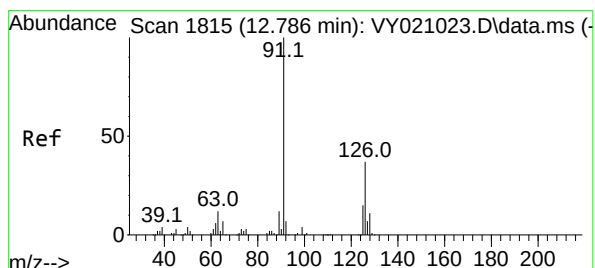
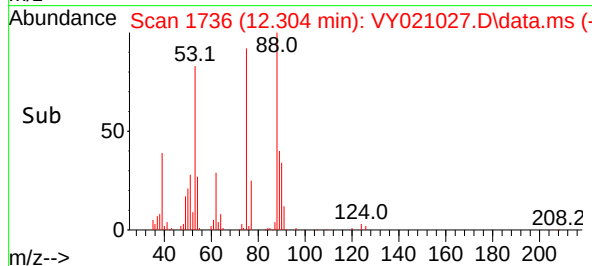
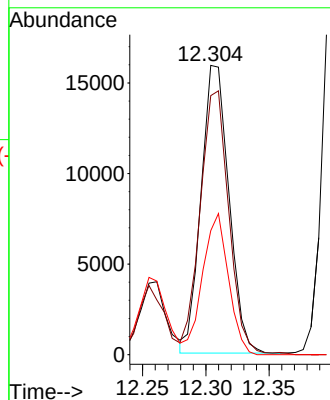
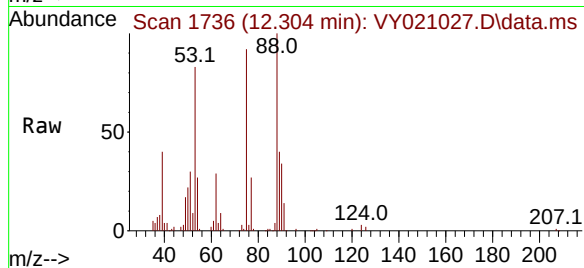
#81
trans-1,4-Dichloro-2-butene
Concen: 48.841 ug/l
RT: 12.304 min Scan# 1736
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Tgt Ion: 75 Resp: 2433
Ion Ratio Lower Upper
75 100
53 94.8 74.0 111.0
89 45.9 36.5 54.7

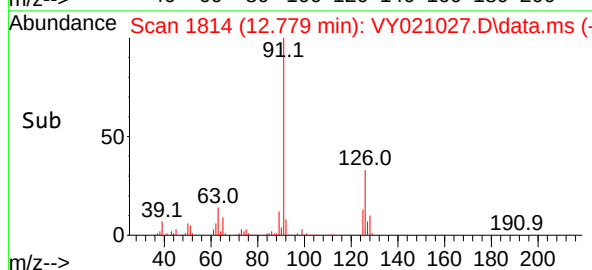
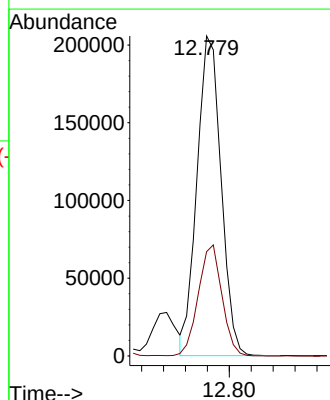
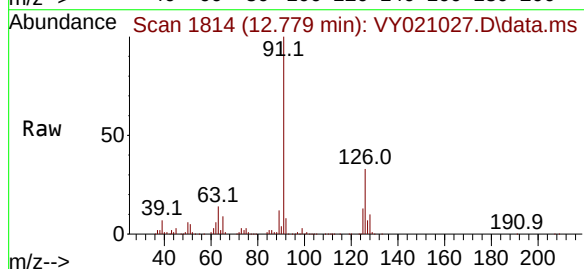
Manual Integrations
APPROVED

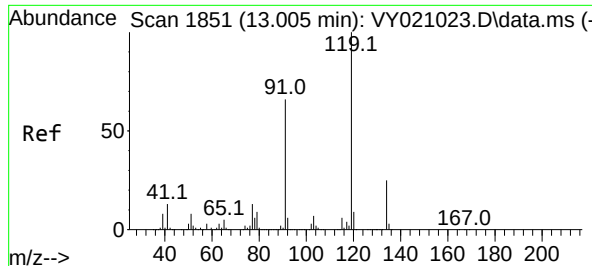
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#82
4-Chlorotoluene
Concen: 51.594 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.006 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion: 91 Resp: 313949
Ion Ratio Lower Upper
91 100
126 34.3 17.1 51.2





#83

tert-Butylbenzene

Concen: 53.952 ug/l

RT: 13.005 min Scan# 1851

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY020325

Tgt Ion:119 Resp: 348040

Ion Ratio Lower Upper

119 100

91 63.9 31.5 94.5

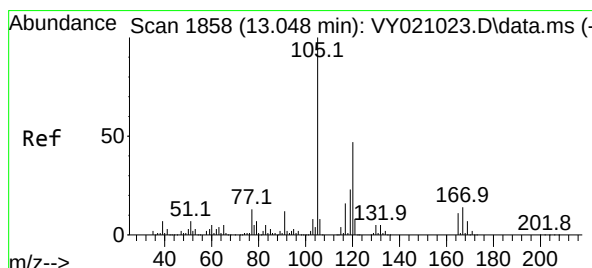
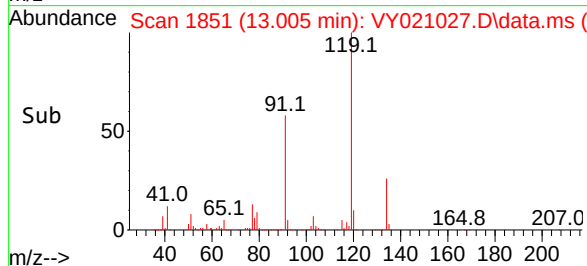
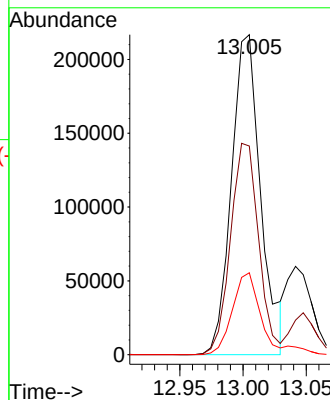
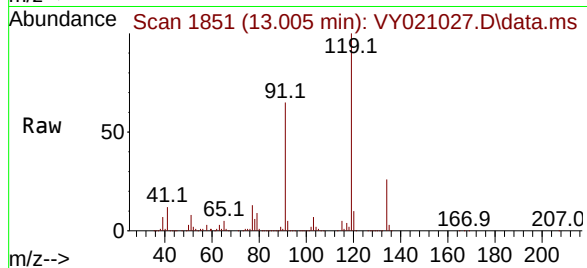
134 25.9 13.1 39.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#84

1,2,4-Trimethylbenzene

Concen: 53.370 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. -0.000 min

Lab File: VY021027.D

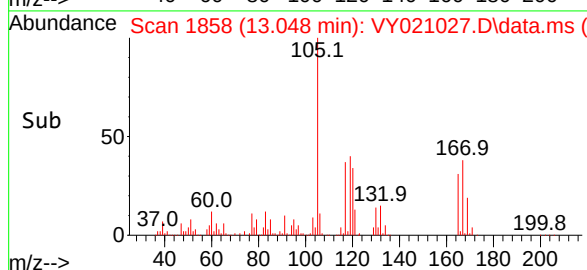
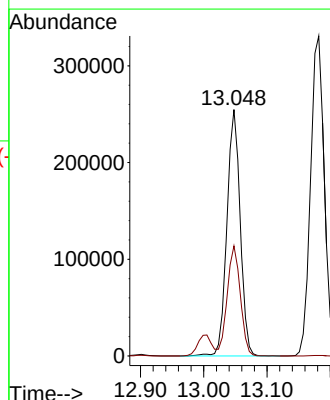
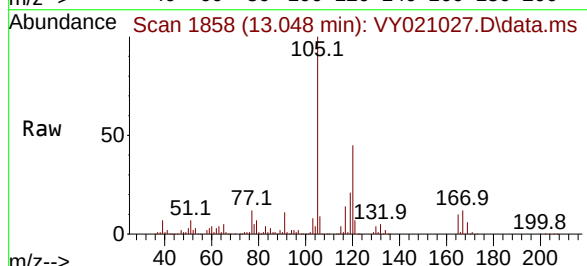
Acq: 03 Feb 2025 13:37

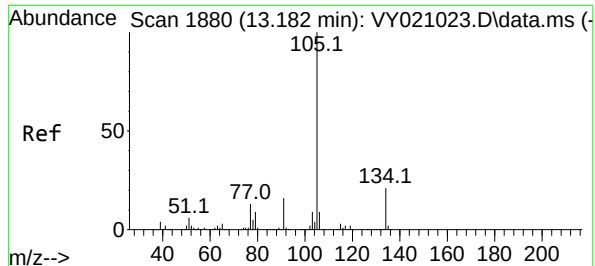
Tgt Ion:105 Resp: 370353

Ion Ratio Lower Upper

105 100

120 43.8 22.1 66.3





#85

sec-Butylbenzene

Concen: 53.301 ug/l

RT: 13.182 min Scan# 1880

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVY020325

Tgt Ion:105 Resp: 49495

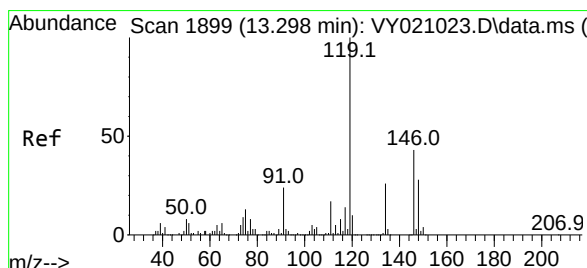
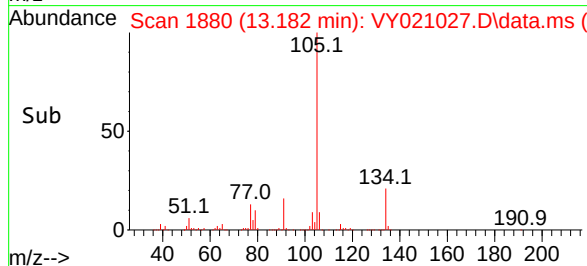
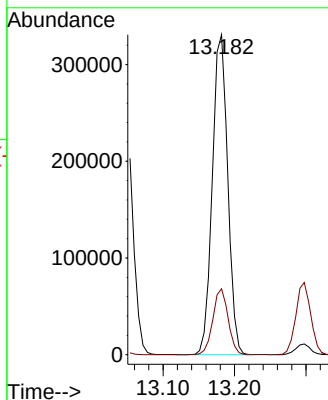
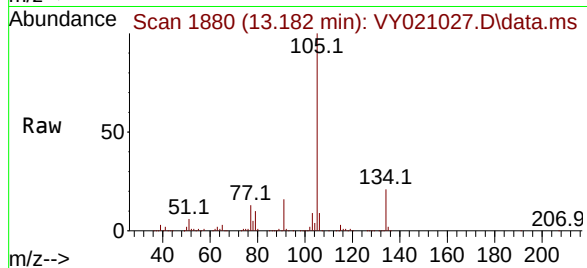
Ion Ratio Lower Upper

105 100

134 20.3 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#86

p-Isopropyltoluene

Concen: 53.325 ug/l

RT: 13.298 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

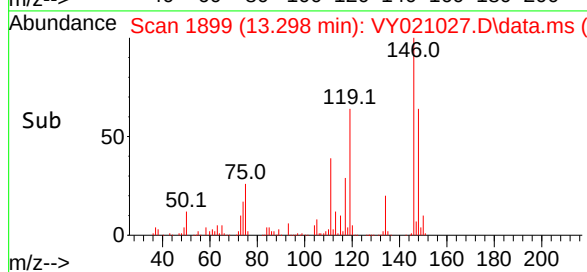
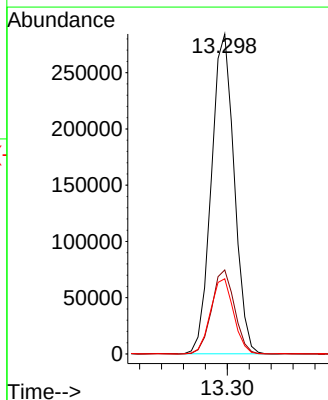
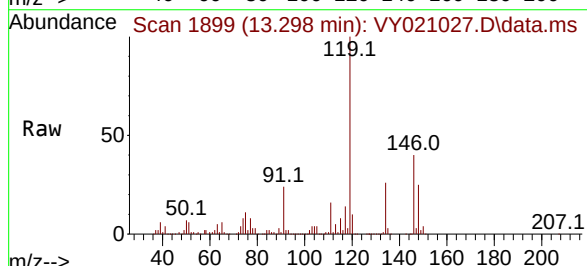
Tgt Ion:119 Resp: 411332

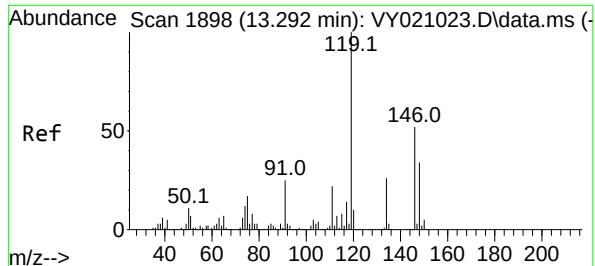
Ion Ratio Lower Upper

119 100

134 26.3 13.1 39.1

91 23.7 11.7 35.0





#87

1,3-Dichlorobenzene

Concen: 50.868 ug/l

RT: 13.291 min Scan# 1898

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

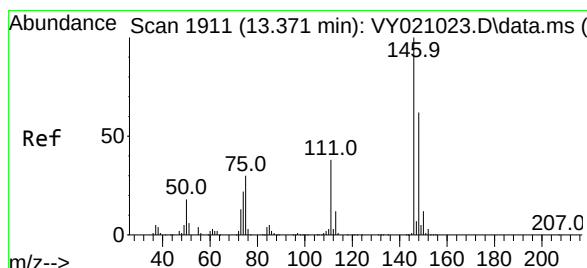
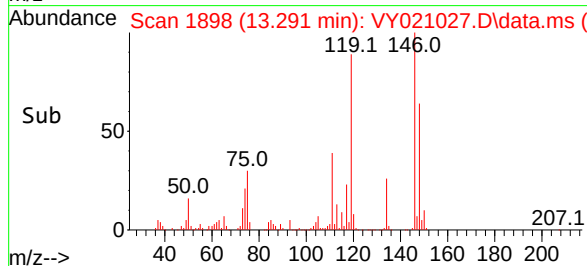
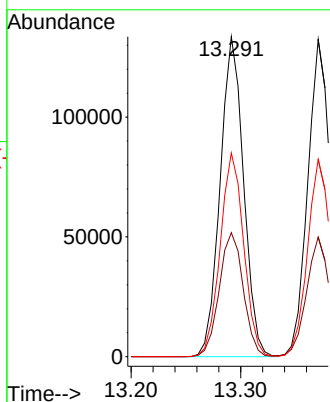
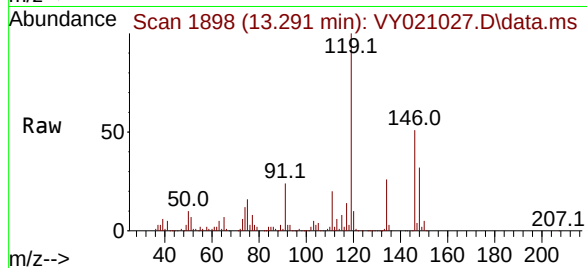
ClientSampleId :

ICVY020325

Tgt Ion:146	Resp:	19840
Ion Ratio	Lower	Upper
146	100	
111	39.7	20.2 60.5
148	63.8	31.9 95.9

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 50.309 ug/l

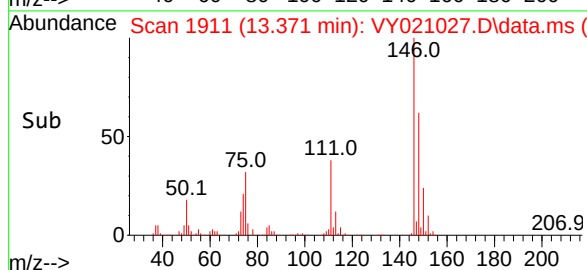
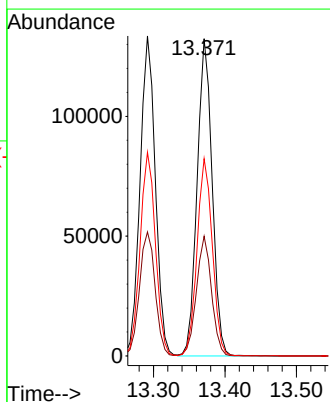
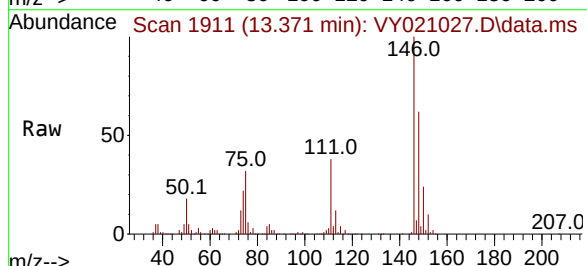
RT: 13.371 min Scan# 1911

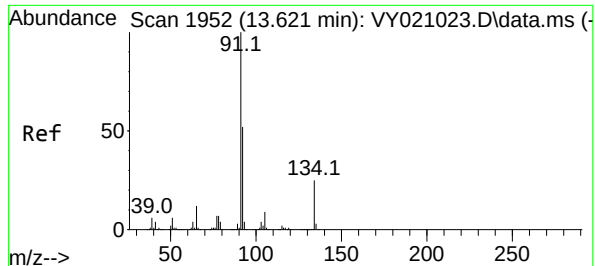
Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion:146	Resp:	193207
Ion Ratio	Lower	Upper
146	100	
111	38.1	19.3 57.9
148	63.4	31.6 94.7





#89

n-Butylbenzene

Concen: 54.636 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

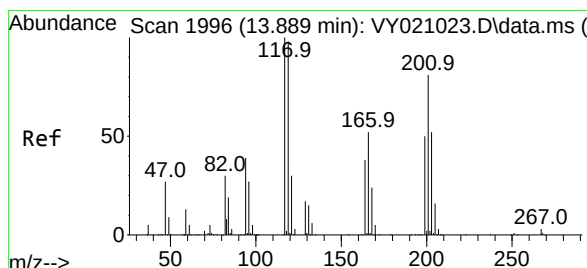
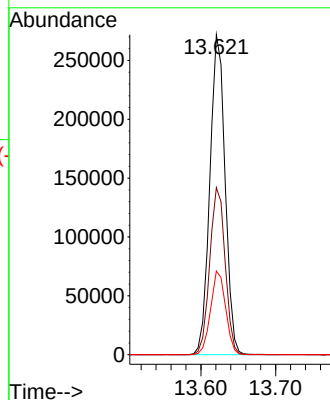
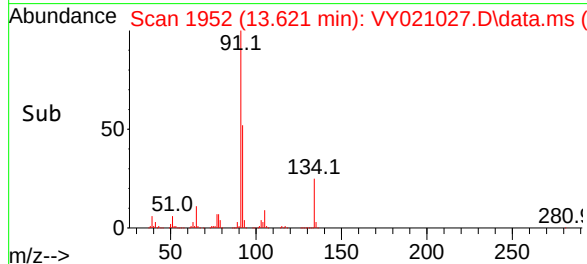
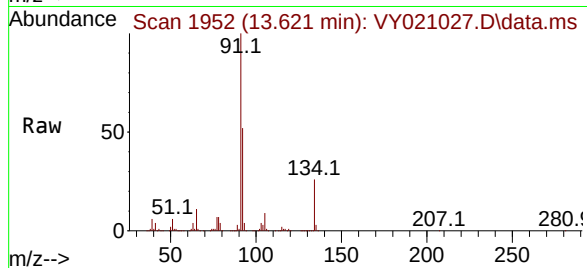
ICVY020325

Tgt Ion:	91	Resp:	38447
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.4	79.2
134	25.9	12.3	36.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#90

Hexachloroethane

Concen: 51.521 ug/l

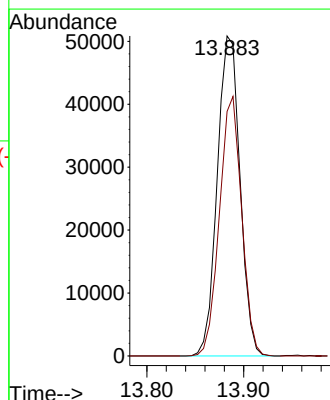
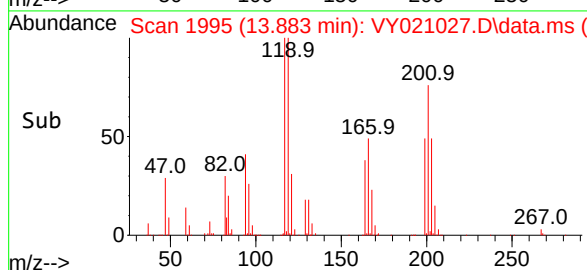
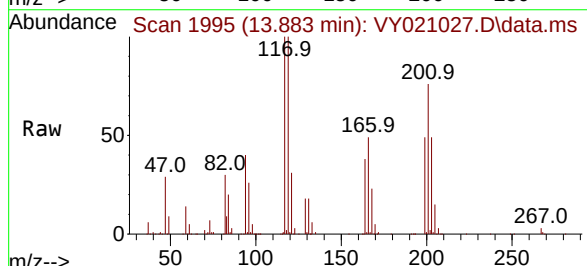
RT: 13.883 min Scan# 1995

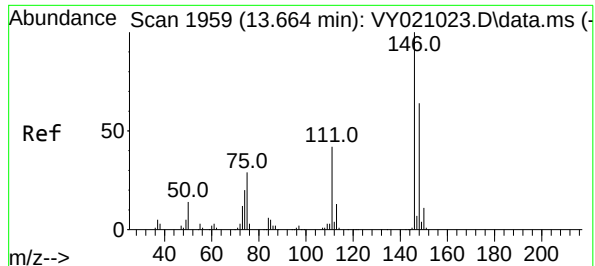
Delta R.T. -0.006 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

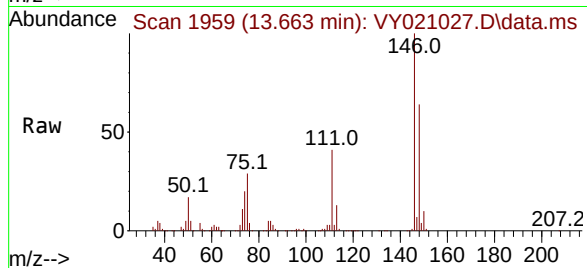
Tgt Ion:	117	Resp:	82908
Ion	Ratio	Lower	Upper
117	100		
201	79.2	33.4	100.1





#91
1,2-Dichlorobenzene
Concen: 49.696 ug/l
RT: 13.663 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

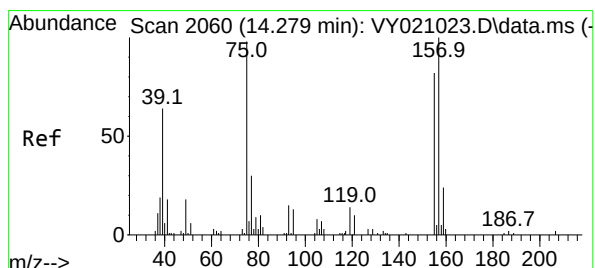
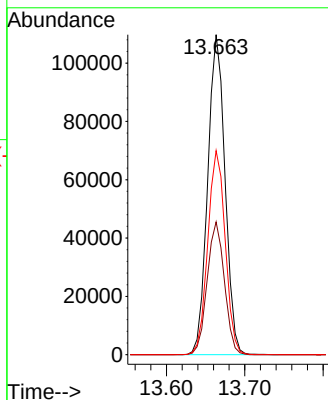
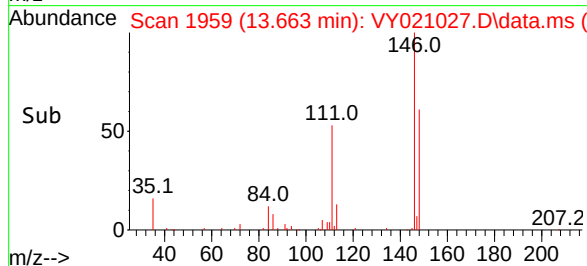
Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325



Tgt Ion:146 Resp: 168238
Ion Ratio Lower Upper
146 100
111 41.3 20.5 61.6
148 64.3 31.4 94.3

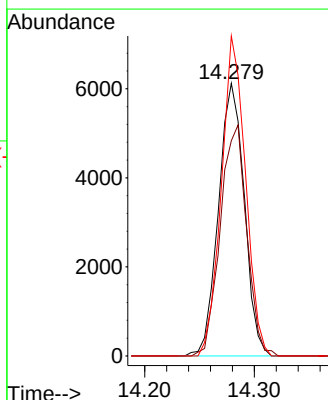
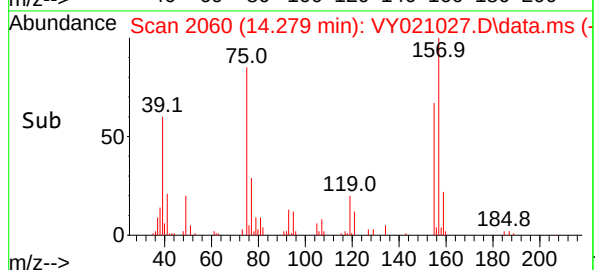
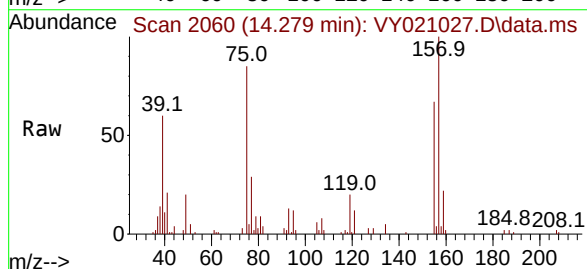
Manual Integrations
APPROVED

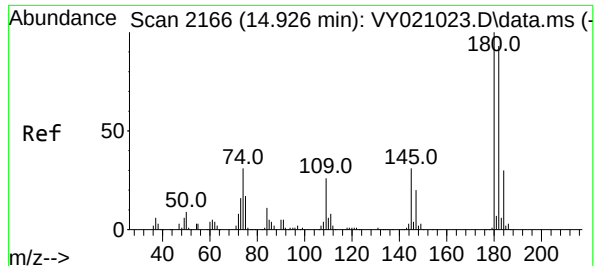
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 45.965 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. -0.000 min
Lab File: VY021027.D
Acq: 03 Feb 2025 13:37

Tgt Ion: 75 Resp: 10000
Ion Ratio Lower Upper
75 100
155 86.6 42.1 126.3
157 109.8 55.8 167.4





#93

1,2,4-Trichlorobenzene

Concen: 52.224 ug/l

RT: 14.925 min Scan# 2166

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

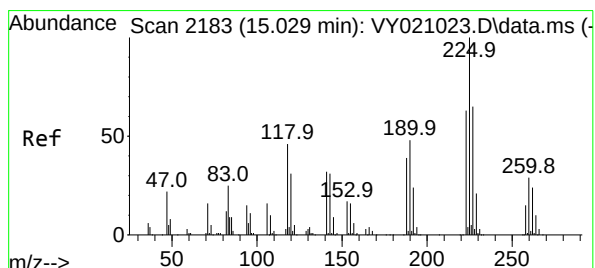
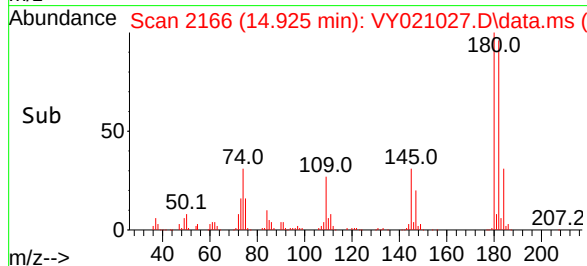
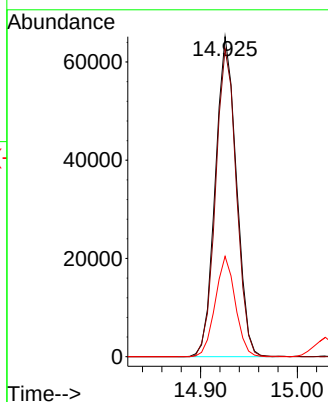
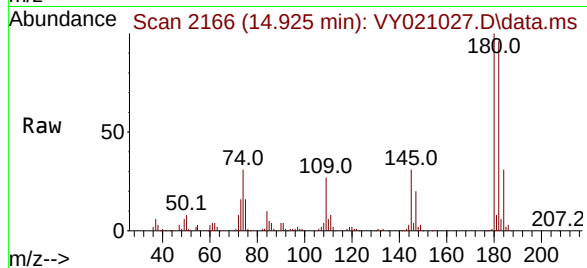
ICVVY020325

Tgt Ion:180	Resp:	98409
Ion Ratio	Lower	Upper
180	100	
182	95.2	47.9 143.7
145	29.9	15.9 47.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#94

Hexachlorobutadiene

Concen: 52.760 ug/l

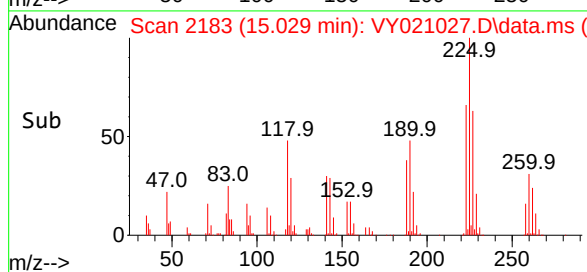
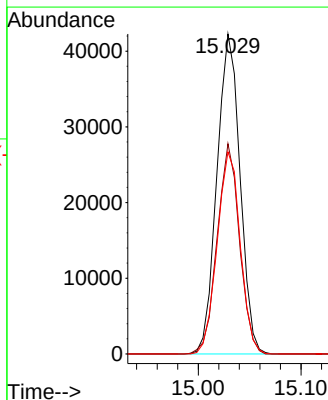
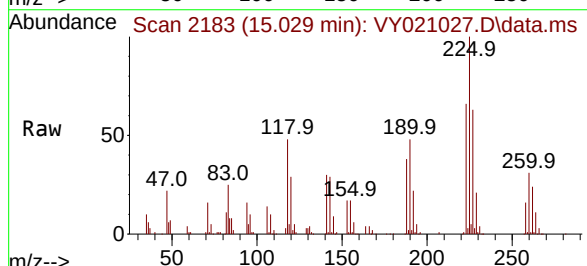
RT: 15.029 min Scan# 2183

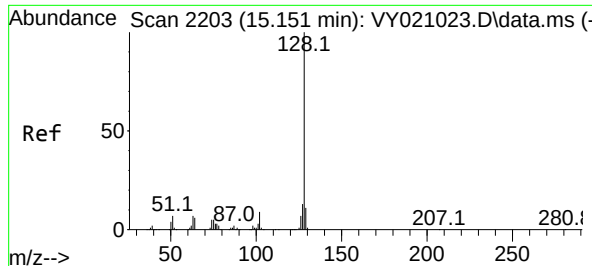
Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Tgt Ion:225	Resp:	65883
Ion Ratio	Lower	Upper
225	100	
223	63.5	31.4 94.3
227	63.0	32.3 96.8





#95

Naphthalene

Concen: 51.245 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

Instrument :

MSVOA_Y

ClientSampleId :

ICVY020325

Tgt Ion:128 Resp: 15449

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

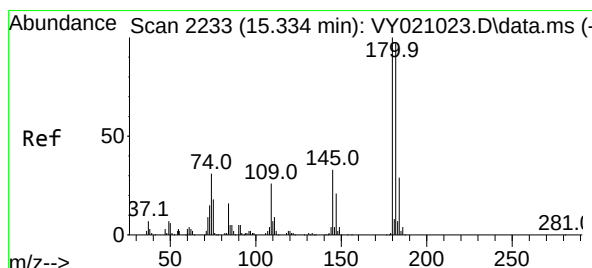
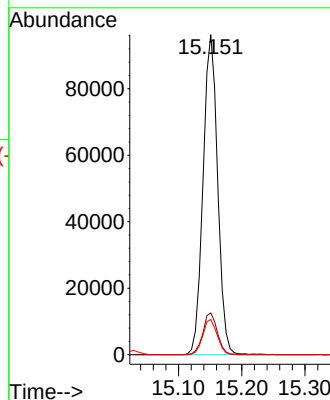
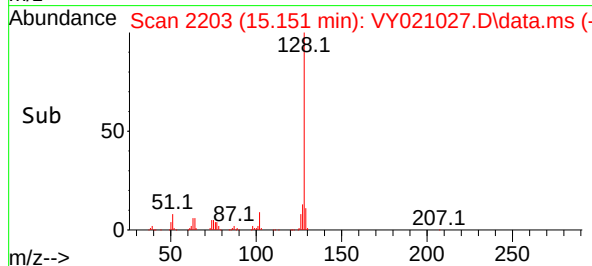
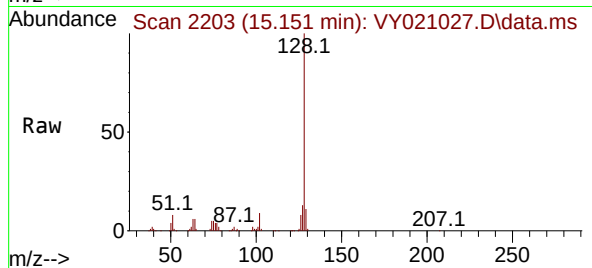
129 10.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#96

1,2,3-Trichlorobenzene

Concen: 50.882 ug/l

RT: 15.334 min Scan# 2233

Delta R.T. -0.000 min

Lab File: VY021027.D

Acq: 03 Feb 2025 13:37

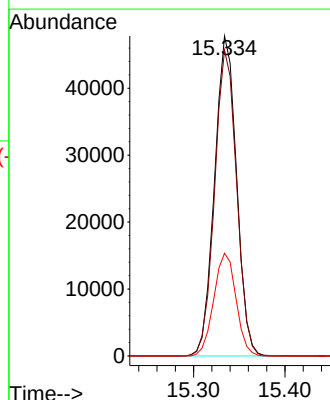
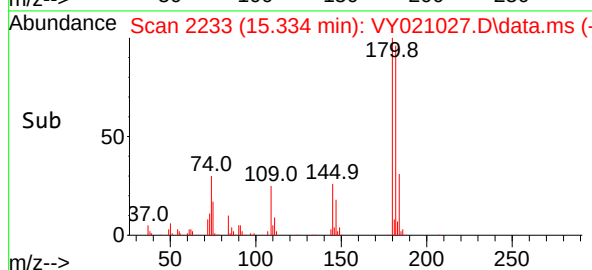
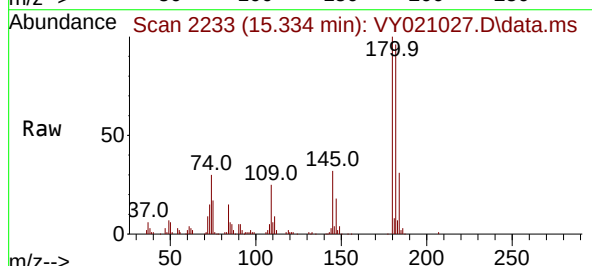
Tgt Ion:180 Resp: 79793

Ion Ratio Lower Upper

180 100

182 95.6 46.3 138.8

145 32.5 16.1 48.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 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	101	0.00
2 T	Dichlorodifluoromethane	0.446	0.466	-4.5	105	0.00
3 P	Chloromethane	0.440	0.457	-3.9	109	0.00
4 C	Vinyl Chloride	0.443	0.452	-2.0#	107	0.00
5 T	Bromomethane	0.274	0.288	-5.1	112	0.00
6 T	Chloroethane	0.263	0.263	0.0	104	0.00
7 T	Trichlorofluoromethane	0.806	0.836	-3.7	107	0.00
8 T	Diethyl Ether	0.252	0.235	6.7	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.506	0.521	-3.0	106	0.00
10 T	Methyl Iodide	0.562	0.549	2.3	94	0.00
11 T	Tert butyl alcohol	0.035	0.030	14.3	94	-0.01
12 CM	1,1-Dichloroethene	0.477	0.494	-3.6#	106	0.00
13 T	Acrolein	0.053	0.050	5.7	97	0.00
14 T	Allyl chloride	0.803	0.814	-1.4	102	0.00
15 T	Acrylonitrile	0.105	0.097	7.6	91	0.00
16 T	Acetone	0.080	0.078	2.5	101	-0.01
17 T	Carbon Disulfide	1.495	1.555	-4.0	106	0.00
18 T	Methyl Acetate	0.280	0.258	7.9	90	0.00
19 T	Methyl tert-butyl Ether	1.205	1.146	4.9	95	0.00
20 T	Methylene Chloride	0.497	0.491	1.2	102	0.00
21 T	trans-1,2-Dichloroethene	0.525	0.530	-1.0	102	0.00
22 T	Diisopropyl ether	1.656	1.636	1.2	99	0.00
23 T	Vinyl Acetate	0.923	0.880	4.7	93	0.00
24 P	1,1-Dichloroethane	0.970	0.967	0.3	103	0.00
25 T	2-Butanone	0.131	0.123	6.1	91	0.00
26 T	2,2-Dichloropropane	0.898	0.912	-1.6	105	0.00
27 T	cis-1,2-Dichloroethene	0.604	0.601	0.5	101	0.00
28 T	Bromochloromethane	0.384	0.420	-9.4	102	0.00
29 T	Tetrahydrofuran	0.089	0.081	9.0	89	0.00
30 C	Chloroform	0.997	0.974	2.3#	100	0.00
31 T	Cyclohexane	0.874	0.875	-0.1	106	0.00
32 T	1,1,1-Trichloroethane	0.927	0.938	-1.2	103	0.00
33 S	1,2-Dichloroethane-d4	0.512	0.559	-9.2	112	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
35 S	Dibromofluoromethane	0.320	0.370	-15.6	116	0.00
36 T	1,1-Dichloropropene	0.475	0.500	-5.3	106	0.00
37 T	Ethyl Acetate	0.208	0.196	5.8	91	0.00
38 T	Carbon Tetrachloride	0.555	0.574	-3.4	103	0.00
39 T	Methylcyclohexane	0.581	0.628	-8.1	105	0.00
40 TM	Benzene	1.393	1.422	-2.1	101	0.00
41 T	Methacrylonitrile	0.120	0.104	13.3	92	0.00
42 TM	1,2-Dichloroethane	0.386	0.370	4.1	96	0.00
43 T	Isopropyl Acetate	0.414	0.393	5.1	92	0.00
44 TM	Trichloroethene	0.360	0.365	-1.4	103	0.00
45 C	1,2-Dichloropropane	0.331	0.328	0.9#	99	0.00
46 T	Dibromomethane	0.183	0.172	6.0	93	0.00
47 T	Bromodichloromethane	0.491	0.479	2.4	98	0.00
48 T	Methyl methacrylate	0.188	0.187	0.5	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 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	0.002	0.002	0.0	96	0.00
50 S	Toluene-d8	1.220	1.463	-19.9	120	0.00
51 T	4-Methyl-2-Pentanone	0.208	0.197	5.3	90	0.00
52 CM	Toluene	0.875	0.894	-2.2#	100	0.00
53 T	t-1,3-Dichloropropene	0.441	0.440	0.2	96	0.00
54 T	cis-1,3-Dichloropropene	0.522	0.528	-1.1	99	0.00
55 T	1,1,2-Trichloroethane	0.237	0.222	6.3	93	0.00
56 T	Ethyl methacrylate	0.317	0.311	1.9	91	0.00
57 T	1,3-Dichloropropane	0.410	0.394	3.9	94	0.00
58 T	2-Chloroethyl Vinyl ether	0.151	0.152	-0.7	95	0.00
59 T	2-Hexanone	0.134	0.128	4.5	88	0.00
60 T	Dibromochloromethane	0.333	0.320	3.9	96	0.00
61 T	1,2-Dibromoethane	0.222	0.210	5.4	92	0.00
62 S	4-Bromofluorobenzene	0.399	0.470	-17.8	115	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64 T	Tetrachloroethene	0.371	0.389	-4.9	103	0.00
65 PM	Chlorobenzene	1.113	1.130	-1.5	99	0.00
66 T	1,1,1,2-Tetrachloroethane	0.396	0.398	-0.5	99	0.00
67 C	Ethyl Benzene	1.969	2.073	-5.3#	101	0.00
68 T	m/p-Xylenes	0.737	0.773	-4.9	100	0.00
69 T	o-Xylene	0.687	0.715	-4.1	100	0.00
70 T	Styrene	1.145	1.191	-4.0	98	0.00
71 P	Bromoform	0.220	0.212	3.6	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73 T	Isopropylbenzene	3.906	4.170	-6.8	101	0.00
74 T	N-amyl acetate	0.854	0.845	1.1	88	0.00
75 P	1,1,2,2-Tetrachloroethane	0.650	0.612	5.8	90	0.00
76 T	1,2,3-Trichloropropane	0.454	0.428	5.7	86	0.00
77 T	Bromobenzene	0.901	0.910	-1.0	98	0.00
78 T	n-propylbenzene	4.653	4.980	-7.0	101	0.00
79 T	2-Chlorotoluene	2.665	2.767	-3.8	99	0.00
80 T	1,3,5-Trimethylbenzene	3.167	3.347	-5.7	100	0.00
81 T	trans-1,4-Dichloro-2-butene	0.222	0.217	2.3	90	0.00
82 T	4-Chlorotoluene	2.715	2.802	-3.2	99	0.00
83 T	tert-Butylbenzene	2.878	3.106	-7.9	100	0.00
84 T	1,2,4-Trimethylbenzene	3.096	3.305	-6.8	100	0.00
85 T	sec-Butylbenzene	4.143	4.417	-6.6	101	0.00
86 T	p-Isopropyltoluene	3.442	3.671	-6.7	99	0.00
87 T	1,3-Dichlorobenzene	1.740	1.770	-1.7	97	0.00
88 T	1,4-Dichlorobenzene	1.714	1.724	-0.6	96	0.00
89 T	n-Butylbenzene	3.140	3.431	-9.3	101	0.00
90 T	Hexachloroethane	0.718	0.740	-3.1	98	0.00
91 T	1,2-Dichlorobenzene	1.510	1.501	0.6	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.097	0.089	8.2	85	0.00
93 T	1,2,4-Trichlorobenzene	0.841	0.878	-4.4	93	0.00
94 T	Hexachlorobutadiene	0.557	0.588	-5.6	98	0.00
95 T	Naphthalene	1.345	1.379	-2.5	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.700	0.712	-1.7	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 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	101	0.00
2 T	Dichlorodifluoromethane	50.000	52.290	-4.6	105	0.00
3 P	Chloromethane	50.000	52.006	-4.0	109	0.00
4 C	Vinyl Chloride	50.000	51.058	-2.1#	107	0.00
5 T	Bromomethane	50.000	52.624	-5.2	112	0.00
6 T	Chloroethane	50.000	49.925	0.2	104	0.00
7 T	Trichlorofluoromethane	50.000	51.864	-3.7	107	0.00
8 T	Diethyl Ether	50.000	46.708	6.6	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.507	-3.0	106	0.00
10 T	Methyl Iodide	50.000	48.858	2.3	94	0.00
11 T	Tert butyl alcohol	250.000	214.161	14.3	94	-0.01
12 CM	1,1-Dichloroethene	50.000	51.810	-3.6#	106	0.00
13 T	Acrolein	250.000	235.305	5.9	97	0.00
14 T	Allyl chloride	50.000	50.663	-1.3	102	0.00
15 T	Acrylonitrile	250.000	230.328	7.9	91	0.00
16 T	Acetone	250.000	243.997	2.4	101	-0.01
17 T	Carbon Disulfide	50.000	52.004	-4.0	106	0.00
18 T	Methyl Acetate	50.000	46.031	7.9	90	0.00
19 T	Methyl tert-butyl Ether	50.000	47.538	4.9	95	0.00
20 T	Methylene Chloride	50.000	49.414	1.2	102	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.506	-1.0	102	0.00
22 T	Diisopropyl ether	50.000	49.407	1.2	99	0.00
23 T	Vinyl Acetate	250.000	238.370	4.7	93	0.00
24 P	1,1-Dichloroethane	50.000	49.806	0.4	103	0.00
25 T	2-Butanone	250.000	233.503	6.6	91	0.00
26 T	2,2-Dichloropropane	50.000	50.791	-1.6	105	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.785	0.4	101	0.00
28 T	Bromochloromethane	50.000	54.731	-9.5	102	0.00
29 T	Tetrahydrofuran	250.000	228.139	8.7	89	0.00
30 C	Chloroform	50.000	48.846	2.3#	100	0.00
31 T	Cyclohexane	50.000	50.051	-0.1	106	0.00
32 T	1,1,1-Trichloroethane	50.000	50.620	-1.2	103	0.00
33 S	1,2-Dichloroethane-d4	50.000	54.604	-9.2	112	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	98	0.00
35 S	Dibromofluoromethane	50.000	57.790	-15.6	116	0.00
36 T	1,1-Dichloropropene	50.000	52.625	-5.3	106	0.00
37 T	Ethyl Acetate	50.000	47.006	6.0	91	0.00
38 T	Carbon Tetrachloride	50.000	51.711	-3.4	103	0.00
39 T	Methylcyclohexane	50.000	54.123	-8.2	105	0.00
40 TM	Benzene	50.000	51.052	-2.1	101	0.00
41 T	Methacrylonitrile	50.000	43.131	13.7	92	0.00
42 TM	1,2-Dichloroethane	50.000	47.910	4.2	96	0.00
43 T	Isopropyl Acetate	50.000	47.523	5.0	92	0.00
44 TM	Trichloroethene	50.000	50.777	-1.6	103	0.00
45 C	1,2-Dichloropropane	50.000	49.666	0.7#	99	0.00
46 T	Dibromomethane	50.000	46.914	6.2	93	0.00
47 T	Bromodichloromethane	50.000	48.799	2.4	98	0.00
48 T	Methyl methacrylate	50.000	49.560	0.9	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 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	1001.398	-0.1	96	0.00
50 S	Toluene-d8	50.000	59.966	-19.9	120	0.00
51 T	4-Methyl-2-Pentanone	250.000	236.615	5.4	90	0.00
52 CM	Toluene	50.000	51.135	-2.3#	100	0.00
53 T	t-1,3-Dichloropropene	50.000	49.950	0.1	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	50.550	-1.1	99	0.00
55 T	1,1,2-Trichloroethane	50.000	46.820	6.4	93	0.00
56 T	Ethyl methacrylate	50.000	49.082	1.8	91	0.00
57 T	1,3-Dichloropropane	50.000	47.980	4.0	94	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	251.852	-0.7	95	0.00
59 T	2-Hexanone	250.000	239.750	4.1	88	0.00
60 T	Dibromochloromethane	50.000	48.123	3.8	96	0.00
61 T	1,2-Dibromoethane	50.000	47.325	5.3	92	0.00
62 S	4-Bromofluorobenzene	50.000	58.919	-17.8	115	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64 T	Tetrachloroethene	50.000	52.446	-4.9	103	0.00
65 PM	Chlorobenzene	50.000	50.766	-1.5	99	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.356	-0.7	99	0.00
67 C	Ethyl Benzene	50.000	52.642	-5.3#	101	0.00
68 T	m/p-Xylenes	100.000	104.978	-5.0	100	0.00
69 T	o-Xylene	50.000	52.062	-4.1	100	0.00
70 T	Styrene	50.000	52.009	-4.0	98	0.00
71 P	Bromoform	50.000	48.166	3.7	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73 T	Isopropylbenzene	50.000	53.377	-6.8	101	0.00
74 T	N-amyl acetate	50.000	49.483	1.0	88	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	47.145	5.7	90	0.00
76 T	1,2,3-Trichloropropane	50.000	47.207	5.6	86	0.00
77 T	Bromobenzene	50.000	50.490	-1.0	98	0.00
78 T	n-propylbenzene	50.000	53.513	-7.0	101	0.00
79 T	2-Chlorotoluene	50.000	51.922	-3.8	99	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.840	-5.7	100	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	48.841	2.3	90	0.00
82 T	4-Chlorotoluene	50.000	51.594	-3.2	99	0.00
83 T	tert-Butylbenzene	50.000	53.952	-7.9	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.370	-6.7	100	0.00
85 T	sec-Butylbenzene	50.000	53.301	-6.6	101	0.00
86 T	p-Isopropyltoluene	50.000	53.325	-6.7	99	0.00
87 T	1,3-Dichlorobenzene	50.000	50.868	-1.7	97	0.00
88 T	1,4-Dichlorobenzene	50.000	50.309	-0.6	96	0.00
89 T	n-Butylbenzene	50.000	54.636	-9.3	101	0.00
90 T	Hexachloroethane	50.000	51.521	-3.0	98	0.00
91 T	1,2-Dichlorobenzene	50.000	49.696	0.6	95	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	45.965	8.1	85	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.224	-4.4	93	0.00
94 T	Hexachlorobutadiene	50.000	52.760	-5.5	98	0.00
95 T	Naphthalene	50.000	51.245	-2.5	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021027.D
Acq On : 03 Feb 2025 13:37
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY020325

Quant Time: Feb 04 00:48:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.882	-1.8	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: MSVOA_Y Calibration Date/Time: 02/04/2025 09:47

Lab File ID: VY021046.D Init. Calib. Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:35 12:44

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.446	0.470		5.38	20
Chloromethane	0.440	0.443	0.1	0.68	20
Vinyl Chloride	0.443	0.443		0	20
Bromomethane	0.274	0.270		-1.46	20
Chloroethane	0.263	0.263		0	20
Trichlorofluoromethane	0.806	0.812		0.74	20
1,1,2-Trichlorotrifluoroethane	0.506	0.522		3.16	20
Tert butyl alcohol	0.035	0.035		0	20
1,1-Dichloroethene	0.477	0.489		2.52	20
Acetone	0.080	0.085		6.25	20
Carbon Disulfide	1.495	1.571		5.08	20
Methyl tert-butyl Ether	1.205	1.270		5.39	20
Methyl Acetate	0.280	0.312		11.43	20
Methylene Chloride	0.497	0.513		3.22	20
trans-1,2-Dichloroethene	0.525	0.550		4.76	20
1,1-Dichloroethane	0.970	1.014	0.1	4.54	20
Cyclohexane	0.874	0.883		1.03	20
2-Butanone	0.131	0.143		9.16	20
Carbon Tetrachloride	0.555	0.591		6.49	20
cis-1,2-Dichloroethene	0.604	0.639		5.8	20
Bromochloromethane	0.384	0.407		5.99	20
Chloroform	0.997	1.045		4.81	20
1,1,1-Trichloroethane	0.927	0.969		4.53	20
Methylcyclohexane	0.581	0.623		7.23	20
Benzene	1.393	1.501		7.75	20
1,2-Dichloroethane	0.386	0.414		7.25	20
Trichloroethene	0.360	0.380		5.56	20
1,2-Dichloropropane	0.331	0.357		7.86	20
Bromodichloromethane	0.491	0.518		5.5	20
4-Methyl-2-Pentanone	0.208	0.238		14.42	20
Toluene	0.875	0.954		9.03	20
t-1,3-Dichloropropene	0.441	0.486		10.2	20
cis-1,3-Dichloropropene	0.522	0.569		9	20
1,1,2-Trichloroethane	0.237	0.253		6.75	20
2-Hexanone	0.134	0.157		17.16	20
Dibromochloromethane	0.333	0.359		7.81	20
1,2-Dibromoethane	0.222	0.240		8.11	20
Tetrachloroethene	0.371	0.387		4.31	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: MSVOA_Y Calibration Date/Time: 02/04/2025 09:47

Lab File ID: VY021046.D Init. Calib. Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:35 12:44

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chlorobenzene	1.113	1.159	0.3	4.13	20
Ethyl Benzene	1.969	2.119		7.62	20
m/p-Xylenes	0.737	0.793		7.6	20
o-Xylene	0.687	0.747		8.73	20
Styrene	1.145	1.261		10.13	20
Bromoform	0.220	0.240	0.1	9.09	20
Isopropylbenzene	3.906	4.054		3.76	20
1,1,2,2-Tetrachloroethane	0.650	0.677	0.3	4.15	20
1,3-Dichlorobenzene	1.740	1.821		4.66	20
1,4-Dichlorobenzene	1.714	1.787		4.26	20
1,2-Dichlorobenzene	1.510	1.568		3.84	20
1,2-Dibromo-3-Chloropropane	0.097	0.101		4.12	20
1,2,4-Trichlorobenzene	0.841	0.932		10.82	20
1,2,3-Trichlorobenzene	0.700	0.777		11	20
1,2-Dichloroethane-d4	0.512	0.534		4.3	20
Dibromofluoromethane	0.320	0.343		7.19	20
Toluene-d8	1.220	1.329		8.93	20
4-Bromofluorobenzene	0.399	0.446		11.78	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
 Data File : VY021046.D
 Acq On : 04 Feb 2025 09:47
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Quant Time: Feb 05 00:42:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	154178	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	233780	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	206737	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	102470	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	82293	52.095	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	104.180%
35) Dibromofluoromethane	7.640	113	80083	53.452	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	106.900%
50) Toluene-d8	10.109	98	310687	54.470	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	108.940%
62) 4-Bromofluorobenzene	12.407	95	104152	55.893	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	111.780%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	72438	52.714	ug/l	98
3) Chloromethane	2.074	50	68247	50.330	ug/l	95
4) Vinyl Chloride	2.208	62	68325	50.061	ug/l	99
5) Bromomethane	2.598	94	41627	49.347	ug/l	96
6) Chloroethane	2.738	64	40570	49.935	ug/l	94
7) Trichlorofluoromethane	3.068	101	125251	50.372	ug/l	99
8) Diethyl Ether	3.458	74	39653	51.084	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.817	101	80448	51.550	ug/l	96
10) Methyl Iodide	4.012	142	91056	52.519	ug/l	93
11) Tert butyl alcohol	4.860	59	26996	252.187	ug/l	98
12) 1,1-Dichloroethene	3.793	96	75364	51.266	ug/l	92
13) Acrolein	3.653	56	39952	242.367	ug/l	98
14) Allyl chloride	4.390	41	131719	53.165	ug/l	95
15) Acrylonitrile	5.061	53	87375	270.313	ug/l	98
16) Acetone	3.872	43	65883	267.440	ug/l	97
17) Carbon Disulfide	4.110	76	242282	52.559	ug/l	99
18) Methyl Acetate	4.390	43	48049	55.562	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	195771	52.689	ug/l	99
20) Methylene Chloride	4.622	84	79068	51.630	ug/l	93
21) trans-1,2-Dichloroethene	5.122	96	84741	52.369	ug/l	96
22) Diisopropyl ether	6.024	45	277295	54.300	ug/l	97
23) Vinyl Acetate	5.963	43	779586	273.844	ug/l	97
24) 1,1-Dichloroethane	5.921	63	156317	52.245	ug/l	97
25) 2-Butanone	6.896	43	110174	272.159	ug/l	97
26) 2,2-Dichloropropane	6.890	77	143867	51.967	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	98474	52.870	ug/l	96
28) Bromochloromethane	7.250	49	62695	52.992	ug/l	98
29) Tetrahydrofuran	7.262	42	76116	277.873	ug/l	95
30) Chloroform	7.426	83	161057	52.406	ug/l	99
31) Cyclohexane	7.707	56	136180	50.543	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	149391	52.284	ug/l	100
36) 1,1-Dichloropropene	7.841	75	118925	53.591	ug/l	98
37) Ethyl Acetate	6.981	43	54605	56.091	ug/l	98
38) Carbon Tetrachloride	7.823	117	138223	53.307	ug/l	99
39) Methylcyclohexane	9.109	83	145702	53.677	ug/l	98
40) Benzene	8.085	78	350936	53.888	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
 Data File : VY021046.D
 Acq On : 04 Feb 2025 09:47
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 00:42:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	25427	45.147	ug/l #	84
42) 1,2-Dichloroethane	8.158	62	96687	53.521	ug/l	96
43) Isopropyl Acetate	8.201	43	107615	55.633	ug/l #	84
44) Trichloroethene	8.871	130	88871	52.820	ug/l	93
45) 1,2-Dichloropropane	9.146	63	83455	53.991	ug/l	99
46) Dibromomethane	9.237	93	46115	53.884	ug/l	96
47) Bromodichloromethane	9.426	83	121213	52.810	ug/l	99
48) Methyl methacrylate	9.225	41	50081	56.838	ug/l	92
49) 1,4-Dioxane	9.225	88	9165	1150.358	ug/l	88
51) 4-Methyl-2-Pentanone	9.999	43	277997	285.788	ug/l	96
52) Toluene	10.176	92	223128	54.566	ug/l	99
53) t-1,3-Dichloropropene	10.395	75	113590	55.115	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	133048	54.522	ug/l	92
55) 1,1,2-Trichloroethane	10.578	97	59199	53.417	ug/l	97
56) Ethyl methacrylate	10.444	69	83819	56.536	ug/l	90
57) 1,3-Dichloropropane	10.719	76	106023	55.271	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	162803	230.818	ug/l	99
59) 2-Hexanone	10.761	43	183839	293.528	ug/l	96
60) Dibromochloromethane	10.914	129	84035	53.995	ug/l	98
61) 1,2-Dibromoethane	11.017	107	56133	54.075	ug/l	100
64) Tetrachloroethene	10.652	164	80010	52.134	ug/l	97
65) Chlorobenzene	11.444	112	239533	52.034	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.523	131	85270	52.124	ug/l	98
67) Ethyl Benzene	11.523	91	438006	53.795	ug/l	100
68) m/p-Xylenes	11.633	106	327944	107.665	ug/l	98
69) o-Xylene	11.956	106	154451	54.388	ug/l	98
70) Styrene	11.974	104	260738	55.088	ug/l	99
71) Bromoform	12.139	173	49616	54.488	ug/l #	99
73) Isopropylbenzene	12.261	105	415362	51.892	ug/l	100
74) N-ethyl acetate	12.072	43	95822	54.756	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.511	83	69410	52.140	ug/l	97
76) 1,2,3-Trichloropropane	12.560	75	47604m	51.213	ug/l	
77) Bromobenzene	12.535	156	94814	51.330	ug/l	93
78) n-propylbenzene	12.596	91	503375	52.792	ug/l	99
79) 2-Chlorotoluene	12.682	91	283562	51.924	ug/l	99
80) 1,3,5-Trimethylbenzene	12.743	105	343866	52.986	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.310	75	23169	50.860	ug/l	92
82) 4-Chlorotoluene	12.779	91	291090	52.316	ug/l	100
83) tert-Butylbenzene	12.999	119	312620	52.997	ug/l	99
84) 1,2,4-Trimethylbenzene	13.047	105	339419	53.490	ug/l	100
85) sec-Butylbenzene	13.182	105	449069	52.886	ug/l	98
86) p-Isopropyltoluene	13.297	119	377440	53.511	ug/l	99
87) 1,3-Dichlorobenzene	13.291	146	186592	52.317	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	183116	52.145	ug/l	99
89) n-Butylbenzene	13.621	91	352502	54.781	ug/l	99
90) Hexachloroethane	13.883	117	76651	52.092	ug/l	85
91) 1,2-Dichlorobenzene	13.663	146	160683	51.907	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.279	75	10324	51.897	ug/l	96
93) 1,2,4-Trichlorobenzene	14.925	180	95483	55.414	ug/l	98
94) Hexachlorobutadiene	15.029	225	61275	53.663	ug/l	99
95) Naphthalene	15.151	128	154449	56.026	ug/l	98
96) 1,2,3-Trichlorobenzene	15.334	180	79572	55.491	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021046.D
Acq On : 04 Feb 2025 09:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 00:42:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

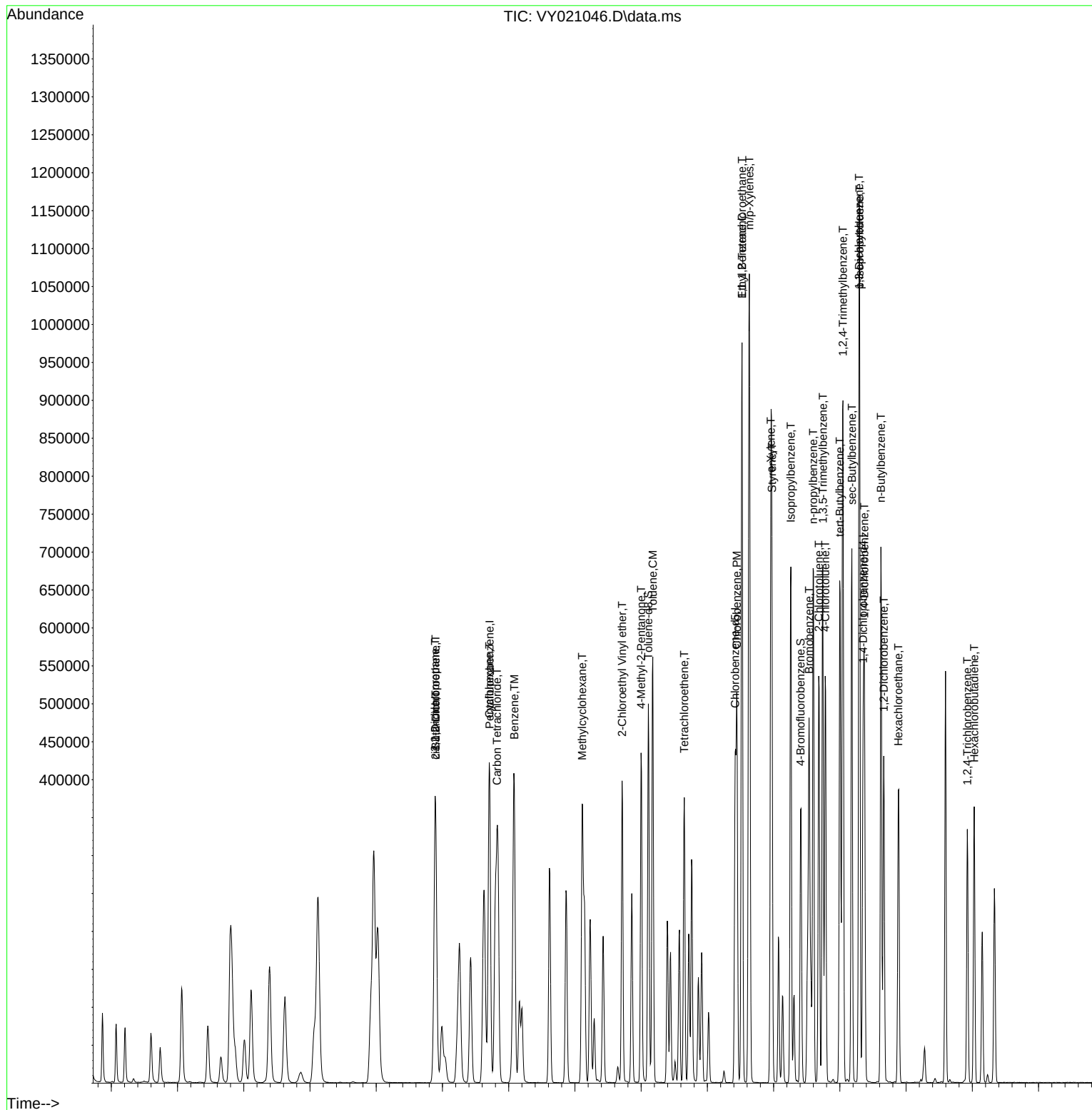
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

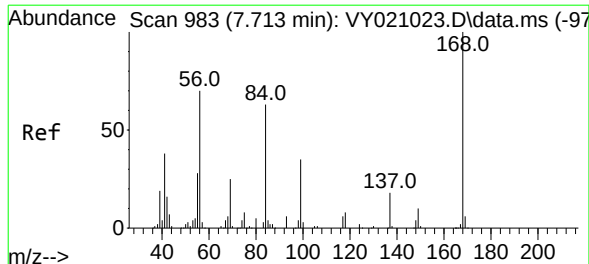
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations

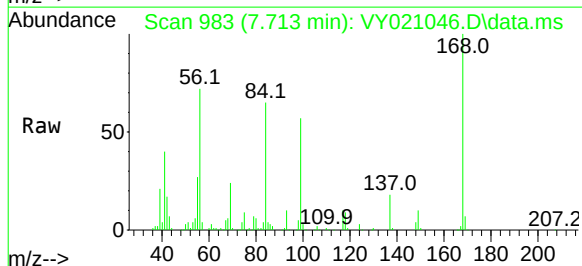
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

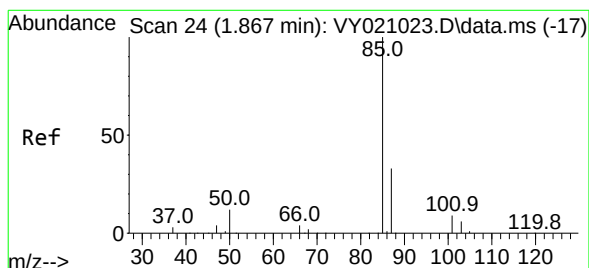
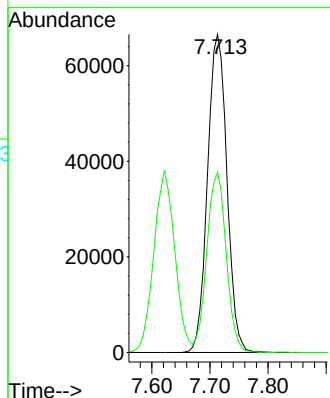
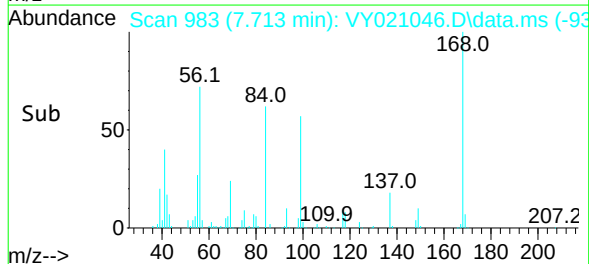
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050



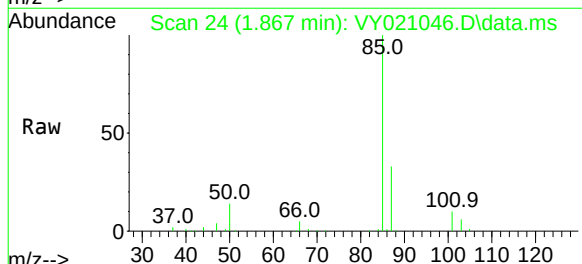
Tgt Ion: 168 Resp: 154178
Ion Ratio Lower Upper
168 100
99 56.5 44.2 66.4

Manual Integrations
APPROVED

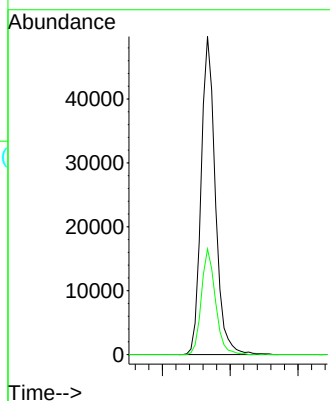
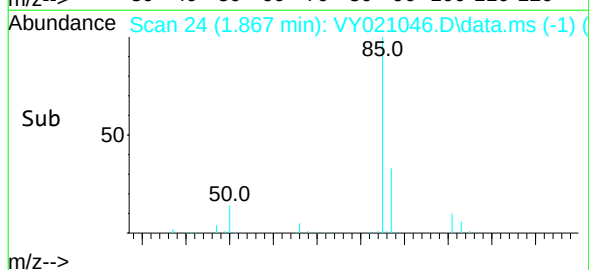
Reviewed By : Romaben Patel 02/05/2025
Supervised By : Mahesh Dadoda 02/06/2025

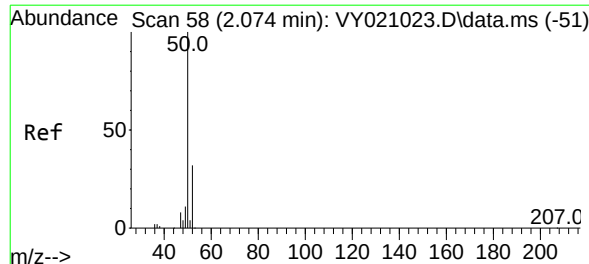


#2
Dichlorodifluoromethane
Concen: 52.714 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47



Tgt Ion: 85 Resp: 72438
Ion Ratio Lower Upper
85 100
87 33.2 17.1 51.3





#3

Chloromethane

Concen: 50.330 ug/l

RT: 2.074 min Scan# 58

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 68247

Ion Ratio Lower Upper

50 100

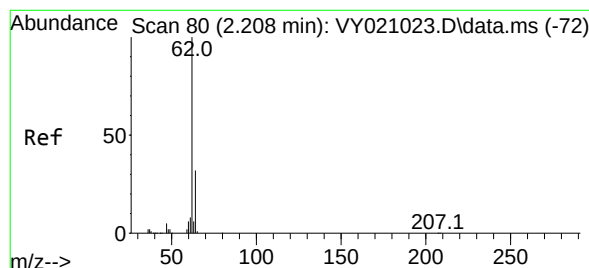
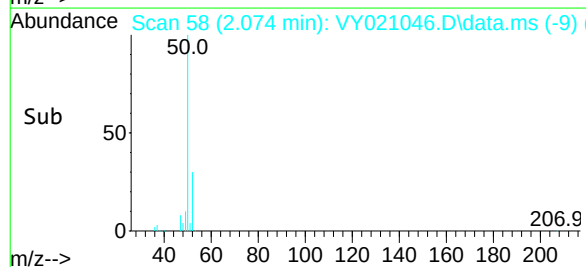
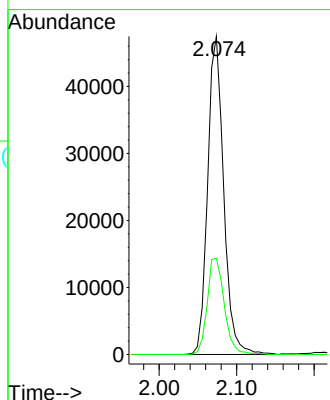
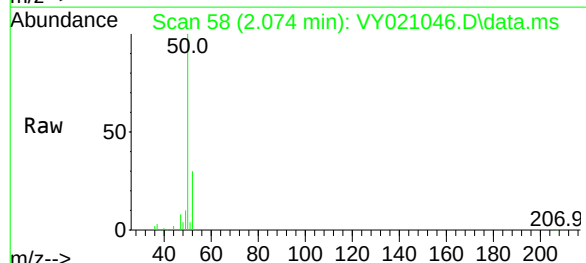
52 30.3 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#4

Vinyl Chloride

Concen: 50.061 ug/l

RT: 2.208 min Scan# 80

Delta R.T. -0.000 min

Lab File: VY021046.D

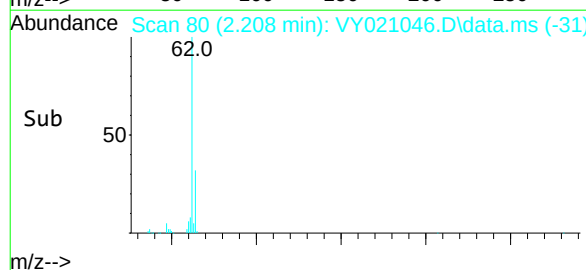
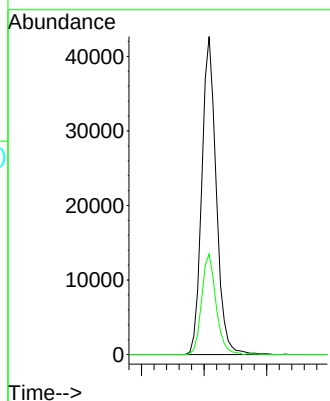
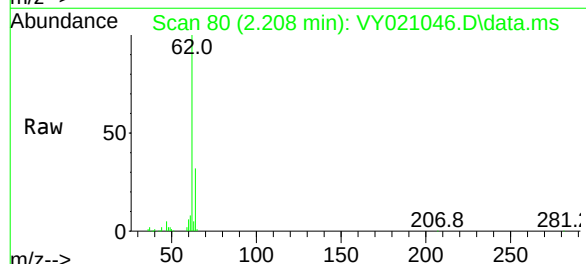
Acq: 04 Feb 2025 09:47

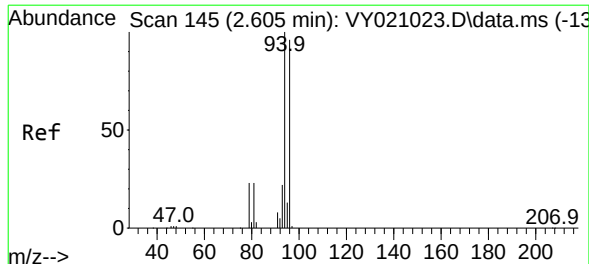
Tgt Ion: 62 Resp: 68325

Ion Ratio Lower Upper

62 100

64 31.6 25.7 38.5





#5

Bromomethane

Concen: 49.347 ug/l

RT: 2.598 min Scan# 145

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 94 Resp: 41627

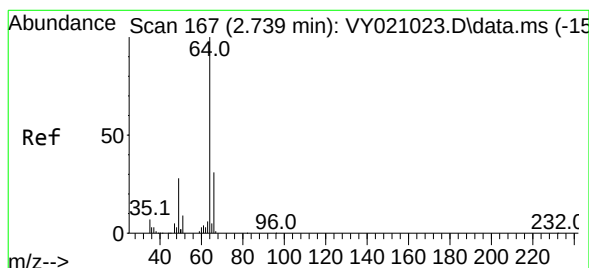
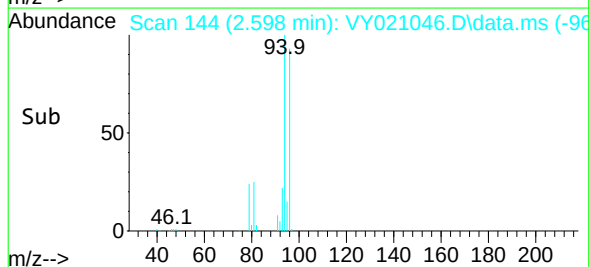
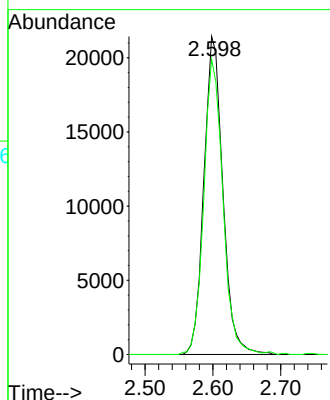
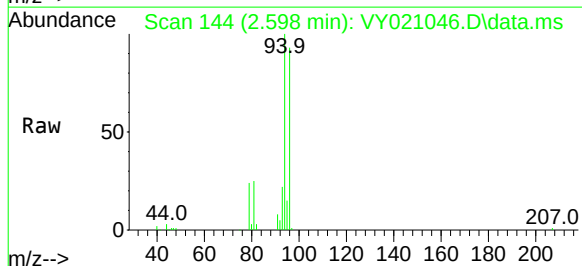
Ion Ratio Lower Upper

94 100

96 92.8 77.3 115.9

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#6

Chloroethane

Concen: 49.935 ug/l

RT: 2.738 min Scan# 167

Delta R.T. -0.000 min

Lab File: VY021046.D

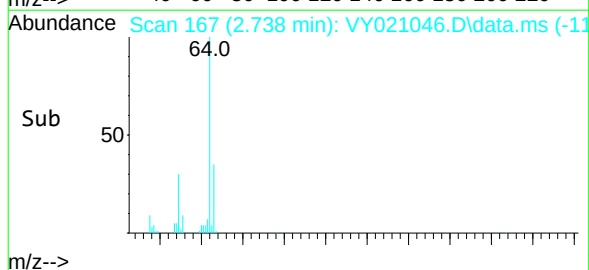
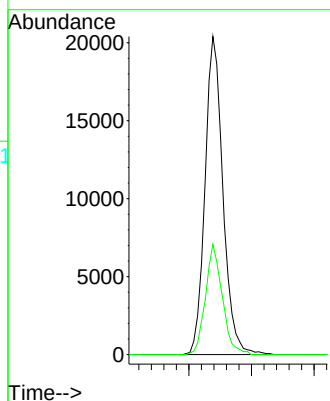
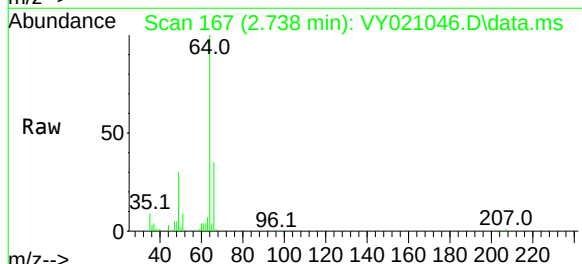
Acq: 04 Feb 2025 09:47

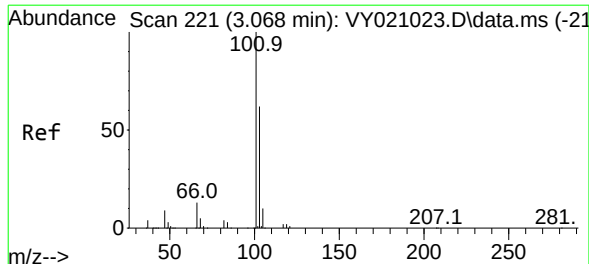
Tgt Ion: 64 Resp: 40570

Ion Ratio Lower Upper

64 100

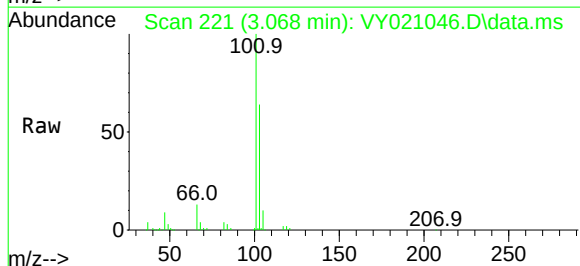
66 34.7 25.1 37.7





Trichlorofluoromethane
 Concen: 50.372 ug/l
 RT: 3.068 min Scan# 221
 Delta R.T. -0.000 min
 Lab File: VY021046.D
 Acq: 04 Feb 2025 09:47

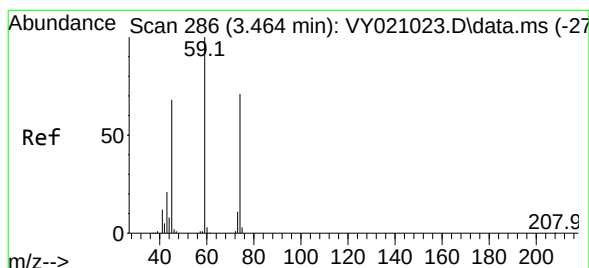
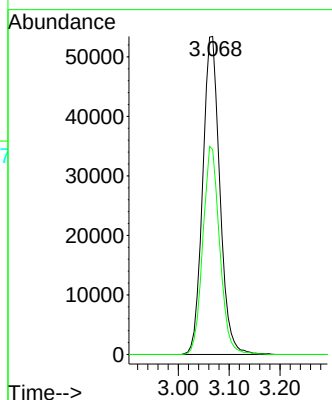
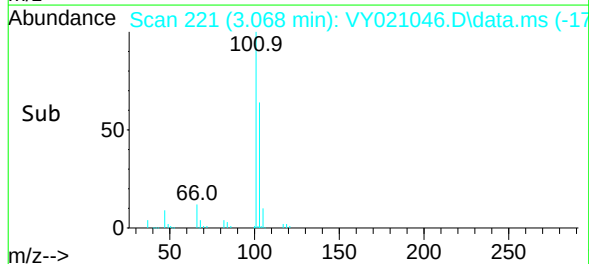
Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050



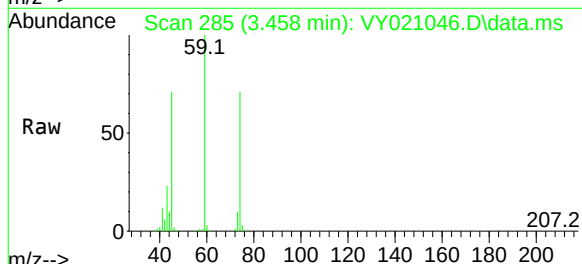
Tgt Ion: 101 Resp: 125251
 Ion Ratio Lower Upper
 101 100
 103 64.5 51.9 77.9

Manual Integrations
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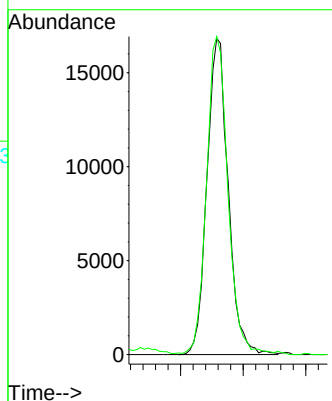
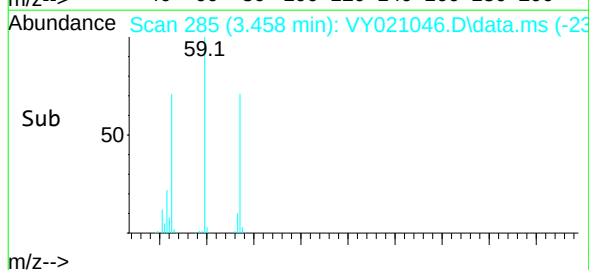
Reviewed By : Romaben Patel 02/05/2025
 Supervised By : Mahesh Dadoda 02/06/2025

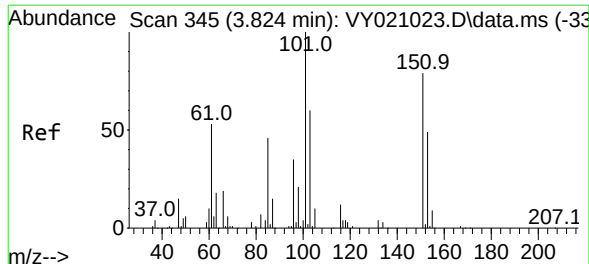


Diethyl Ether
 Concen: 51.084 ug/l
 RT: 3.458 min Scan# 285
 Delta R.T. -0.007 min
 Lab File: VY021046.D
 Acq: 04 Feb 2025 09:47



Tgt Ion: 74 Resp: 39653
 Ion Ratio Lower Upper
 74 100
 45 100.1 47.9 143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.550 ug/l

RT: 3.817 min Scan# 345

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:101 Resp: 80448

Ion Ratio Lower Upper

101 100

85 46.3 35.8 53.6

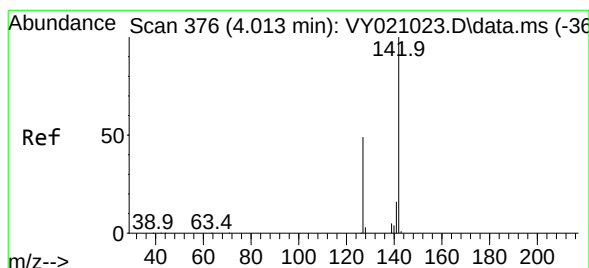
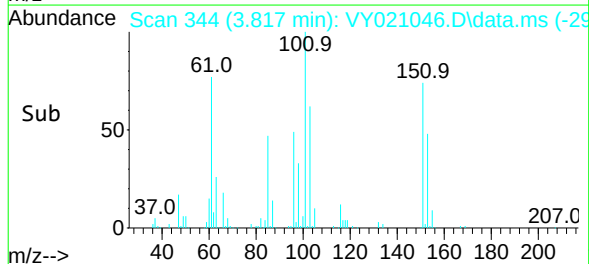
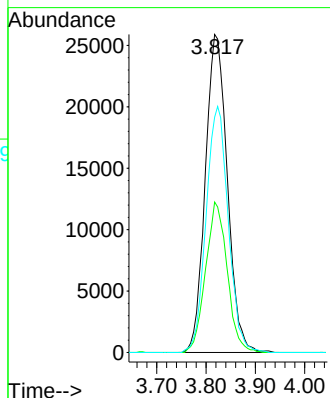
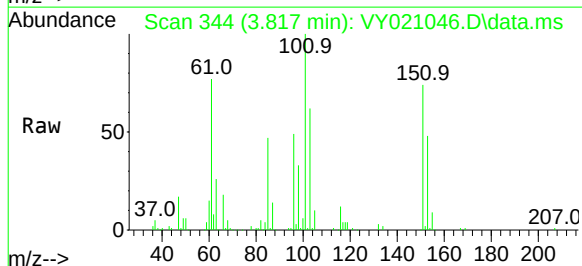
151 77.8 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#10

Methyl Iodide

Concen: 52.519 ug/l

RT: 4.012 min Scan# 376

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

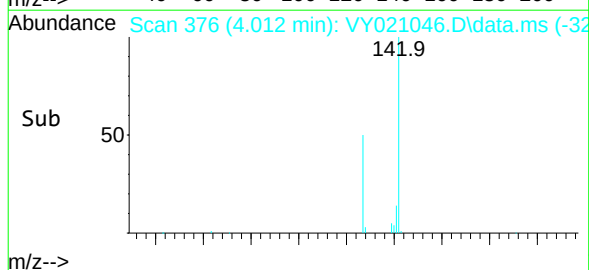
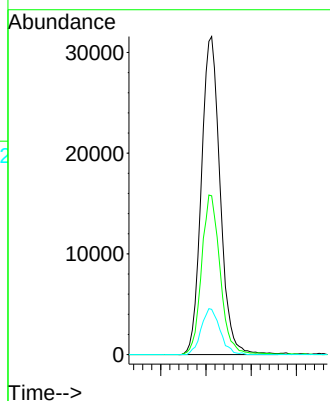
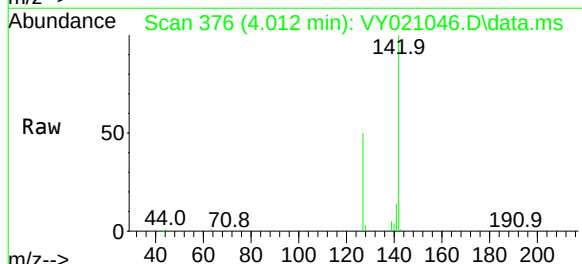
Tgt Ion:142 Resp: 91056

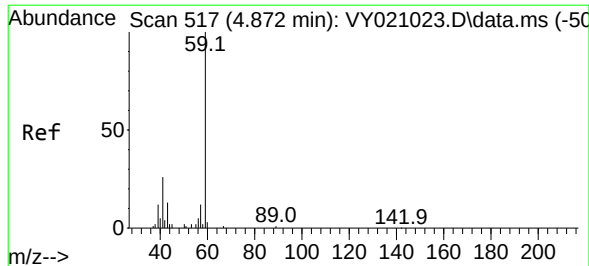
Ion Ratio Lower Upper

142 100

127 49.6 35.1 52.7

141 14.5 11.8 17.6





#11

Tert butyl alcohol

Concen: 252.187 ug/l

RT: 4.860 min Scan# 517

Delta R.T. -0.013 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 26996

Ion Ratio Lower Upper

59 100

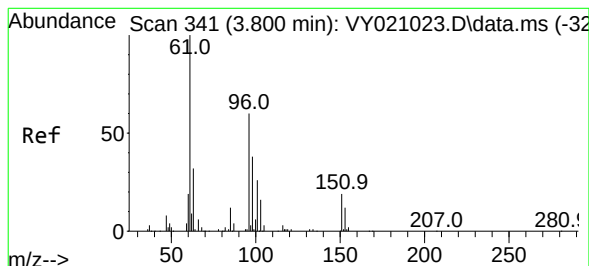
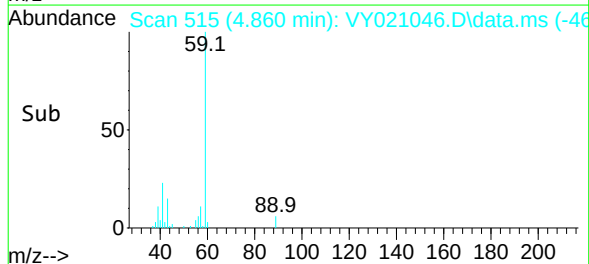
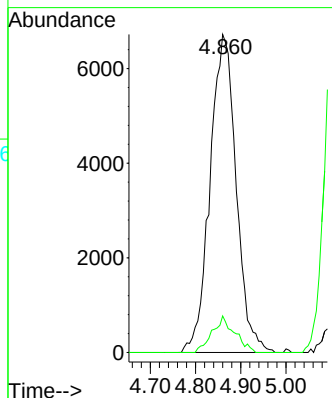
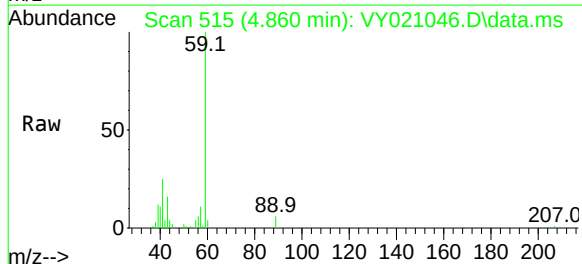
57 9.8 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#12

1,1-Dichloroethene

Concen: 51.266 ug/l

RT: 3.793 min Scan# 340

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

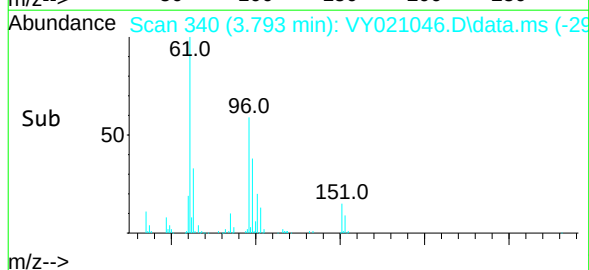
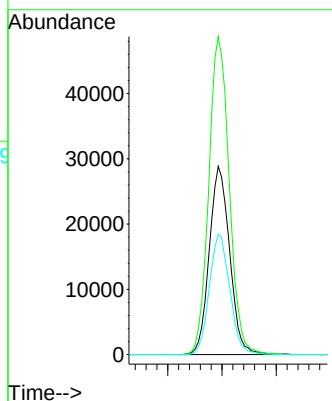
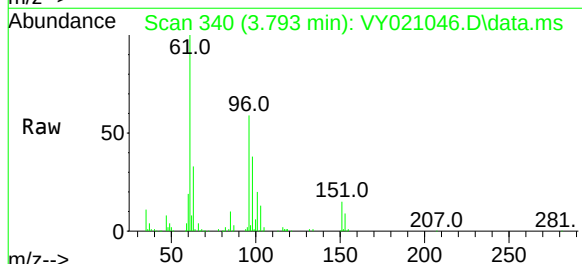
Tgt Ion: 96 Resp: 75364

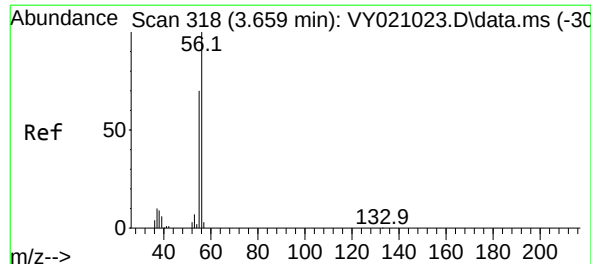
Ion Ratio Lower Upper

96 100

61 169.0 124.2 186.2

98 64.0 52.6 79.0





#13

Acrolein

Concen: 242.367 ug/l

RT: 3.653 min Scan# 31

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 39952

Ion Ratio Lower Upper

56 100

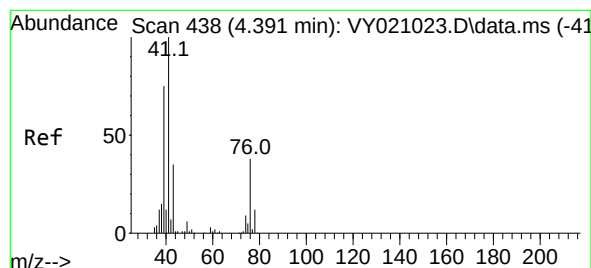
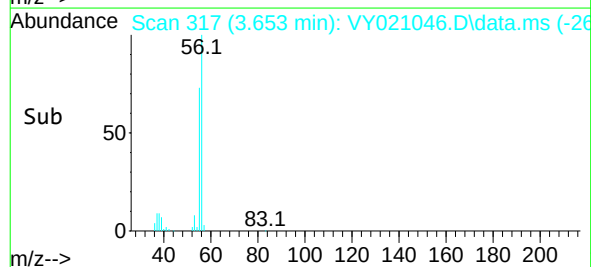
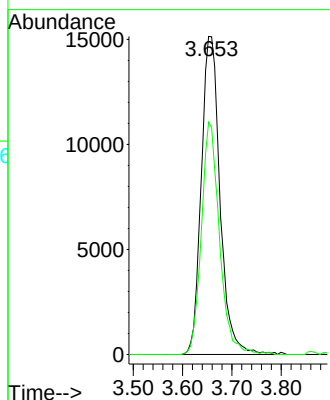
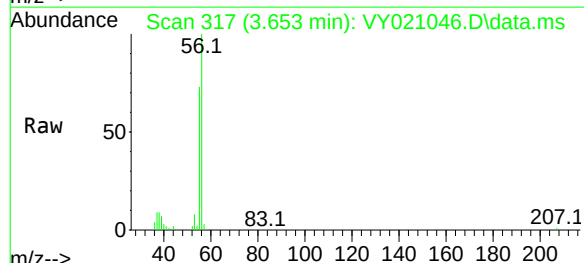
55 70.5 55.4 83.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#14

Allyl chloride

Concen: 53.165 ug/l

RT: 4.390 min Scan# 438

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

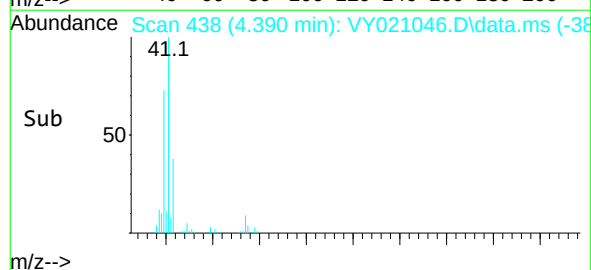
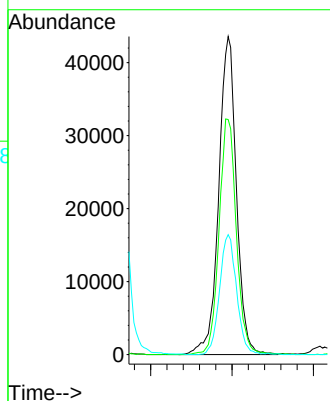
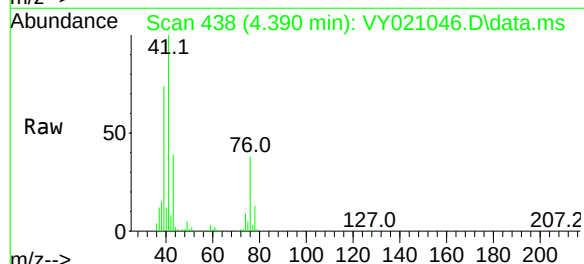
Tgt Ion: 41 Resp: 131719

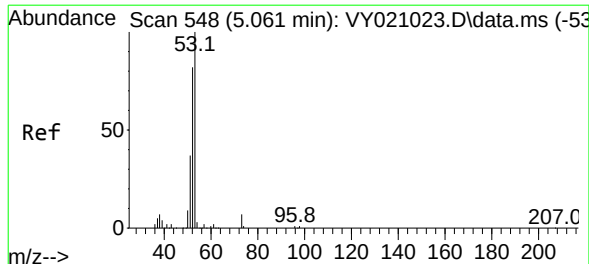
Ion Ratio Lower Upper

41 100

39 72.7 54.7 82.1

76 36.3 31.8 47.6





#15

Acrylonitrile

Concen: 270.313 ug/l

RT: 5.061 min Scan# 54

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

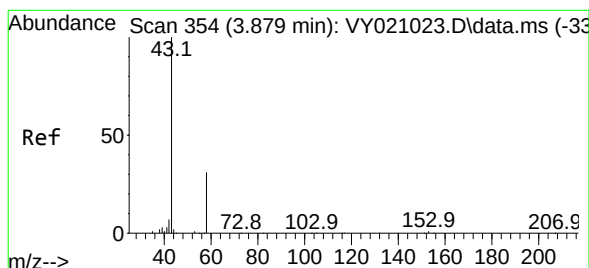
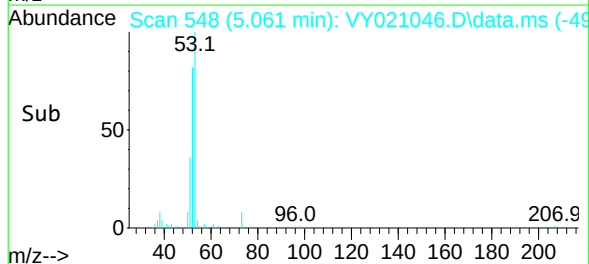
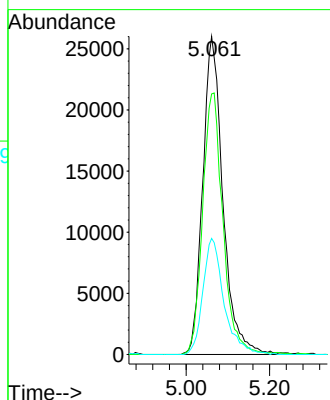
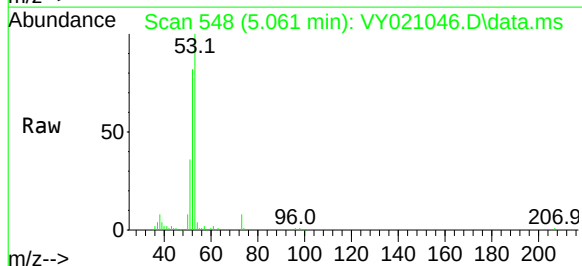
Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 53	Resp: 87375
Ion Ratio	Lower Upper
53 100	
52 82.6	65.1 97.7
51 38.1	29.0 43.4

Manual Integrations
APPROVEDReviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#16

Acetone

Concen: 267.440 ug/l

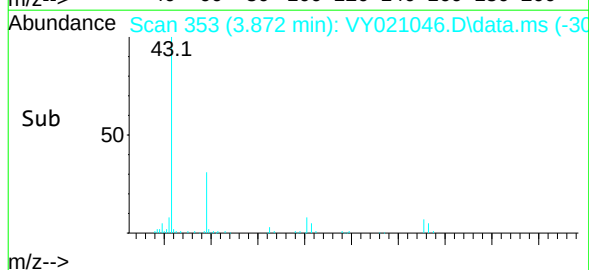
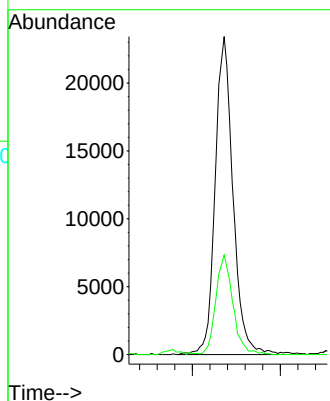
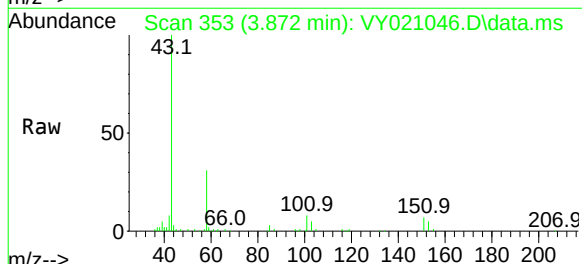
RT: 3.872 min Scan# 353

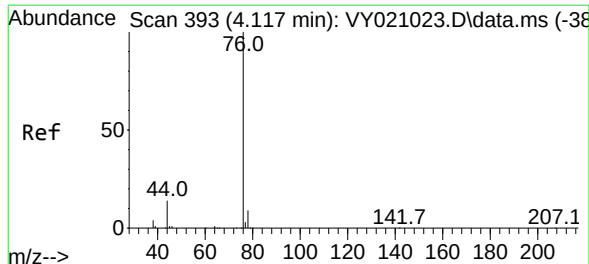
Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Tgt Ion: 43	Resp: 65883
Ion Ratio	Lower Upper
43 100	
58 31.3	26.6 39.8





#17

Carbon Disulfide

Concen: 52.559 ug/l

RT: 4.110 min Scan# 39

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 242282

Ion Ratio Lower Upper

76 100

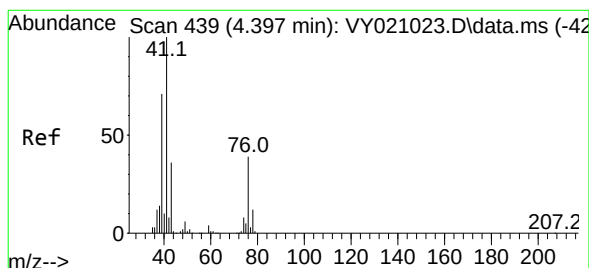
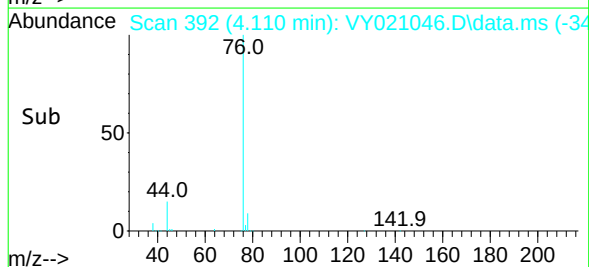
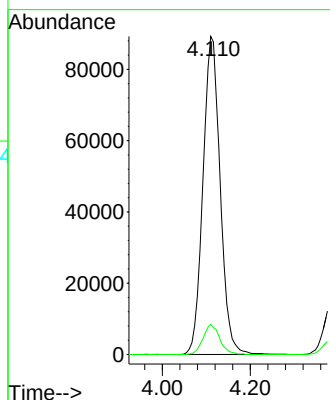
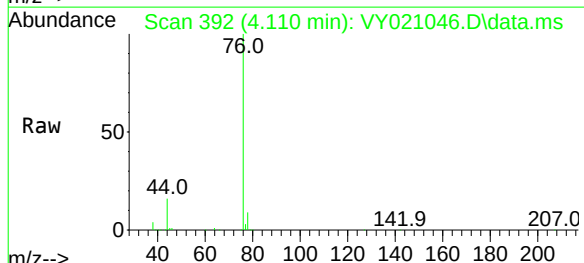
78 9.5 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#18

Methyl Acetate

Concen: 55.562 ug/l

RT: 4.390 min Scan# 438

Delta R.T. -0.007 min

Lab File: VY021046.D

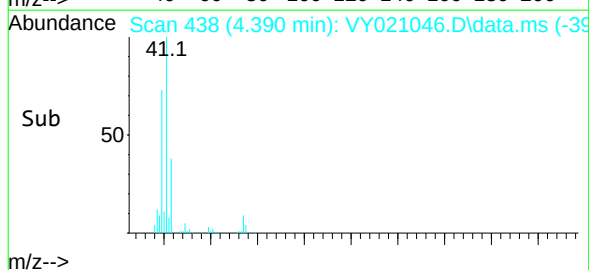
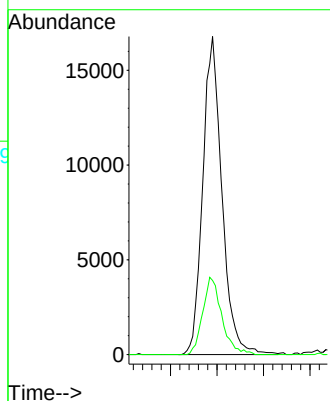
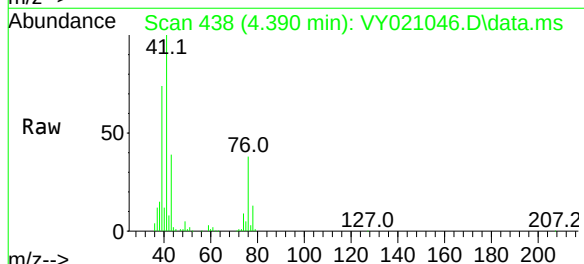
Acq: 04 Feb 2025 09:47

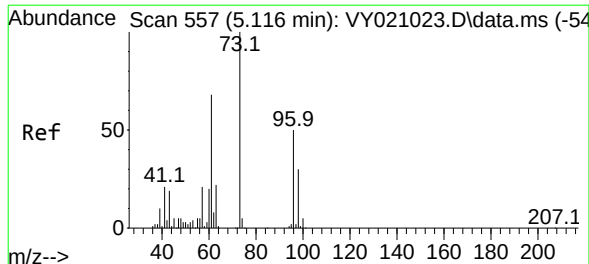
Tgt Ion: 43 Resp: 48049

Ion Ratio Lower Upper

43 100

74 24.2 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 52.689 ug/l

RT: 5.122 min Scan# 557

Delta R.T. 0.006 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 195771

Ion Ratio Lower Upper

73 100

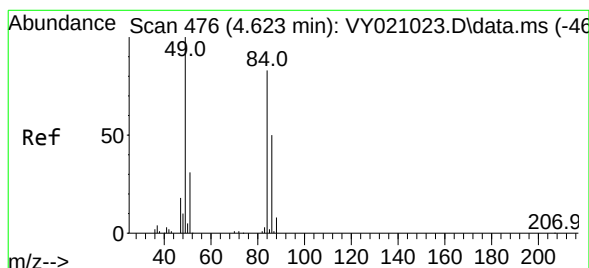
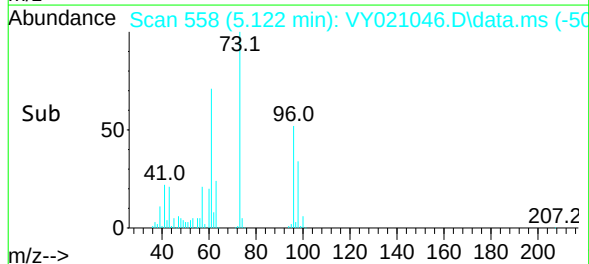
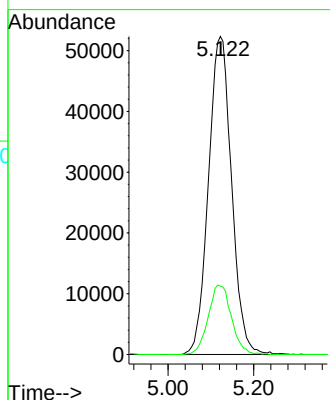
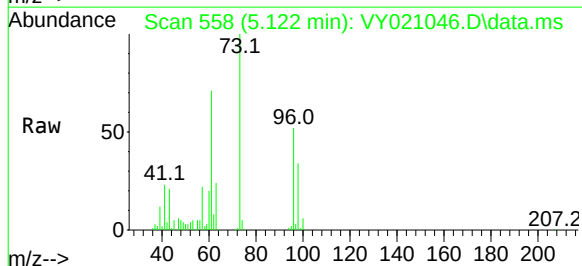
57 21.5 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#20

Methylene Chloride

Concen: 51.630 ug/l

RT: 4.622 min Scan# 476

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Tgt Ion: 84 Resp: 79068

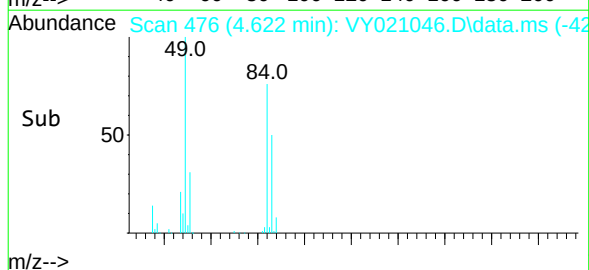
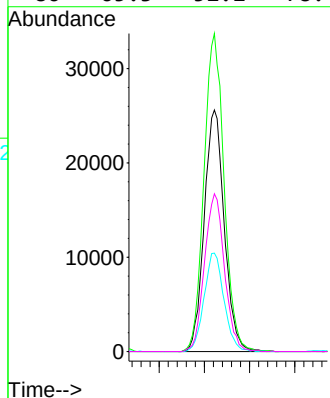
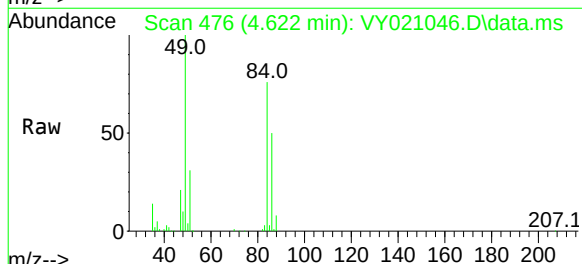
Ion Ratio Lower Upper

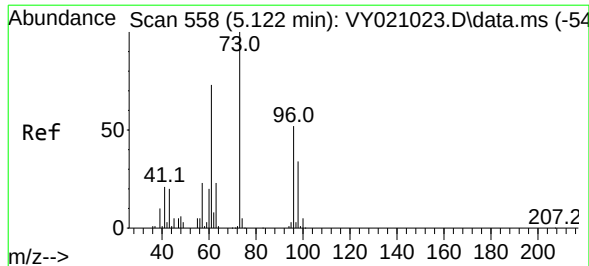
84 100

49 131.6 95.2 142.8

51 40.8 29.9 44.9

86 65.3 52.2 78.4





#21

trans-1,2-Dichloroethene

Concen: 52.369 ug/l

RT: 5.122 min Scan# 558

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 84741

Ion Ratio Lower Upper

96 100

61 137.0 104.6 156.8

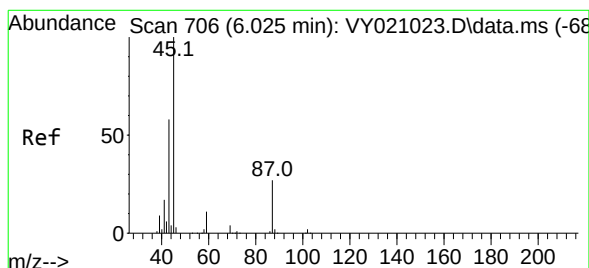
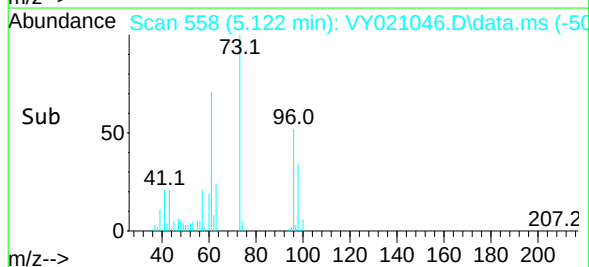
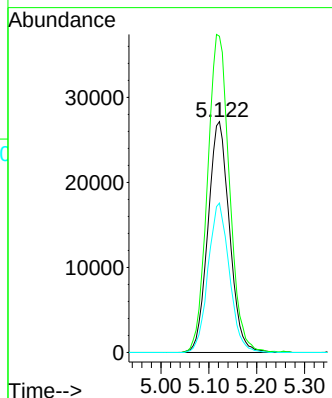
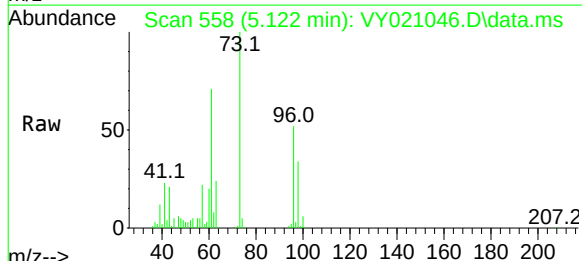
98 64.7 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#22

Diisopropyl ether

Concen: 54.300 ug/l

RT: 6.024 min Scan# 706

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Tgt Ion: 45 Resp: 277295

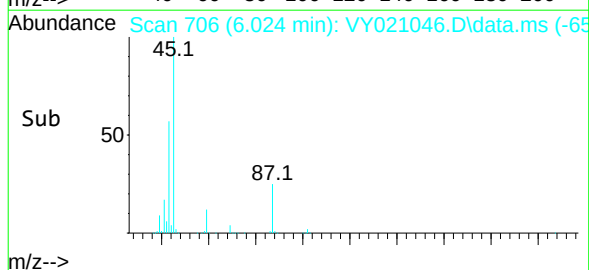
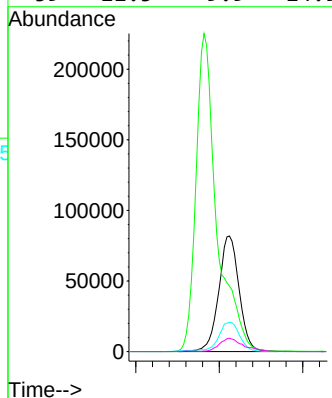
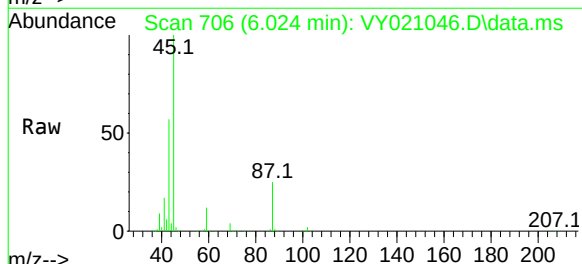
Ion Ratio Lower Upper

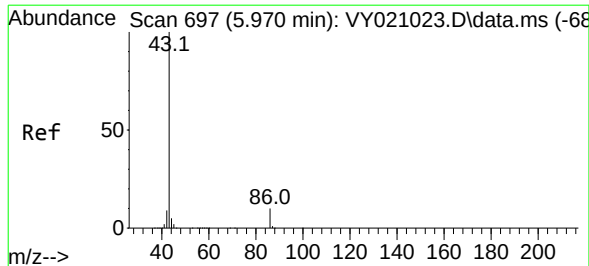
45 100

43 56.1 46.8 70.2

87 25.3 22.2 33.2

59 11.5 9.9 14.9





#23

Vinyl Acetate

Concen: 273.844 ug/l

RT: 5.963 min Scan# 69

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 779586

Ion Ratio Lower Upper

43 100

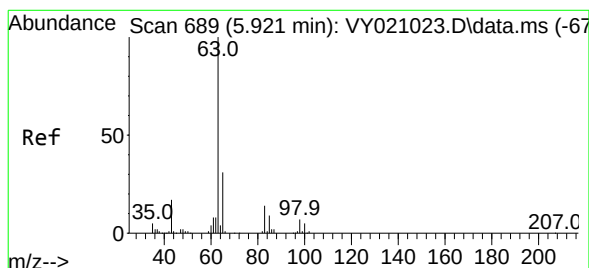
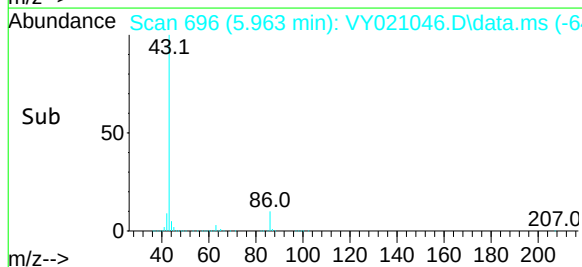
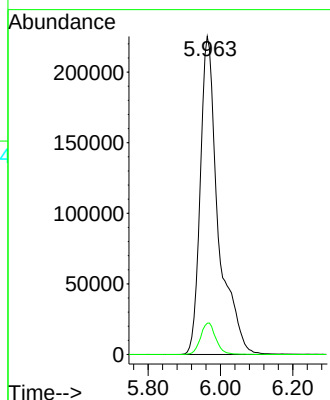
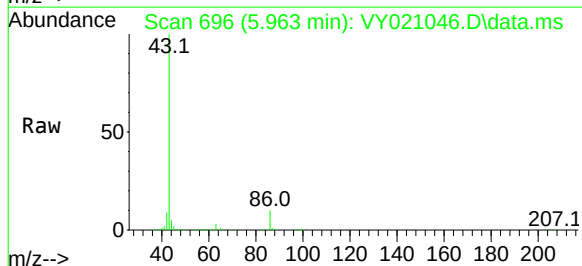
86 9.8 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#24

1,1-Dichloroethane

Concen: 52.245 ug/l

RT: 5.921 min Scan# 689

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

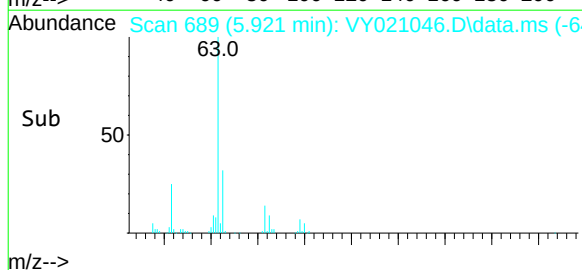
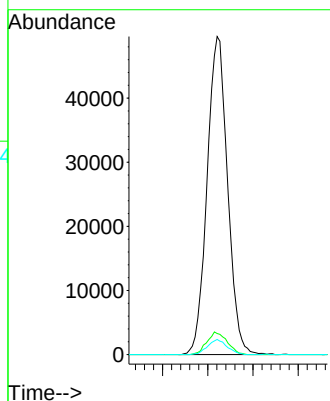
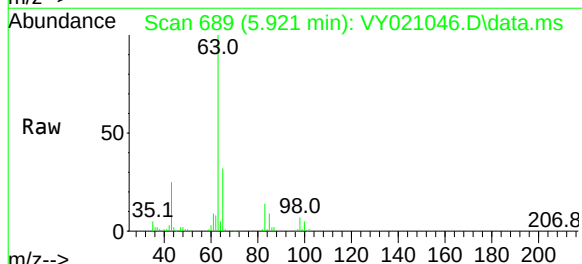
Tgt Ion: 63 Resp: 156317

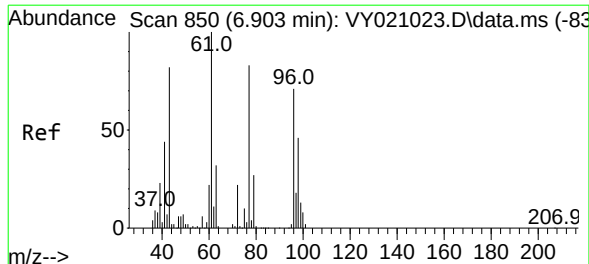
Ion Ratio Lower Upper

63 100

98 6.6 3.8 11.4

100 4.8 2.1 6.2





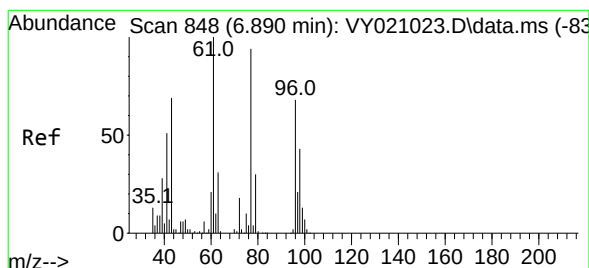
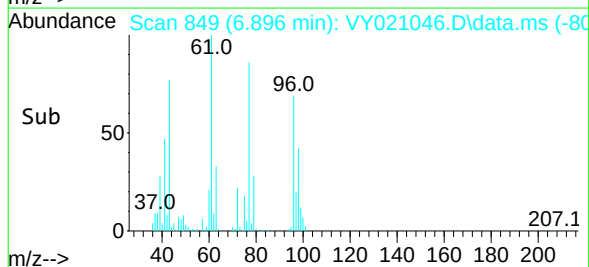
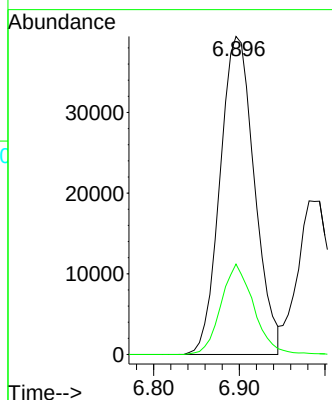
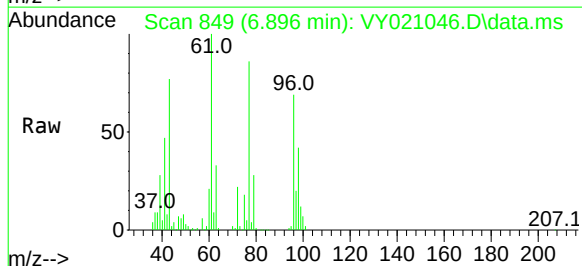
#25
2-Butanone
Concen: 272.159 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.007 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 110174
Ion Ratio Lower Upper
43 100
72 28.4 21.4 32.2

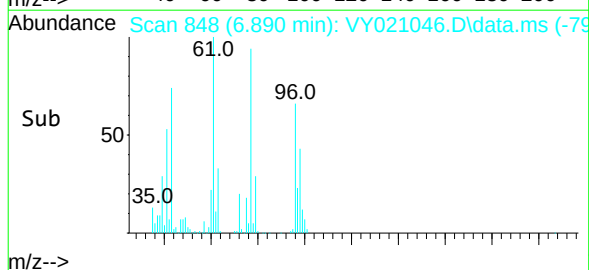
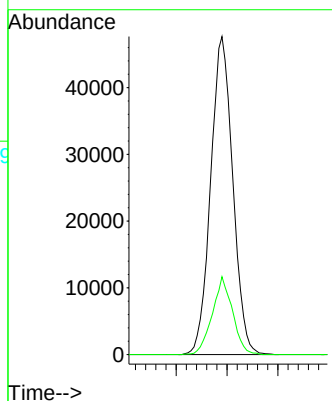
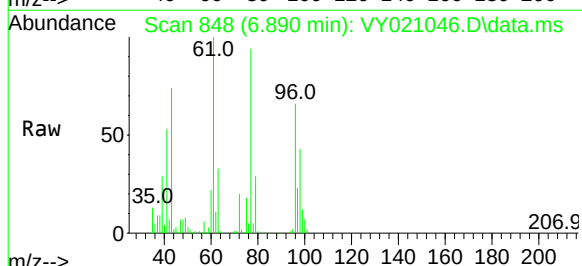
Manual Integrations
APPROVED

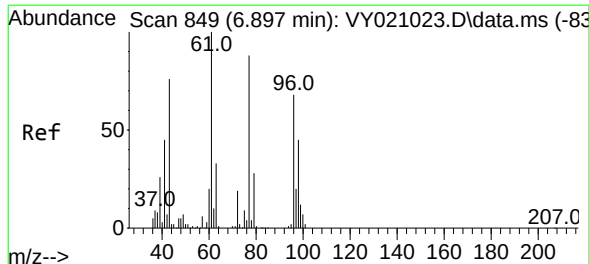
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#26
2,2-Dichloropropane
Concen: 51.967 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

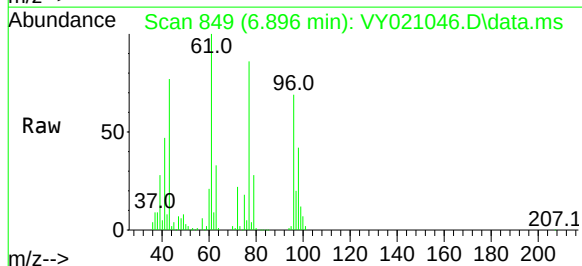
Tgt Ion: 77 Resp: 143867
Ion Ratio Lower Upper
77 100
97 22.4 11.7 35.0





#27
cis-1,2-Dichloroethene
Concen: 52.870 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

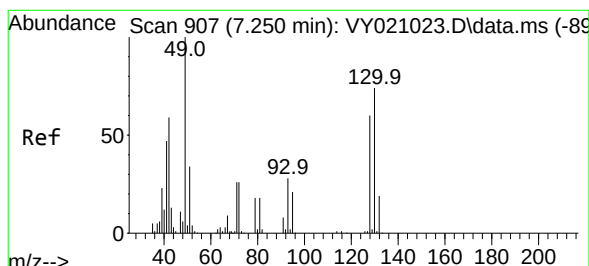
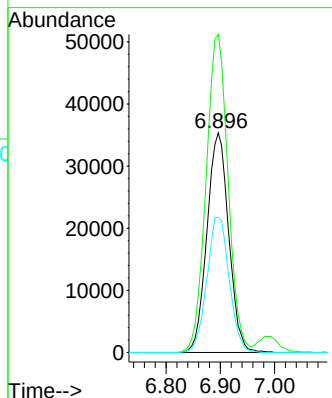
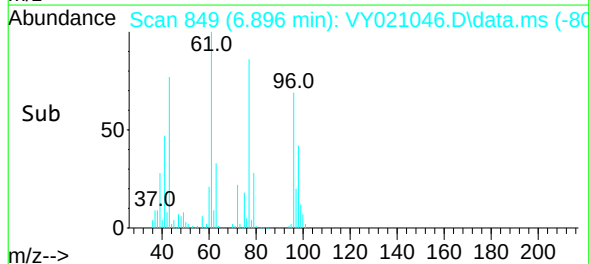
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050



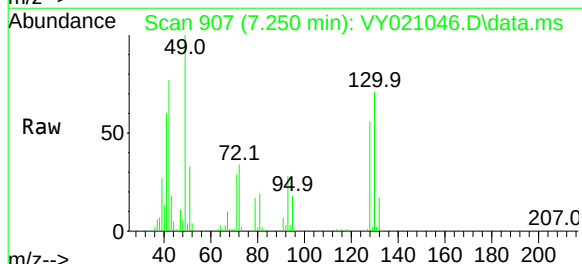
Tgt Ion: 96 Resp: 98474
Ion Ratio Lower Upper
96 100
61 146.4 0.0 278.8
98 63.4 0.0 127.0

Manual Integrations
APPROVED

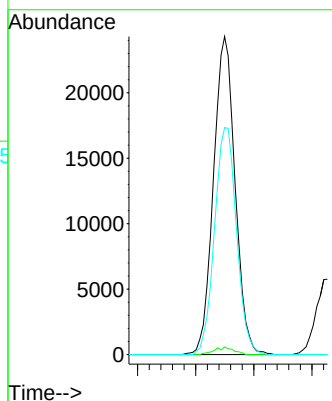
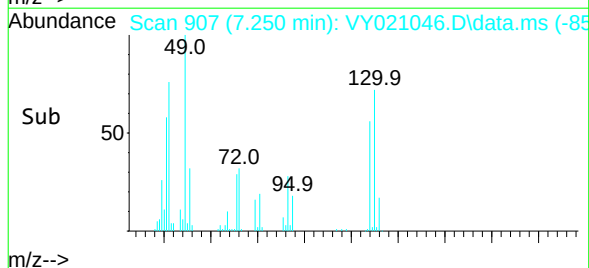
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

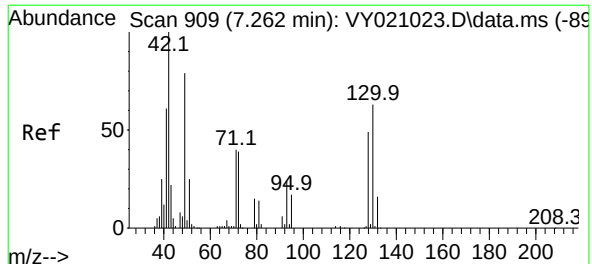


#28
Bromochloromethane
Concen: 52.992 ug/l
RT: 7.250 min Scan# 907
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47



Tgt Ion: 49 Resp: 62695
Ion Ratio Lower Upper
49 100
129 2.1 0.0 3.8
130 72.8 59.8 89.8





#29

Tetrahydrofuran

Concen: 277.873 ug/l

RT: 7.262 min Scan# 909

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 76116

Ion Ratio Lower Upper

42 100

72 42.2 36.6 54.8

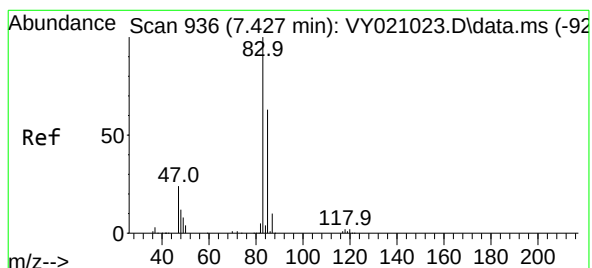
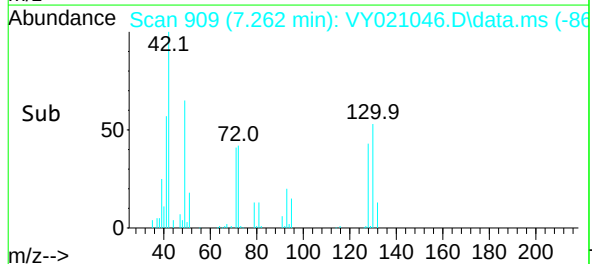
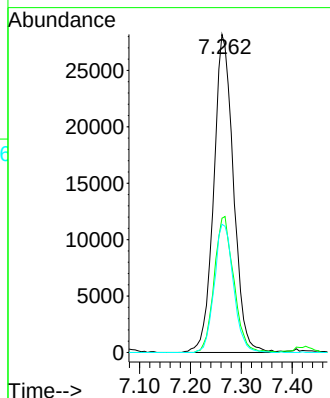
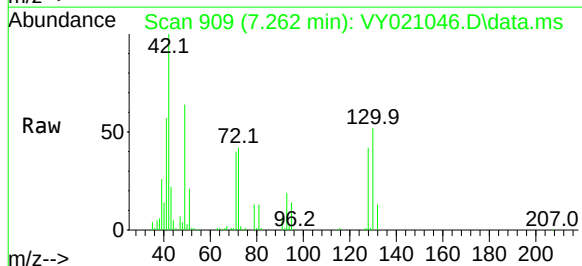
71 39.0 33.8 50.6

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#30

Chloroform

Concen: 52.406 ug/l

RT: 7.426 min Scan# 936

Delta R.T. -0.000 min

Lab File: VY021046.D

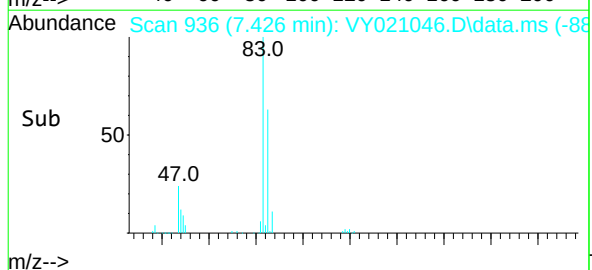
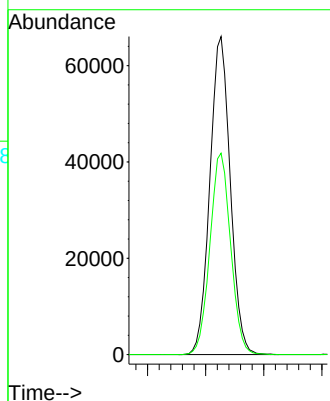
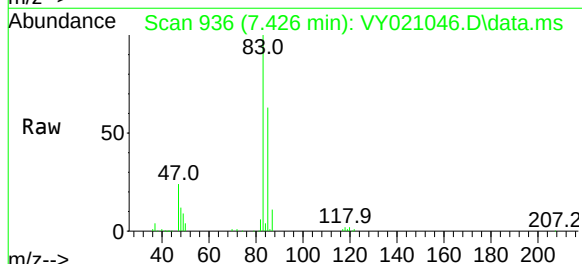
Acq: 04 Feb 2025 09:47

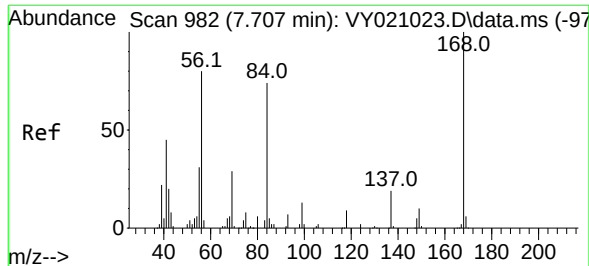
Tgt Ion: 83 Resp: 161057

Ion Ratio Lower Upper

83 100

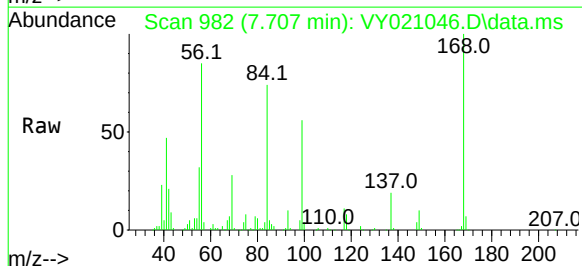
85 63.3 51.2 76.8





#31
Cyclohexane
Concen: 50.543 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

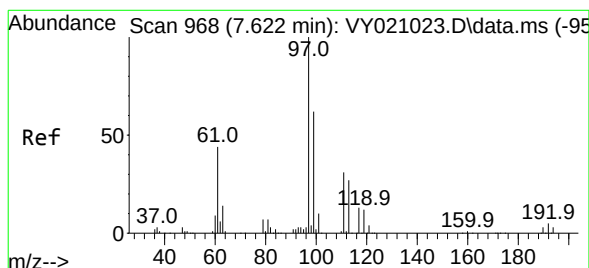
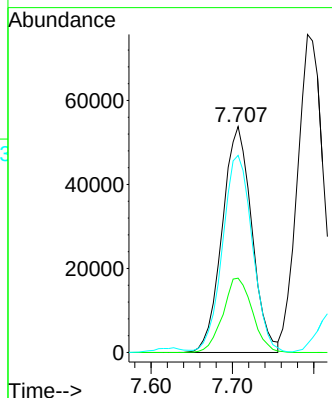
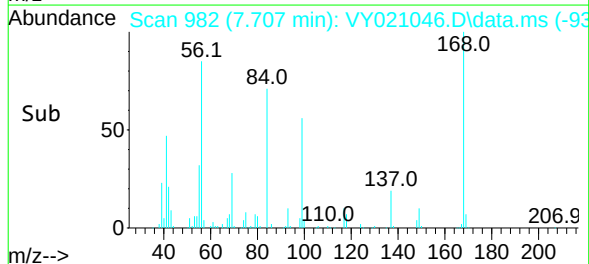
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050



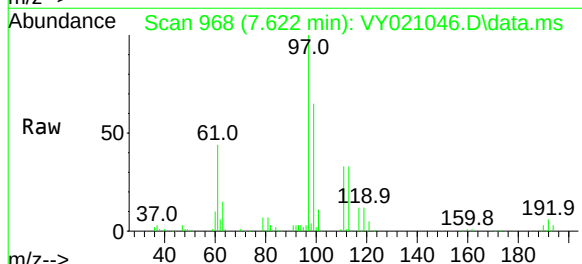
Tgt Ion: 56 Resp: 136180
Ion Ratio Lower Upper
56 100
69 32.9 27.0 40.6
84 85.7 71.8 107.6

Manual Integrations
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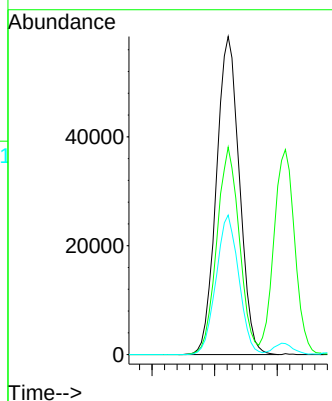
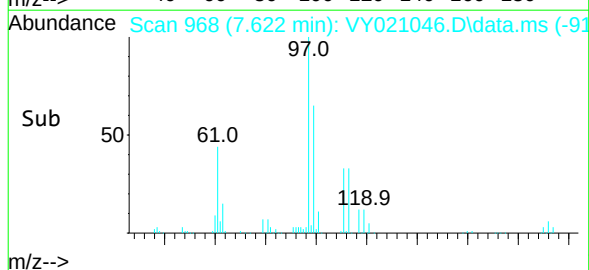
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

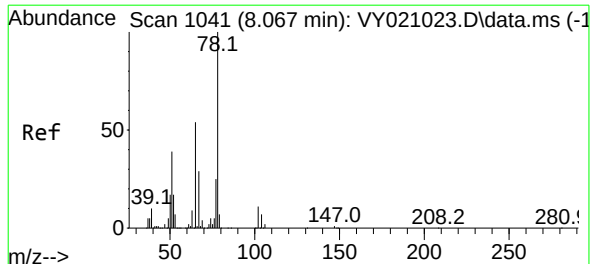


#32
1,1,1-Trichloroethane
Concen: 52.284 ug/l
RT: 7.622 min Scan# 968
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47



Tgt Ion: 97 Resp: 149391
Ion Ratio Lower Upper
97 100
99 64.2 51.2 76.8
61 43.3 35.0 52.6





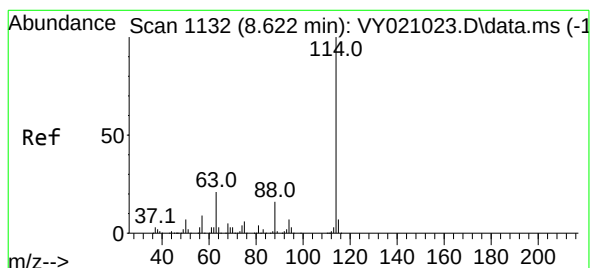
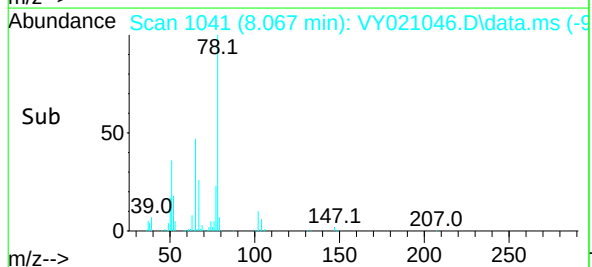
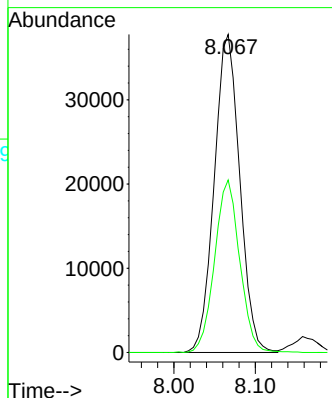
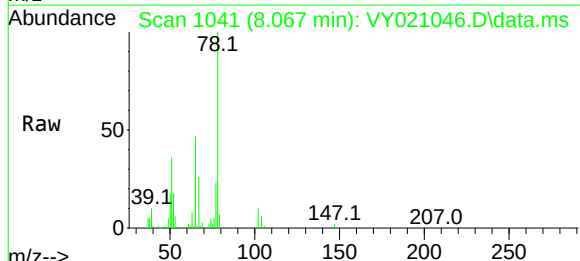
#33
1,2-Dichloroethane-d4
Concen: 52.095 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 82293
Ion Ratio Lower Upper
65 100
67 53.4 0.0 109.0

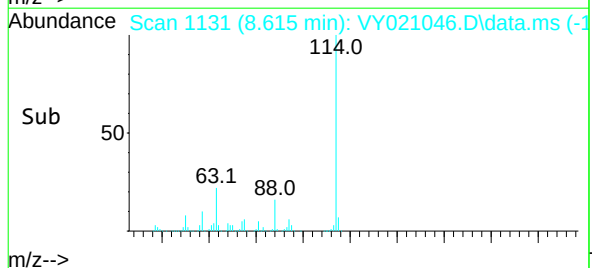
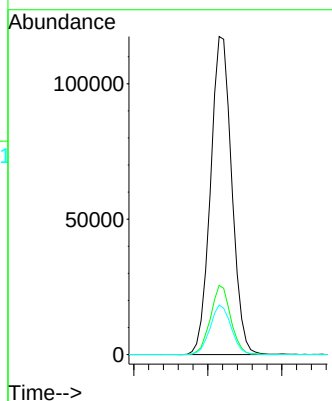
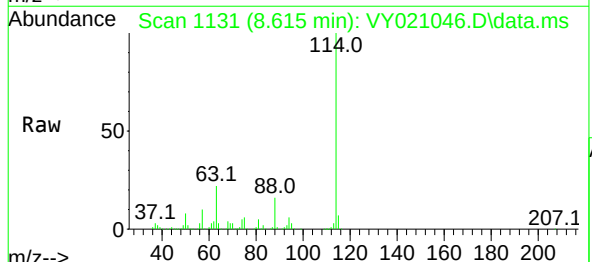
Manual Integrations
APPROVED

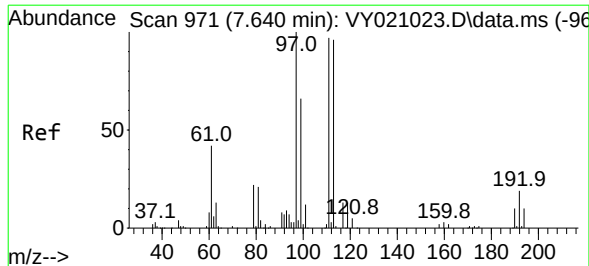
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.007 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

Tgt Ion:114 Resp: 233780
Ion Ratio Lower Upper
114 100
63 21.8 0.0 37.4
88 15.6 0.0 29.0





#35

Dibromofluoromethane

Concen: 53.452 ug/l

RT: 7.640 min Scan# 971

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 113 Resp: 80083

Ion Ratio Lower Upper

113 100

111 102.1 83.8 125.6

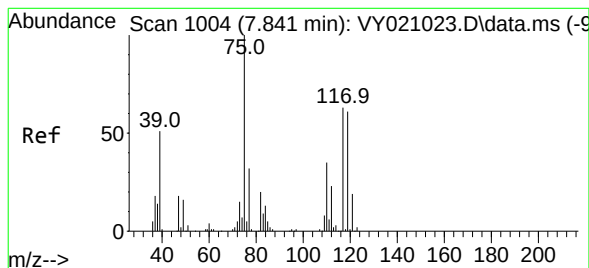
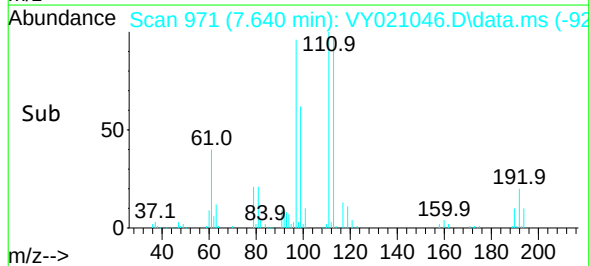
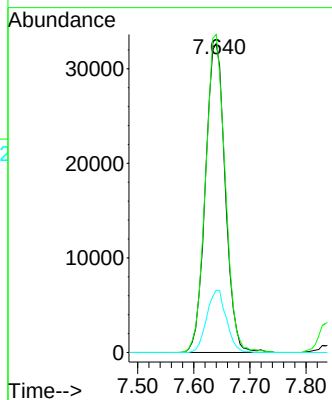
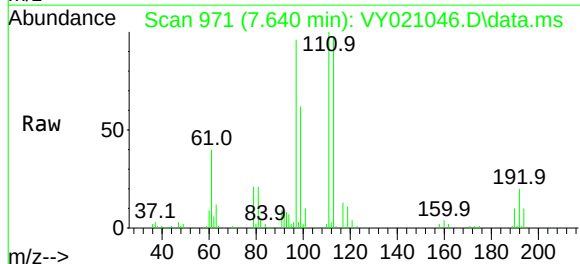
192 20.0 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#36

1,1-Dichloropropene

Concen: 53.591 ug/l

RT: 7.841 min Scan# 1004

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

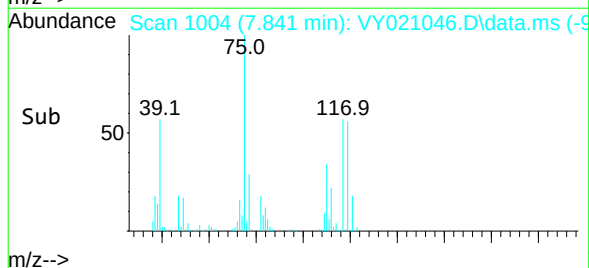
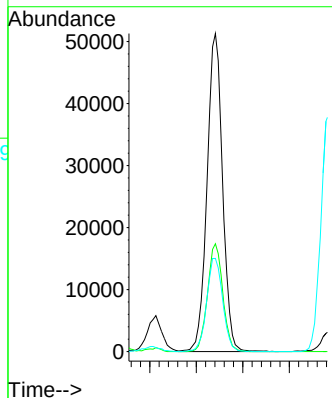
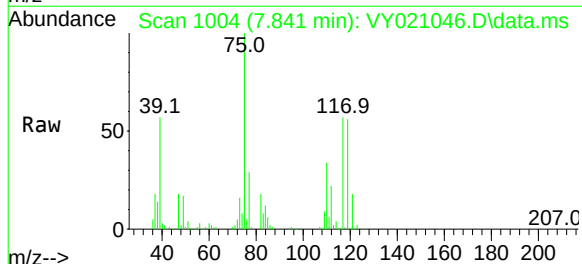
Tgt Ion: 75 Resp: 118925

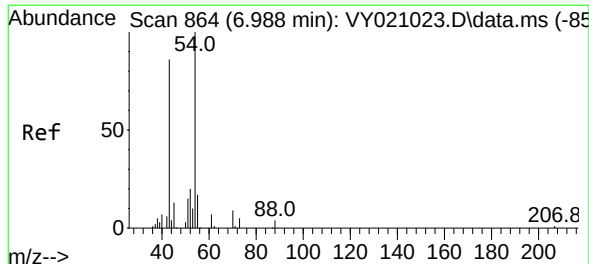
Ion Ratio Lower Upper

75 100

110 33.4 17.4 52.3

77 30.3 24.7 37.1





#37

Ethyl Acetate

Concen: 56.091 ug/l

RT: 6.981 min Scan# 864

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 54605

Ion Ratio Lower Upper

43 100

61 13.0 11.0 16.6

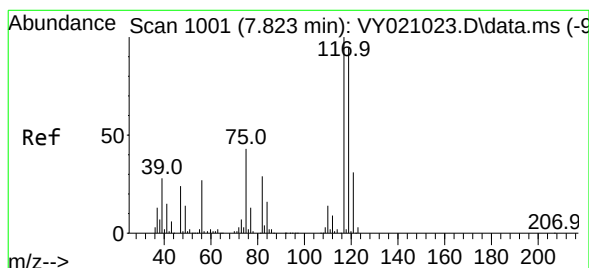
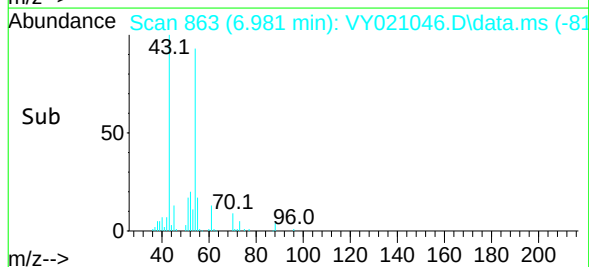
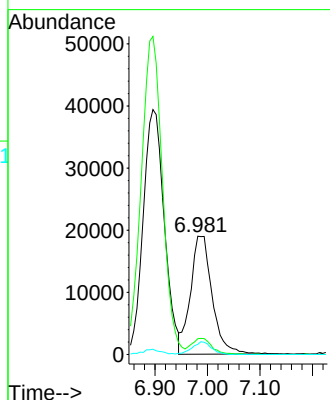
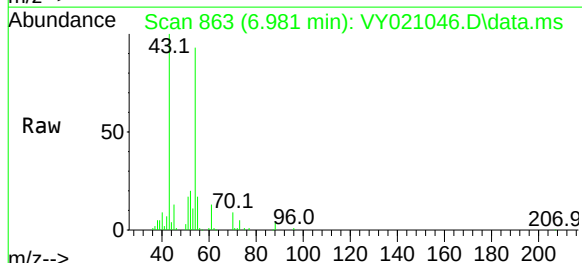
70 9.5 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#38

Carbon Tetrachloride

Concen: 53.307 ug/l

RT: 7.823 min Scan# 1001

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

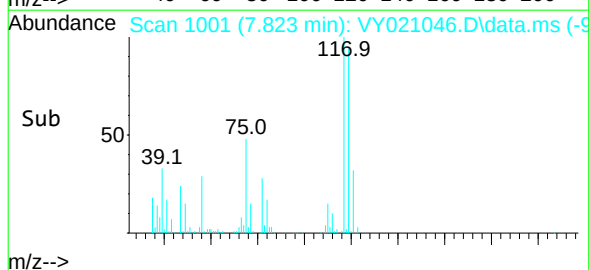
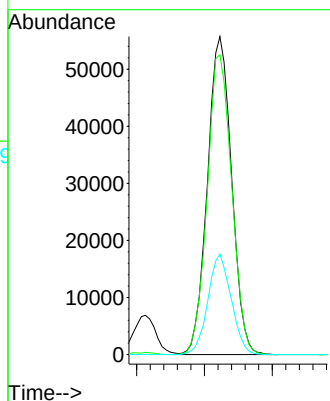
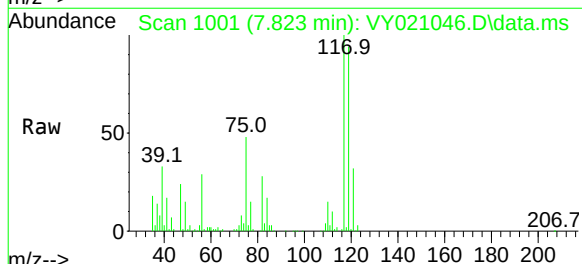
Tgt Ion:117 Resp: 138223

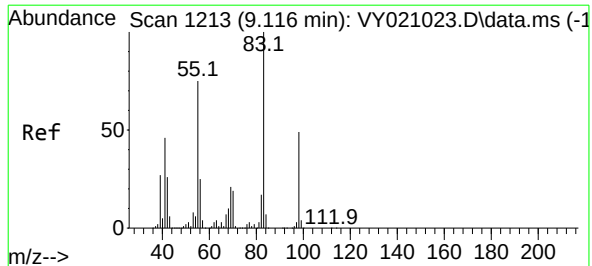
Ion Ratio Lower Upper

117 100

119 94.2 76.0 114.0

121 31.6 24.2 36.2





#39

Methylcyclohexane

Concen: 53.677 ug/l

RT: 9.109 min Scan# 1213

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 145702

Ion Ratio Lower Upper

83 100

55 77.0 59.7 89.5

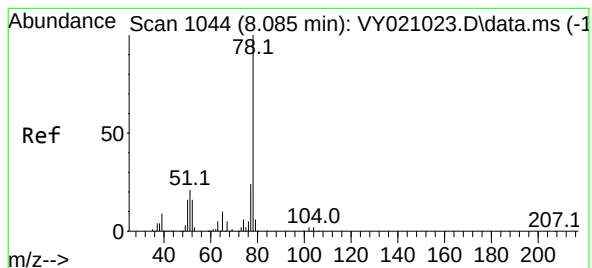
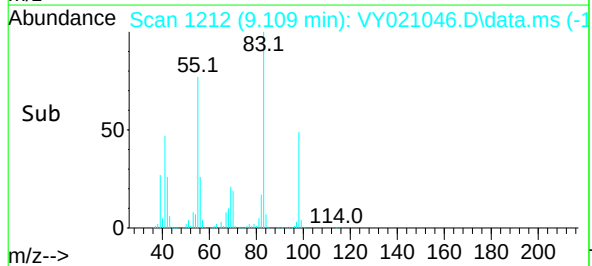
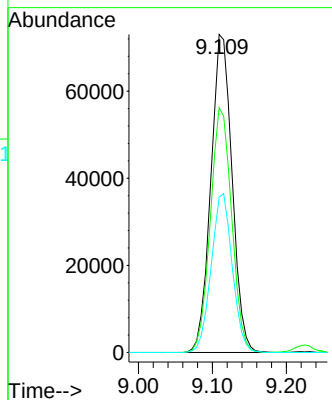
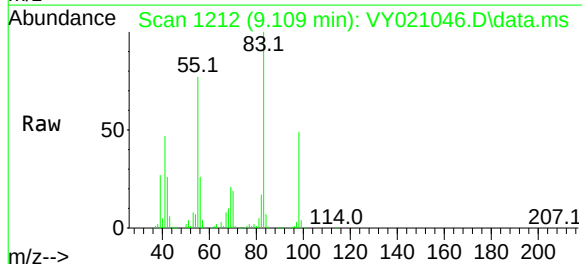
98 48.8 38.0 57.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#40

Benzene

Concen: 53.888 ug/l

RT: 8.085 min Scan# 1044

Delta R.T. -0.000 min

Lab File: VY021046.D

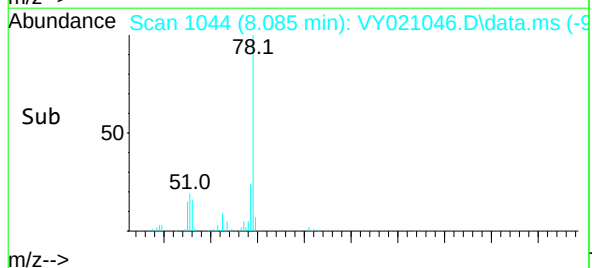
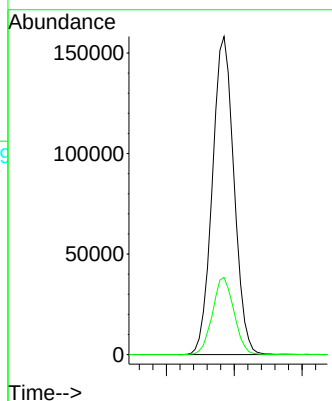
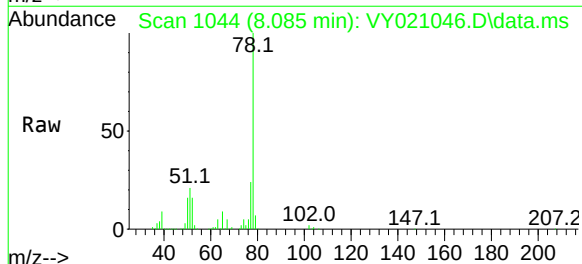
Acq: 04 Feb 2025 09:47

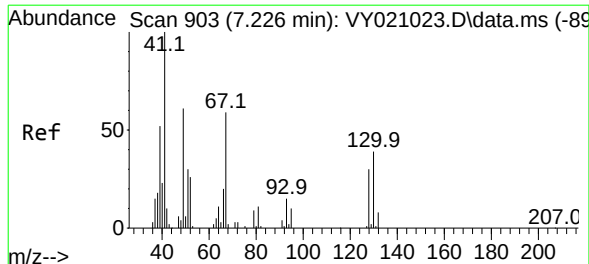
Tgt Ion: 78 Resp: 350936

Ion Ratio Lower Upper

78 100

77 24.3 18.8 28.2





#41

Methacrylonitrile

Concen: 45.147 ug/l

RT: 7.225 min Scan# 90

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 25427

Ion Ratio Lower Upper

41 100

39 69.4 41.9 62.9

67 86.0 59.8 89.6

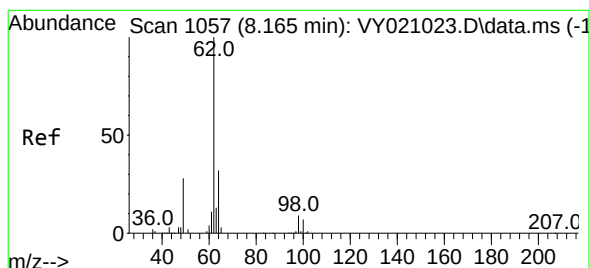
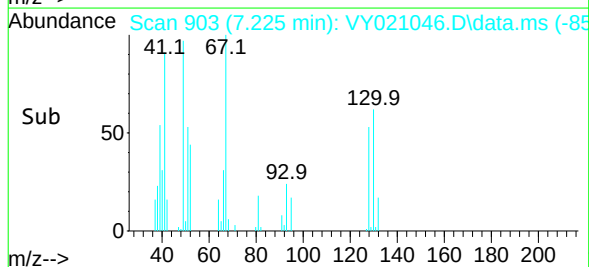
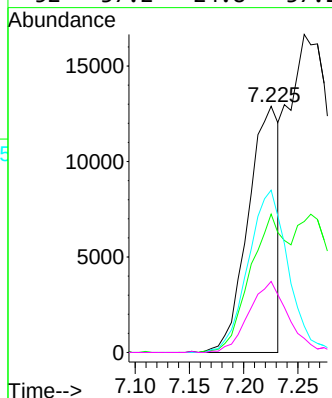
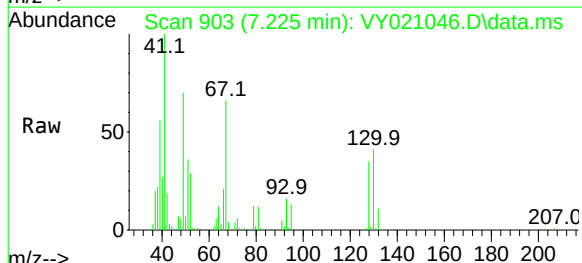
52 37.2 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#42

1,2-Dichloroethane

Concen: 53.521 ug/l

RT: 8.158 min Scan# 1056

Delta R.T. -0.007 min

Lab File: VY021046.D

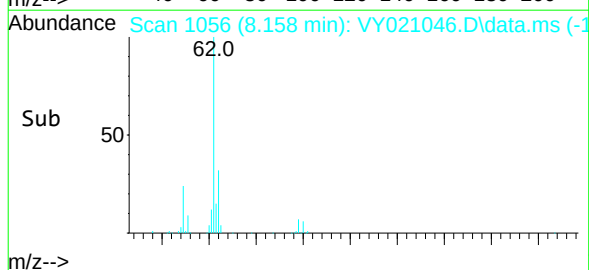
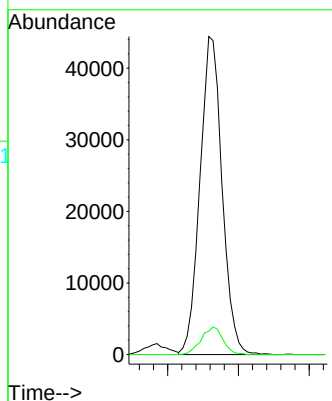
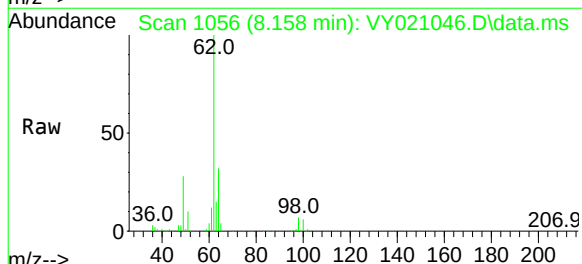
Acq: 04 Feb 2025 09:47

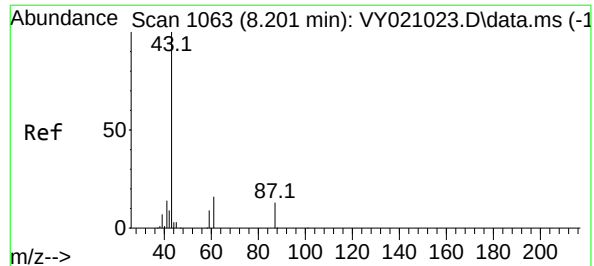
Tgt Ion: 62 Resp: 96687

Ion Ratio Lower Upper

62 100

98 8.6 0.0 20.2





#43

Isopropyl Acetate

Concen: 55.633 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 107615

Ion Ratio Lower Upper

43 100

61 18.8 24.8 37.2

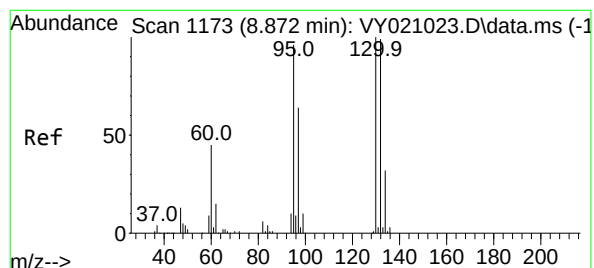
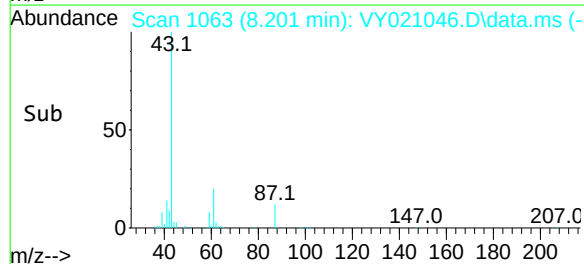
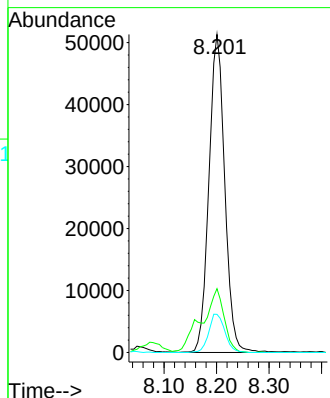
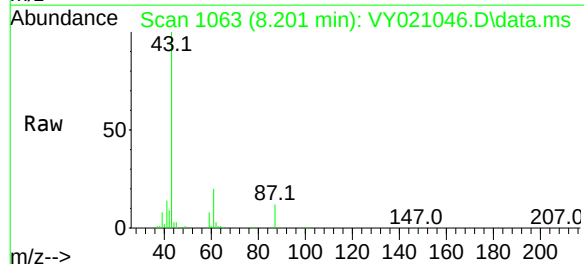
87 12.3 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#44

Trichloroethene

Concen: 52.820 ug/l

RT: 8.871 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VY021046.D

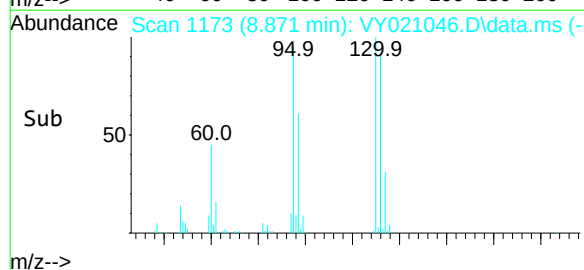
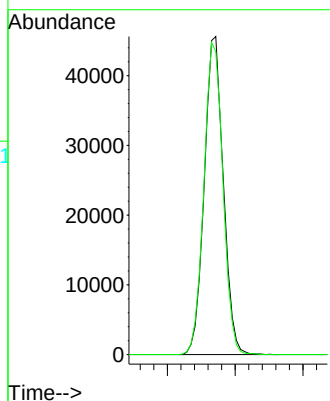
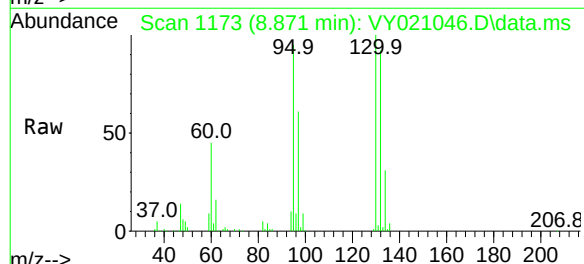
Acq: 04 Feb 2025 09:47

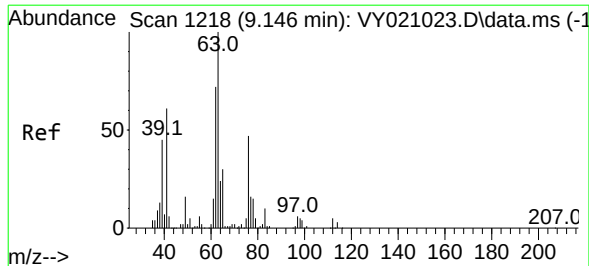
Tgt Ion:130 Resp: 88871

Ion Ratio Lower Upper

130 100

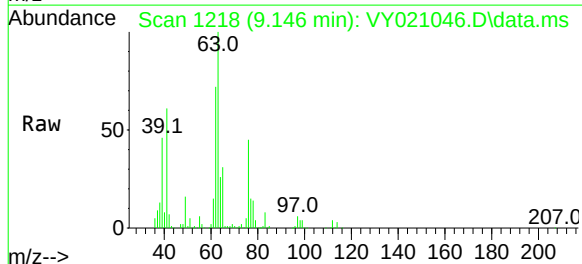
95 95.2 0.0 203.8





#45
1,2-Dichloropropane
Concen: 53.991 ug/l
RT: 9.146 min Scan# 1218
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

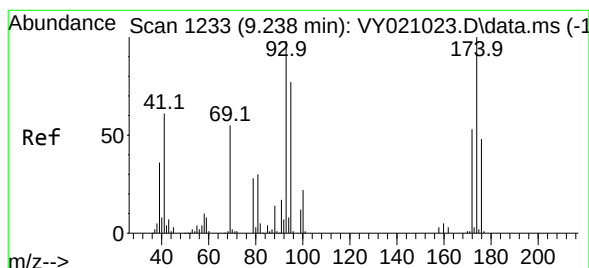
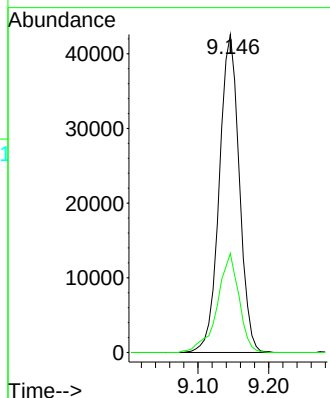
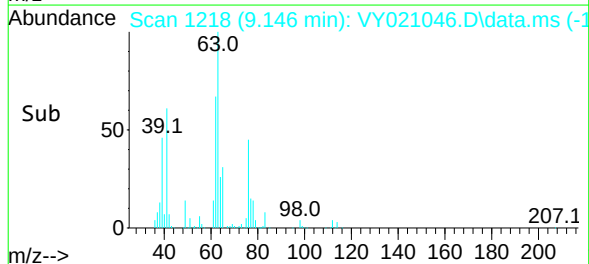
Instrument :
MSVOA_Y
ClientSampleId :
VSTDC050



Tgt Ion: 63 Resp: 83455
Ion Ratio Lower Upper
63 100
65 31.1 24.6 36.8

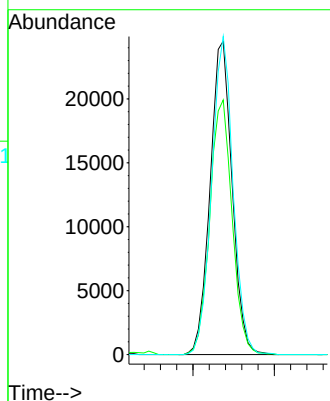
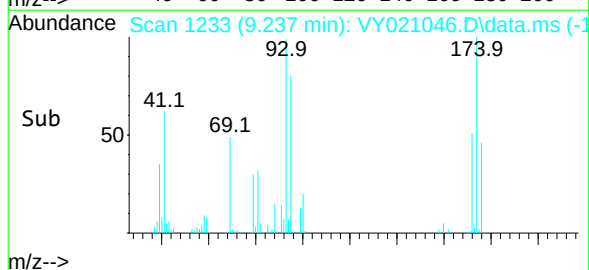
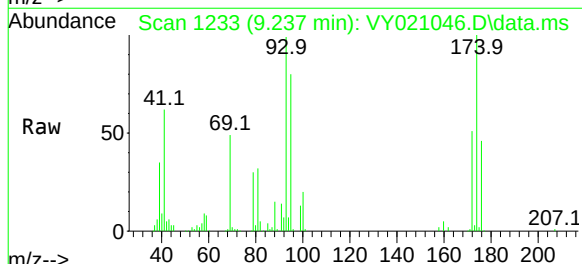
Manual Integrations
APPROVED

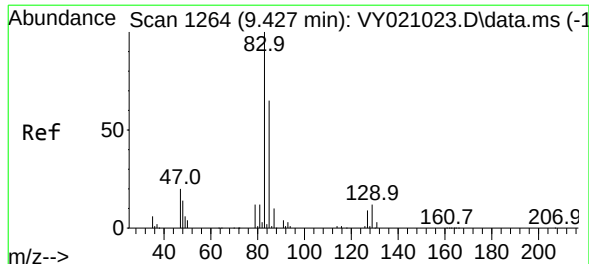
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#46
Dibromomethane
Concen: 53.884 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

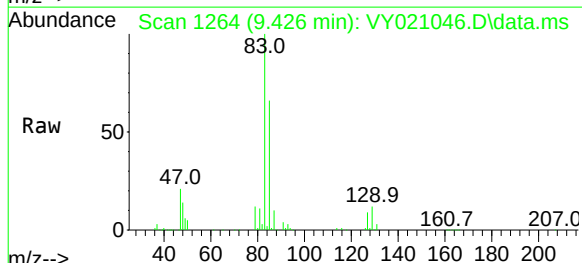
Tgt Ion: 93 Resp: 46115
Ion Ratio Lower Upper
93 100
95 82.2 66.6 99.8
174 98.7 73.8 110.6





#47
Bromodichloromethane
Concen: 52.810 ug/l
RT: 9.426 min Scan# 1264
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

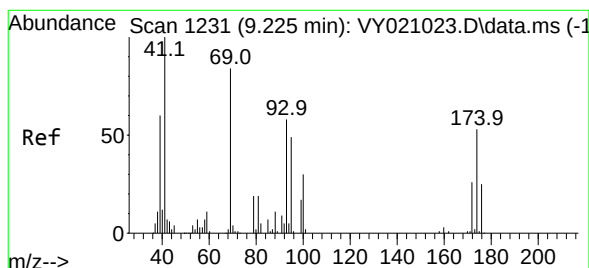
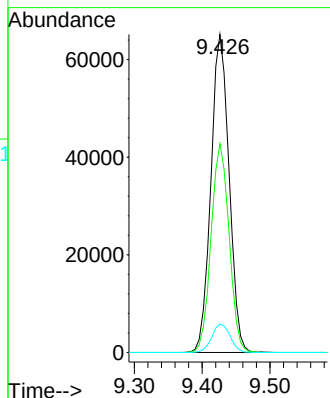
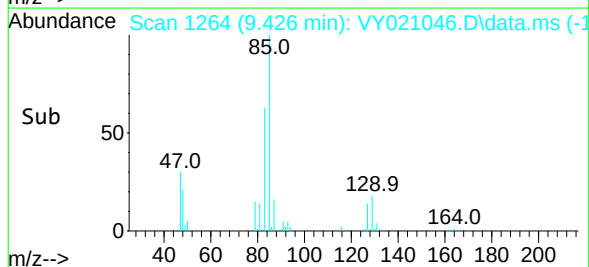
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050



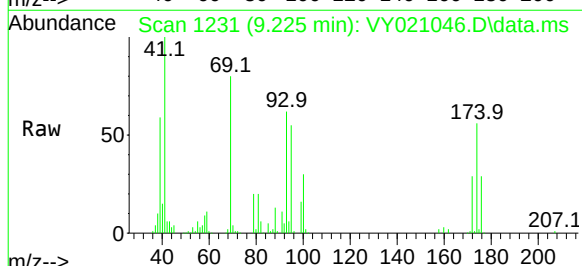
Tgt Ion: 83 Resp: 121213
Ion Ratio Lower Upper
83 100
85 65.7 53.2 79.8
127 8.9 6.4 9.6

Manual Integrations
APPROVED

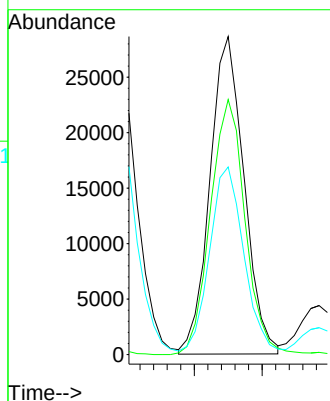
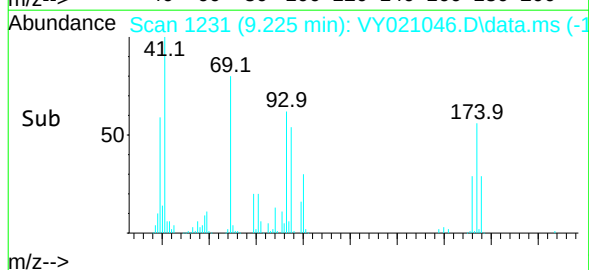
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

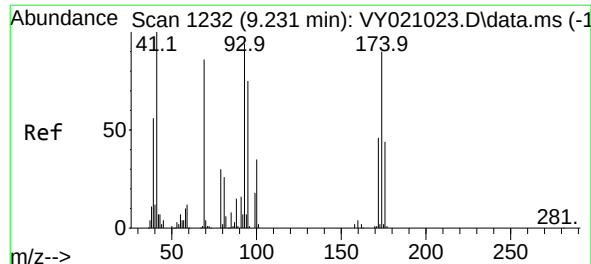


#48
Methyl methacrylate
Concen: 56.838 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47



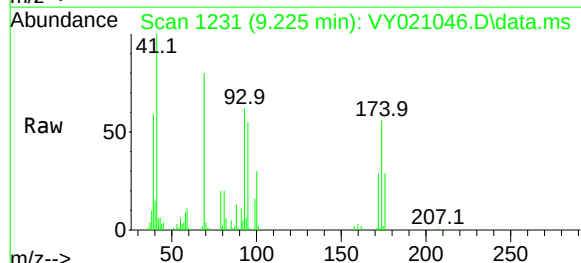
Tgt Ion: 41 Resp: 50081
Ion Ratio Lower Upper
41 100
69 81.9 72.1 108.1
39 57.7 42.8 64.2





#49
1,4-Dioxane
Concen: 1150.358 ug/l
RT: 9.225 min Scan# 1232
Delta R.T. -0.007 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

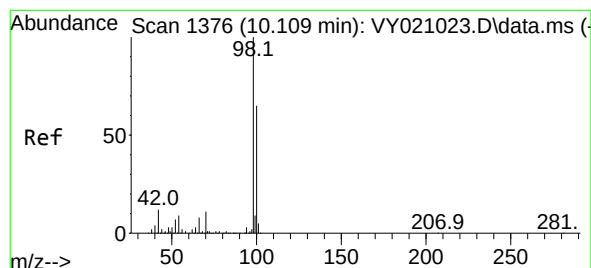
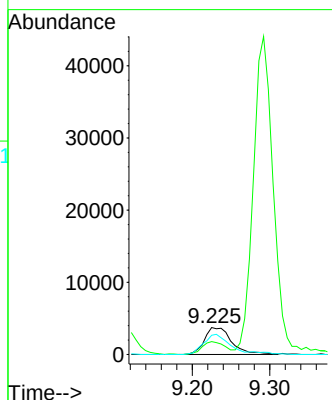
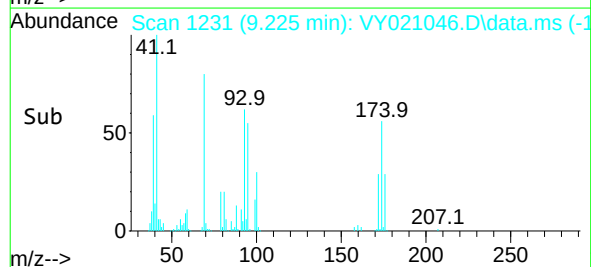
Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050



Tgt Ion: 88 Resp: 9165
Ion Ratio Lower Upper
88 100
43 39.7 28.2 42.4
58 76.0 52.2 78.2

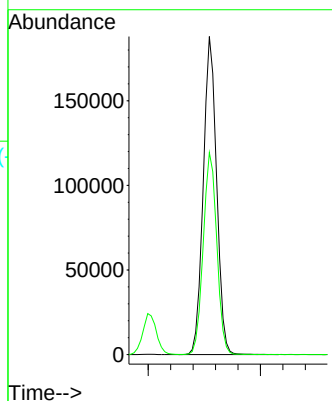
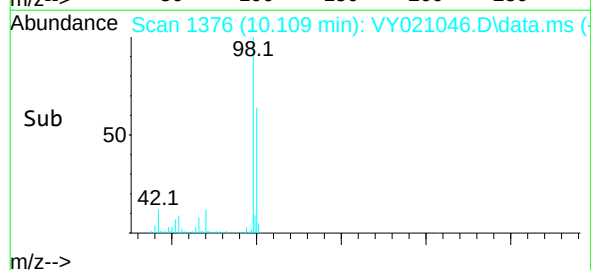
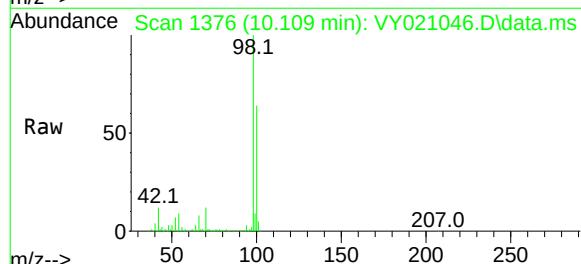
Manual Integrations
APPROVED

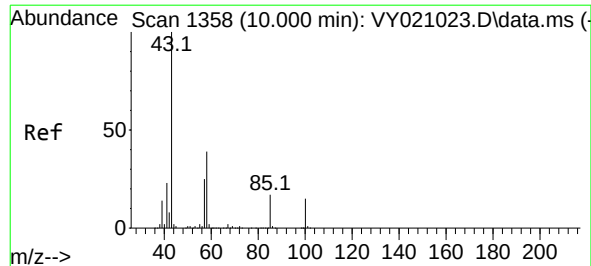
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#50
Toluene-d8
Concen: 54.470 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

Tgt Ion: 98 Resp: 310687
Ion Ratio Lower Upper
98 100
100 64.5 52.3 78.5





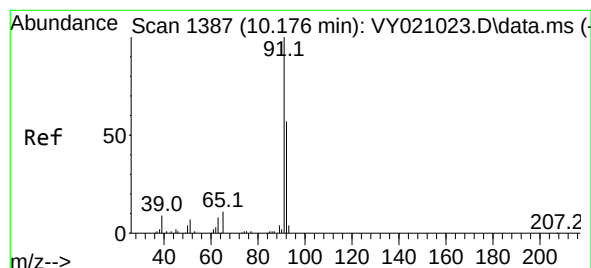
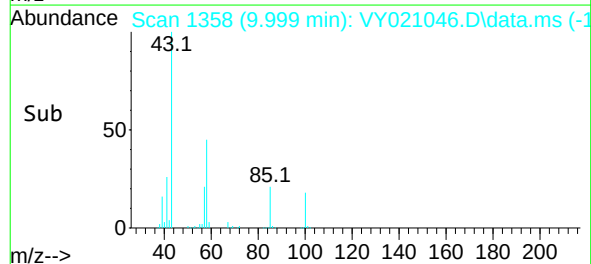
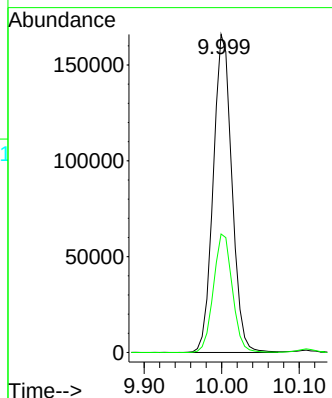
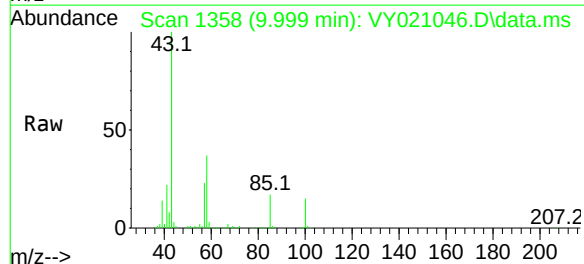
#51
4-Methyl-2-Pentanone
Concen: 285.788 ug/l
RT: 9.999 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 277997
Ion Ratio Lower Upper
43 100
58 37.7 32.2 48.2

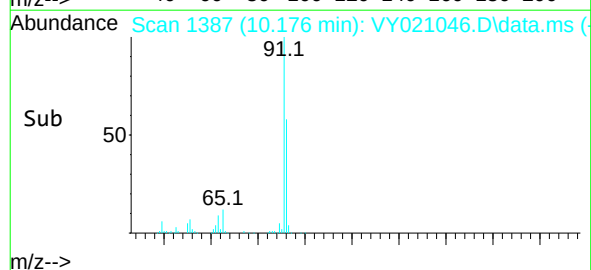
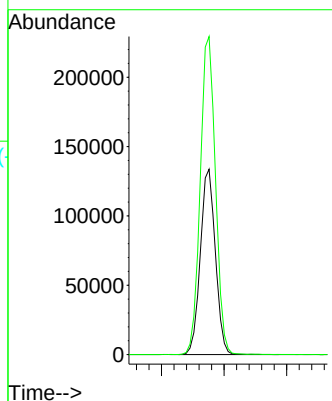
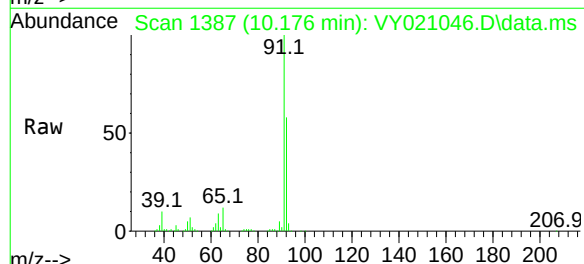
Manual Integrations
APPROVED

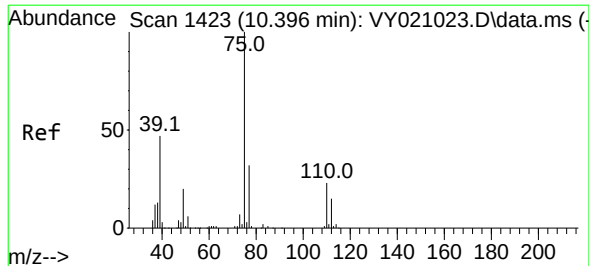
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#52
Toluene
Concen: 54.566 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

Tgt Ion: 92 Resp: 223128
Ion Ratio Lower Upper
92 100
91 173.8 137.6 206.4





#53

t-1,3-Dichloropropene

Concen: 55.115 ug/l

RT: 10.395 min Scan# 1423

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 113590

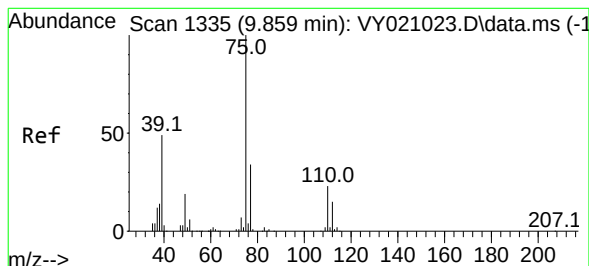
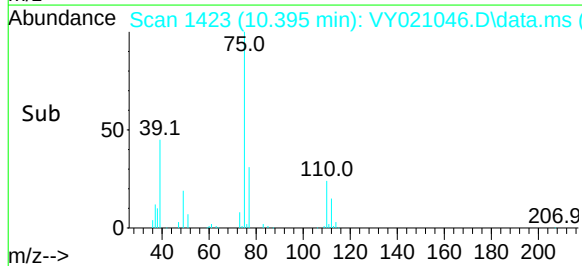
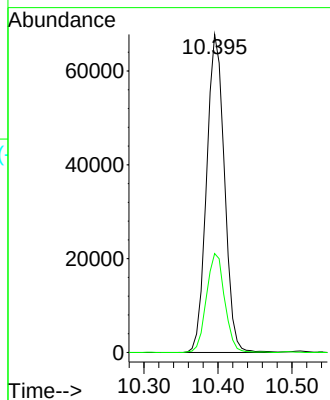
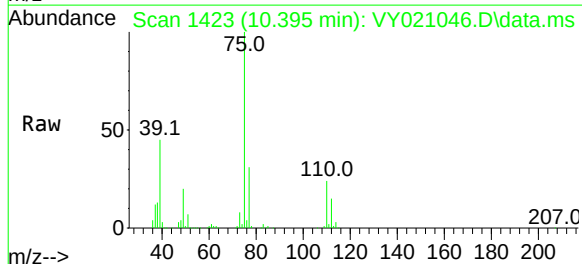
Ion Ratio Lower Upper

75 100

77 31.1 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#54

cis-1,3-Dichloropropene

Concen: 54.522 ug/l

RT: 9.859 min Scan# 1335

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

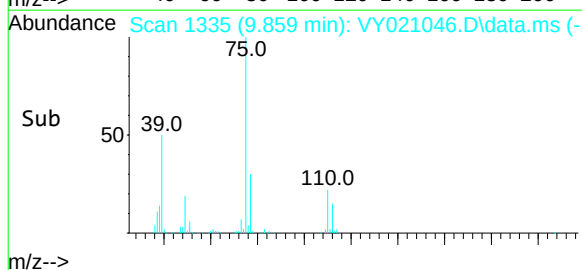
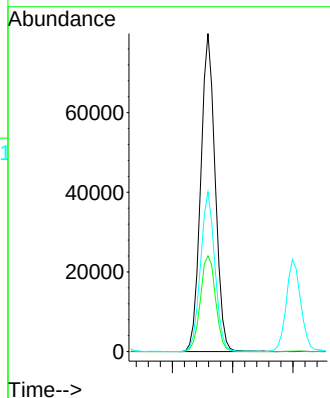
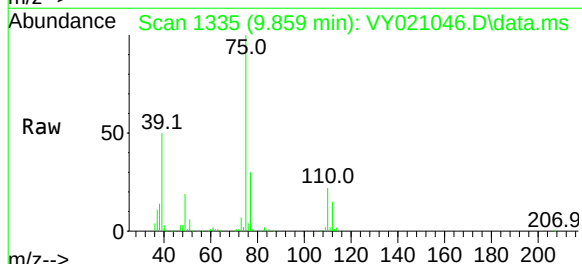
Tgt Ion: 75 Resp: 133048

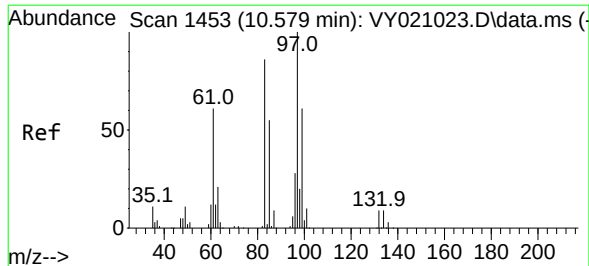
Ion Ratio Lower Upper

75 100

77 30.1 24.6 36.8

39 50.2 33.6 50.4





#55

1,1,2-Trichloroethane

Concen: 53.417 ug/l

RT: 10.578 min Scan# 1453

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 59199

Ion Ratio Lower Upper

97 100

83 81.7 69.4 104.2

85 54.0 43.9 65.9

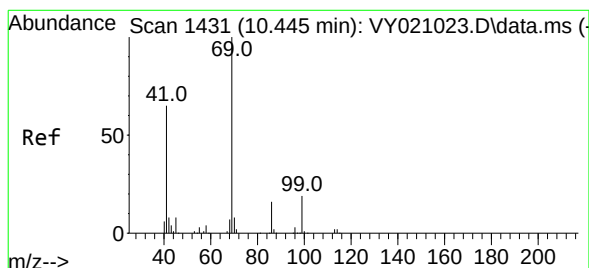
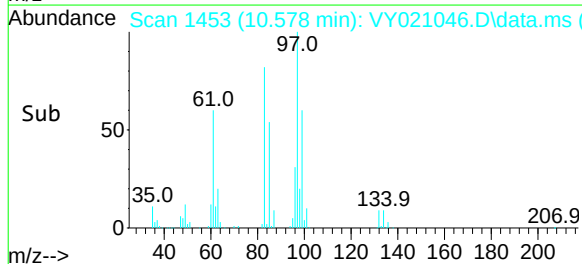
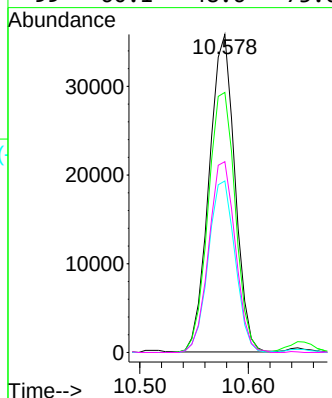
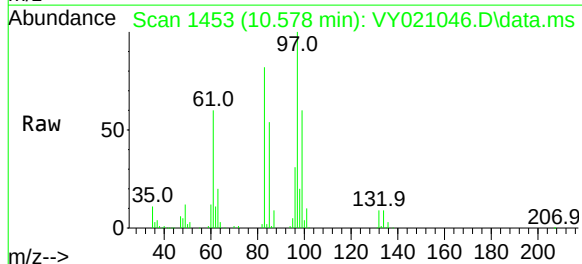
99 60.1 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#56

Ethyl methacrylate

Concen: 56.536 ug/l

RT: 10.444 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

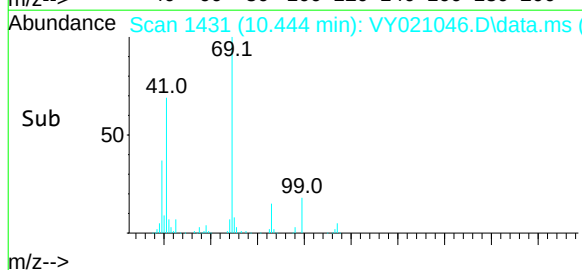
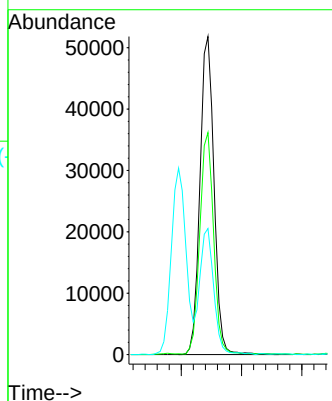
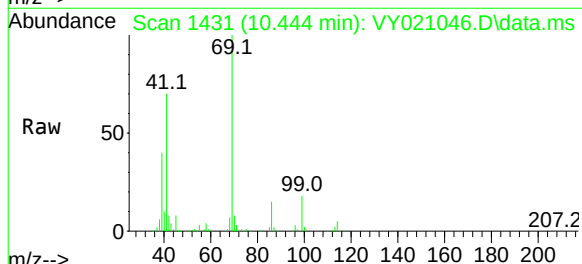
Tgt Ion: 69 Resp: 83819

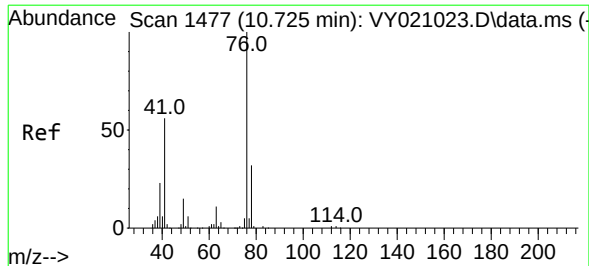
Ion Ratio Lower Upper

69 100

41 68.3 49.2 73.8

39 39.7 26.8 40.2





#57

1,3-Dichloropropane

Concen: 55.271 ug/l

RT: 10.719 min Scan# 1477

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 106023

Ion Ratio Lower Upper

76 100

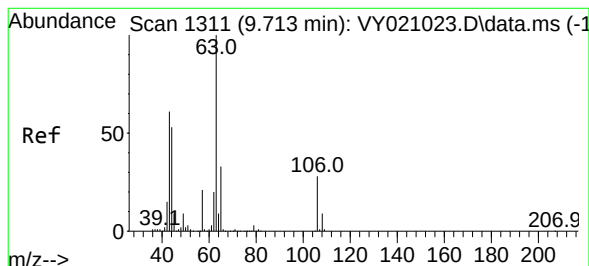
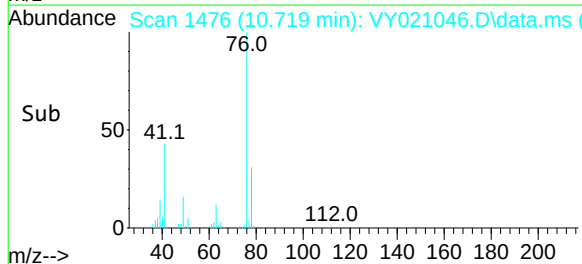
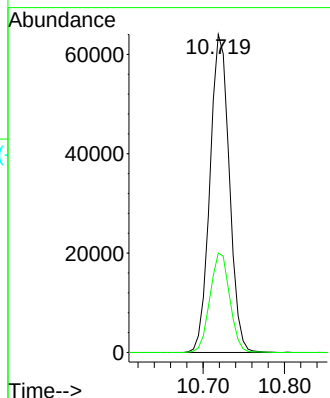
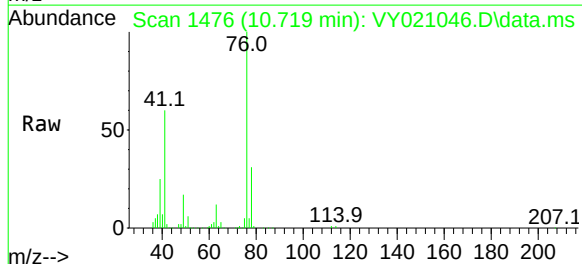
78 31.9 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 230.818 ug/l

RT: 9.713 min Scan# 1311

Delta R.T. -0.000 min

Lab File: VY021046.D

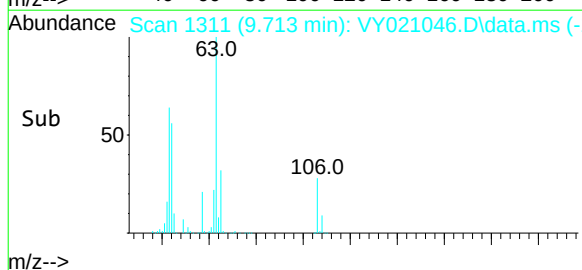
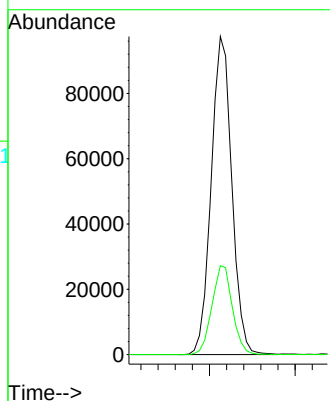
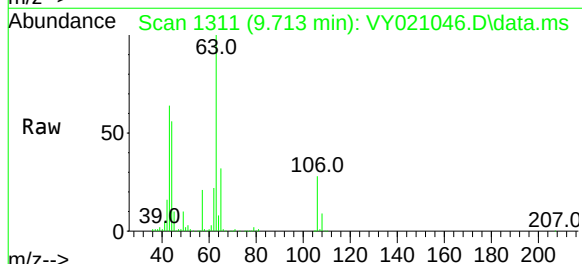
Acq: 04 Feb 2025 09:47

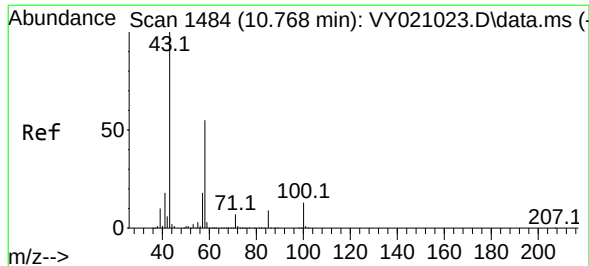
Tgt Ion: 63 Resp: 162803

Ion Ratio Lower Upper

63 100

106 27.7 22.4 33.6





#59

2-Hexanone

Concen: 293.528 ug/l

RT: 10.761 min Scan# 1484

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 183839

Ion Ratio Lower Upper

43 100

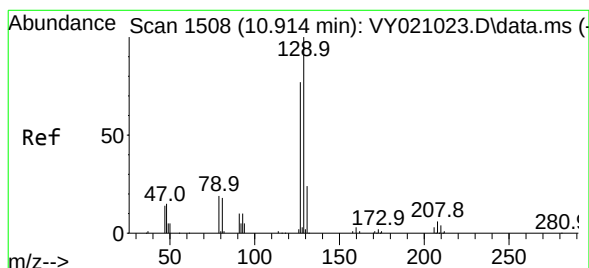
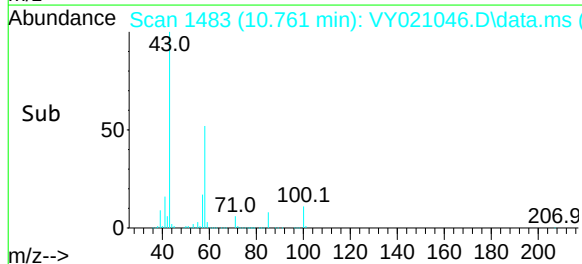
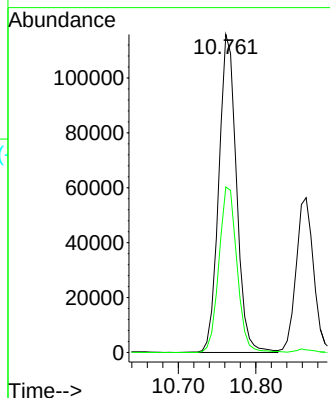
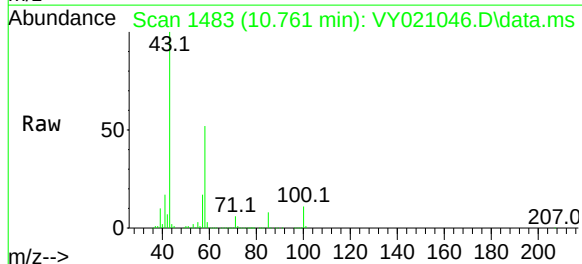
58 53.1 28.1 84.3

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#60

Dibromochloromethane

Concen: 53.995 ug/l

RT: 10.914 min Scan# 1508

Delta R.T. -0.000 min

Lab File: VY021046.D

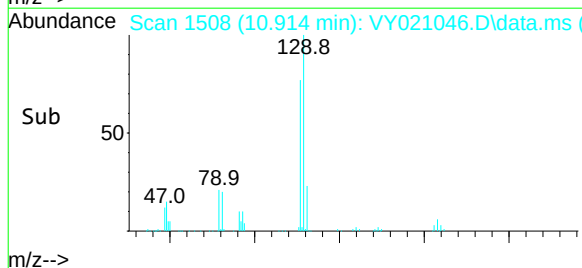
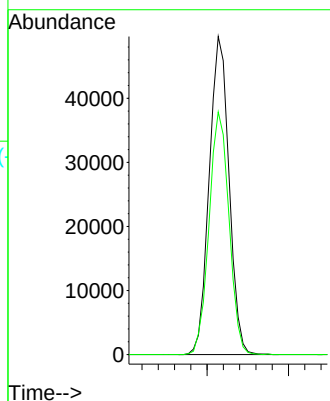
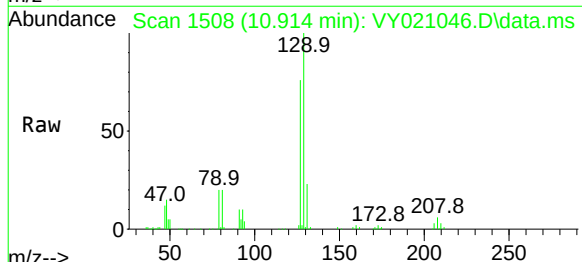
Acq: 04 Feb 2025 09:47

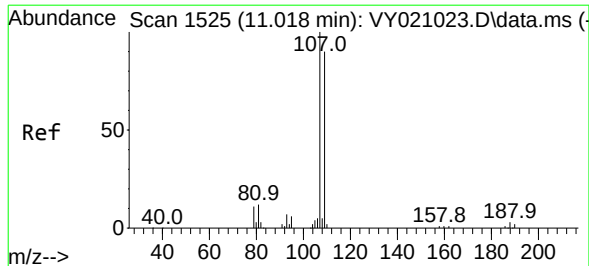
Tgt Ion:129 Resp: 84035

Ion Ratio Lower Upper

129 100

127 76.6 39.2 117.6





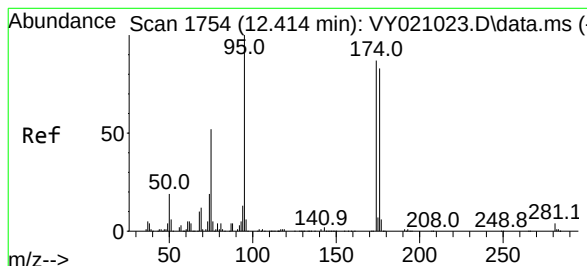
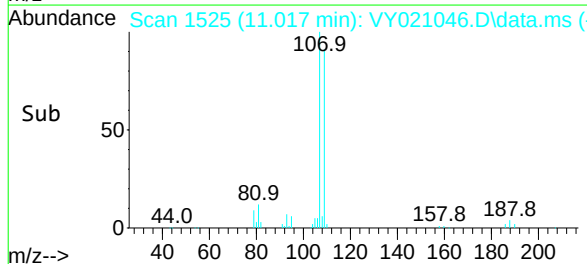
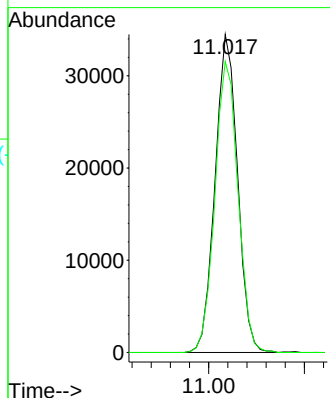
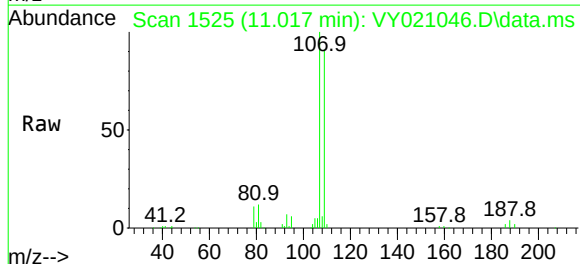
#61
1,2-Dibromoethane
Concen: 54.075 ug/l
RT: 11.017 min Scan# 1525
Delta R.T. -0.000 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 107 Resp: 56133
Ion Ratio Lower Upper
107 100
109 94.3 75.4 113.2

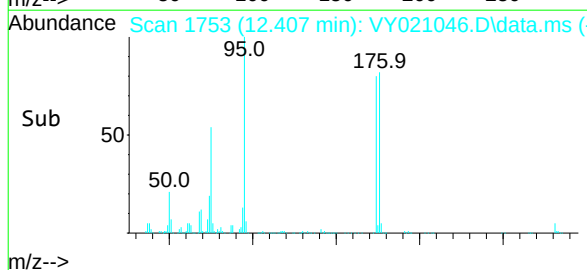
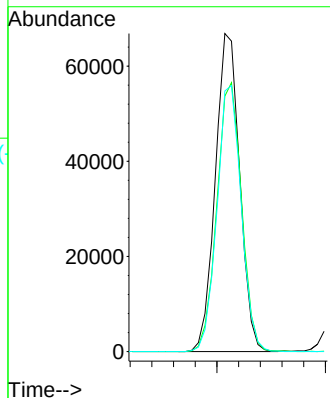
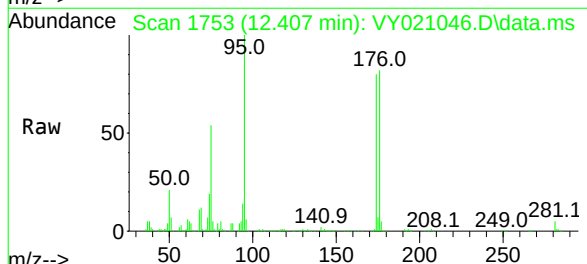
Manual Integrations
APPROVED

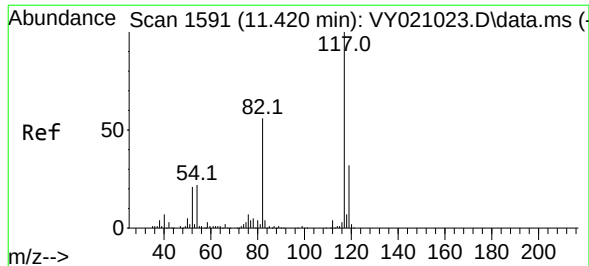
Reviewed By : Romaben Patel 02/05/2025
Supervised By : Mahesh Dadoda 02/06/2025



#62
4-Bromofluorobenzene
Concen: 55.893 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.007 min
Lab File: VY021046.D
Acq: 04 Feb 2025 09:47

Tgt Ion: 95 Resp: 104152
Ion Ratio Lower Upper
95 100
174 85.5 0.0 160.0
176 83.2 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:117 Resp: 206737

Ion Ratio Lower Upper

117 100

82 55.9 43.8 65.8

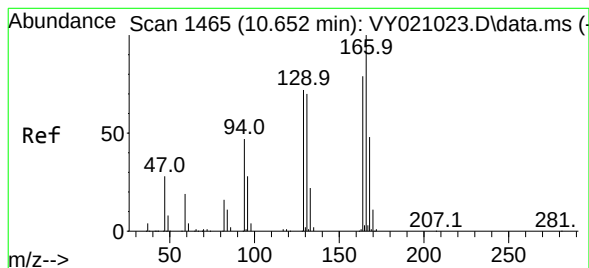
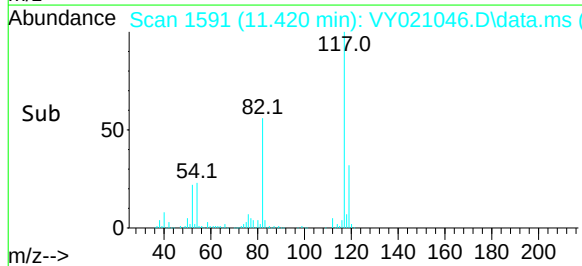
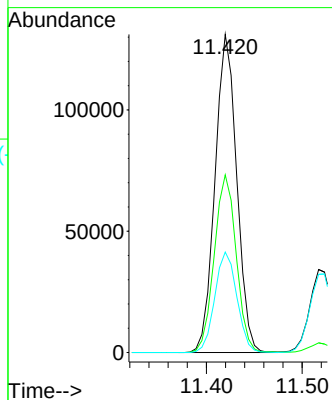
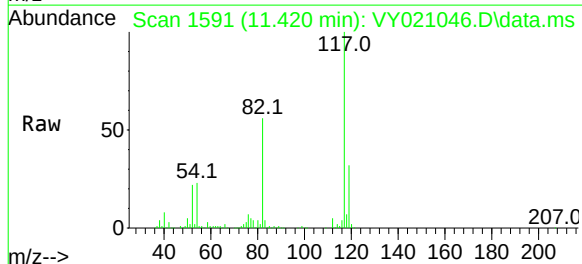
119 31.6 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#64

Tetrachloroethene

Concen: 52.134 ug/l

RT: 10.652 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Tgt Ion:164 Resp: 80010

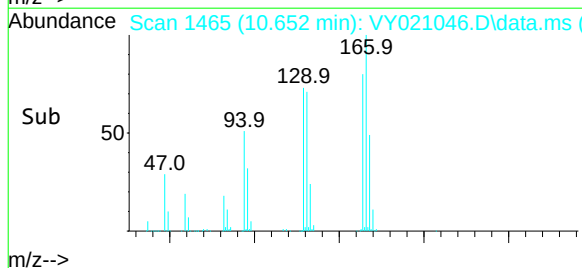
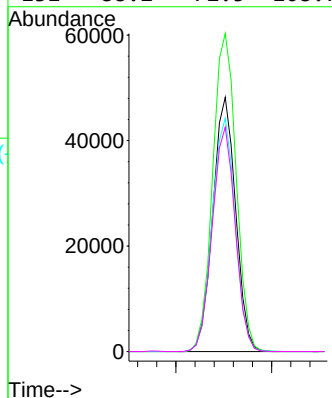
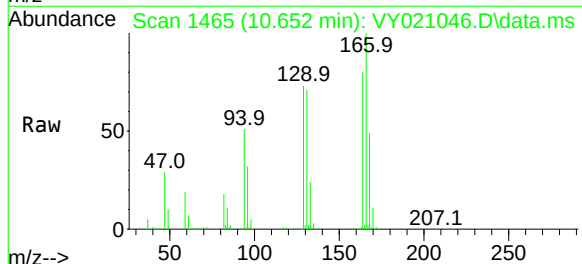
Ion Ratio Lower Upper

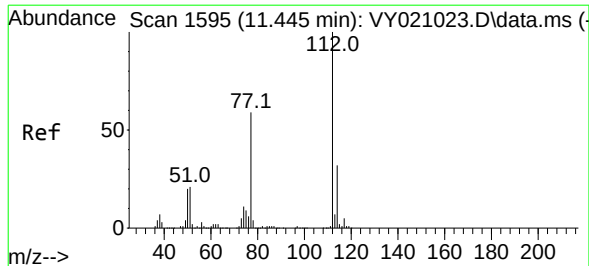
164 100

166 125.1 98.8 148.2

129 91.7 78.9 118.3

131 88.2 72.5 108.7





#65

Chlorobenzene

Concen: 52.034 ug/l

RT: 11.444 min Scan# 1595

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:112 Resp: 239533

Ion Ratio Lower Upper

112 100

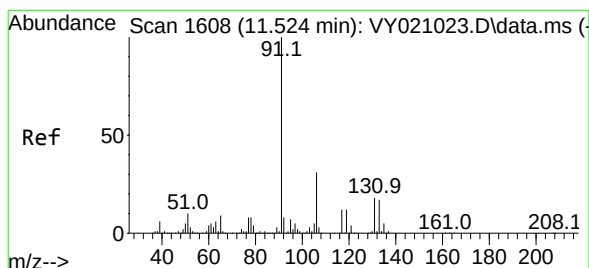
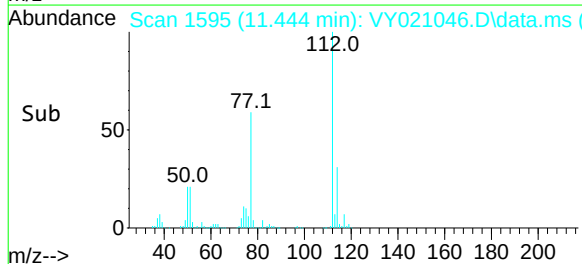
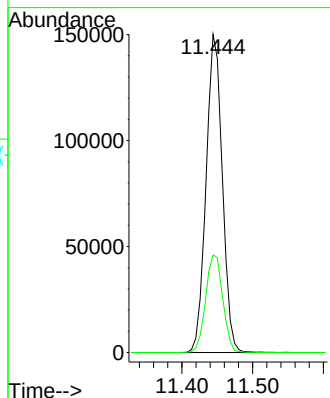
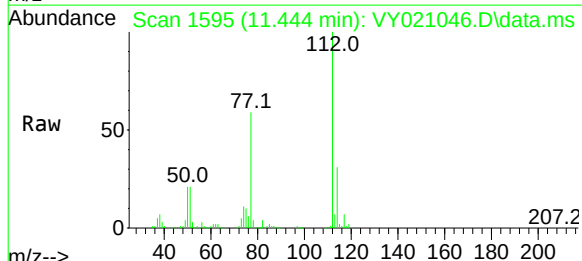
114 30.7 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 52.124 ug/l

RT: 11.523 min Scan# 1608

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

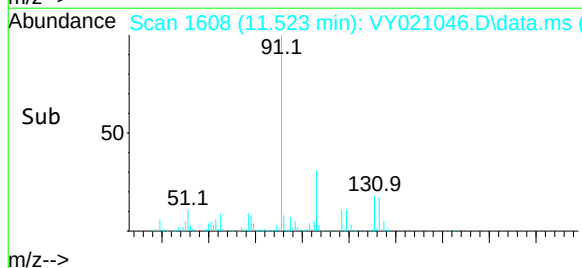
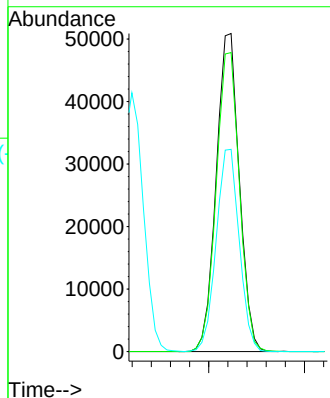
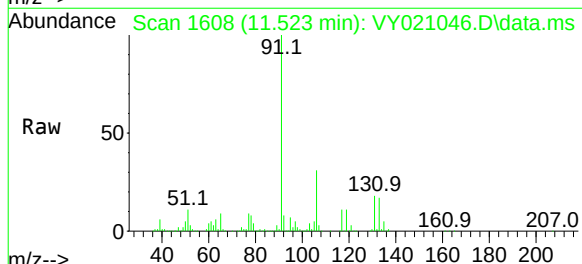
Tgt Ion:131 Resp: 85270

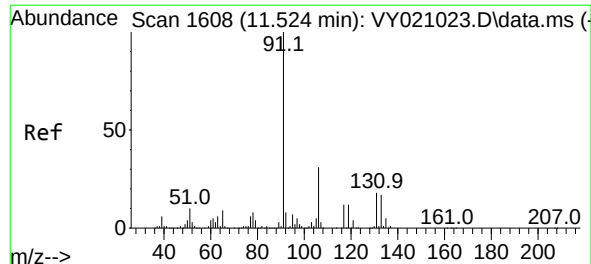
Ion Ratio Lower Upper

131 100

133 94.8 47.0 141.0

119 63.4 33.3 99.9





#67

Ethyl Benzene

Concen: 53.795 ug/l

RT: 11.523 min Scan# 1608

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 438006

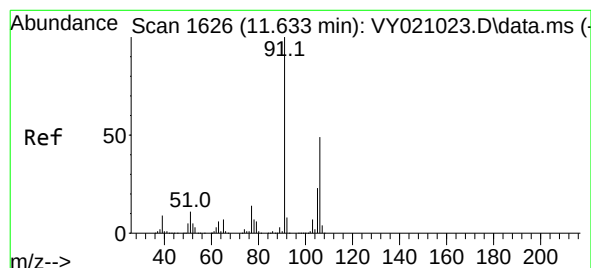
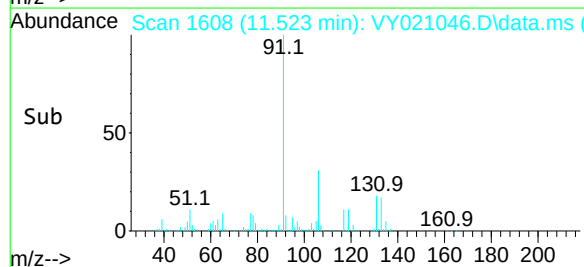
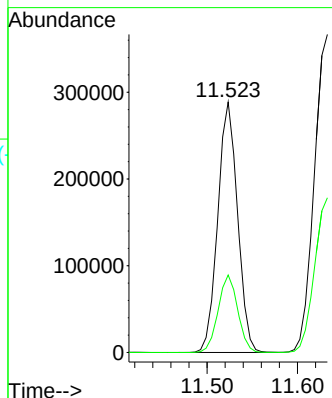
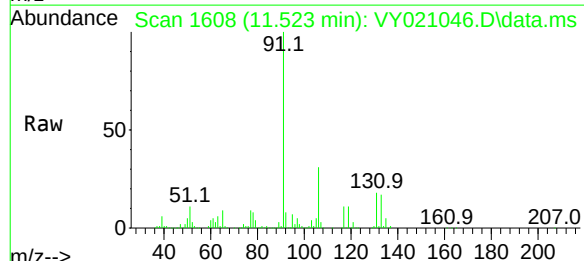
Ion Ratio Lower Upper

91 100

106 30.9 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#68

m/p-Xylenes

Concen: 107.665 ug/l

RT: 11.633 min Scan# 1626

Delta R.T. -0.000 min

Lab File: VY021046.D

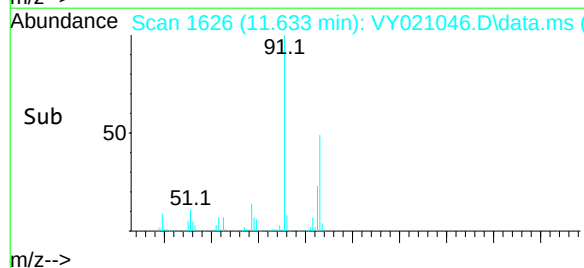
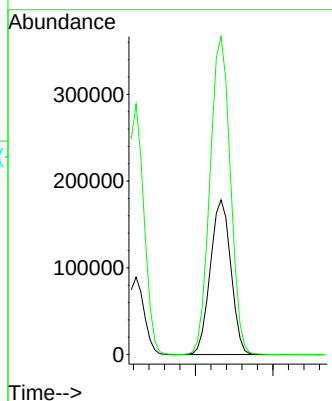
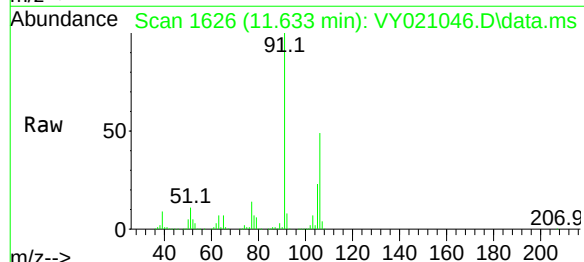
Acq: 04 Feb 2025 09:47

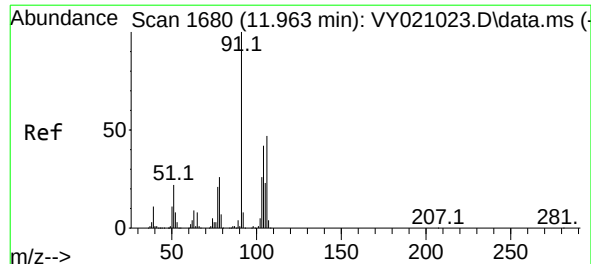
Tgt Ion:106 Resp: 327944

Ion Ratio Lower Upper

106 100

91 204.5 160.7 241.1





#69

o-Xylene

Concen: 54.388 ug/l

RT: 11.956 min Scan# 1680

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:106 Resp: 154451

Ion Ratio Lower Upper

106 100

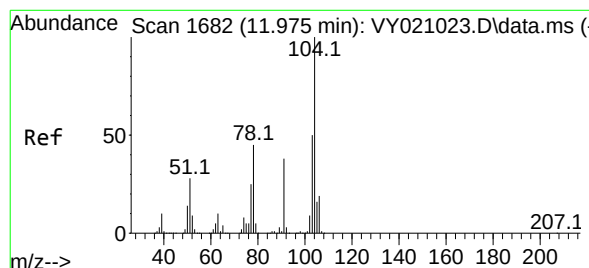
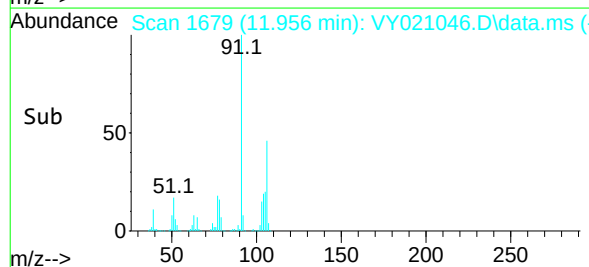
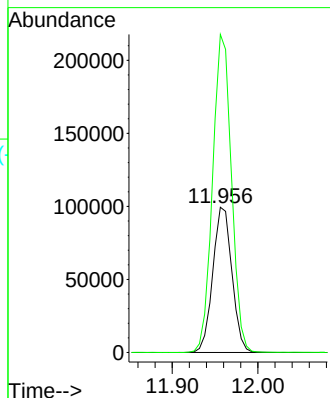
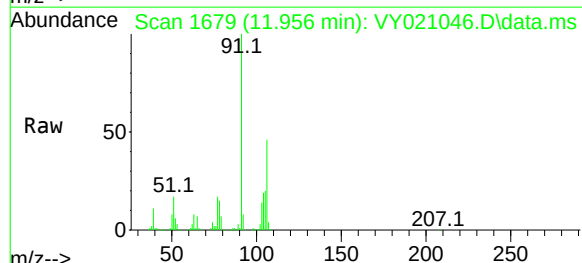
91 215.4 106.5 319.5

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#70

Styrene

Concen: 55.088 ug/l

RT: 11.974 min Scan# 1682

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

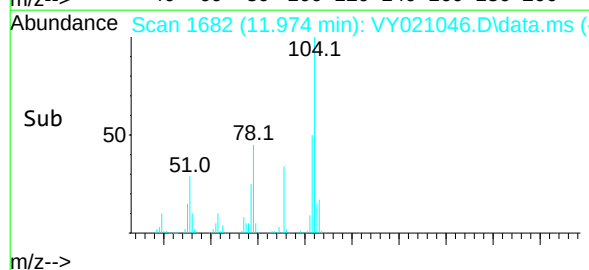
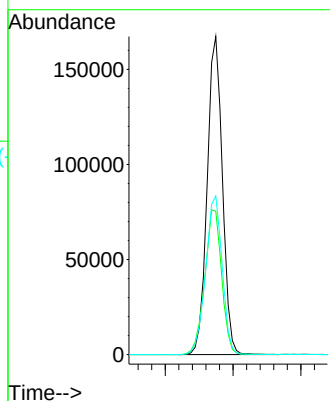
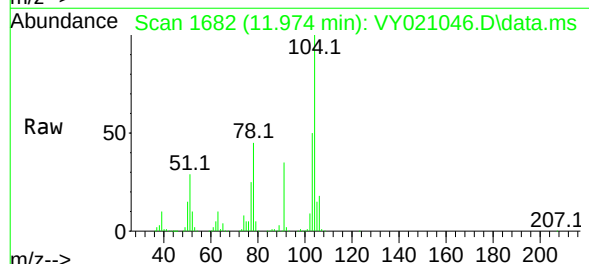
Tgt Ion:104 Resp: 260738

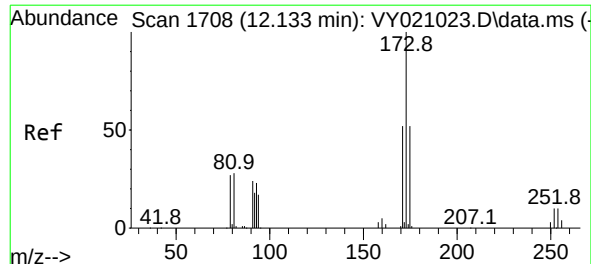
Ion Ratio Lower Upper

104 100

78 50.6 39.2 58.8

103 54.2 43.8 65.6





#71

Bromoform

Concen: 54.488 ug/l

RT: 12.139 min Scan# 1708

Delta R.T. 0.006 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:173 Resp: 49616

Ion Ratio Lower Upper

173 100

175 47.9 23.5 70.6

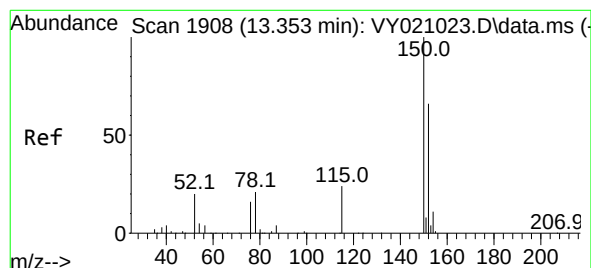
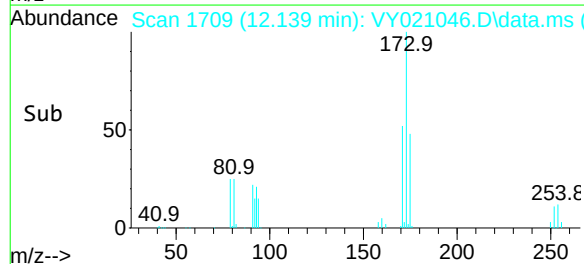
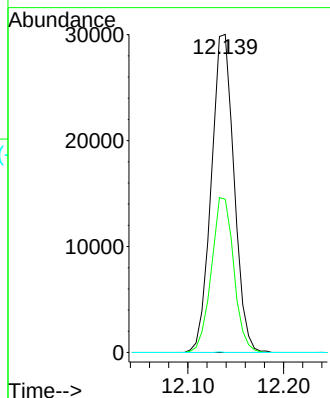
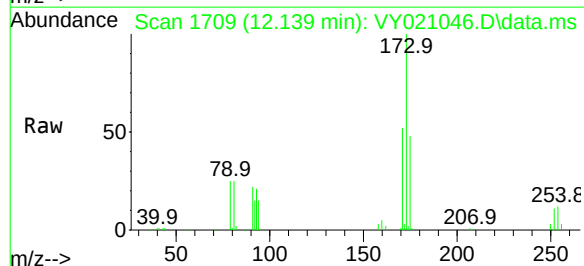
254 0.0 0.0 0.0#

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

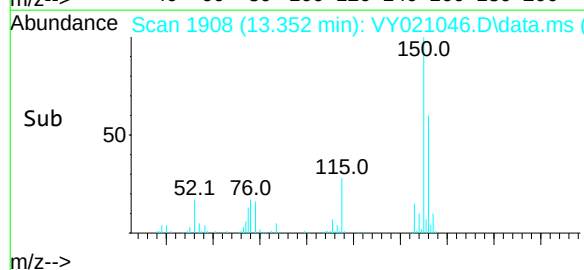
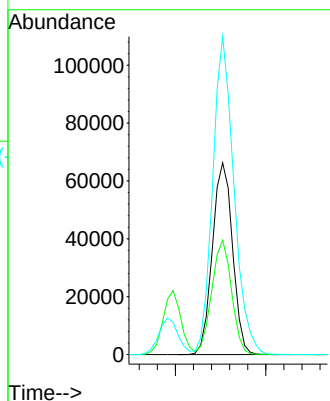
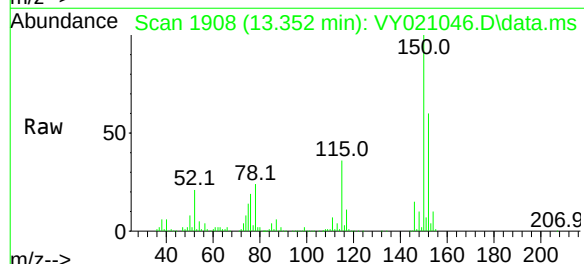
Tgt Ion:152 Resp: 102470

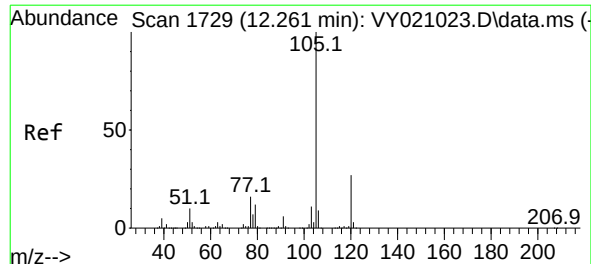
Ion Ratio Lower Upper

152 100

115 58.7 30.0 90.0

150 175.6 0.0 344.6





#73

Isopropylbenzene

Concen: 51.892 ug/l

RT: 12.261 min Scan# 1729

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 415362

Ion Ratio Lower Upper

105 100

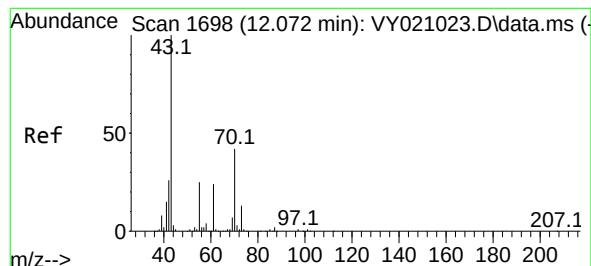
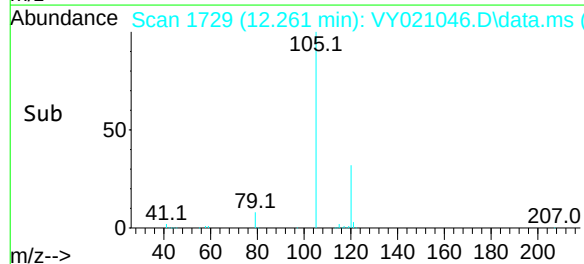
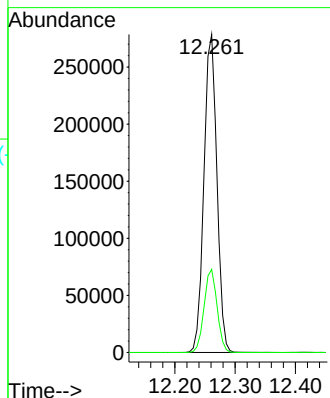
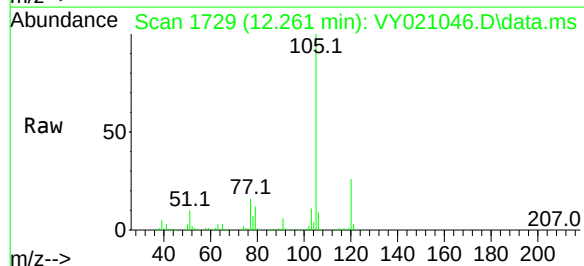
120 26.2 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#74

N-ethyl acetate

Concen: 54.756 ug/l

RT: 12.072 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Tgt Ion: 43 Resp: 95822

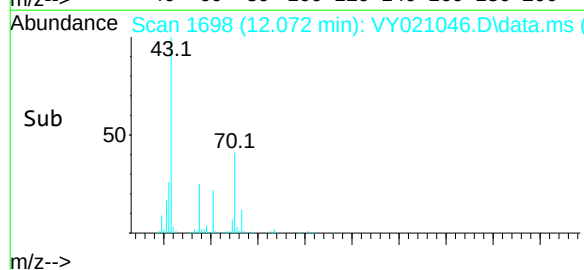
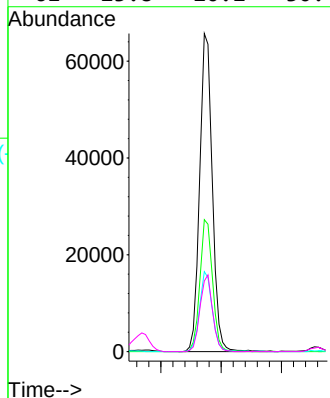
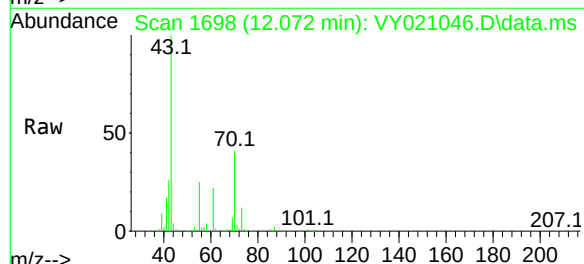
Ion Ratio Lower Upper

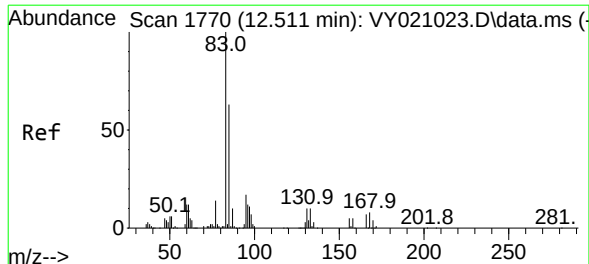
43 100

70 41.4 36.6 55.0

55 25.1 22.2 33.4

61 23.8 20.2 30.4





#75

1,1,2,2-Tetrachloroethane

Concen: 52.140 ug/l

RT: 12.511 min Scan# 1770

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

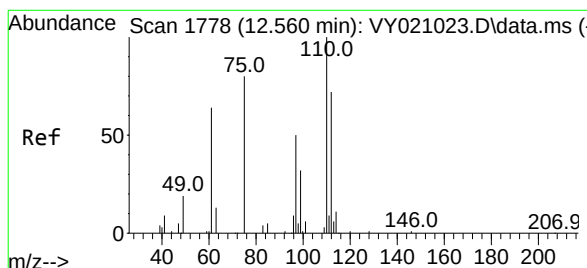
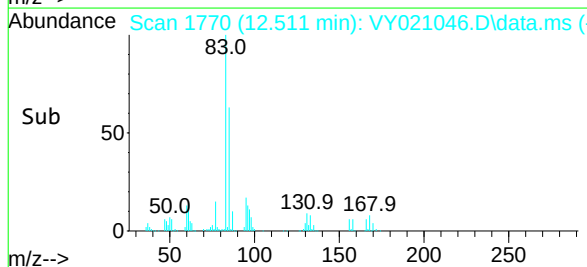
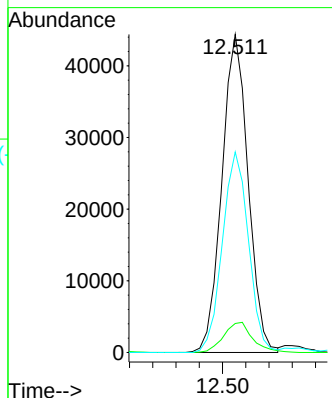
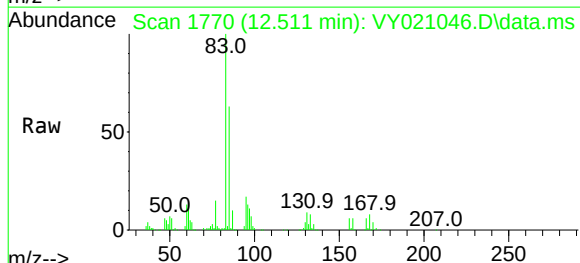
ClientSampleId :

VSTDCCC050

Tgt Ion:	83	Resp:	69410
Ion Ratio	Lower	Upper	
83	100		
131	10.5	4.9	14.6
85	62.8	32.6	98.0

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#76

1,2,3-Trichloropropane

Concen: 51.213 ug/l m

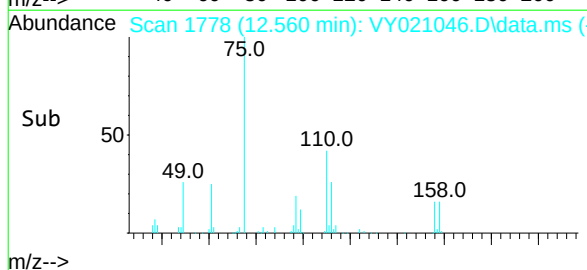
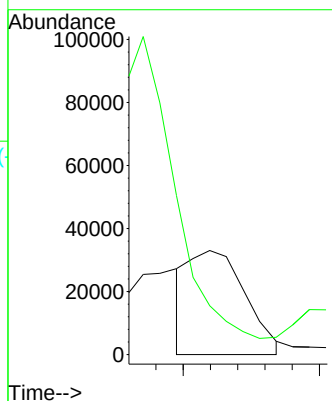
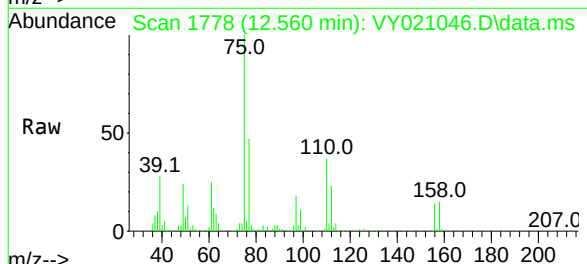
RT: 12.560 min Scan# 1778

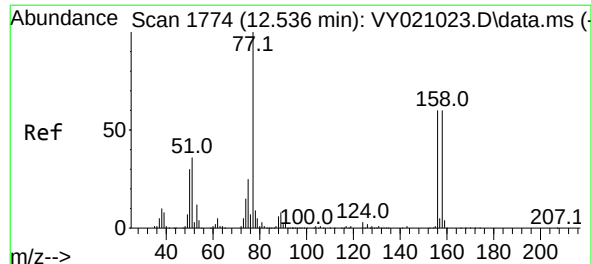
Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Tgt Ion:	75	Resp:	47604
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 51.330 ug/l

RT: 12.535 min Scan# 1774

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 156 Resp: 94814

Ion Ratio Lower Upper

156 100

77 179.0 97.3 291.8

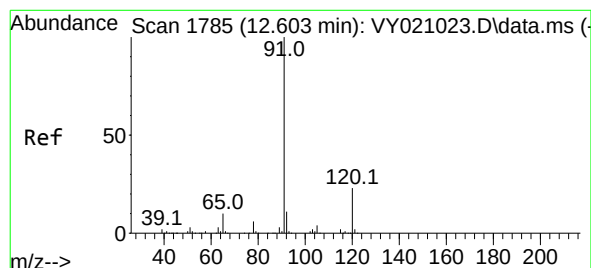
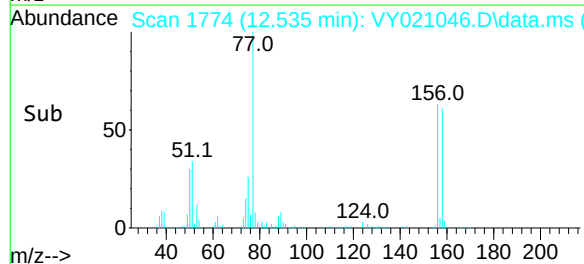
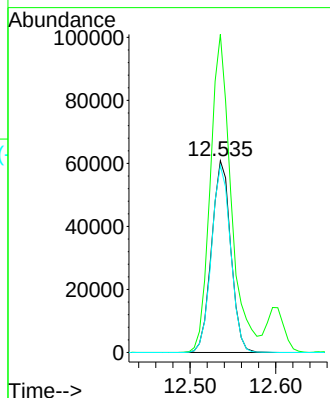
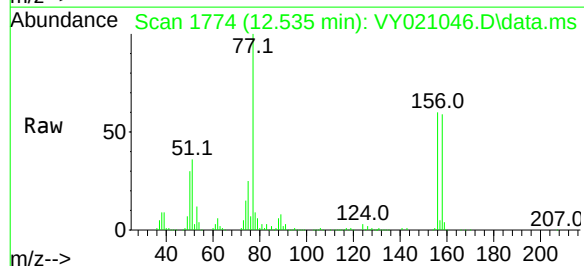
158 97.4 48.4 145.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#78

n-propylbenzene

Concen: 52.792 ug/l

RT: 12.596 min Scan# 1784

Delta R.T. -0.007 min

Lab File: VY021046.D

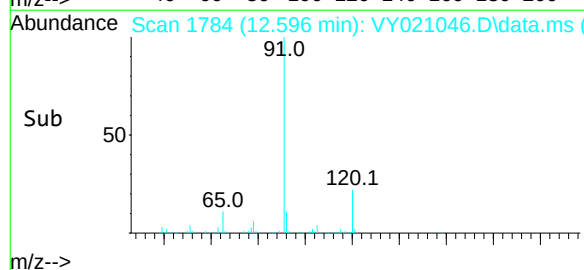
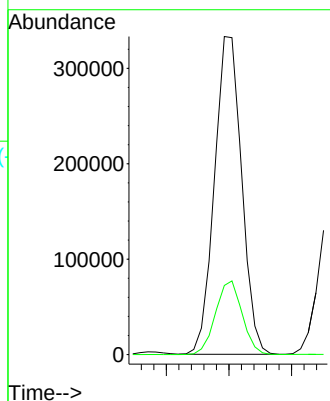
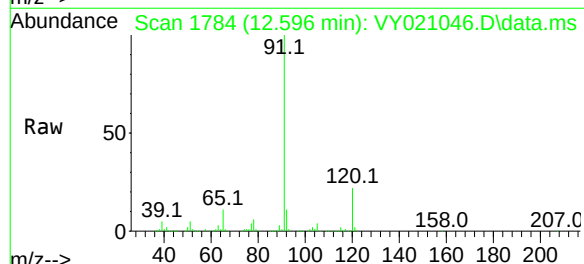
Acq: 04 Feb 2025 09:47

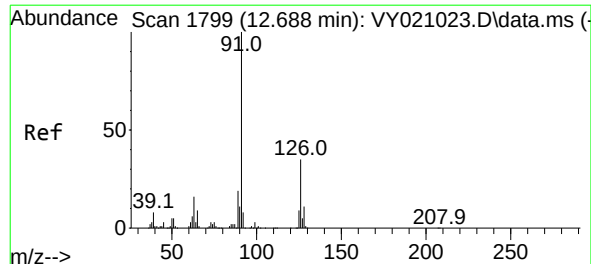
Tgt Ion: 91 Resp: 503375

Ion Ratio Lower Upper

91 100

120 22.7 11.0 33.0





#79

2-Chlorotoluene

Concen: 51.924 ug/l

RT: 12.682 min Scan# 1799

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 283562

Ion Ratio Lower Upper

91 100

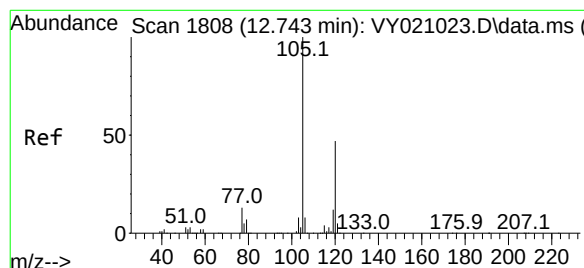
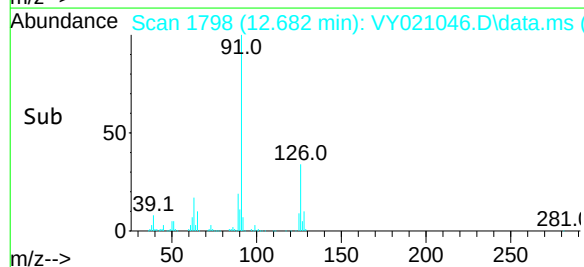
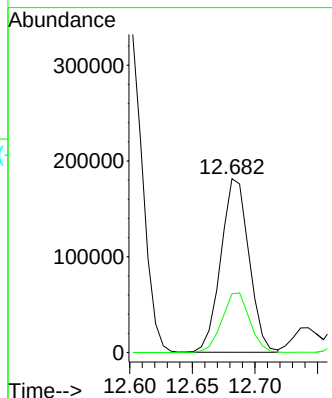
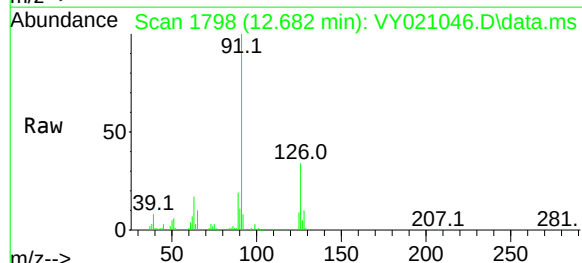
126 33.7 17.0 51.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#80

1,3,5-Trimethylbenzene

Concen: 52.986 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. -0.000 min

Lab File: VY021046.D

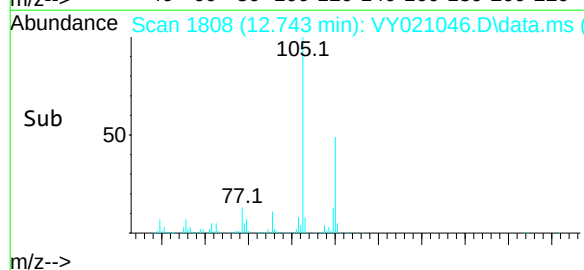
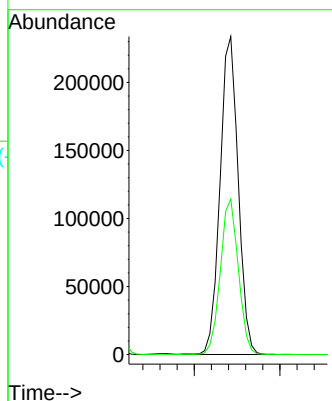
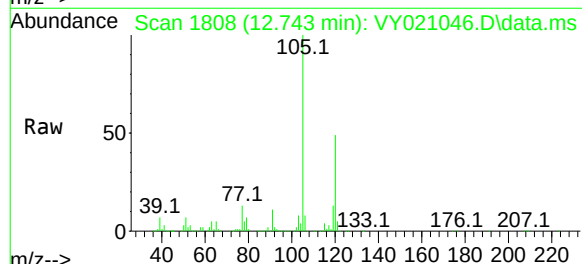
Acq: 04 Feb 2025 09:47

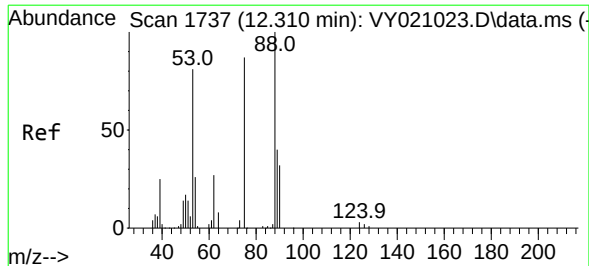
Tgt Ion:105 Resp: 343866

Ion Ratio Lower Upper

105 100

120 48.6 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 50.860 ug/l

RT: 12.310 min Scan# 1737

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 23169

Ion Ratio Lower Upper

75 100

53 103.0 74.0 111.0

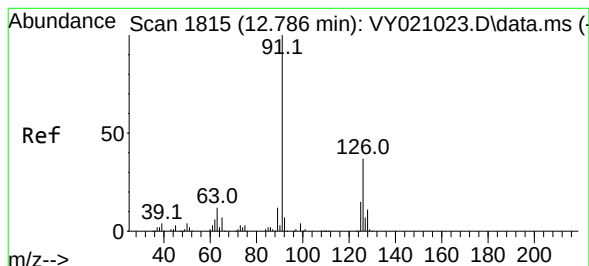
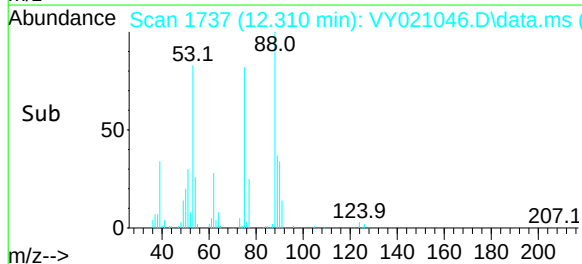
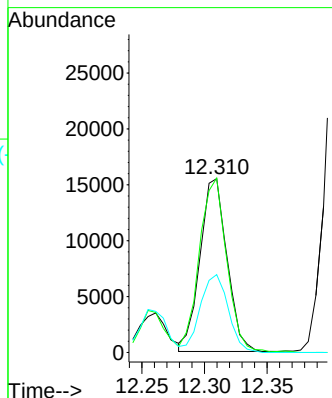
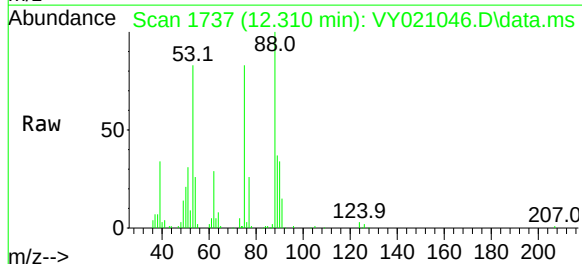
89 47.0 36.5 54.7

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#82

4-Chlorotoluene

Concen: 52.316 ug/l

RT: 12.779 min Scan# 1814

Delta R.T. -0.007 min

Lab File: VY021046.D

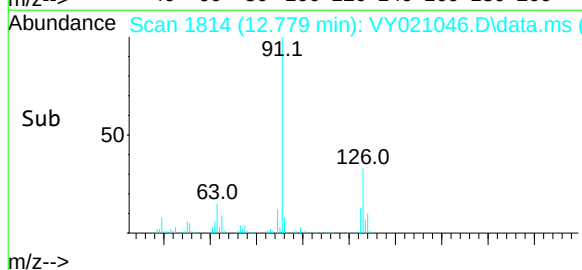
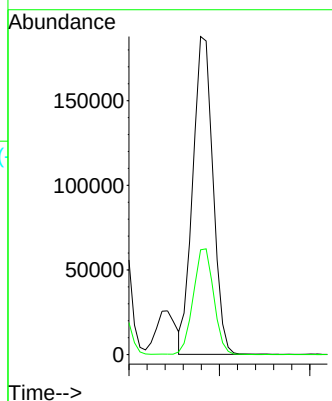
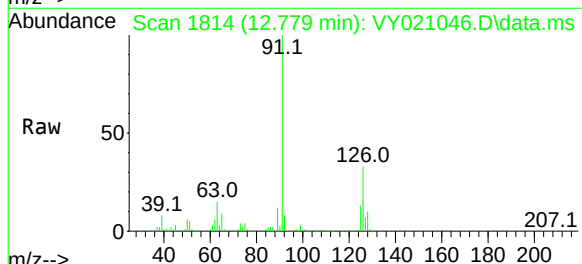
Acq: 04 Feb 2025 09:47

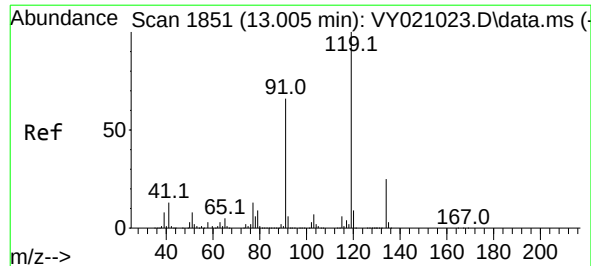
Tgt Ion: 91 Resp: 291090

Ion Ratio Lower Upper

91 100

126 33.9 17.1 51.2





#83

tert-Butylbenzene

Concen: 52.997 ug/l

RT: 12.999 min Scan# 1851

Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 312620

Ion Ratio Lower Upper

119 100

91 64.4 31.5 94.5

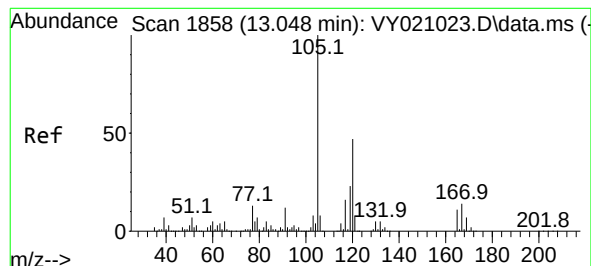
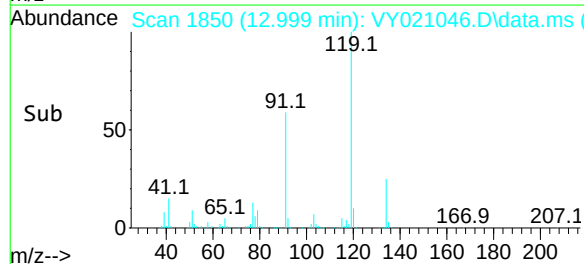
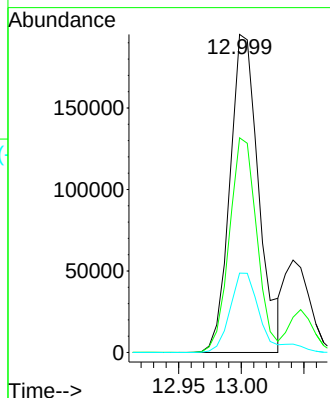
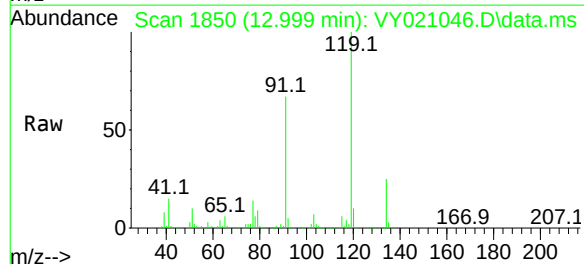
134 26.5 13.1 39.3

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#84

1,2,4-Trimethylbenzene

Concen: 53.490 ug/l

RT: 13.047 min Scan# 1858

Delta R.T. -0.000 min

Lab File: VY021046.D

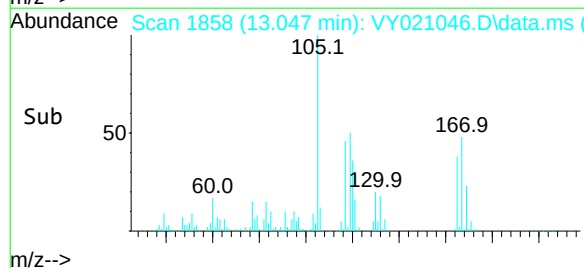
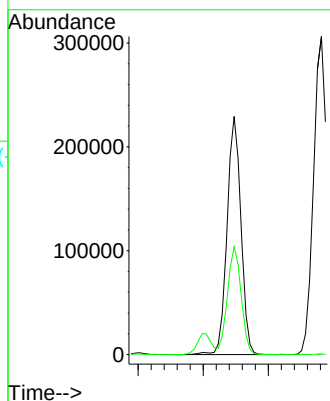
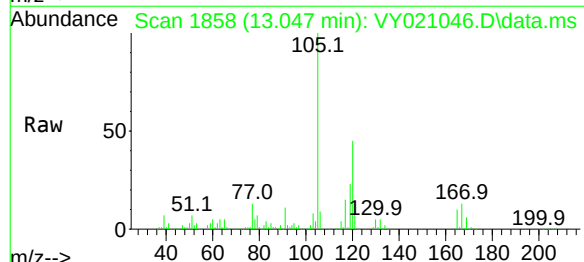
Acq: 04 Feb 2025 09:47

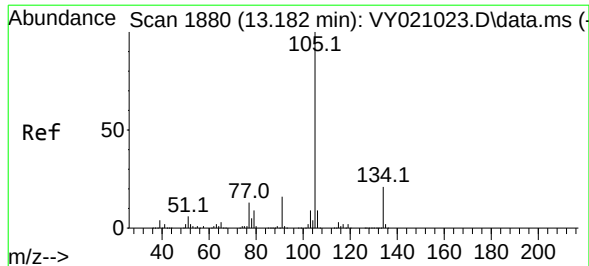
Tgt Ion:105 Resp: 339419

Ion Ratio Lower Upper

105 100

120 44.4 22.1 66.3





#85

sec-Butylbenzene

Concen: 52.886 ug/l

RT: 13.182 min Scan# 1880

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 449069

Ion Ratio Lower Upper

105 100

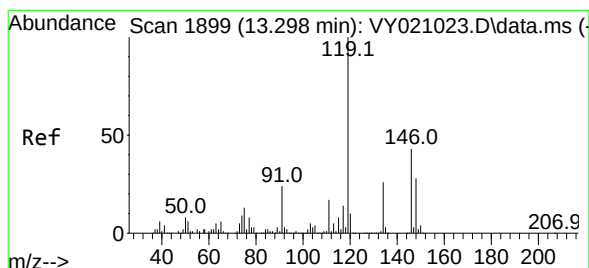
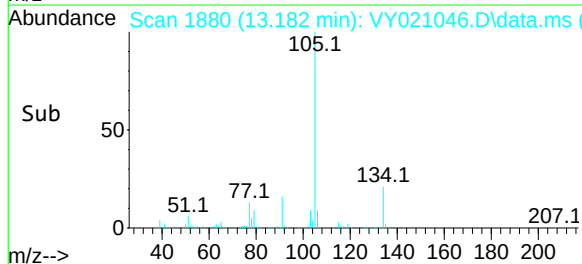
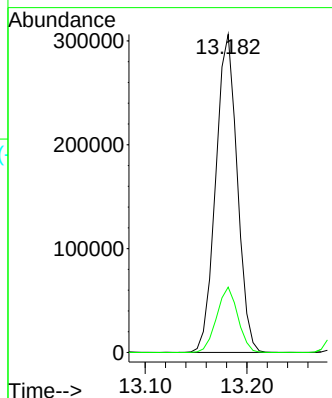
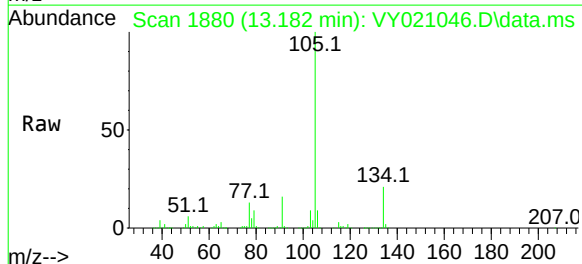
134 20.3 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#86

p-Isopropyltoluene

Concen: 53.511 ug/l

RT: 13.297 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

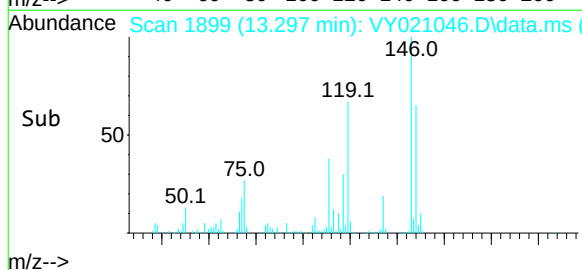
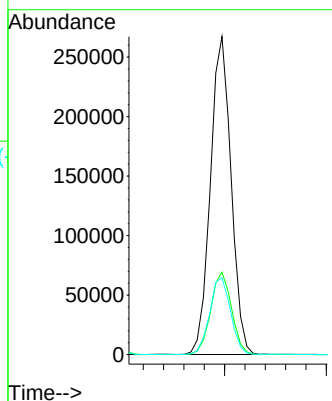
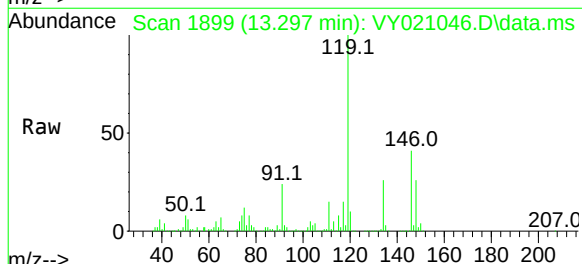
Tgt Ion:119 Resp: 377440

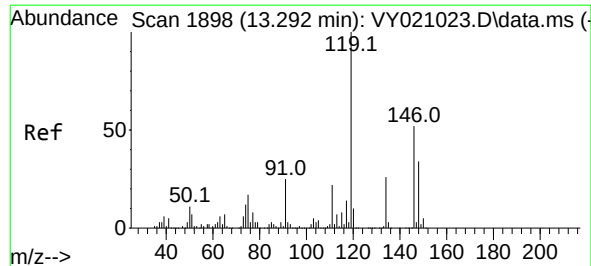
Ion Ratio Lower Upper

119 100

134 26.1 13.1 39.1

91 24.5 11.7 35.0





#87

1,3-Dichlorobenzene

Concen: 52.317 ug/l

RT: 13.291 min Scan# 1898

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 186592

Ion Ratio Lower Upper

146 100

111 39.6 20.2 60.5

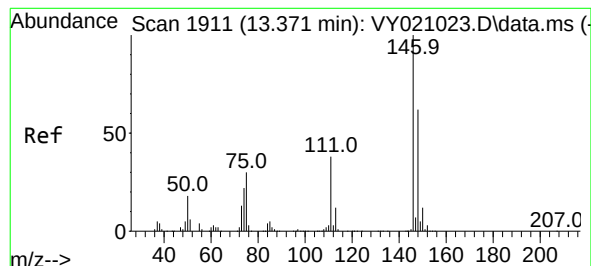
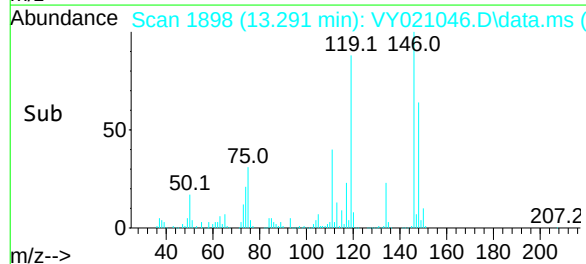
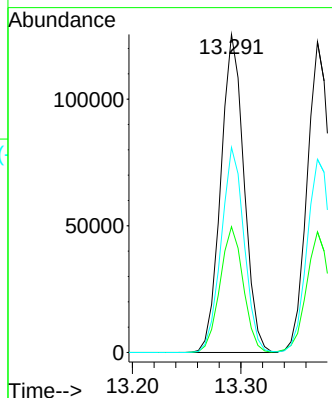
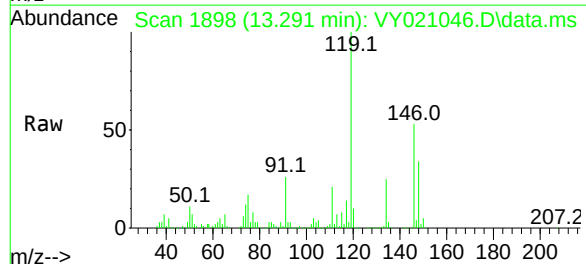
148 63.9 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#88

1,4-Dichlorobenzene

Concen: 52.145 ug/l

RT: 13.371 min Scan# 1911

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

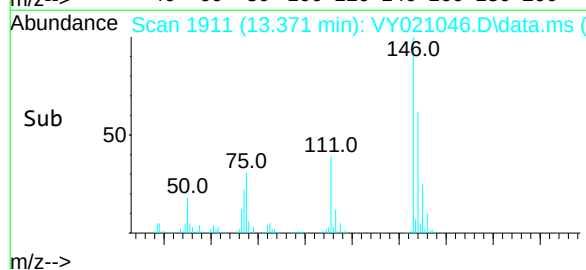
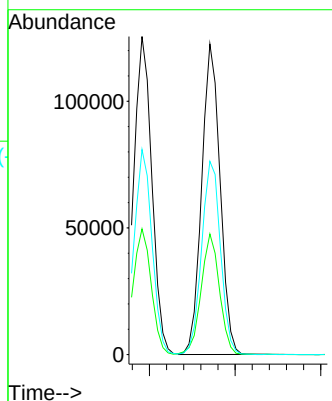
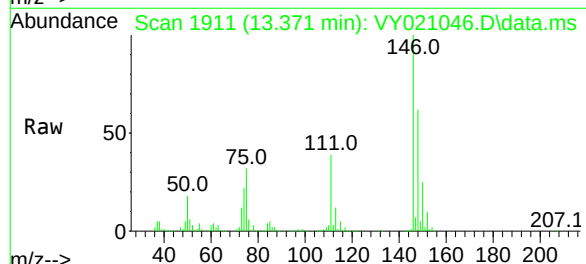
Tgt Ion:146 Resp: 183116

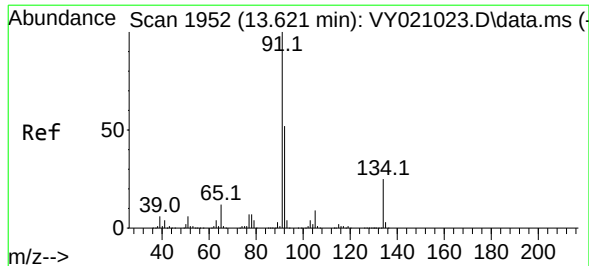
Ion Ratio Lower Upper

146 100

111 38.6 19.3 57.9

148 63.7 31.6 94.7





#89

n-Butylbenzene

Concen: 54.781 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

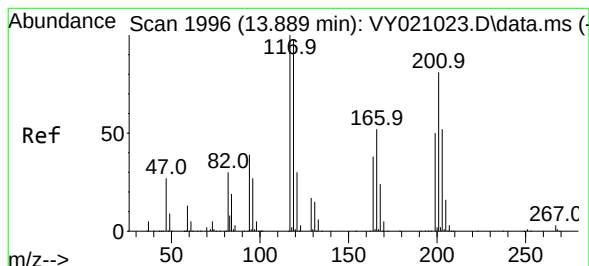
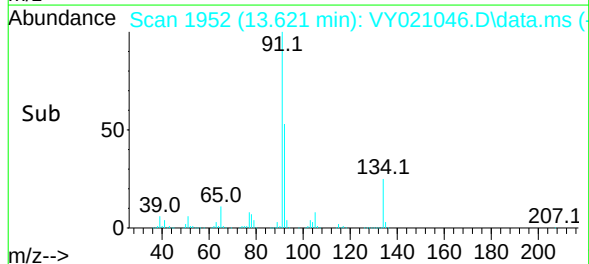
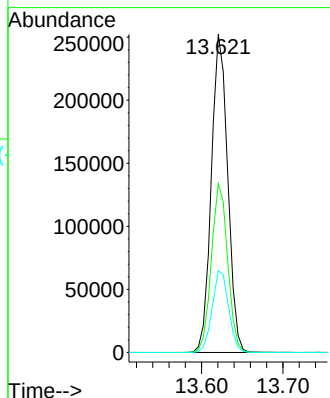
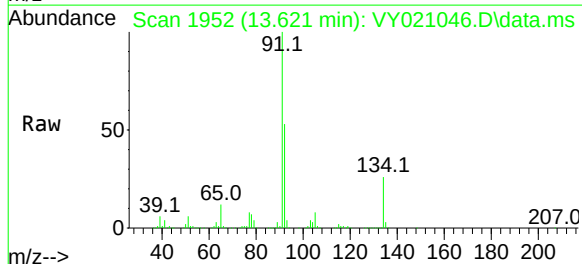
ClientSampleId :

VSTDCCC050

Tgt Ion:	91	Resp:	352502
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.4	79.2
134	25.9	12.3	36.8

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#90

Hexachloroethane

Concen: 52.092 ug/l

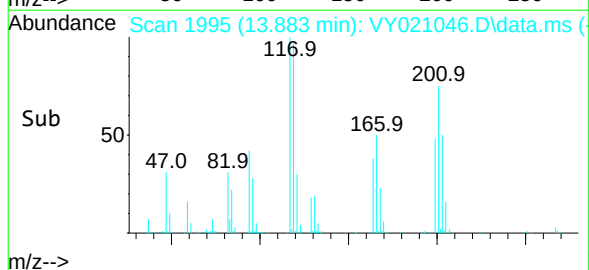
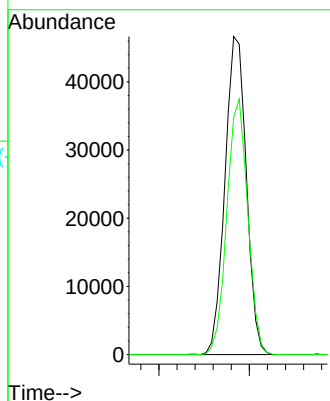
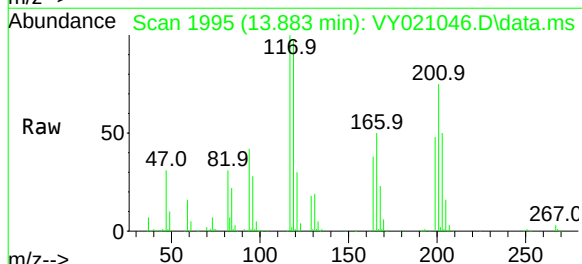
RT: 13.883 min Scan# 1995

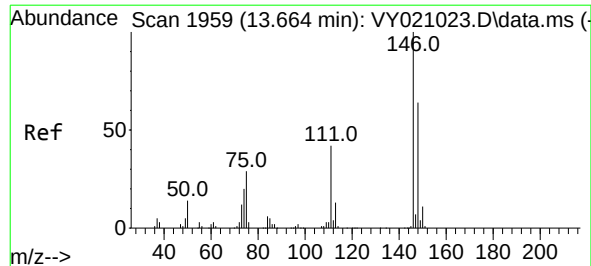
Delta R.T. -0.007 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Tgt Ion:	117	Resp:	76651
Ion	Ratio	Lower	Upper
117	100		
201	78.6	33.4	100.1





#91

1,2-Dichlorobenzene

Concen: 51.907 ug/l

RT: 13.663 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 160683

Ion Ratio Lower Upper

146 100

111 41.1 20.5 61.6

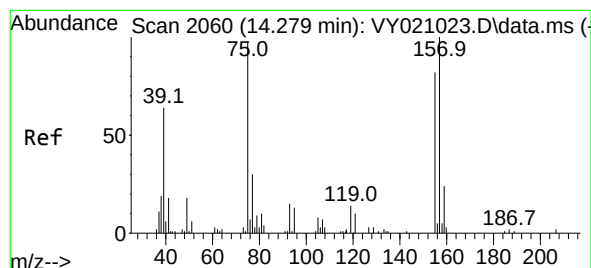
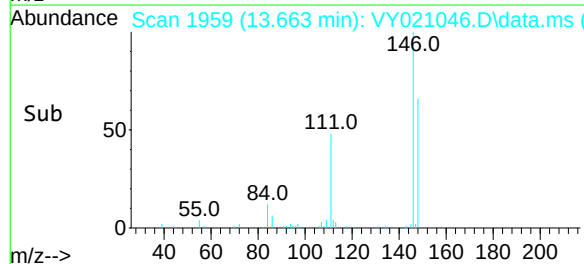
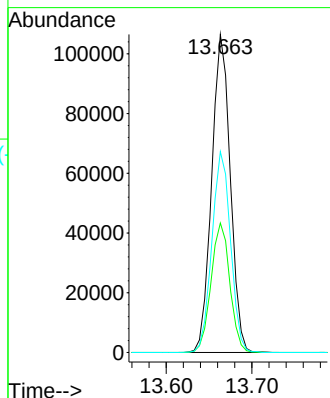
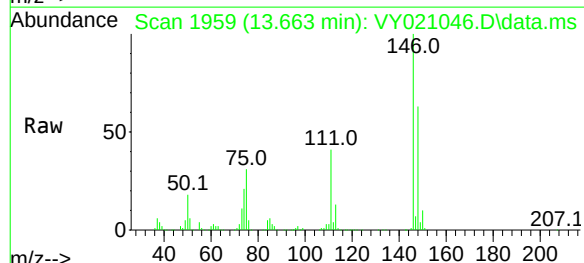
148 63.4 31.4 94.3

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 51.897 ug/l

RT: 14.279 min Scan# 2060

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

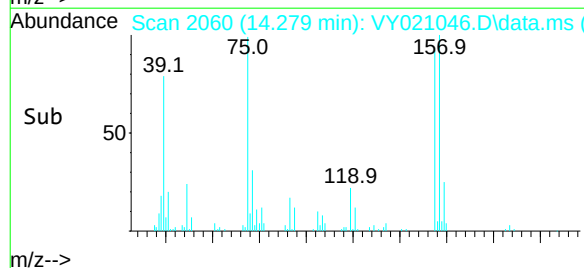
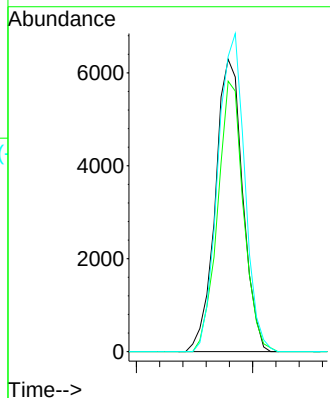
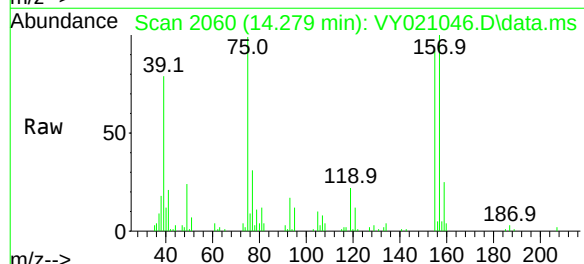
Tgt Ion: 75 Resp: 10324

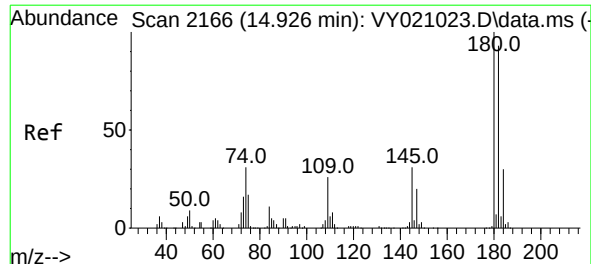
Ion Ratio Lower Upper

75 100

155 87.0 42.1 126.3

157 106.6 55.8 167.4





#93

1,2,4-Trichlorobenzene

Concen: 55.414 ug/l

RT: 14.925 min Scan# 2166

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 95483

Ion Ratio Lower Upper

180 100

182 94.4 47.9 143.7

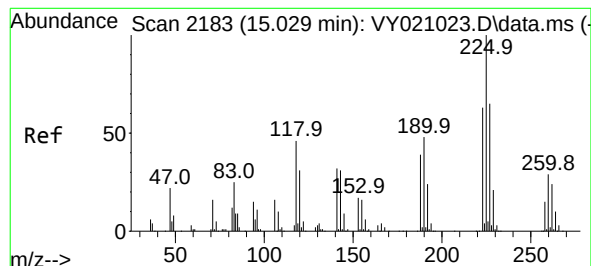
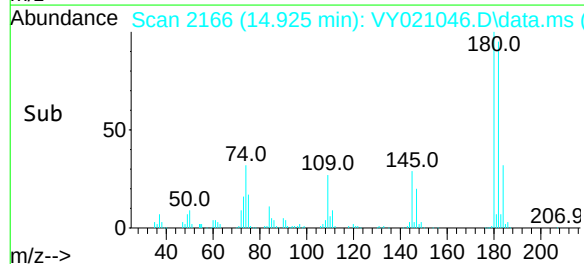
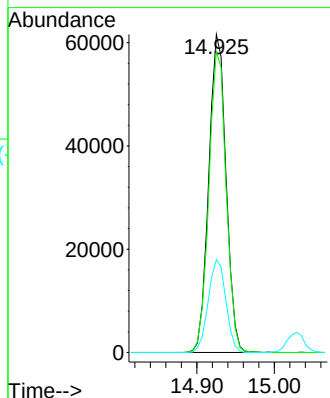
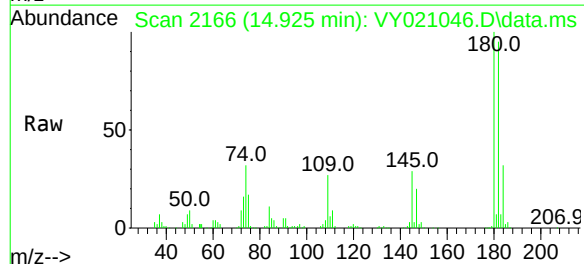
145 29.7 15.9 47.7

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#94

Hexachlorobutadiene

Concen: 53.663 ug/l

RT: 15.029 min Scan# 2183

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

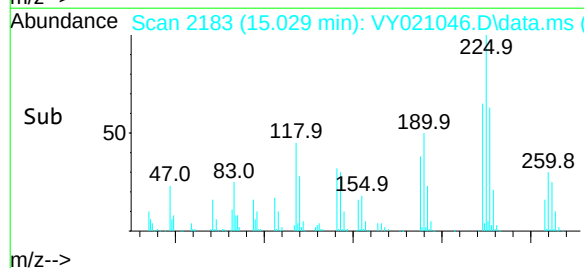
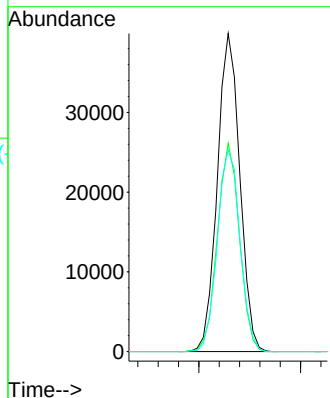
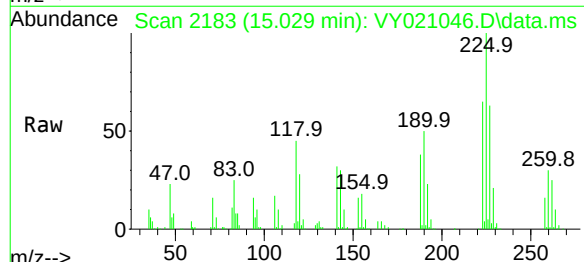
Tgt Ion:225 Resp: 61275

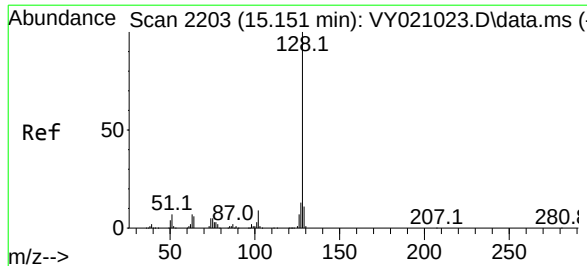
Ion Ratio Lower Upper

225 100

223 64.2 31.4 94.3

227 64.2 32.3 96.8





#95

Naphthalene

Concen: 56.026 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Instrument :

MSVOA_Y

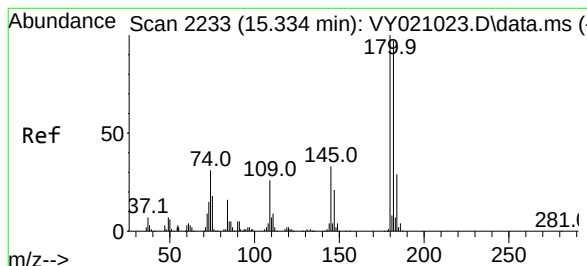
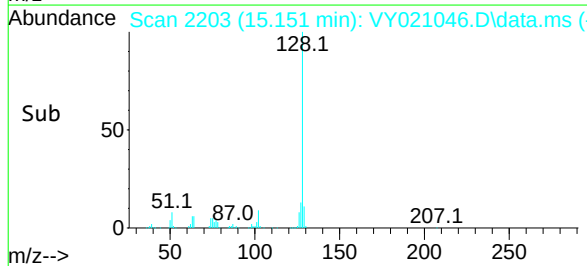
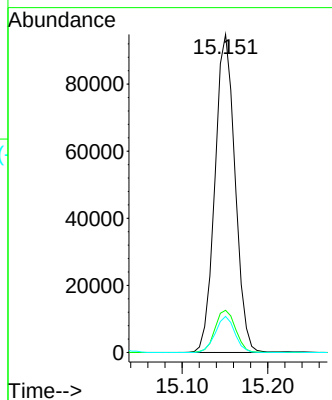
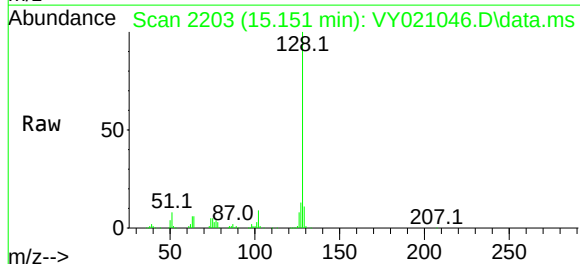
ClientSampleId :

VSTDCCC050

Tgt Ion:	128	Resp:	154449
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.2	15.4
129	11.0	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#96

1,2,3-Trichlorobenzene

Concen: 55.491 ug/l

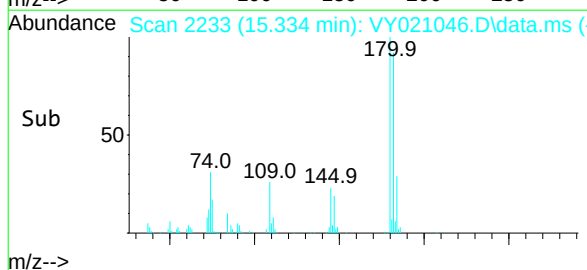
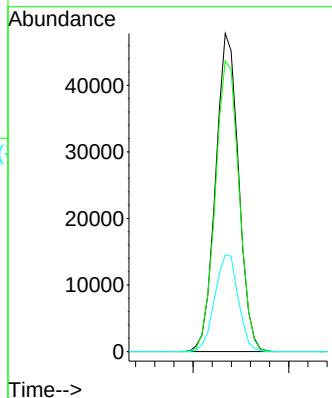
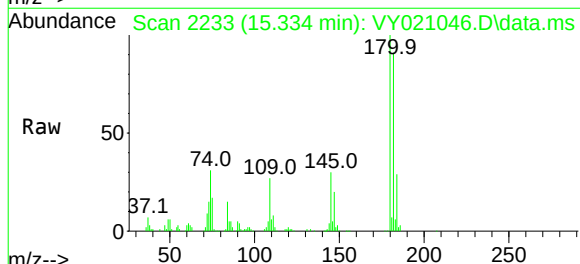
RT: 15.334 min Scan# 2233

Delta R.T. -0.000 min

Lab File: VY021046.D

Acq: 04 Feb 2025 09:47

Tgt Ion:	180	Resp:	79572
Ion	Ratio	Lower	Upper
180	100		
182	94.7	46.3	138.8
145	31.1	16.1	48.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021046.D
Acq On : 04 Feb 2025 09:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 00:42:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 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	83	0.00
2 T	Dichlorodifluoromethane	0.446	0.470	-5.4	88	0.00
3 P	Chloromethane	0.440	0.443	-0.7	88	0.00
4 C	Vinyl Chloride	0.443	0.443	0.0	87	0.00
5 T	Bromomethane	0.274	0.270	1.5	87	0.00
6 T	Chloroethane	0.263	0.263	0.0	86	0.00
7 T	Trichlorofluoromethane	0.806	0.812	-0.7	86	0.00
8 T	Diethyl Ether	0.252	0.257	-2.0	89	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.506	0.522	-3.2	88	0.00
10 T	Methyl Iodide	0.562	0.591	-5.2	84	0.00
11 T	Tert butyl alcohol	0.035	0.035	0.0	91	-0.01
12 CM	1,1-Dichloroethene	0.477	0.489	-2.5#	87	0.00
13 T	Acrolein	0.053	0.052	1.9	82	0.00
14 T	Allyl chloride	0.803	0.854	-6.4	89	0.00
15 T	Acrylonitrile	0.105	0.113	-7.6	89	0.00
16 T	Acetone	0.080	0.085	-6.3	92	0.00
17 T	Carbon Disulfide	1.495	1.571	-5.1	89	0.00
18 T	Methyl Acetate	0.280	0.312	-11.4	90	0.00
19 T	Methyl tert-butyl Ether	1.205	1.270	-5.4	87	0.00
20 T	Methylene Chloride	0.497	0.513	-3.2	88	0.00
21 T	trans-1,2-Dichloroethene	0.525	0.550	-4.8	88	0.00
22 T	Diisopropyl ether	1.656	1.799	-8.6	90	0.00
23 T	Vinyl Acetate	0.923	1.011	-9.5	89	0.00
24 P	1,1-Dichloroethane	0.970	1.014	-4.5	89	0.00
25 T	2-Butanone	0.131	0.143	-9.2	88	0.00
26 T	2,2-Dichloropropane	0.898	0.933	-3.9	89	0.00
27 T	cis-1,2-Dichloroethene	0.604	0.639	-5.8	89	0.00
28 T	Bromochloromethane	0.384	0.407	-6.0	82	0.00
29 T	Tetrahydrofuran	0.089	0.099	-11.2	90	0.00
30 C	Chloroform	0.997	1.045	-4.8#	89	0.00
31 T	Cyclohexane	0.874	0.883	-1.0	89	0.00
32 T	1,1,1-Trichloroethane	0.927	0.969	-4.5	89	0.00
33 S	1,2-Dichloroethane-d4	0.512	0.534	-4.3	88	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	82	0.00
35 S	Dibromofluoromethane	0.320	0.343	-7.2	89	0.00
36 T	1,1-Dichloropropene	0.475	0.509	-7.2	90	0.00
37 T	Ethyl Acetate	0.208	0.234	-12.5	91	0.00
38 T	Carbon Tetrachloride	0.555	0.591	-6.5	88	0.00
39 T	Methylcyclohexane	0.581	0.623	-7.2	87	0.00
40 TM	Benzene	1.393	1.501	-7.8	89	0.00
41 T	Methacrylonitrile	0.120	0.109	9.2	80	0.00
42 TM	1,2-Dichloroethane	0.386	0.414	-7.3	89	0.00
43 T	Isopropyl Acetate	0.414	0.460	-11.1	89	0.00
44 TM	Trichloroethene	0.360	0.380	-5.6	89	0.00
45 C	1,2-Dichloropropane	0.331	0.357	-7.9#	89	0.00
46 T	Dibromomethane	0.183	0.197	-7.7	89	0.00
47 T	Bromodichloromethane	0.491	0.518	-5.5	88	0.00
48 T	Methyl methacrylate	0.188	0.214	-13.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021046.D
Acq On : 04 Feb 2025 09:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 00:42:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 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	0.002	0.002	0.0	91	0.00
50 S	Toluene-d8	1.220	1.329	-8.9	90	0.00
51 T	4-Methyl-2-Pentanone	0.208	0.238	-14.4	90	0.00
52 CM	Toluene	0.875	0.954	-9.0#	89	0.00
53 T	t-1,3-Dichloropropene	0.441	0.486	-10.2	89	0.00
54 T	cis-1,3-Dichloropropene	0.522	0.569	-9.0	89	0.00
55 T	1,1,2-Trichloroethane	0.237	0.253	-6.8	88	0.00
56 T	Ethyl methacrylate	0.317	0.359	-13.2	87	0.00
57 T	1,3-Dichloropropane	0.410	0.454	-10.7	90	0.00
58 T	2-Chloroethyl Vinyl ether	0.151	0.139	7.9	73	0.00
59 T	2-Hexanone	0.134	0.157	-17.2	90	0.00
60 T	Dibromochloromethane	0.333	0.359	-7.8	89	0.00
61 T	1,2-Dibromoethane	0.222	0.240	-8.1	87	0.00
62 S	4-Bromofluorobenzene	0.399	0.446	-11.8	90	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
64 T	Tetrachloroethene	0.371	0.387	-4.3	89	0.00
65 PM	Chlorobenzene	1.113	1.159	-4.1	89	0.00
66 T	1,1,1,2-Tetrachloroethane	0.396	0.412	-4.0	89	0.00
67 C	Ethyl Benzene	1.969	2.119	-7.6#	90	0.00
68 T	m/p-Xylenes	0.737	0.793	-7.6	89	0.00
69 T	o-Xylene	0.687	0.747	-8.7	91	0.00
70 T	Styrene	1.145	1.261	-10.1	90	0.00
71 P	Bromoform	0.220	0.240	-9.1	92	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00
73 T	Isopropylbenzene	3.906	4.053	-3.8	90	0.00
74 T	N-amyl acetate	0.854	0.935	-9.5	89	0.00
75 P	1,1,2,2-Tetrachloroethane	0.650	0.677	-4.2	91	0.00
76 T	1,2,3-Trichloropropane	0.454	0.465	-2.4	85	0.00
77 T	Bromobenzene	0.901	0.925	-2.7	91	0.00
78 T	n-propylbenzene	4.653	4.912	-5.6	91	0.00
79 T	2-Chlorotoluene	2.665	2.767	-3.8	91	0.00
80 T	1,3,5-Trimethylbenzene	3.167	3.356	-6.0	91	0.00
81 T	trans-1,4-Dichloro-2-butene	0.222	0.226	-1.8	86	0.00
82 T	4-Chlorotoluene	2.715	2.841	-4.6	92	0.00
83 T	tert-Butylbenzene	2.878	3.051	-6.0	90	0.00
84 T	1,2,4-Trimethylbenzene	3.096	3.312	-7.0	92	0.00
85 T	sec-Butylbenzene	4.143	4.382	-5.8	92	0.00
86 T	p-Isopropyltoluene	3.442	3.683	-7.0	91	0.00
87 T	1,3-Dichlorobenzene	1.740	1.821	-4.7	92	0.00
88 T	1,4-Dichlorobenzene	1.714	1.787	-4.3	91	0.00
89 T	n-Butylbenzene	3.140	3.440	-9.6	92	0.00
90 T	Hexachloroethane	0.718	0.748	-4.2	91	0.00
91 T	1,2-Dichlorobenzene	1.510	1.568	-3.8	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.097	0.101	-4.1	88	0.00
93 T	1,2,4-Trichlorobenzene	0.841	0.932	-10.8	90	0.00
94 T	Hexachlorobutadiene	0.557	0.598	-7.4	91	0.00
95 T	Naphthalene	1.345	1.507	-12.0	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021046.D
Acq On : 04 Feb 2025 09:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 00:42:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.700	0.777	-11.0	90	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021046.D
Acq On : 04 Feb 2025 09:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 00:42:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 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	83	0.00
2 T	Dichlorodifluoromethane	50.000	52.714	-5.4	88	0.00
3 P	Chloromethane	50.000	50.330	-0.7	88	0.00
4 C	Vinyl Chloride	50.000	50.061	-0.1#	87	0.00
5 T	Bromomethane	50.000	49.347	1.3	87	0.00
6 T	Chloroethane	50.000	49.935	0.1	86	0.00
7 T	Trichlorofluoromethane	50.000	50.372	-0.7	86	0.00
8 T	Diethyl Ether	50.000	51.084	-2.2	89	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.550	-3.1	88	0.00
10 T	Methyl Iodide	50.000	52.519	-5.0	84	0.00
11 T	Tert butyl alcohol	250.000	252.187	-0.9	91	-0.01
12 CM	1,1-Dichloroethene	50.000	51.266	-2.5#	87	0.00
13 T	Acrolein	250.000	242.367	3.1	82	0.00
14 T	Allyl chloride	50.000	53.165	-6.3	89	0.00
15 T	Acrylonitrile	250.000	270.313	-8.1	89	0.00
16 T	Acetone	250.000	267.440	-7.0	92	0.00
17 T	Carbon Disulfide	50.000	52.559	-5.1	89	0.00
18 T	Methyl Acetate	50.000	55.562	-11.1	90	0.00
19 T	Methyl tert-butyl Ether	50.000	52.689	-5.4	87	0.00
20 T	Methylene Chloride	50.000	51.630	-3.3	88	0.00
21 T	trans-1,2-Dichloroethene	50.000	52.369	-4.7	88	0.00
22 T	Diisopropyl ether	50.000	54.300	-8.6	90	0.00
23 T	Vinyl Acetate	250.000	273.844	-9.5	89	0.00
24 P	1,1-Dichloroethane	50.000	52.245	-4.5	89	0.00
25 T	2-Butanone	250.000	272.159	-8.9	88	0.00
26 T	2,2-Dichloropropane	50.000	51.967	-3.9	89	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.870	-5.7	89	0.00
28 T	Bromochloromethane	50.000	52.992	-6.0	82	0.00
29 T	Tetrahydrofuran	250.000	277.873	-11.1	90	0.00
30 C	Chloroform	50.000	52.406	-4.8#	89	0.00
31 T	Cyclohexane	50.000	50.543	-1.1	89	0.00
32 T	1,1,1-Trichloroethane	50.000	52.284	-4.6	89	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.095	-4.2	88	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	82	0.00
35 S	Dibromofluoromethane	50.000	53.452	-6.9	89	0.00
36 T	1,1-Dichloropropene	50.000	53.591	-7.2	90	0.00
37 T	Ethyl Acetate	50.000	56.091	-12.2	91	0.00
38 T	Carbon Tetrachloride	50.000	53.307	-6.6	88	0.00
39 T	Methylcyclohexane	50.000	53.677	-7.4	87	0.00
40 TM	Benzene	50.000	53.888	-7.8	89	0.00
41 T	Methacrylonitrile	50.000	45.147	9.7	80	0.00
42 TM	1,2-Dichloroethane	50.000	53.521	-7.0	89	0.00
43 T	Isopropyl Acetate	50.000	55.633	-11.3	89	0.00
44 TM	Trichloroethene	50.000	52.820	-5.6	89	0.00
45 C	1,2-Dichloropropane	50.000	53.991	-8.0#	89	0.00
46 T	Dibromomethane	50.000	53.884	-7.8	89	0.00
47 T	Bromodichloromethane	50.000	52.810	-5.6	88	0.00
48 T	Methyl methacrylate	50.000	56.838	-13.7	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021046.D
Acq On : 04 Feb 2025 09:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 00:42:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 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	1150.358	-15.0	91	0.00
50 S	Toluene-d8	50.000	54.470	-8.9	90	0.00
51 T	4-Methyl-2-Pentanone	250.000	285.788	-14.3	90	0.00
52 CM	Toluene	50.000	54.566	-9.1#	89	0.00
53 T	t-1,3-Dichloropropene	50.000	55.115	-10.2	89	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.522	-9.0	89	0.00
55 T	1,1,2-Trichloroethane	50.000	53.417	-6.8	88	0.00
56 T	Ethyl methacrylate	50.000	56.536	-13.1	87	0.00
57 T	1,3-Dichloropropane	50.000	55.271	-10.5	90	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	230.818	7.7	73	0.00
59 T	2-Hexanone	250.000	293.528	-17.4	90	0.00
60 T	Dibromochloromethane	50.000	53.995	-8.0	89	0.00
61 T	1,2-Dibromoethane	50.000	54.075	-8.2	87	0.00
62 S	4-Bromofluorobenzene	50.000	55.893	-11.8	90	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	83	0.00
64 T	Tetrachloroethene	50.000	52.134	-4.3	89	0.00
65 PM	Chlorobenzene	50.000	52.034	-4.1	89	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.124	-4.2	89	0.00
67 C	Ethyl Benzene	50.000	53.795	-7.6#	90	0.00
68 T	m/p-Xylenes	100.000	107.665	-7.7	89	0.00
69 T	o-Xylene	50.000	54.388	-8.8	91	0.00
70 T	Styrene	50.000	55.088	-10.2	90	0.00
71 P	Bromoform	50.000	54.488	-9.0	92	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	85	0.00
73 T	Isopropylbenzene	50.000	51.892	-3.8	90	0.00
74 T	N-amyl acetate	50.000	54.756	-9.5	89	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.140	-4.3	91	0.00
76 T	1,2,3-Trichloropropane	50.000	51.213	-2.4	85	0.00
77 T	Bromobenzene	50.000	51.330	-2.7	91	0.00
78 T	n-propylbenzene	50.000	52.792	-5.6	91	0.00
79 T	2-Chlorotoluene	50.000	51.924	-3.8	91	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.986	-6.0	91	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.860	-1.7	86	0.00
82 T	4-Chlorotoluene	50.000	52.316	-4.6	92	0.00
83 T	tert-Butylbenzene	50.000	52.997	-6.0	90	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.490	-7.0	92	0.00
85 T	sec-Butylbenzene	50.000	52.886	-5.8	92	0.00
86 T	p-Isopropyltoluene	50.000	53.511	-7.0	91	0.00
87 T	1,3-Dichlorobenzene	50.000	52.317	-4.6	92	0.00
88 T	1,4-Dichlorobenzene	50.000	52.145	-4.3	91	0.00
89 T	n-Butylbenzene	50.000	54.781	-9.6	92	0.00
90 T	Hexachloroethane	50.000	52.092	-4.2	91	0.00
91 T	1,2-Dichlorobenzene	50.000	51.907	-3.8	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.897	-3.8	88	0.00
93 T	1,2,4-Trichlorobenzene	50.000	55.414	-10.8	90	0.00
94 T	Hexachlorobutadiene	50.000	53.663	-7.3	91	0.00
95 T	Naphthalene	50.000	56.026	-12.1	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021046.D
Acq On : 04 Feb 2025 09:47
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 00:42:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	55.491	-11.0	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



QC SAMPLE DATA

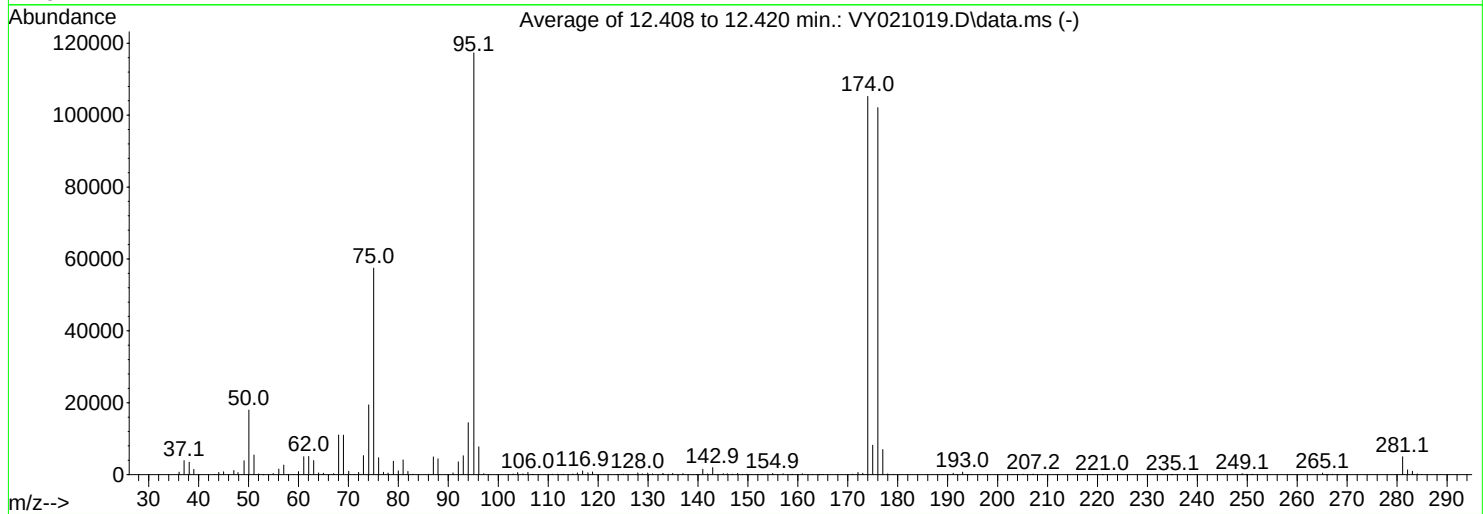
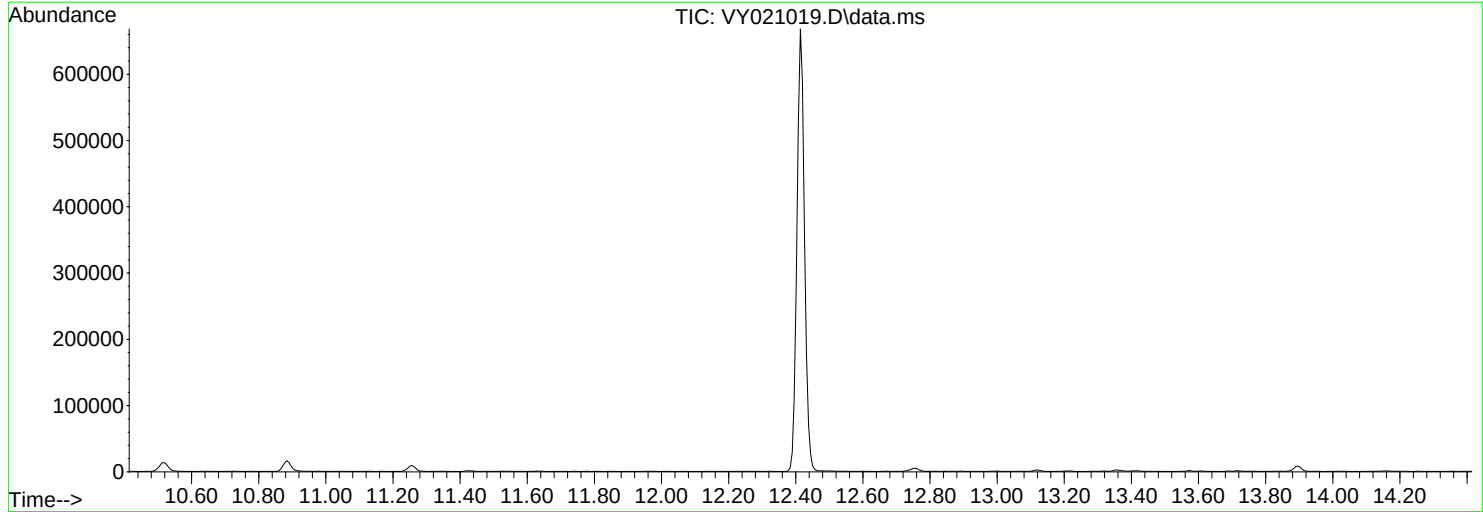
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021019.D
Acq On : 03 Feb 2025 09:51
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Title : SW846 8260
Last Update : Mon Feb 03 13:08:38 2025



AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1745

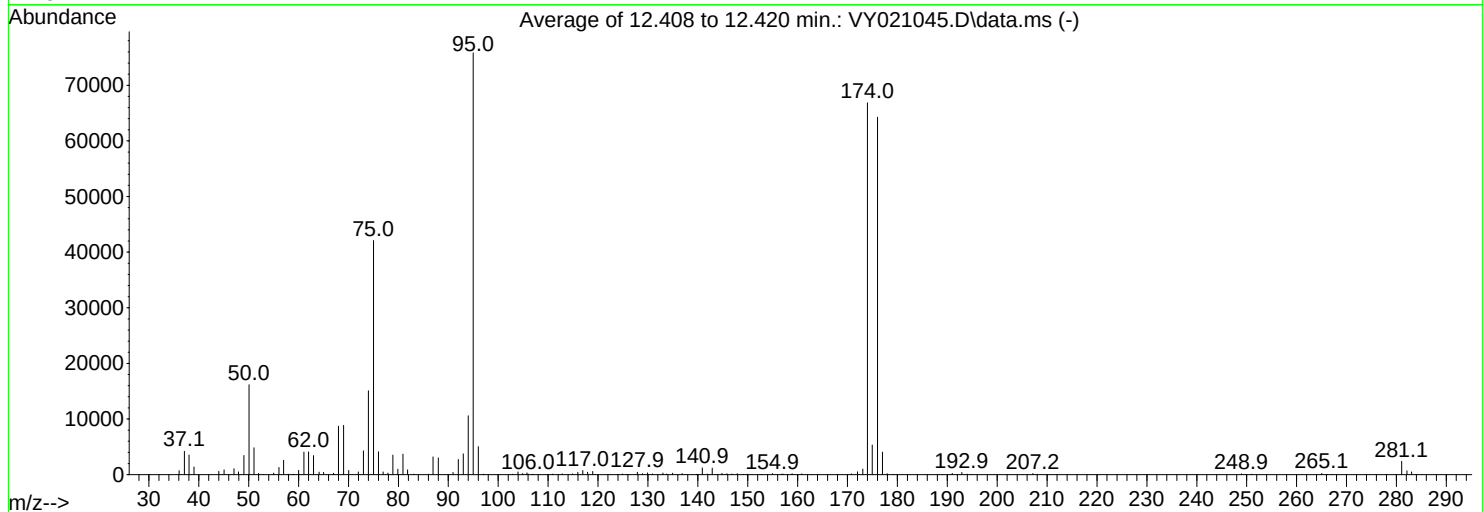
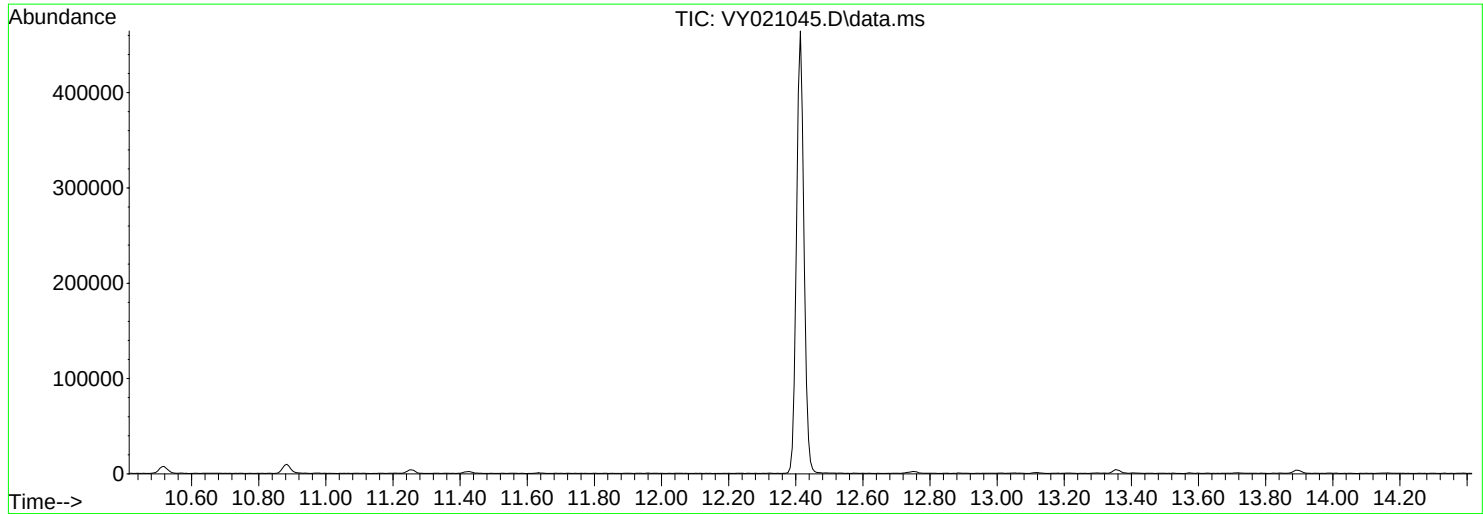
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	15.3	17983	PASS
75	95	30	60	49.0	57469	PASS
95	95	100	100	100.0	117333	PASS
96	95	5	9	6.6	7767	PASS
173	174	0.00	2	0.4	390	PASS
174	95	50	100	89.7	105227	PASS
175	174	5	9	7.8	8179	PASS
176	174	95	101	97.0	102091	PASS
177	176	5	9	6.8	6972	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021045.D
Acq On : 04 Feb 2025 09:16
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Title : SW846 8260
Last Update : Mon Feb 03 13:08:38 2025



AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1744

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	21.3	16179	PASS
75	95	30	60	55.5	42091	PASS
95	95	100	100	100.0	75832	PASS
96	95	5	9	6.6	5042	PASS
173	174	0.00	2	1.5	1021	PASS
174	95	50	100	88.1	66843	PASS
175	174	5	9	7.9	5312	PASS
176	174	95	101	96.1	64269	PASS
177	176	5	9	6.3	4052	PASS

Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	
Client Sample ID:	VY0203SBL01		SDG No.:	Q1207
Lab Sample ID:	VY0203SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021028.D	1		02/03/25 14:13	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.00	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	5.00	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	5.00	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	5.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	5.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	5.00	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	25.0	U	15.6	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	5.00	U	0.78	5.00	ug/Kg
67-64-1	Acetone	25.0	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	5.00	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.00	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	5.00	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	10.0	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	5.00	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	5.00	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	25.0	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.00	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	5.00	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	5.00	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.00	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	5.00	U	0.87	5.00	ug/Kg
71-43-2	Benzene	5.00	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	5.00	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	5.00	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	5.00	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	5.00	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	25.0	U	4.40	25.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBL01	SDG No.:	Q1207
Lab Sample ID:	VY0203SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021028.D	1		02/03/25 14:13	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	5.00	U	0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.00	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.00	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	25.0	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	5.00	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	5.00	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	5.00	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	5.00	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	5.00	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	10.0	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	5.00	U	0.70	5.00	ug/Kg
100-42-5	Styrene	5.00	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	5.00	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	5.00	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.00	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.00	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.00	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.00	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.6		50 - 163	101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		54 - 147	99%	SPK: 50
2037-26-5	Toluene-d8	47.8		58 - 134	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.4		29 - 146	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.713			
540-36-3	1,4-Difluorobenzene	286000	8.622			
3114-55-4	Chlorobenzene-d5	240000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	89800	13.353			

Report of Analysis

Client:	RU2 Engineering, LLC			Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR			Date Received:	
Client Sample ID:	VY0203SBL01			SDG No.:	Q1207
Lab Sample ID:	VY0203SBL01			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021028.D	1		02/03/25 14:13	VY020325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021028.D
Acq On : 03 Feb 2025 14:13
Operator : SY/MD
Sample : VY0203SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBL01

Quant Time: Feb 04 00:54:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	159750	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	285727	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	240190	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	89793	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	82847	50.616	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	101.240%
35) Dibromofluoromethane	7.640	113	90450	49.396	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.800%
50) Toluene-d8	10.109	98	333541	47.845	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	95.700%
62) 4-Bromofluorobenzene	12.414	95	98882	43.417	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	86.840%

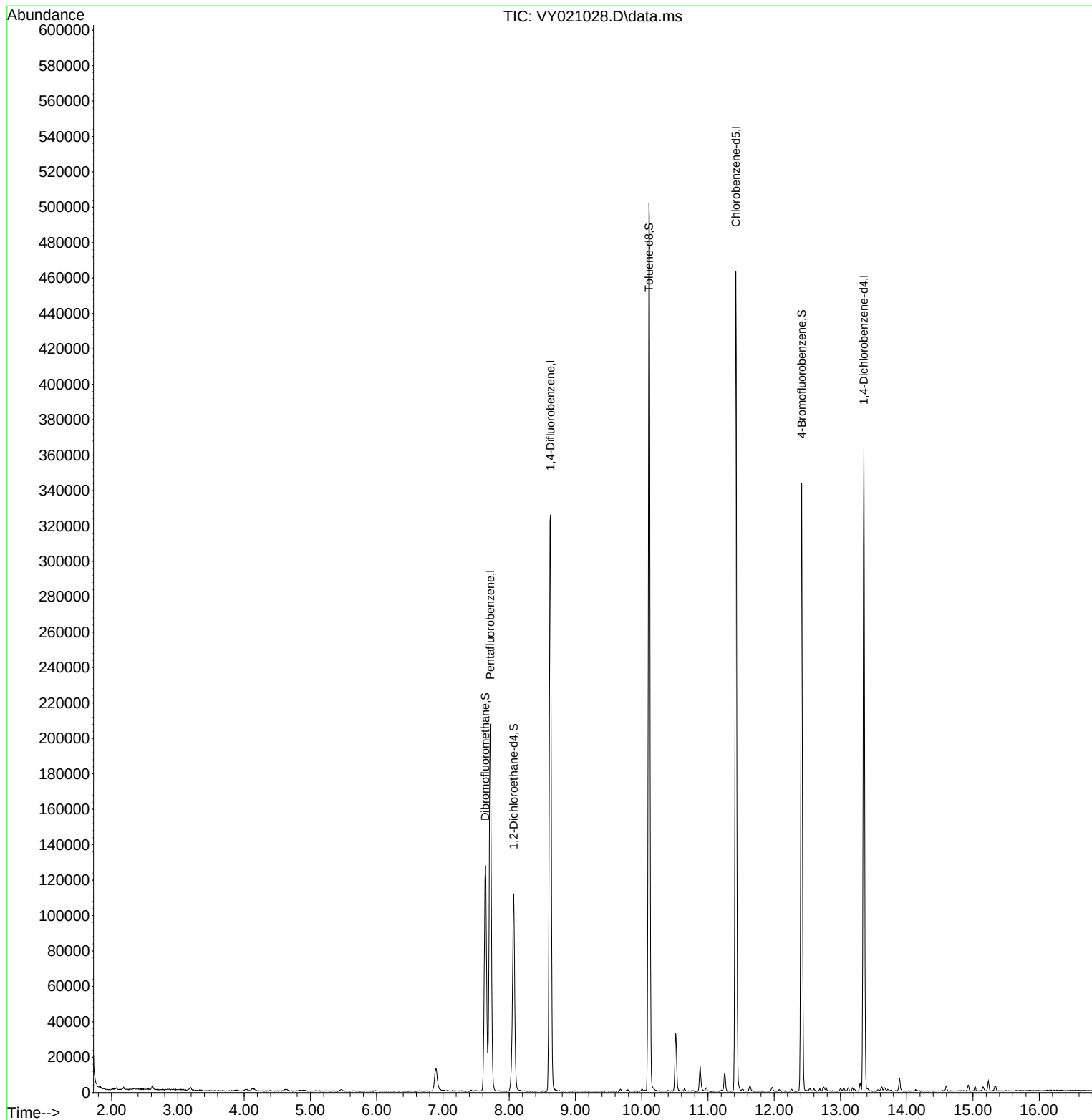
Target Compounds	Qvalue
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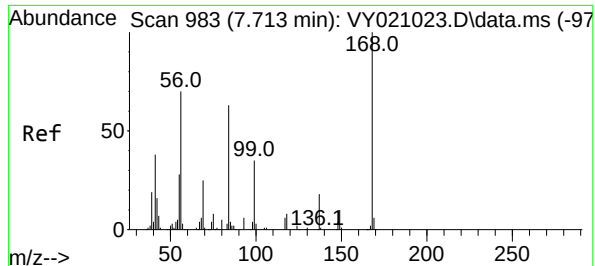
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021028.D
Acq On : 03 Feb 2025 14:13
Operator : SY/MD
Sample : VY0203SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBL01

Quant Time: Feb 04 00:54:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

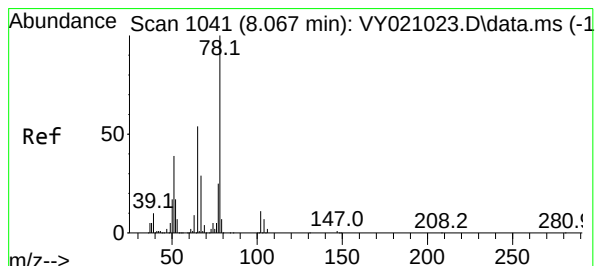
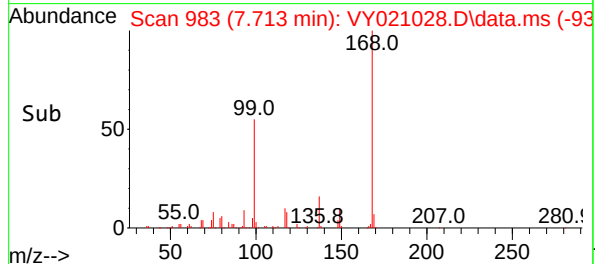
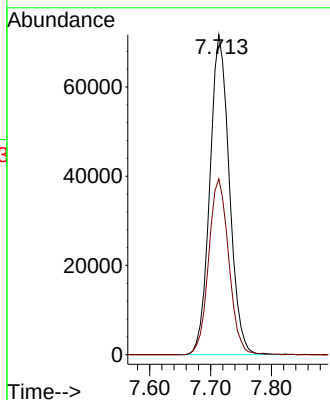
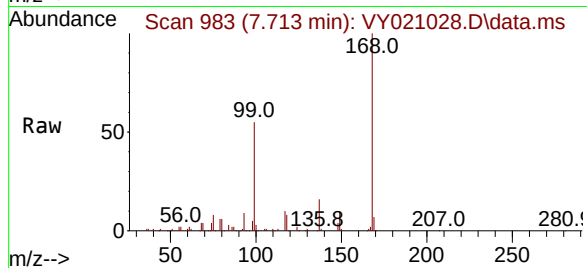




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY021028.D
Acq: 03 Feb 2025 14:13

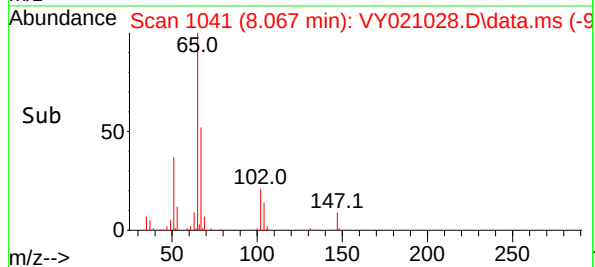
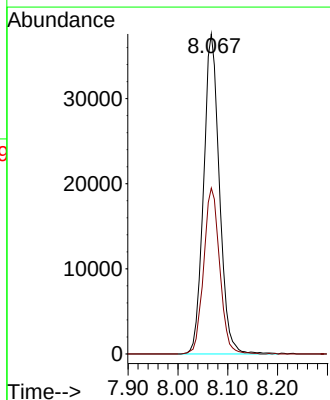
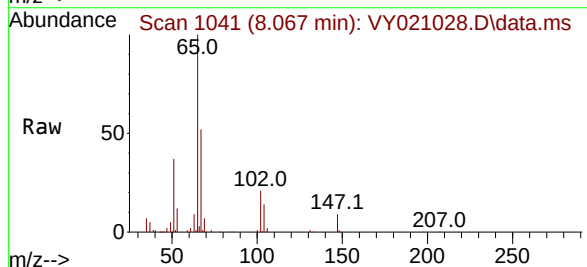
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBL01

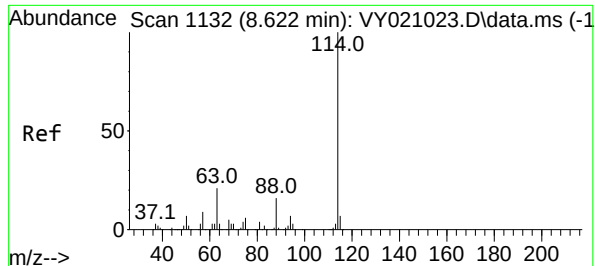
Tgt Ion:168 Resp: 159750
Ion Ratio Lower Upper
168 100
99 55.0 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 50.616 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY021028.D
Acq: 03 Feb 2025 14:13

Tgt Ion: 65 Resp: 82847
Ion Ratio Lower Upper
65 100
67 52.4 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VY021028.D

Acq: 03 Feb 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBL01

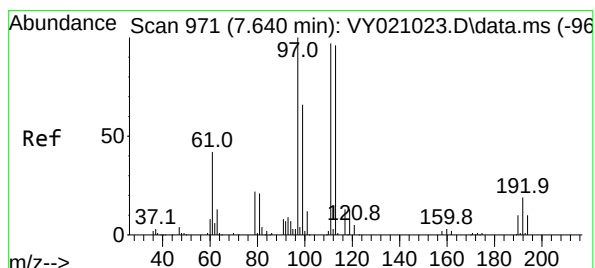
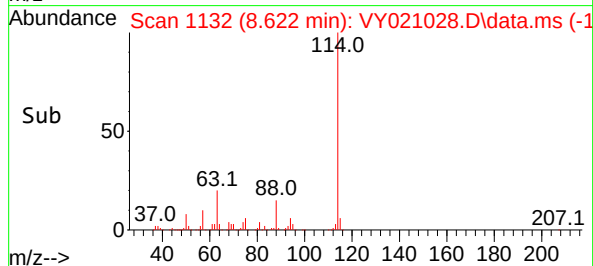
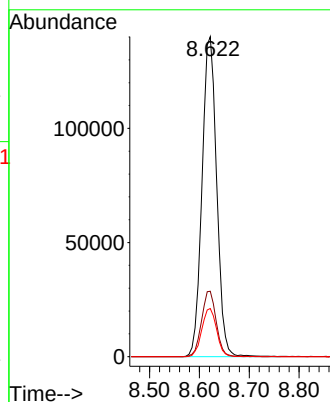
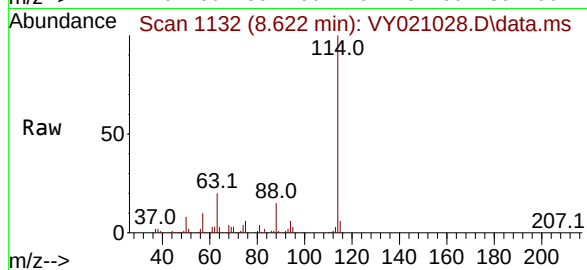
Tgt Ion:114 Resp: 285727

Ion Ratio Lower Upper

114 100

63 20.4 0.0 37.4

88 15.1 0.0 29.0



#35

Dibromofluoromethane

Concen: 49.396 ug/l

RT: 7.640 min Scan# 971

Delta R.T. -0.000 min

Lab File: VY021028.D

Acq: 03 Feb 2025 14:13

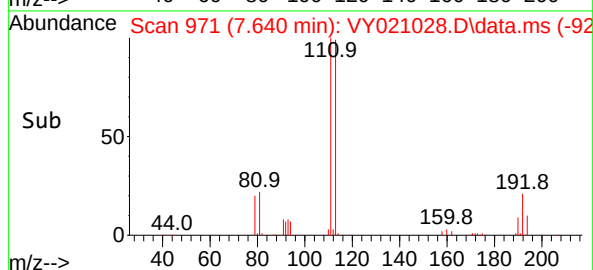
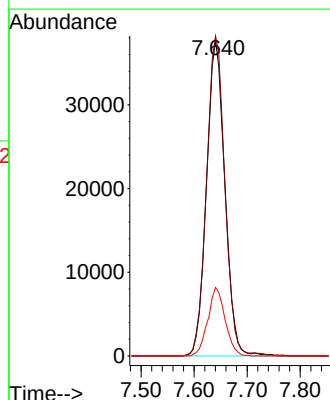
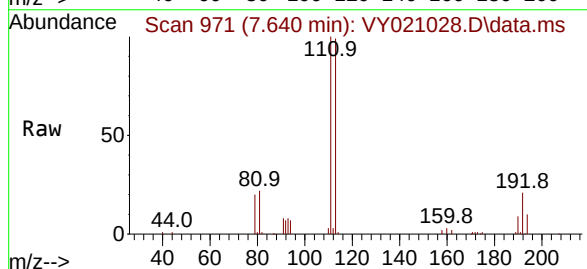
Tgt Ion:113 Resp: 90450

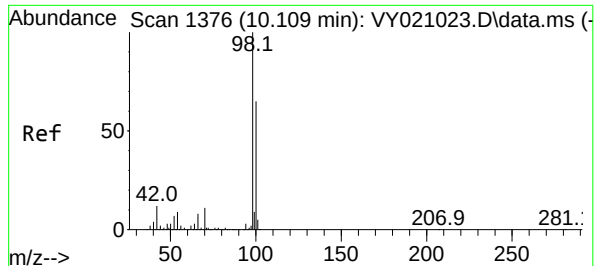
Ion Ratio Lower Upper

113 100

111 101.7 83.8 125.6

192 20.5 14.5 21.7





#50

Toluene-d8

Concen: 47.845 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021028.D

Acq: 03 Feb 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

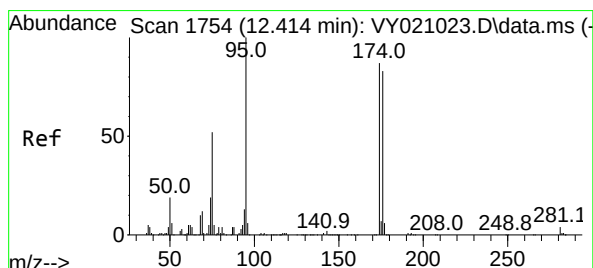
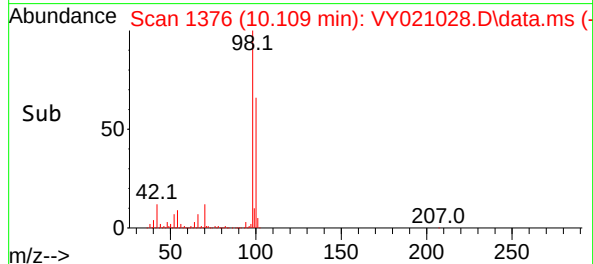
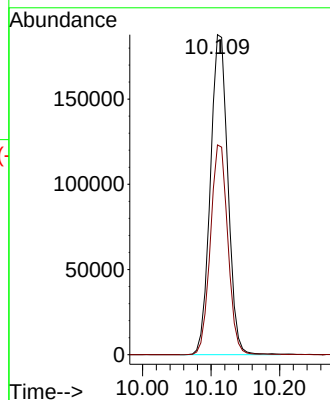
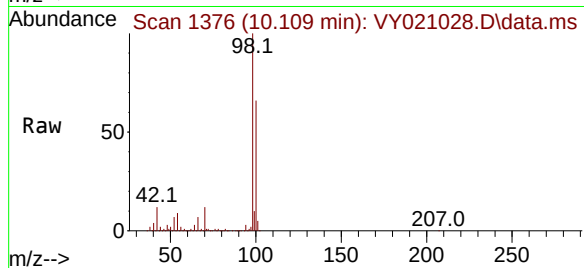
VY0203SBL01

Tgt Ion: 98 Resp: 333541

Ion Ratio Lower Upper

98 100

100 65.3 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 43.417 ug/l

RT: 12.414 min Scan# 1754

Delta R.T. -0.000 min

Lab File: VY021028.D

Acq: 03 Feb 2025 14:13

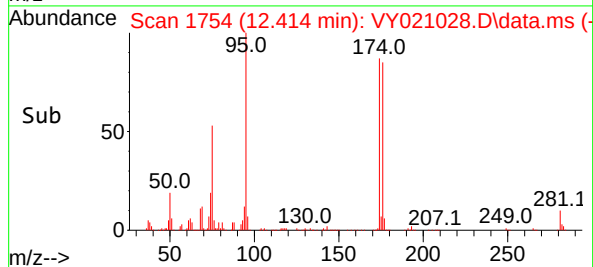
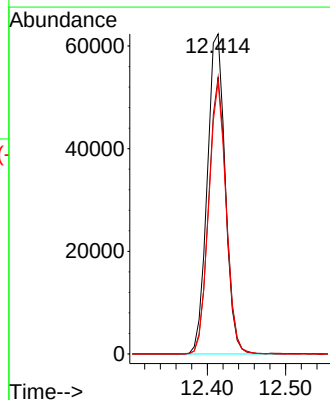
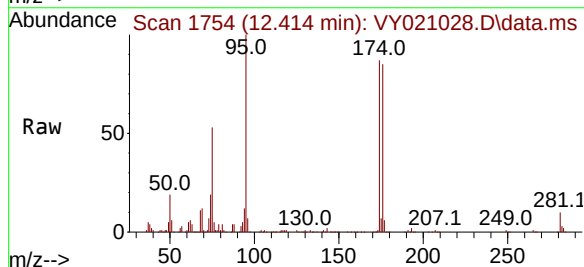
Tgt Ion: 95 Resp: 98882

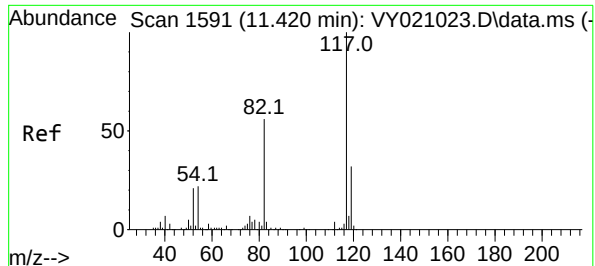
Ion Ratio Lower Upper

95 100

174 84.4 0.0 160.0

176 82.1 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021028.D

Acq: 03 Feb 2025 14:13

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBL01

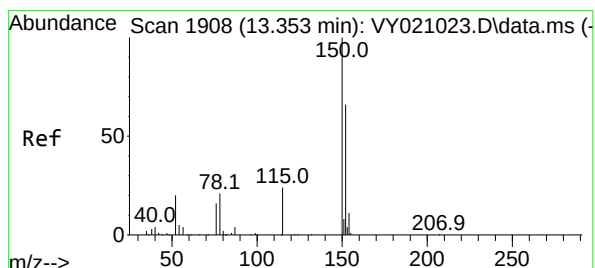
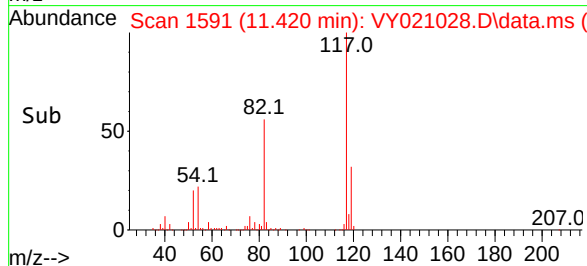
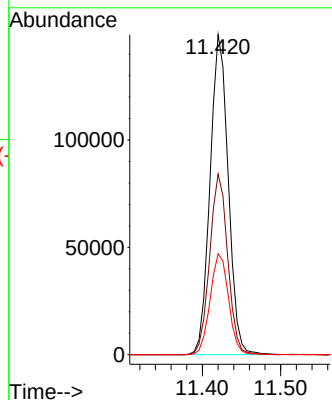
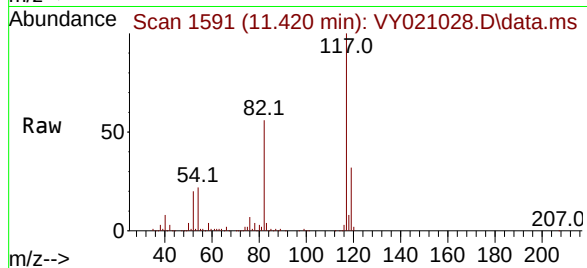
Tgt Ion:117 Resp: 240190

Ion Ratio Lower Upper

117 100

82 56.4 43.8 65.8

119 31.5 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VY021028.D

Acq: 03 Feb 2025 14:13

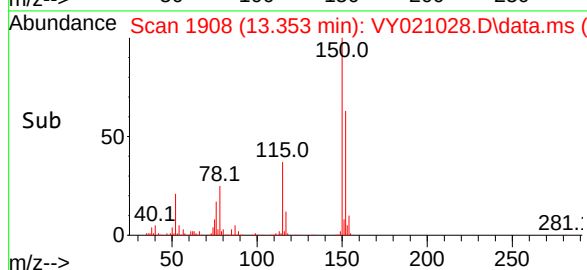
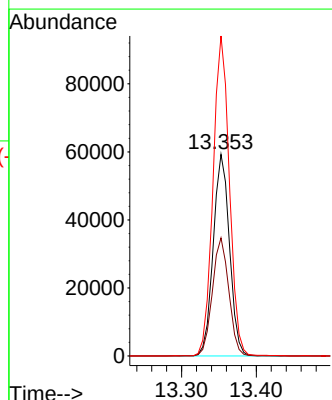
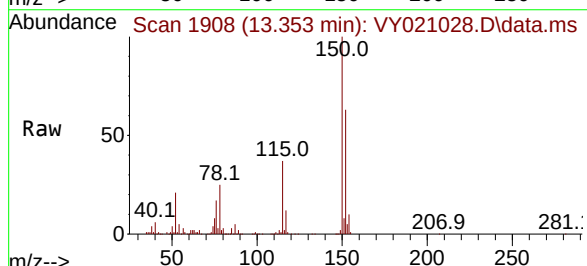
Tgt Ion:152 Resp: 89793

Ion Ratio Lower Upper

152 100

115 59.2 30.0 90.0

150 159.7 0.0 344.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021028.D
Acq On : 03 Feb 2025 14:13
Operator : SY/MD
Sample : VY0203SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M

Title : SW846 8260

Signal : TIC: VY021028.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.896	839	849	862	rBV	12645	40266	4.51%	0.870%
2	7.640	961	971	977	rBV	127392	304615	34.11%	6.582%
3	7.713	977	983	997	rVB	207286	469235	52.55%	10.139%
4	8.067	1029	1041	1053	rBV2	111619	265196	29.70%	5.730%
5	8.622	1122	1132	1147	rBV	325698	667943	74.80%	14.432%
6	10.109	1369	1376	1392	rBV	501370	892955	100.00%	19.294%
7	10.512	1435	1442	1450	rBV2	32555	59962	6.72%	1.296%
8	10.884	1496	1503	1514	rBV	13226	23731	2.66%	0.513%
9	11.255	1558	1564	1571	rVB3	10167	18346	2.05%	0.396%
10	11.420	1583	1591	1604	rBV	463090	755821	84.64%	16.331%
11	12.414	1747	1754	1763	rBV2	343597	562897	63.04%	12.163%
12	13.353	1902	1908	1917	rVV	361836	555395	62.20%	12.000%
13	13.889	1990	1996	2006	rBV	7309	11742	1.31%	0.254%

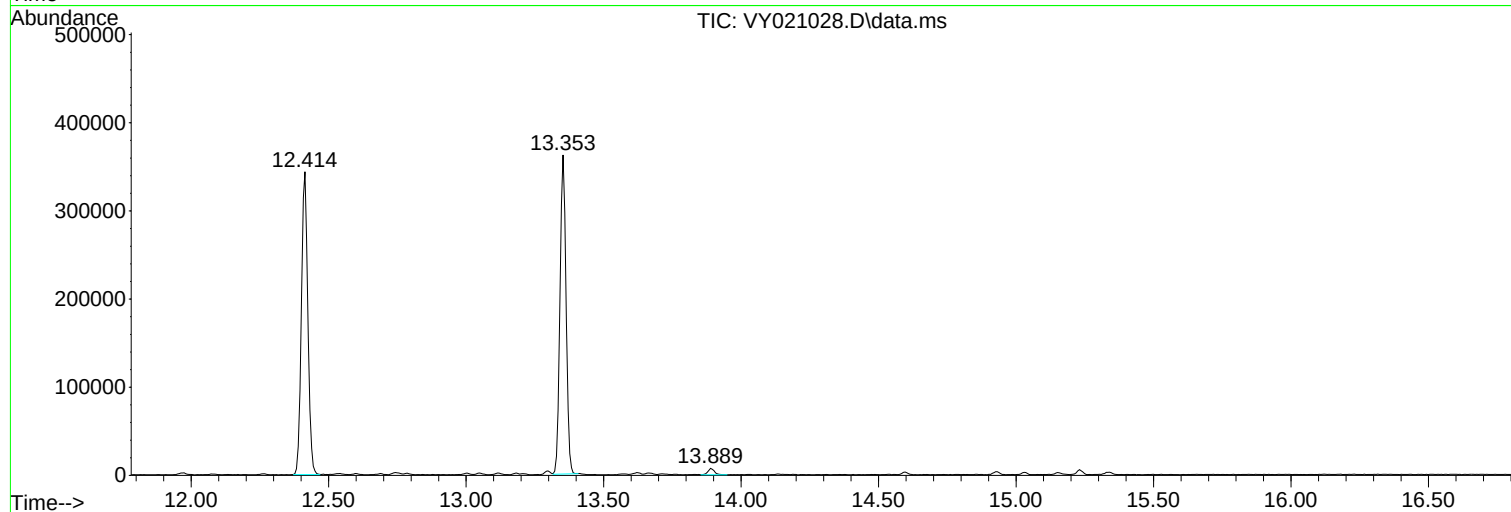
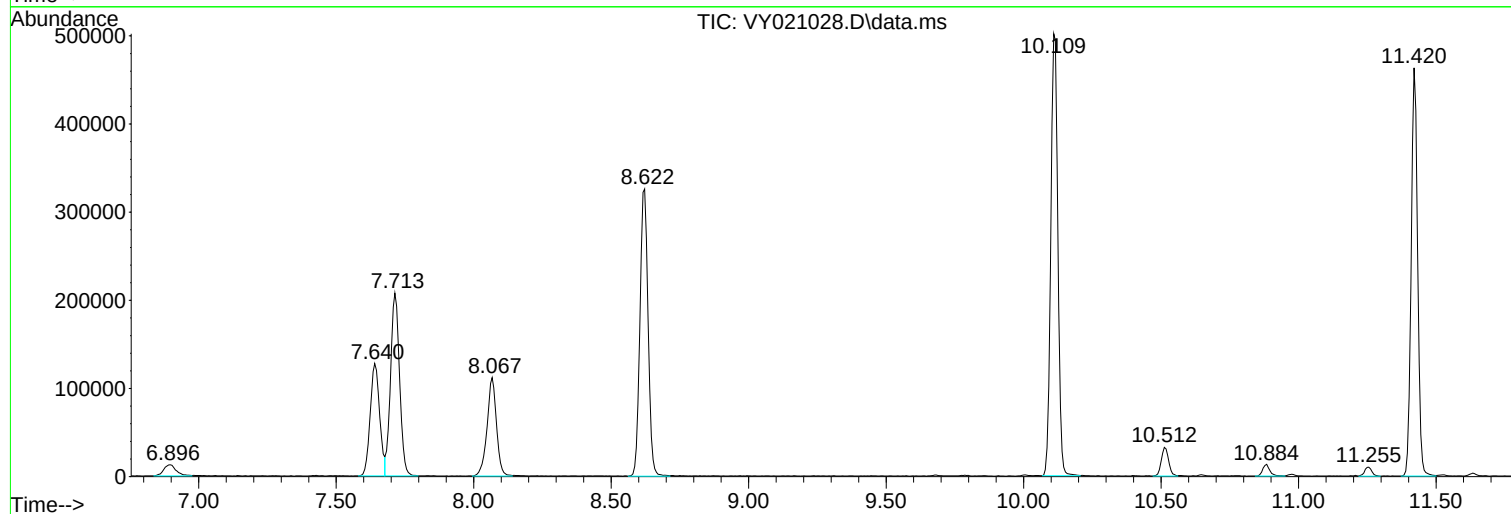
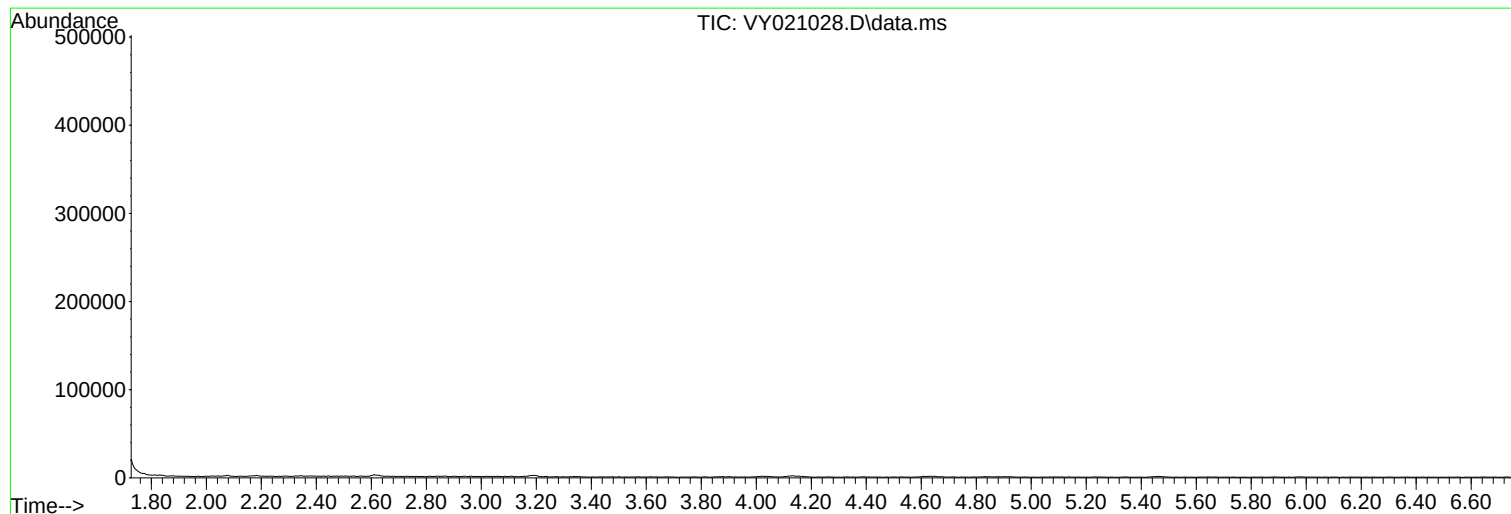
Sum of corrected areas: 4628104

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021028.D
Acq On : 03 Feb 2025 14:13
Operator : SY/MD
Sample : VY0203SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021028.D
Acq On : 03 Feb 2025 14:13
Operator : SY/MD
Sample : VY0203SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021028.D
Acq On : 03 Feb 2025 14:13
Operator : SY/MD
Sample : VY0203SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0204SBL01	SDG No.:	Q1207
Lab Sample ID:	VY0204SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021047.D	1		02/04/25 10:15	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.00	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	5.00	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	5.00	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	5.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	5.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	5.00	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	25.0	U	15.6	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	5.00	U	0.78	5.00	ug/Kg
67-64-1	Acetone	25.0	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	5.00	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.00	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	5.00	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	10.0	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	5.00	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	5.00	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	25.0	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.00	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	5.00	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	5.00	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.00	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	5.00	U	0.87	5.00	ug/Kg
71-43-2	Benzene	5.00	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	5.00	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	5.00	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	5.00	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	5.00	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	25.0	U	4.40	25.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	
Client Sample ID:	VY0204SBL01		SDG No.:	Q1207
Lab Sample ID:	VY0204SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021047.D	1		02/04/25 10:15	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	5.00	U	0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.00	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.00	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	25.0	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	5.00	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	5.00	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	5.00	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	5.00	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	5.00	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	10.0	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	5.00	U	0.70	5.00	ug/Kg
100-42-5	Styrene	5.00	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	5.00	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	5.00	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.00	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.00	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.00	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.00	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		50 - 163	115%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		54 - 147	103%	SPK: 50
2037-26-5	Toluene-d8	49.8		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		29 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	7.713			
540-36-3	1,4-Difluorobenzene	321000	8.616			
3114-55-4	Chlorobenzene-d5	292000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.353			

Report of Analysis

Client:	RU2 Engineering, LLC			Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR			Date Received:	
Client Sample ID:	VY0204SBL01			SDG No.:	Q1207
Lab Sample ID:	VY0204SBL01			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021047.D	1		02/04/25 10:15	VY020425

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021047.D
Acq On : 04 Feb 2025 10:15
Operator : SY/MD
Sample : VY0204SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBL01

Quant Time: Feb 05 00:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	173019	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	321305	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	292351	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	114535	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	101700	57.369	ug/l	0.00
Spiked Amount	50.000	Range 50 - 163	Recovery	=	114.740%	
35) Dibromofluoromethane	7.634	113	106203	51.576	ug/l	0.00
Spiked Amount	50.000	Range 54 - 147	Recovery	=	103.160%	
50) Toluene-d8	10.109	98	390070	49.758	ug/l	0.00
Spiked Amount	50.000	Range 58 - 134	Recovery	=	99.520%	
62) 4-Bromofluorobenzene	12.408	95	121663	47.505	ug/l	0.00
Spiked Amount	50.000	Range 30 - 143	Recovery	=	95.020%	

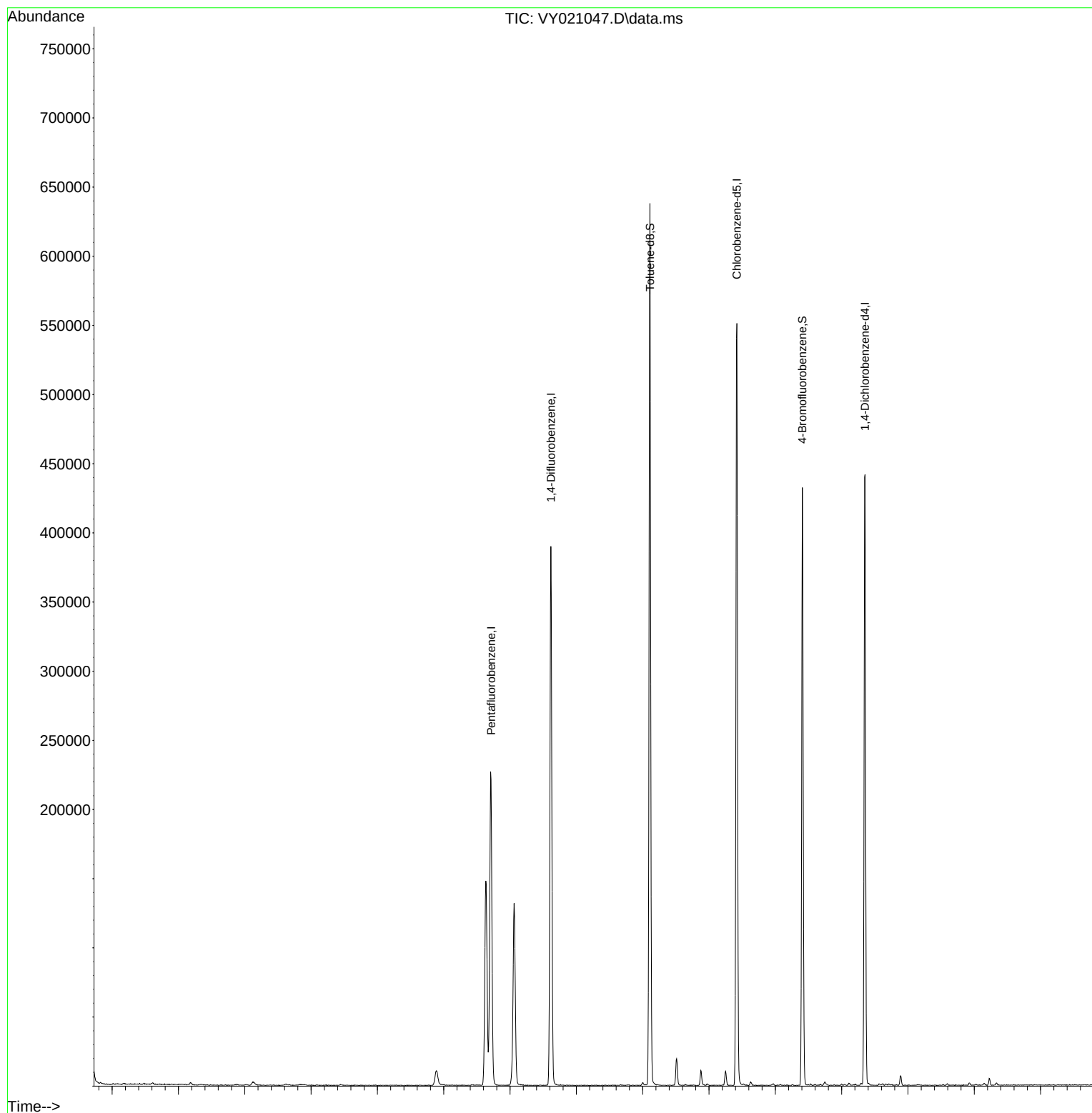
Target Compounds Qvalue

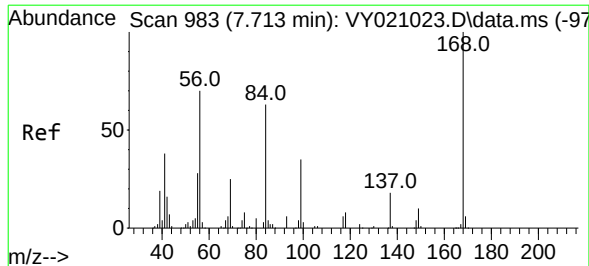
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021047.D
Acq On : 04 Feb 2025 10:15
Operator : SY/MD
Sample : VY0204SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBL01

Quant Time: Feb 05 00:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

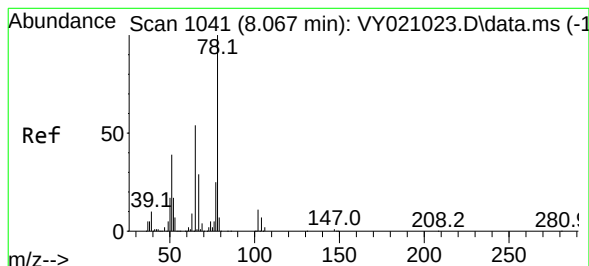
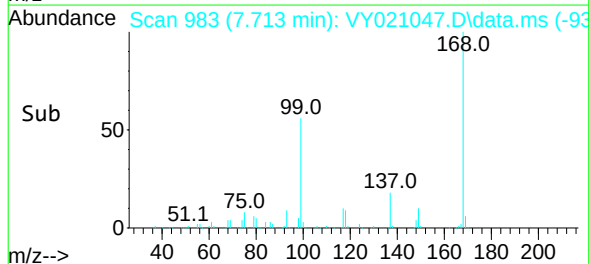
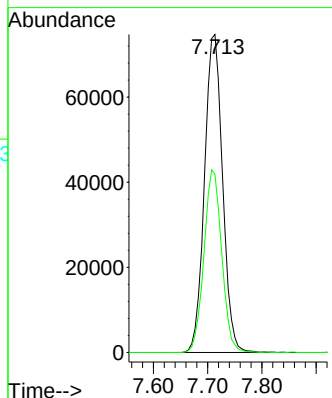
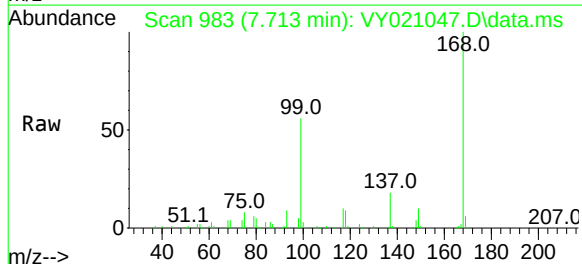




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY021047.D
Acq: 04 Feb 2025 10:15

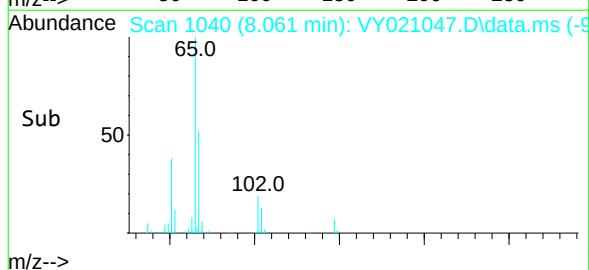
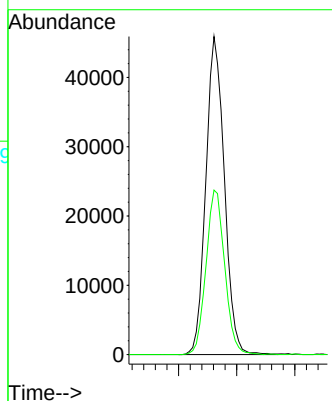
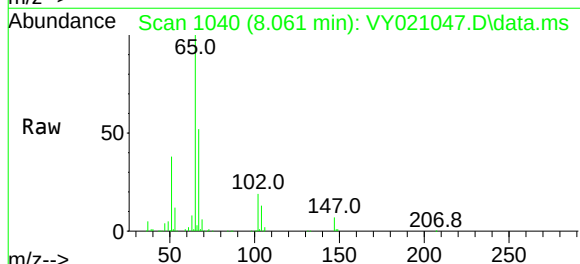
Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBL01

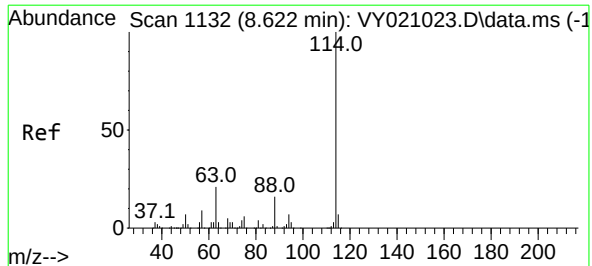
Tgt Ion:168 Resp: 173019
Ion Ratio Lower Upper
168 100
99 56.0 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 57.369 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021047.D
Acq: 04 Feb 2025 10:15

Tgt Ion: 65 Resp: 101700
Ion Ratio Lower Upper
65 100
67 52.1 0.0 109.0

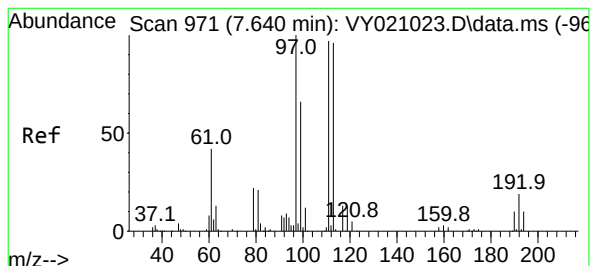
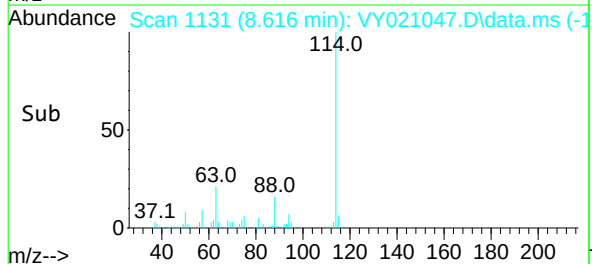
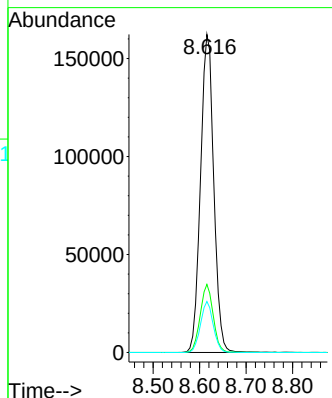
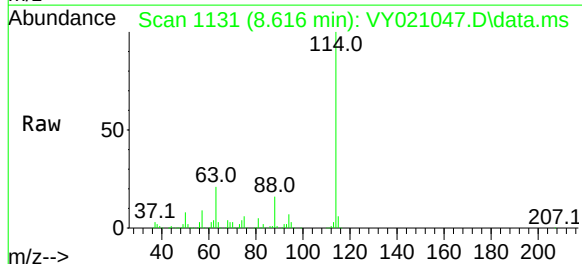




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021047.D
Acq: 04 Feb 2025 10:15

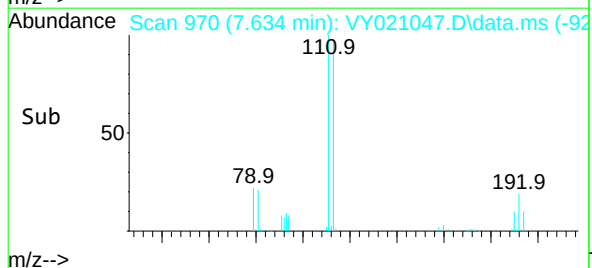
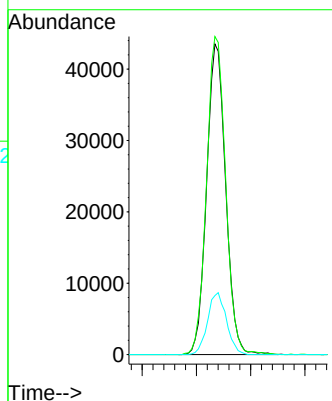
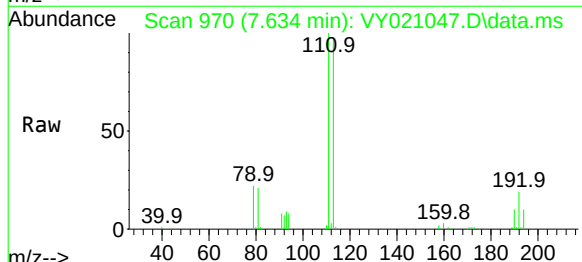
Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBL01

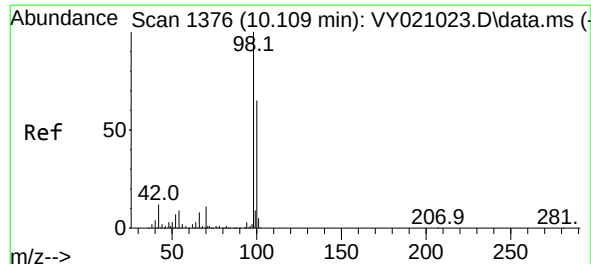
Tgt Ion:114 Resp: 321305
Ion Ratio Lower Upper
114 100
63 21.4 0.0 37.4
88 16.0 0.0 29.0



#35
Dibromofluoromethane
Concen: 51.576 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021047.D
Acq: 04 Feb 2025 10:15

Tgt Ion:113 Resp: 106203
Ion Ratio Lower Upper
113 100
111 102.8 83.8 125.6
192 19.8 14.5 21.7





#50

Toluene-d8

Concen: 49.758 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021047.D

Acq: 04 Feb 2025 10:15

Instrument :

MSVOA_Y

ClientSampleId :

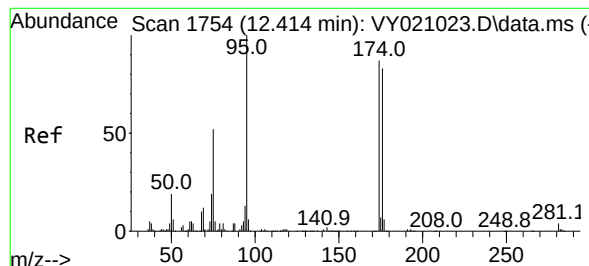
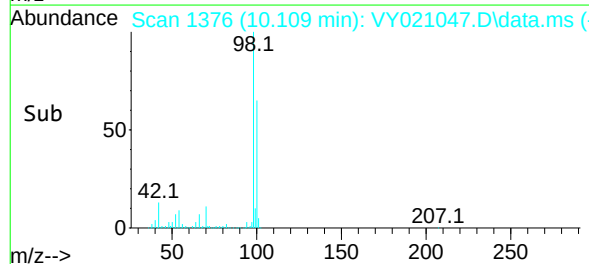
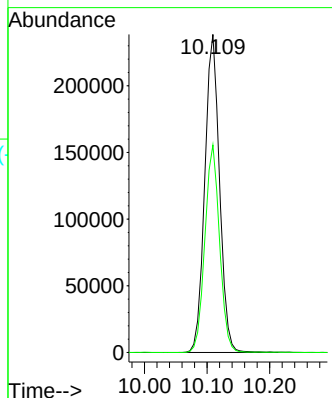
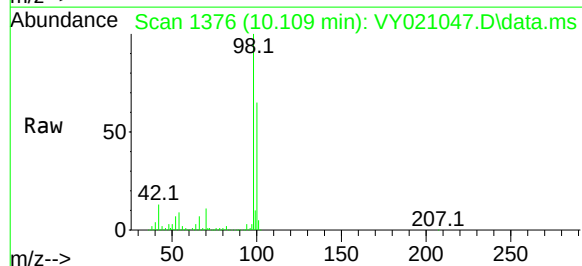
VY0204SBL01

Tgt Ion: 98 Resp: 390070

Ion Ratio Lower Upper

98 100

100 65.0 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 47.505 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.006 min

Lab File: VY021047.D

Acq: 04 Feb 2025 10:15

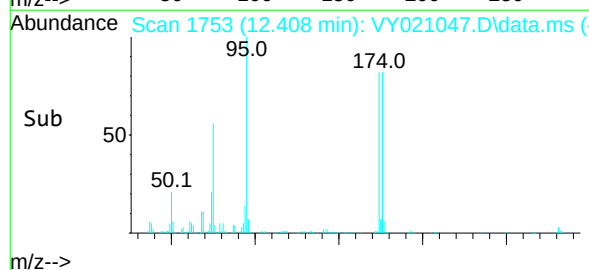
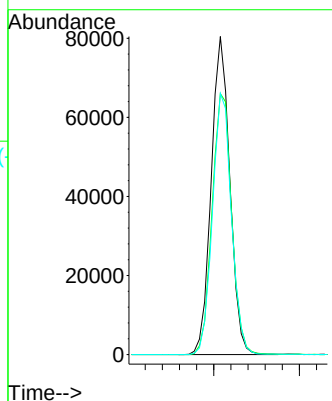
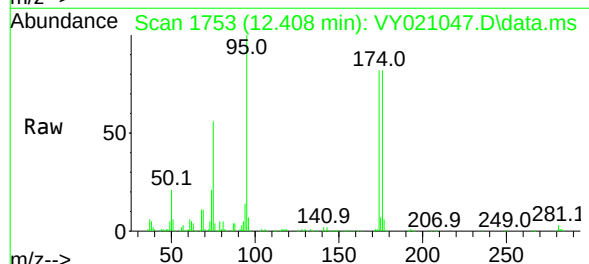
Tgt Ion: 95 Resp: 121663

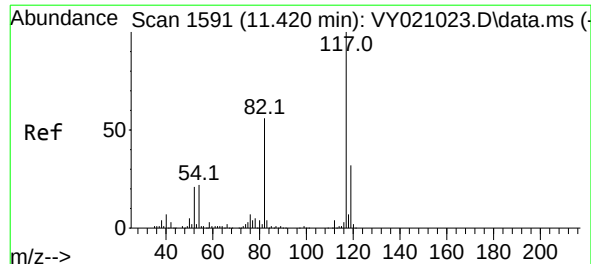
Ion Ratio Lower Upper

95 100

174 85.9 0.0 160.0

176 83.5 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. -0.000 min

Lab File: VY021047.D

Acq: 04 Feb 2025 10:15

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBL01

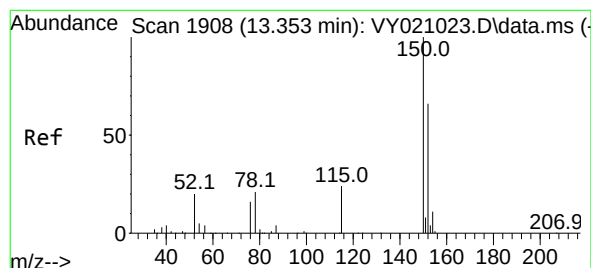
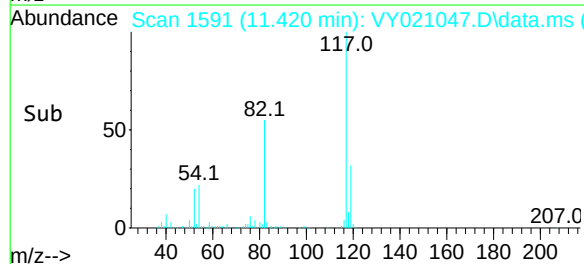
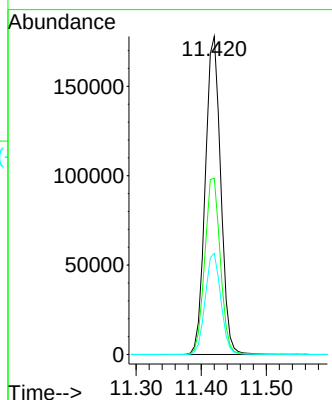
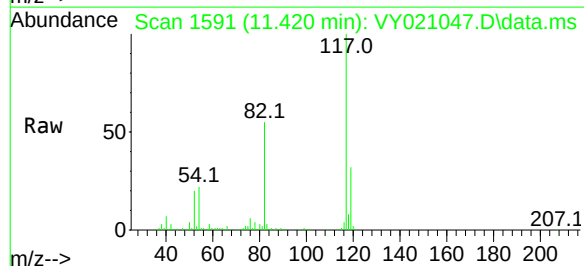
Tgt Ion:117 Resp: 292351

Ion Ratio Lower Upper

117 100

82 55.4 43.8 65.8

119 31.8 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VY021047.D

Acq: 04 Feb 2025 10:15

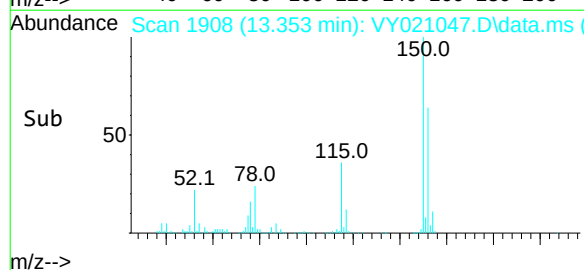
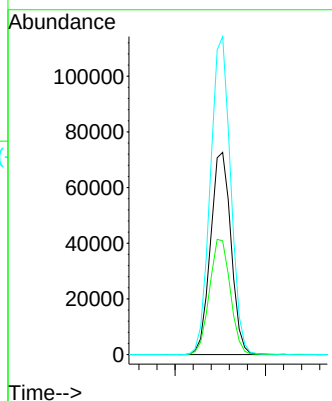
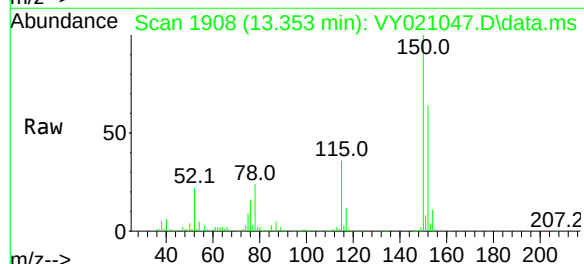
Tgt Ion:152 Resp: 114535

Ion Ratio Lower Upper

152 100

115 57.9 30.0 90.0

150 155.3 0.0 344.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021047.D
Acq On : 04 Feb 2025 10:15
Operator : SY/MD
Sample : VY0204SBL01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M

Title : SW846 8260

Signal : TIC: VY021047.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	837	848	859	rBV	10654	34888	3.31%	0.642%
2	7.634	959	970	976	rBV	147915	359446	34.15%	6.618%
3	7.707	976	982	997	rVB	226724	518284	49.24%	9.543%
4	8.061	1027	1040	1053	rBV2	131648	311545	29.60%	5.736%
5	8.616	1122	1131	1143	rBV	389596	765058	72.69%	14.086%
6	10.109	1368	1376	1392	rVB	637321	1052551	100.00%	19.379%
7	10.512	1435	1442	1450	rBV2	19129	34803	3.31%	0.641%
8	10.877	1496	1502	1514	rBV	10738	18372	1.75%	0.338%
9	11.249	1558	1563	1571	rVB2	10237	17753	1.69%	0.327%
10	11.420	1582	1591	1605	rBV	550942	924523	87.84%	17.022%
11	12.408	1747	1753	1764	rBV	432074	681506	64.75%	12.548%
12	13.353	1901	1908	1915	rBV	440582	701143	66.61%	12.909%
13	13.889	1990	1996	2002	rVB2	6940	11428	1.09%	0.210%

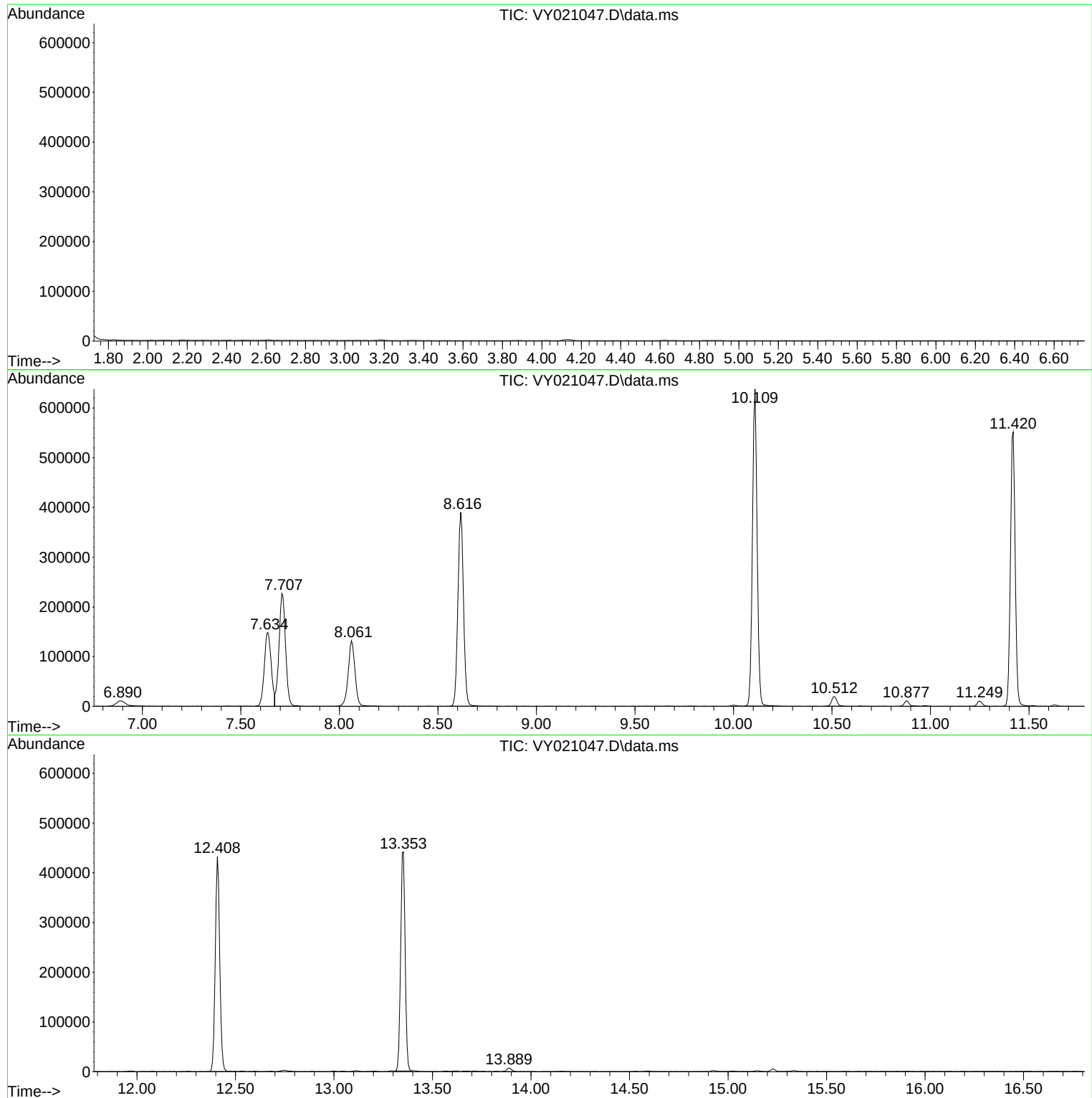
Sum of corrected areas: 5431300

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021047.D
Acq On : 04 Feb 2025 10:15
Operator : SY/MD
Sample : VY0204SBL01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021047.D
Acq On : 04 Feb 2025 10:15
Operator : SY/MD
Sample : VY0204SBL01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021047.D
Acq On : 04 Feb 2025 10:15
Operator : SY/MD
Sample : VY0204SBL01
Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	
Client Sample ID:	VY0203SBS01		SDG No.:	Q1207
Lab Sample ID:	VY0203SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021029.D	1		02/03/25 14:55	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.1		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.2		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	17.5		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.1		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	91.7		15.6	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	18.0		0.78	5.00	ug/Kg
67-64-1	Acetone	83.7		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.7		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	16.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	15.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	17.1		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	17.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.8		0.69	5.00	ug/Kg
78-93-3	2-Butanone	78.6		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	18.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	17.4		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	16.4		2.40	5.00	ug/Kg
67-66-3	Chloroform	17.5		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	18.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.5		0.87	5.00	ug/Kg
71-43-2	Benzene	18.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	16.9		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.1		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	17.6		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	17.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	79.4		4.40	25.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	
Client Sample ID:	VY0203SBS01		SDG No.:	Q1207
Lab Sample ID:	VY0203SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021029.D	1		02/03/25 14:55	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	18.1		0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	17.1		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	17.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	16.7		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	76.7		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	16.5		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	16.7		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	17.7		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.5		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	37.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	18.2		0.70	5.00	ug/Kg
100-42-5	Styrene	18.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	17.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.7		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	16.4		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.2		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	17.9		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	17.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	16.6		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.5		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.3		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.9		50 - 163	92%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		54 - 147	98%	SPK: 50
2037-26-5	Toluene-d8	50.2		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		29 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	208000	7.713			
540-36-3	1,4-Difluorobenzene	315000	8.622			
3114-55-4	Chlorobenzene-d5	265000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.352			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBS01	SDG No.:	Q1207
Lab Sample ID:	VY0203SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021029.D	1		02/03/25 14:55	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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_Y\Data\VY020325\
 Data File : VY021029.D
 Acq On : 03 Feb 2025 14:55
 Operator : SY/MD
 Sample : VY0203SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0203SBS01

Quant Time: Feb 04 00:54:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	208053	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	315310	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	265413	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	127785	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	97921	45.936	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	91.880%		
35) Dibromofluoromethane	7.640	113	98626	48.807	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.620%		
50) Toluene-d8	10.109	98	386321	50.217	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	100.440%		
62) 4-Bromofluorobenzene	12.414	95	124856	49.679	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	99.360%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	33566	18.101	ug/l	94
3) Chloromethane	2.074	50	33212	18.150	ug/l	94
4) Vinyl Chloride	2.208	62	32799	17.808	ug/l	99
5) Bromomethane	2.598	94	20799	18.272	ug/l	98
6) Chloroethane	2.745	64	19197	17.510	ug/l	99
7) Trichlorofluoromethane	3.068	101	60637	18.072	ug/l	98
8) Diethyl Ether	3.458	74	17435	16.645	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	38883	18.464	ug/l	97
10) Methyl Iodide	4.013	142	36813	15.735	ug/l	92
11) Tert butyl alcohol	4.860	59	13246	91.697	ug/l #	95
12) 1,1-Dichloroethene	3.799	96	35767	18.030	ug/l	86
13) Acrolein	3.659	56	19847	89.223	ug/l	97
14) Allyl chloride	4.391	41	59324	17.744	ug/l	97
15) Acrylonitrile	5.073	53	35734	81.924	ug/l	98
16) Acetone	3.878	43	27822	83.693	ug/l	94
17) Carbon Disulfide	4.116	76	110086	17.697	ug/l	99
18) Methyl Acetate	4.384	43	17945	15.377	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	80945	16.144	ug/l	100
20) Methylene Chloride	4.628	84	35372	17.116	ug/l	95
21) trans-1,2-Dichloroethene	5.128	96	39102	17.907	ug/l	98
22) Diisopropyl ether	6.024	45	120509	17.487	ug/l	96
23) Vinyl Acetate	5.970	43	315737	82.189	ug/l	98
24) 1,1-Dichloroethane	5.927	63	70952	17.573	ug/l	98
25) 2-Butanone	6.896	43	42955	78.633	ug/l	99
26) 2,2-Dichloropropane	6.896	77	67210	17.991	ug/l	97
27) cis-1,2-Dichloroethene	6.896	96	43736	17.401	ug/l	91
28) Bromochloromethane	7.250	49	26252	16.443	ug/l	95
29) Tetrahydrofuran	7.268	42	29686	80.310	ug/l	93
30) Chloroform	7.427	83	72698	17.530	ug/l	100
31) Cyclohexane	7.707	56	64723	17.801	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	69619	18.056	ug/l	99
36) 1,1-Dichloropropene	7.847	75	55441	18.523	ug/l	99
37) Ethyl Acetate	6.994	43	21746	16.562	ug/l	100
38) Carbon Tetrachloride	7.823	117	63009	18.017	ug/l	98
39) Methylcyclohexane	9.115	83	67910	18.549	ug/l	99
40) Benzene	8.085	78	158805	18.080	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021029.D
 Acq On : 03 Feb 2025 14:55
 Operator : SY/MD
 Sample : VY0203SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0203SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 04 00:54:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.256	41	15815m	20.819	ug/l	
42) 1,2-Dichloroethane	8.164	62	41230	16.921	ug/l	97
43) Isopropyl Acetate	8.201	43	42135	16.150	ug/l #	86
44) Trichloroethene	8.871	130	41078	18.102	ug/l	97
45) 1,2-Dichloropropane	9.146	63	36704	17.606	ug/l	94
46) Dibromomethane	9.237	93	19335	16.751	ug/l	96
47) Bromodichloromethane	9.426	83	53347	17.232	ug/l	97
48) Methyl methacrylate	9.225	41	19198	16.154	ug/l	97
49) 1,4-Dioxane	9.237	88	3601	335.115	ug/l	89
51) 4-Methyl-2-Pentanone	10.005	43	104184	79.410	ug/l	96
52) Toluene	10.176	92	99825	18.100	ug/l	99
53) t-1,3-Dichloropropene	10.402	75	47648	17.141	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	57532	17.480	ug/l	93
55) 1,1,2-Trichloroethane	10.578	97	24888	16.650	ug/l	97
56) Ethyl methacrylate	10.444	69	31090	15.548	ug/l	91
57) 1,3-Dichloropropane	10.725	76	43745	16.908	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.719	63	74540	78.355	ug/l	98
59) 2-Hexanone	10.767	43	64809	76.721	ug/l	97
60) Dibromochloromethane	10.914	129	34720	16.540	ug/l	98
61) 1,2-Dibromoethane	11.017	107	23426	16.732	ug/l	99
64) Tetrachloroethene	10.652	164	36914	18.735	ug/l	96
65) Chlorobenzene	11.450	112	104718	17.719	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.523	131	37479	17.845	ug/l	97
67) Ethyl Benzene	11.523	91	192965	18.460	ug/l	98
68) m/p-Xylenes	11.633	106	145288	37.154	ug/l	98
69) o-Xylene	11.962	106	66425	18.220	ug/l	97
70) Styrene	11.975	104	110443	18.175	ug/l	98
71) Bromoform	12.139	173	19886	17.011	ug/l #	100
73) Isopropylbenzene	12.261	105	186604	18.694	ug/l	100
74) N-amyl acetate	12.078	43	35266	16.160	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.511	83	27202	16.386	ug/l	99
76) 1,2,3-Trichloropropane	12.566	75	20534m	17.714	ug/l	
77) Bromobenzene	12.535	156	40125	17.419	ug/l	92
78) n-propylbenzene	12.602	91	223020	18.756	ug/l	99
79) 2-Chlorotoluene	12.688	91	123088	18.074	ug/l	98
80) 1,3,5-Trimethylbenzene	12.743	105	149063	18.419	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.310	75	9246	16.276	ug/l	96
82) 4-Chlorotoluene	12.785	91	126164	18.183	ug/l	100
83) tert-Butylbenzene	13.005	119	135542	18.426	ug/l	97
84) 1,2,4-Trimethylbenzene	13.048	105	148583	18.777	ug/l	100
85) sec-Butylbenzene	13.182	105	198955	18.789	ug/l	98
86) p-Isopropyltoluene	13.297	119	166473	18.926	ug/l	99
87) 1,3-Dichlorobenzene	13.297	146	81089	18.232	ug/l	98
88) 1,4-Dichlorobenzene	13.377	146	78352	17.892	ug/l	97
89) n-Butylbenzene	13.627	91	153379	19.114	ug/l	100
90) Hexachloroethane	13.889	117	34059	18.561	ug/l	87
91) 1,2-Dichlorobenzene	13.669	146	67516	17.490	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.285	75	4129	16.644	ug/l	92
93) 1,2,4-Trichlorobenzene	14.931	180	37507	17.455	ug/l	99
94) Hexachlorobutadiene	15.029	225	26939	18.919	ug/l	99
95) Naphthalene	15.151	128	54539	15.865	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	30900	17.280	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021029.D
Acq On : 03 Feb 2025 14:55
Operator : SY/MD
Sample : VY0203SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 04 00:54:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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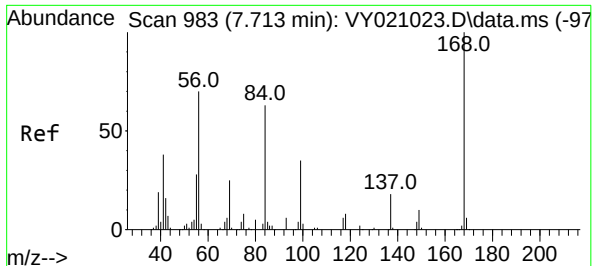
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Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025





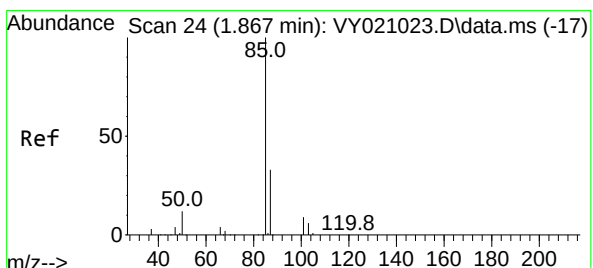
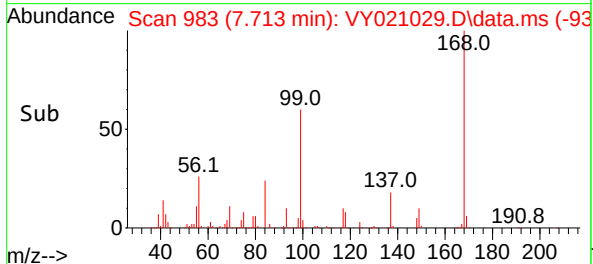
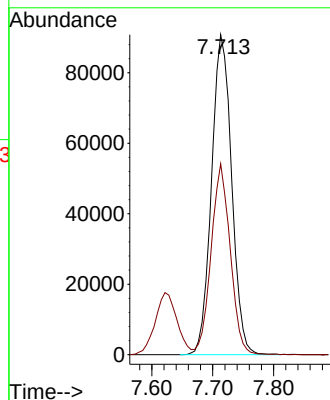
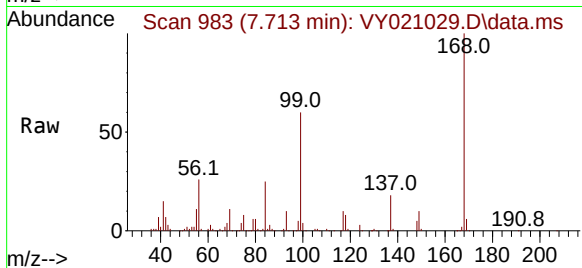
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Tgt Ion: 168 Resp: 20805
Ion Ratio Lower Upper
168 100
99 59.6 44.2 66.4

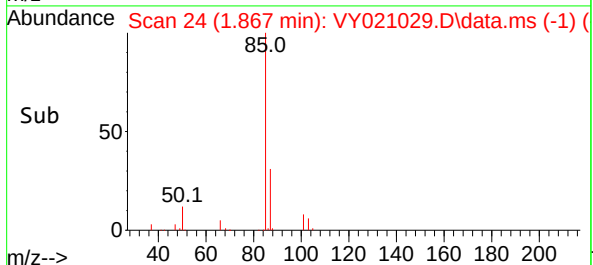
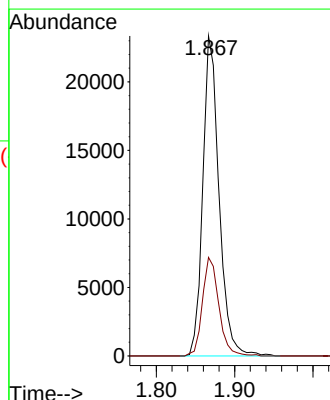
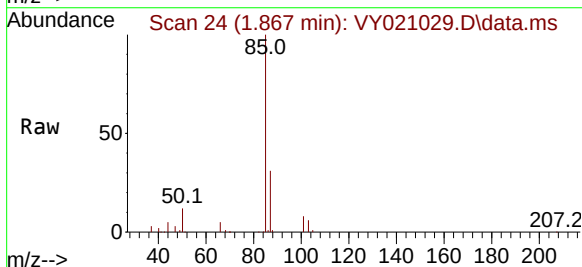
Manual Integrations
APPROVED

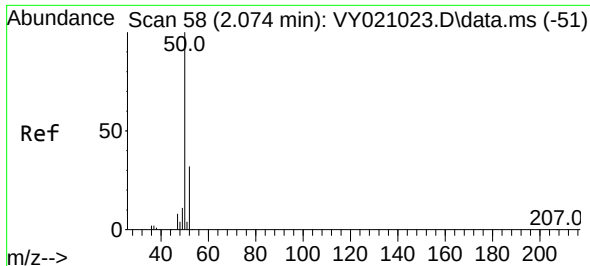
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#2
Dichlorodifluoromethane
Concen: 18.101 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion: 85 Resp: 33566
Ion Ratio Lower Upper
85 100
87 30.8 17.1 51.3





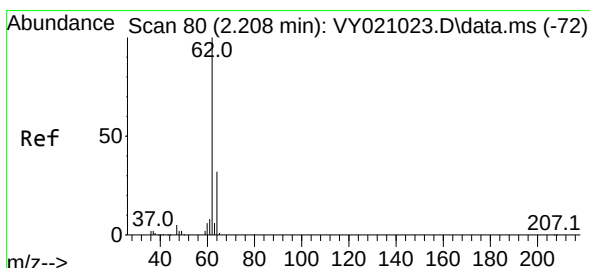
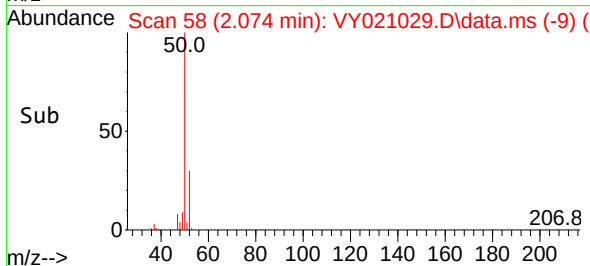
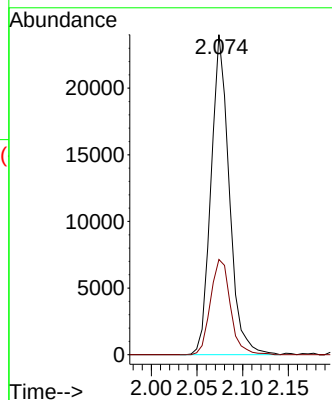
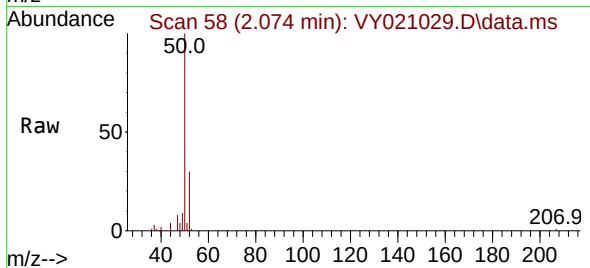
#3
Chloromethane
Concen: 18.150 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Tgt Ion: 50 Resp: 3321
Ion Ratio Lower Upper
50 100
52 29.7 26.7 40.1

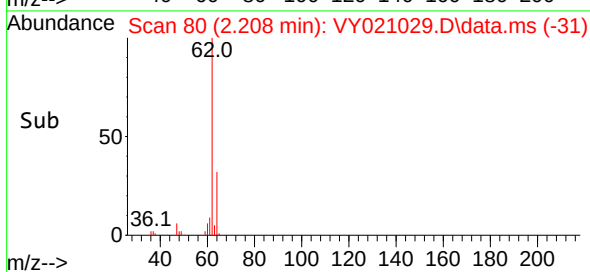
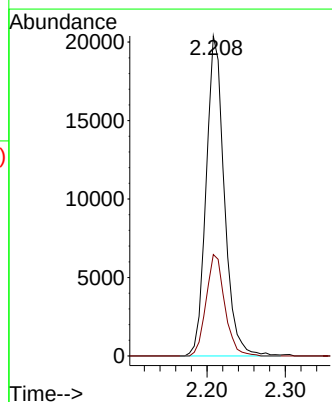
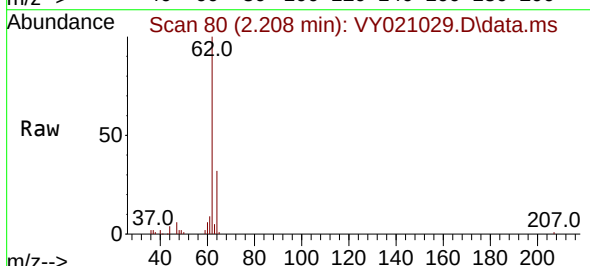
Manual Integrations
APPROVED

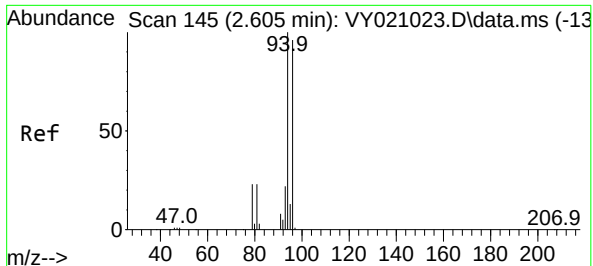
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#4
Vinyl Chloride
Concen: 17.808 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

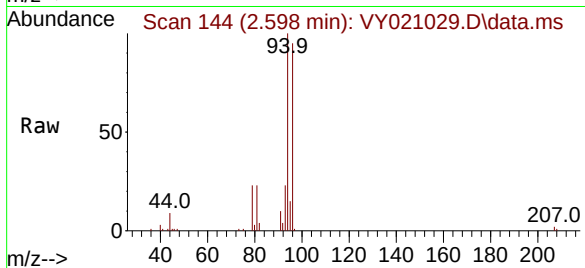
Tgt Ion: 62 Resp: 32799
Ion Ratio Lower Upper
62 100
64 31.7 25.7 38.5





#5
Bromomethane
Concen: 18.272 ug/l
RT: 2.598 min Scan# 145
Delta R.T. -0.006 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

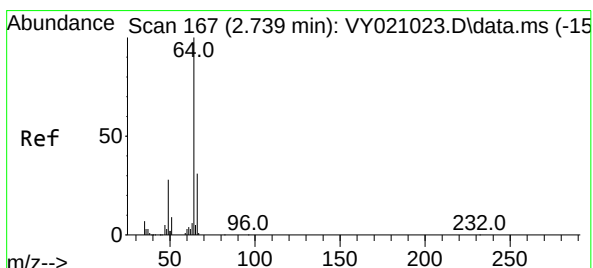
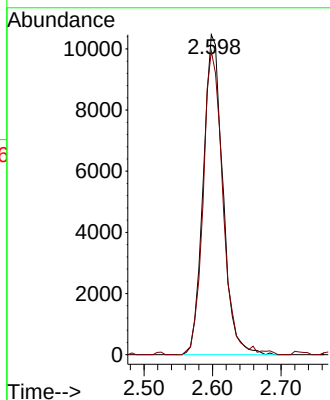
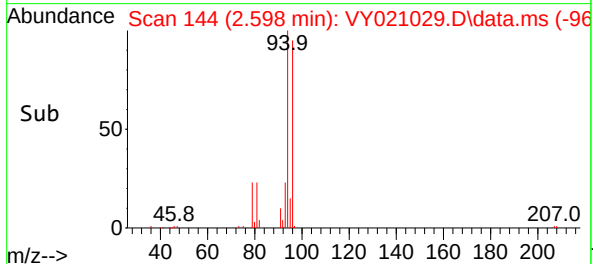
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01



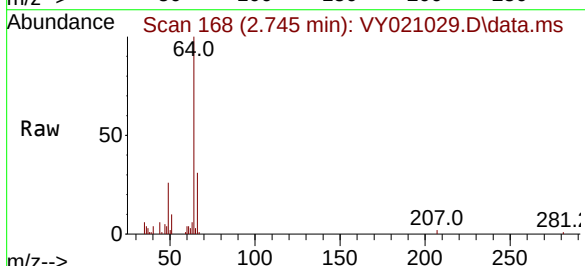
Tgt Ion: 94 Resp: 20799
Ion Ratio Lower Upper
94 100
96 94.8 77.3 115.9

Manual Integrations
APPROVED

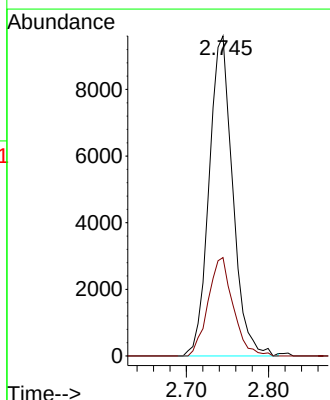
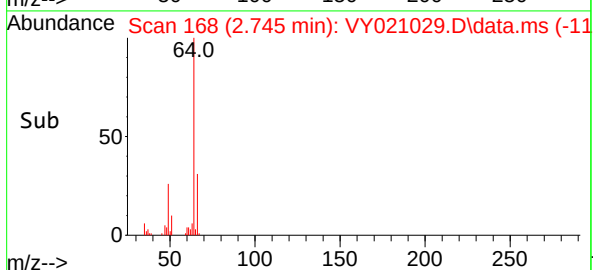
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

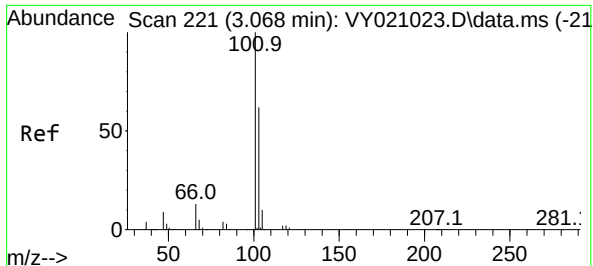


#6
Chloroethane
Concen: 17.510 ug/l
RT: 2.745 min Scan# 168
Delta R.T. 0.006 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55



Tgt Ion: 64 Resp: 19197
Ion Ratio Lower Upper
64 100
66 30.8 25.1 37.7





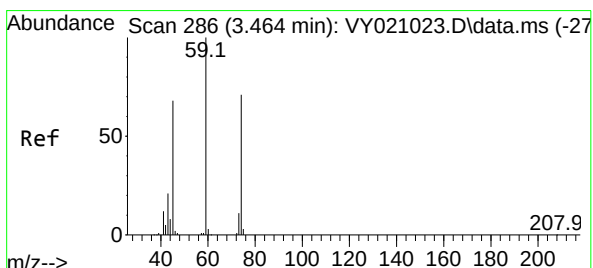
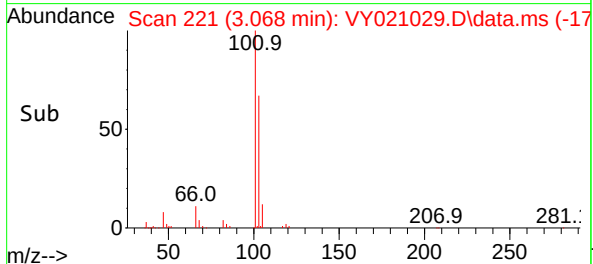
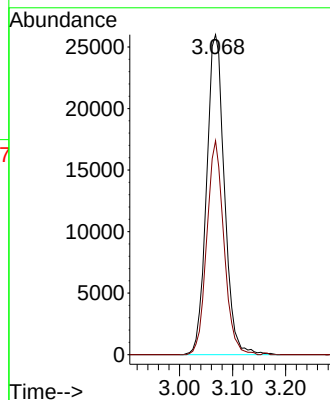
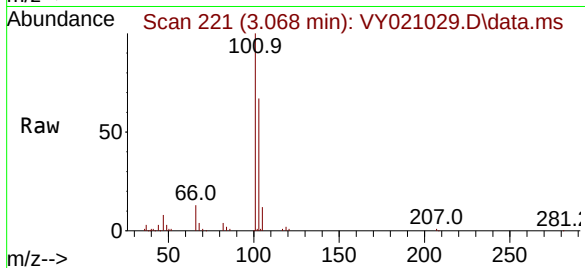
#7
Trichlorofluoromethane
Concen: 18.072 ug/l
RT: 3.068 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Tgt Ion:101 Resp: 6063
Ion Ratio Lower Upper
101 100
103 66.9 51.9 77.9

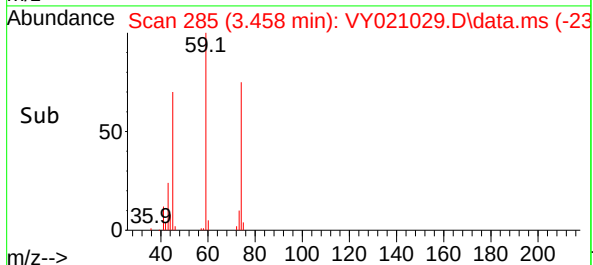
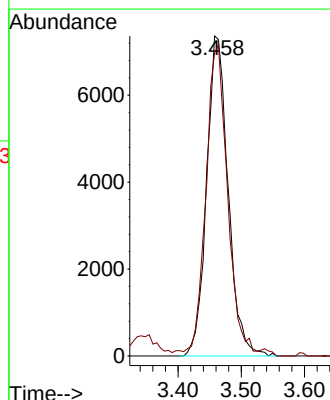
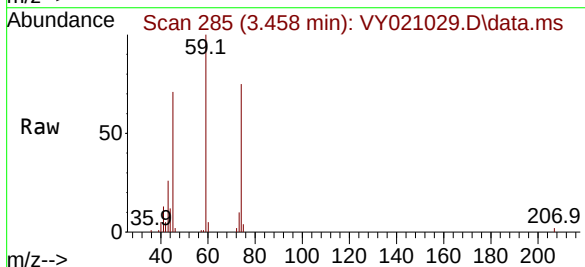
Manual Integrations
APPROVED

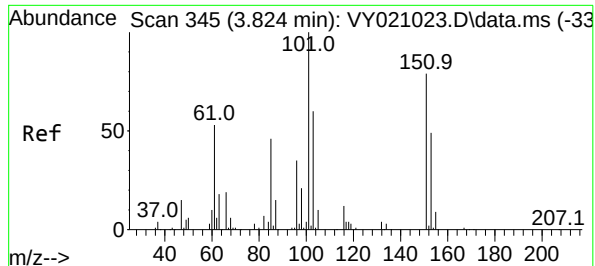
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#8
Diethyl Ether
Concen: 16.645 ug/l
RT: 3.458 min Scan# 285
Delta R.T. -0.006 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion: 74 Resp: 17435
Ion Ratio Lower Upper
74 100
45 94.6 47.9 143.7





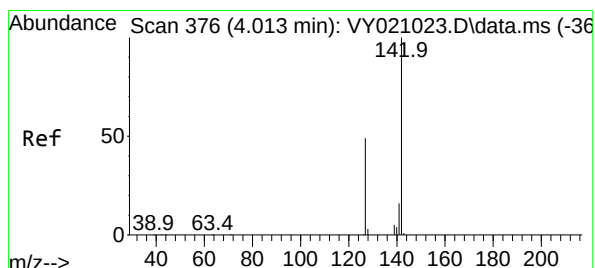
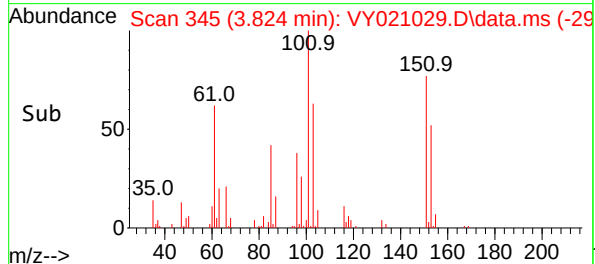
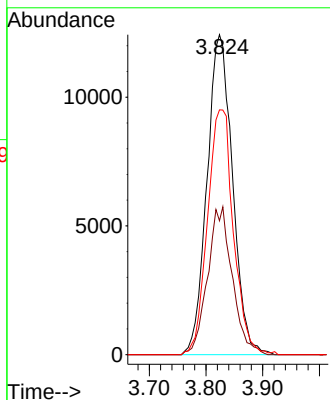
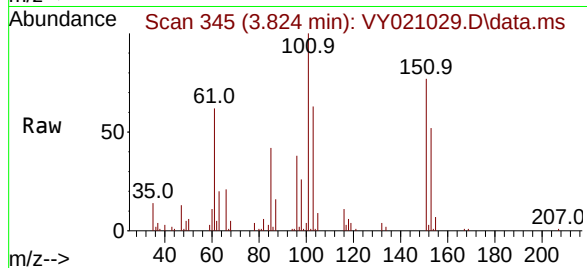
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.464 ug/l
RT: 3.824 min Scan# 345
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Tgt Ion:101 Resp: 3888
Ion Ratio Lower Upper
101 100
85 44.7 35.8 53.6
151 77.8 58.6 88.0

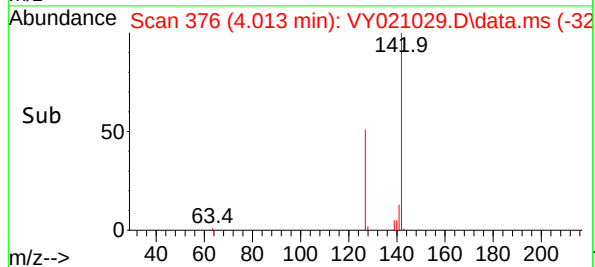
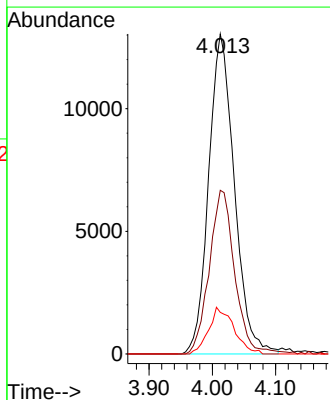
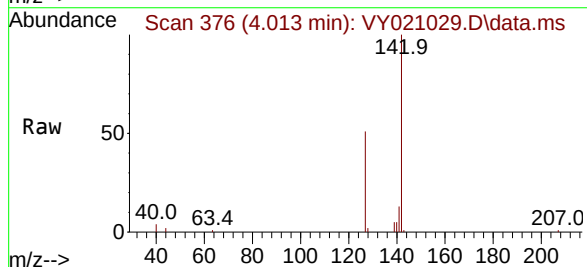
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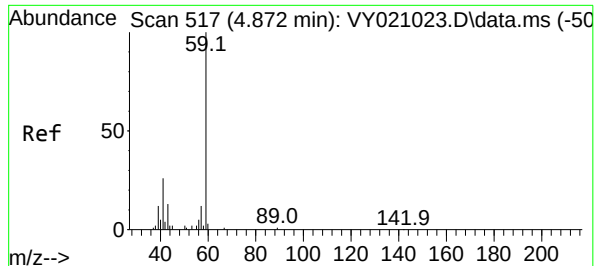
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#10
Methyl Iodide
Concen: 15.735 ug/l
RT: 4.013 min Scan# 376
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion:142 Resp: 36813
Ion Ratio Lower Upper
142 100
127 50.6 35.1 52.7
141 14.3 11.8 17.6





#11

Tert butyl alcohol

Concen: 91.697 ug/l

RT: 4.860 min Scan# 517

Delta R.T. -0.012 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 59 Resp: 13240

Ion Ratio Lower Upper

59 100

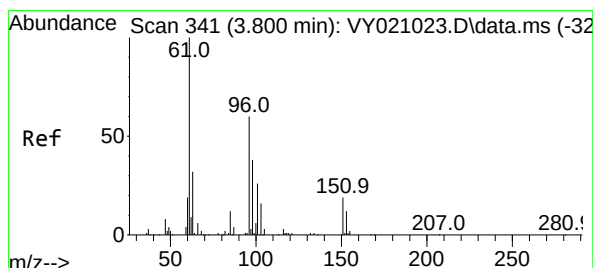
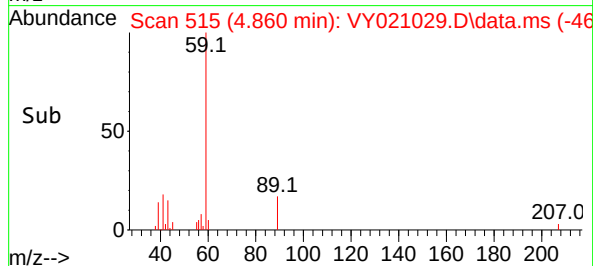
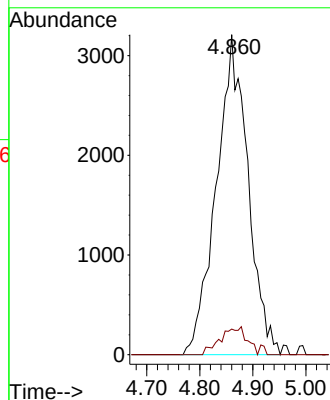
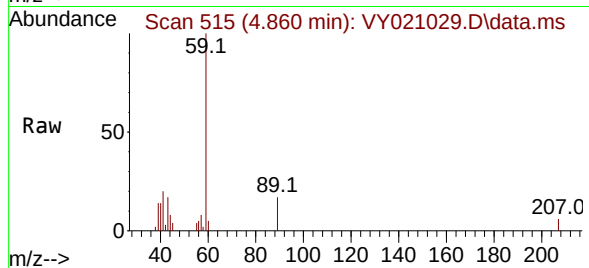
57 7.2 7.4 11.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#12

1,1-Dichloroethene

Concen: 18.030 ug/l

RT: 3.799 min Scan# 341

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

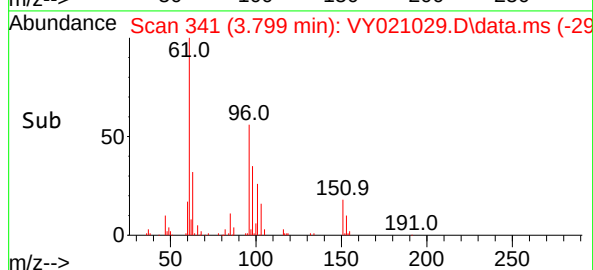
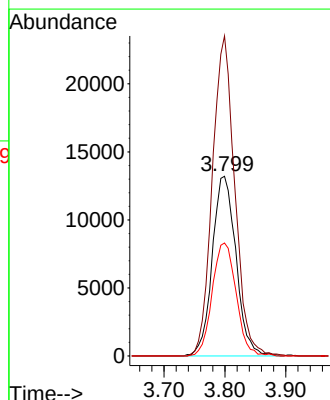
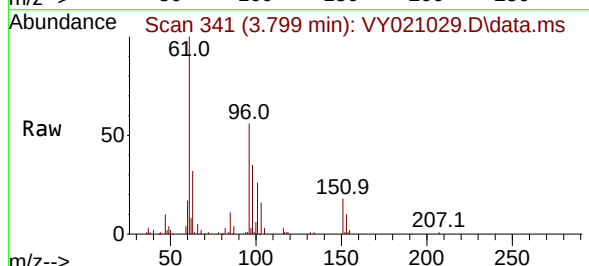
Tgt Ion: 96 Resp: 35767

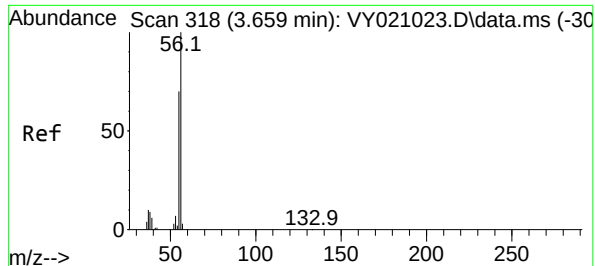
Ion Ratio Lower Upper

96 100

61 178.2 124.2 186.2

98 62.9 52.6 79.0





#13

Acrolein

Concen: 89.223 ug/l

RT: 3.659 min Scan# 318

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 56 Resp: 1984

Ion Ratio Lower Upper

56 100

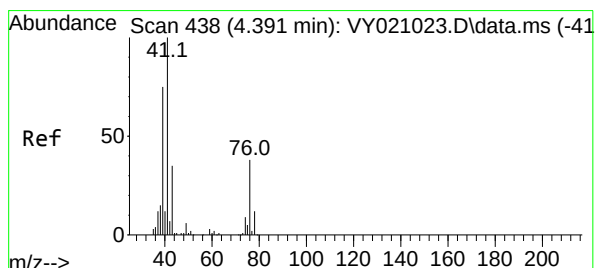
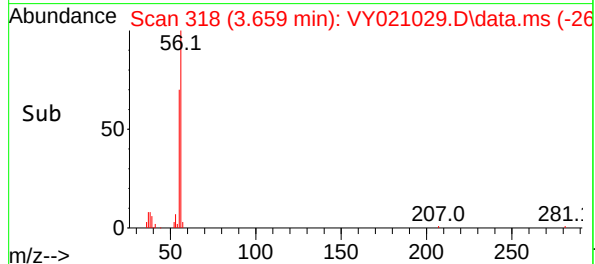
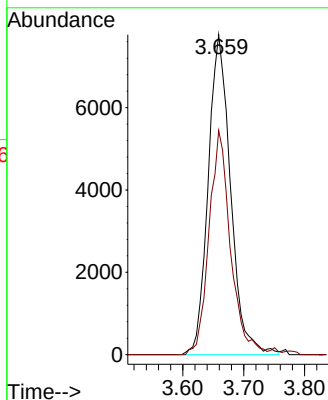
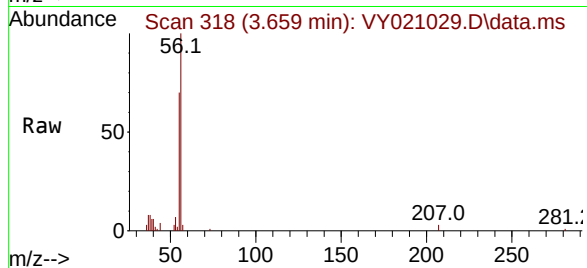
55 66.9 55.4 83.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#14

Allyl chloride

Concen: 17.744 ug/l

RT: 4.391 min Scan# 438

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

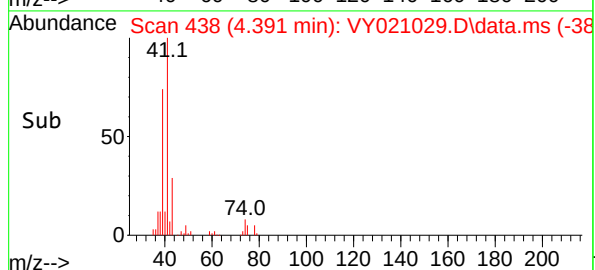
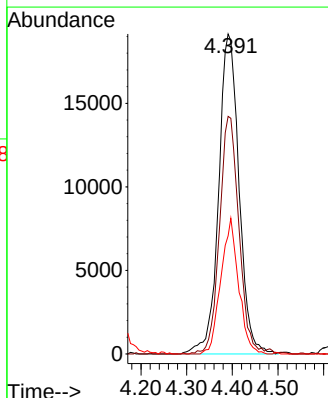
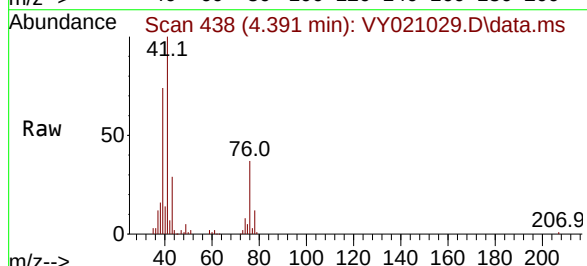
Tgt Ion: 41 Resp: 59324

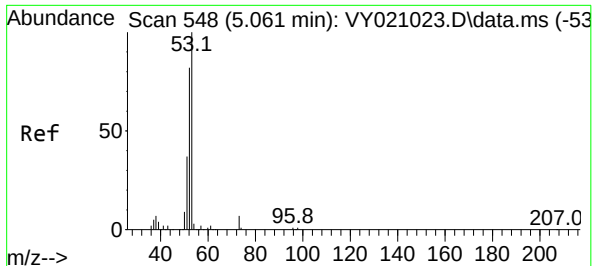
Ion Ratio Lower Upper

41 100

39 70.4 54.7 82.1

76 37.0 31.8 47.6





#15

Acrylonitrile

Concen: 81.924 ug/l

RT: 5.073 min Scan# 51

Delta R.T. 0.012 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

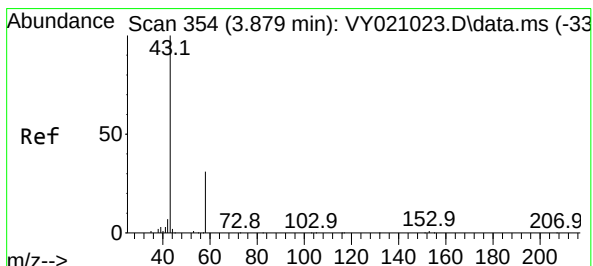
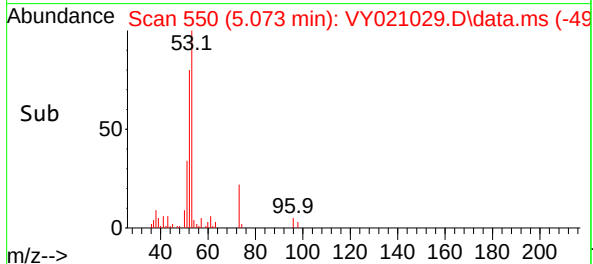
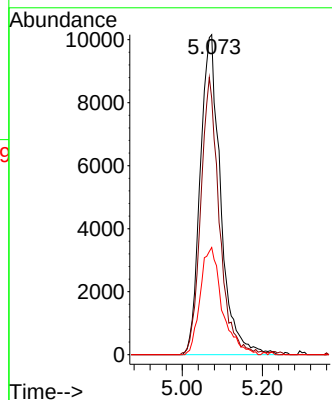
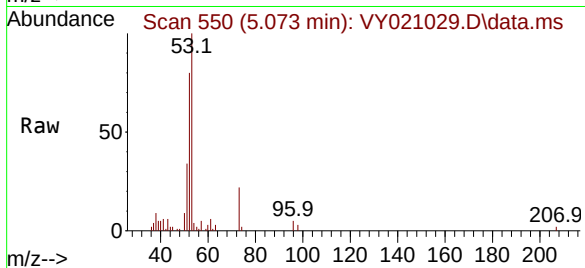
ClientSampleId :

VY0203SBS01

Tgt Ion:	53	Resp:	35734
Ion	Ratio	Lower	Upper
53	100		
52	79.3	65.1	97.7
51	36.1	29.0	43.4

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Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#16

Acetone

Concen: 83.693 ug/l

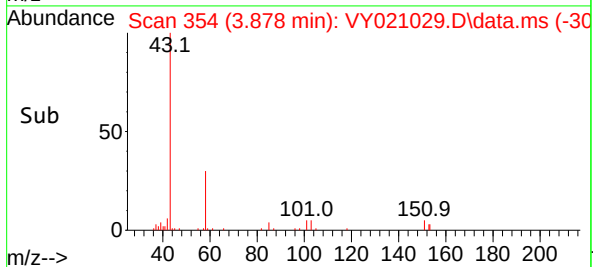
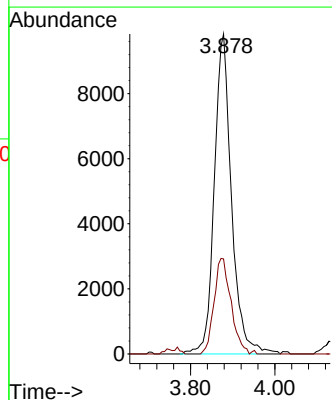
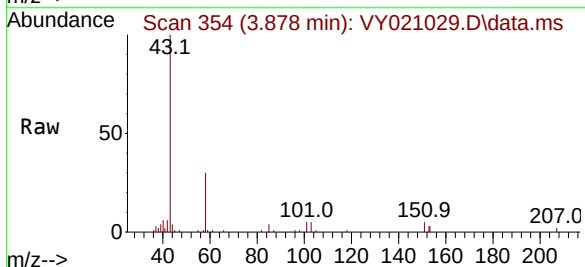
RT: 3.878 min Scan# 354

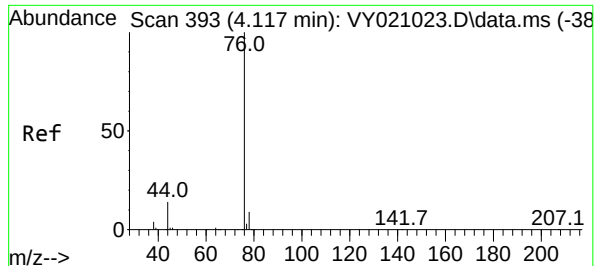
Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion:	43	Resp:	27822
Ion	Ratio	Lower	Upper
43	100		
58	29.7	26.6	39.8





#17

Carbon Disulfide

Concen: 17.697 ug/l

RT: 4.116 min Scan# 393

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 76 Resp: 11008

Ion Ratio Lower Upper

76 100

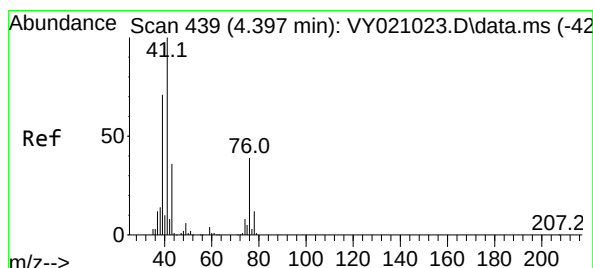
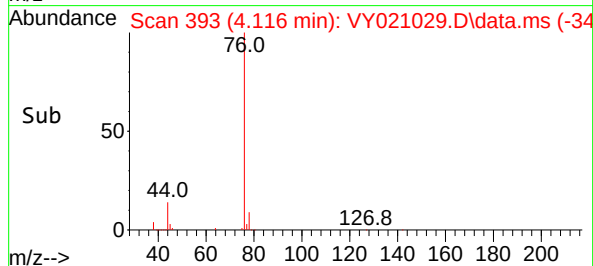
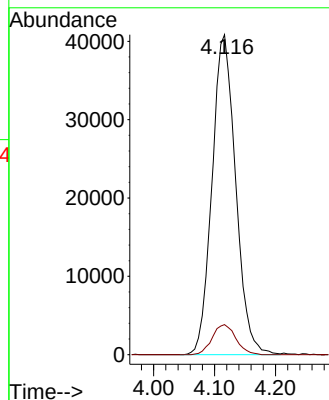
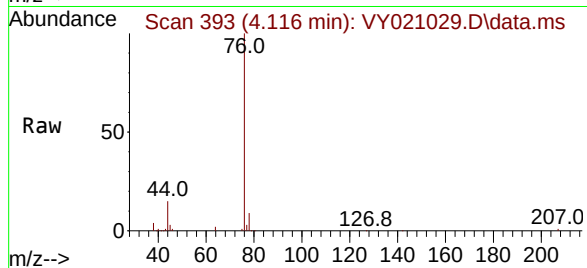
78 9.4 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#18

Methyl Acetate

Concen: 15.377 ug/l

RT: 4.384 min Scan# 437

Delta R.T. -0.013 min

Lab File: VY021029.D

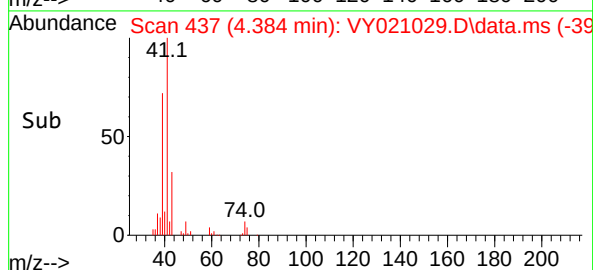
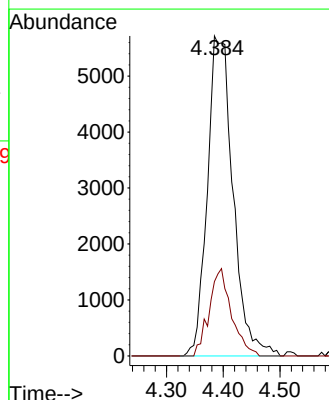
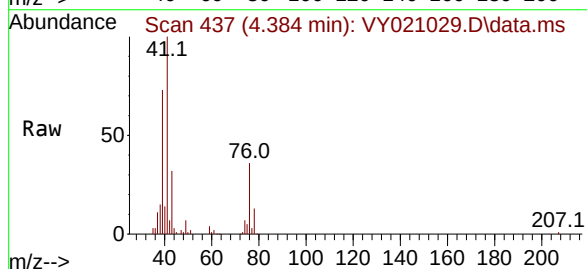
Acq: 03 Feb 2025 14:55

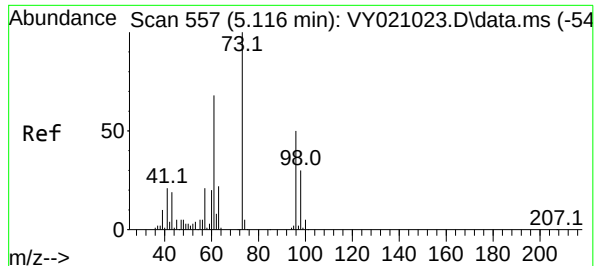
Tgt Ion: 43 Resp: 17945

Ion Ratio Lower Upper

43 100

74 23.7 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 16.144 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 73 Resp: 8094

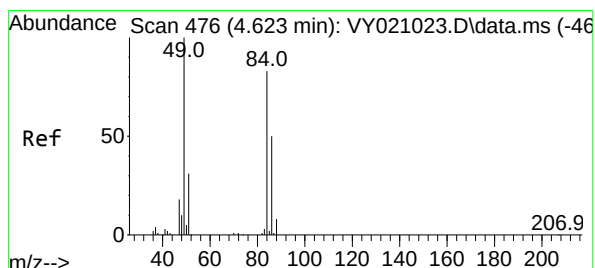
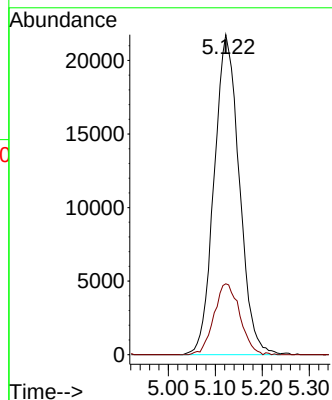
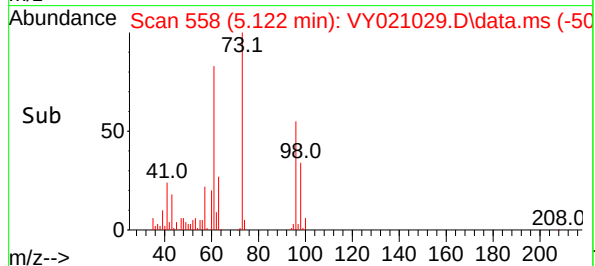
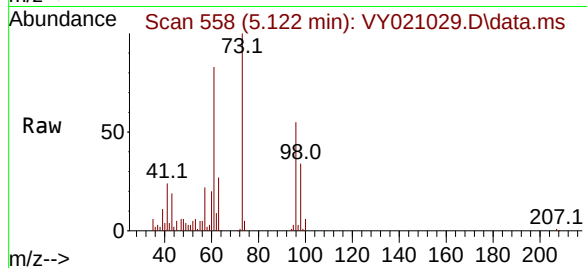
Ion Ratio Lower Upper

73 100

57 22.2 17.7 26.5

Manual Integrations

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Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#20

Methylene Chloride

Concen: 17.116 ug/l

RT: 4.628 min Scan# 477

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion: 84 Resp: 35372

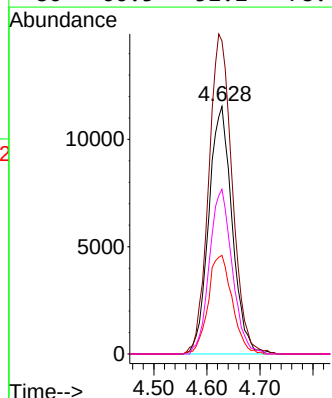
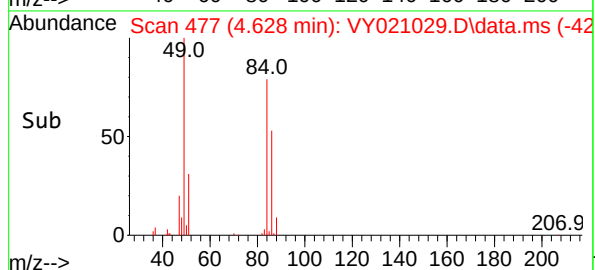
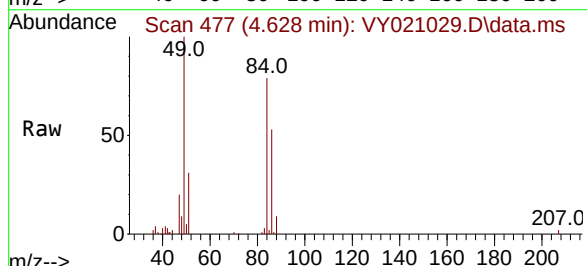
Ion Ratio Lower Upper

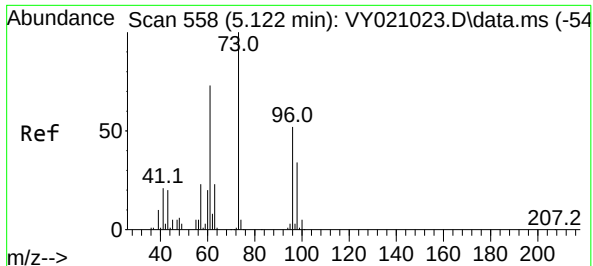
84 100

49 126.4 95.2 142.8

51 39.8 29.9 44.9

86 66.5 52.2 78.4





#21

trans-1,2-Dichloroethene

Concen: 17.907 ug/l

RT: 5.128 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 96 Resp: 3910

Ion Ratio Lower Upper

96 100

61 134.4 104.6 156.8

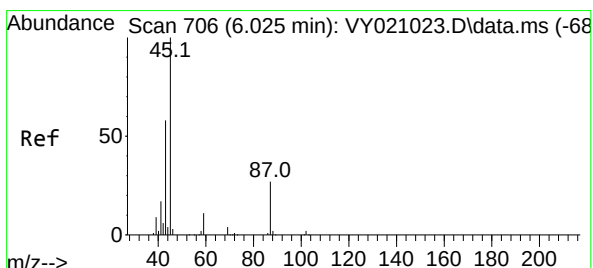
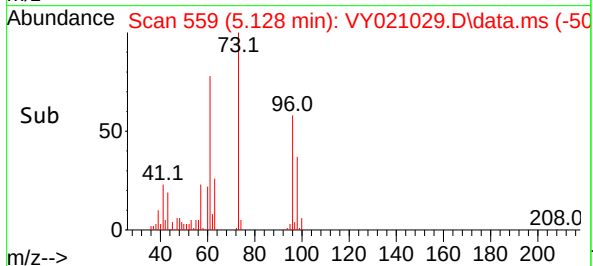
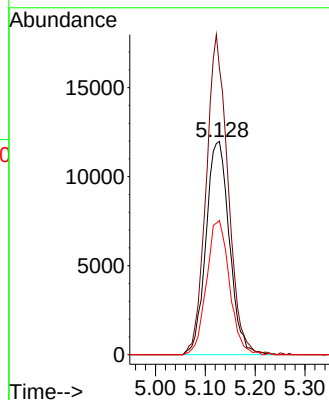
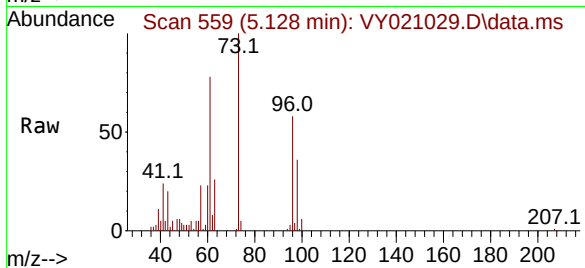
98 62.9 50.9 76.3

Manual Integrations

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Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#22

Diisopropyl ether

Concen: 17.487 ug/l

RT: 6.024 min Scan# 706

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion: 45 Resp: 120509

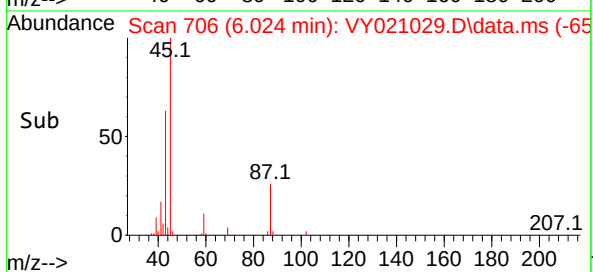
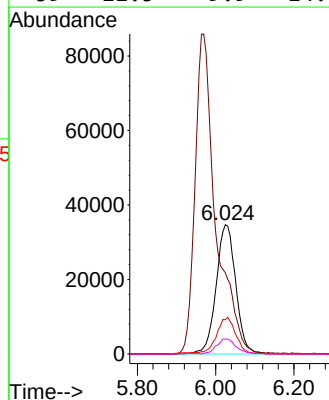
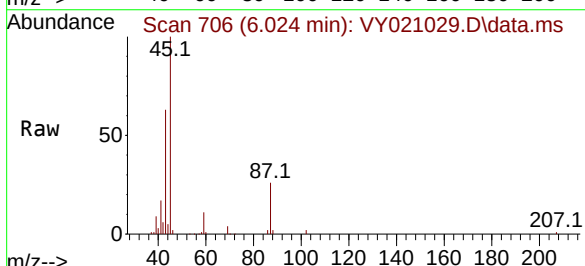
Ion Ratio Lower Upper

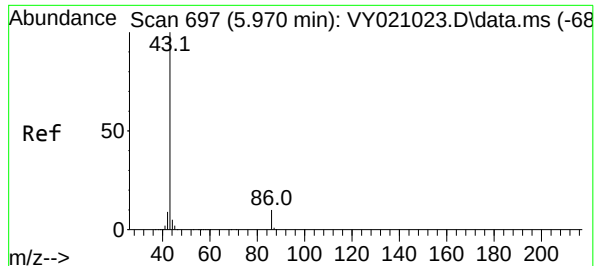
45 100

43 62.3 46.8 70.2

87 26.5 22.2 33.2

59 11.5 9.9 14.9





#23

Vinyl Acetate

Concen: 82.189 ug/l

RT: 5.970 min Scan# 64

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 43 Resp: 31573

Ion Ratio Lower Upper

43 100

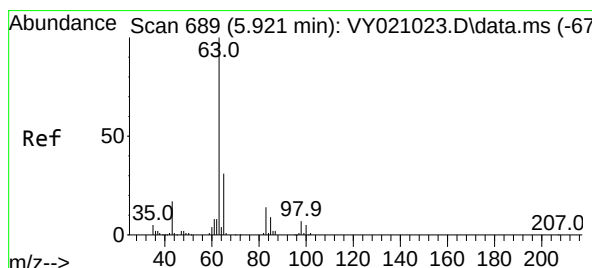
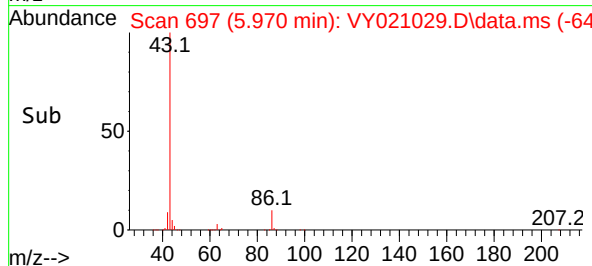
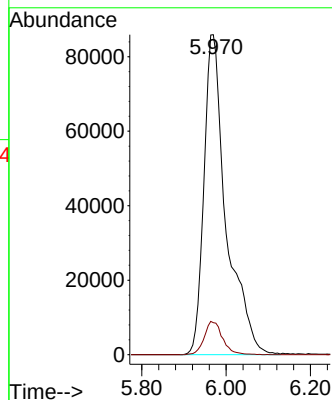
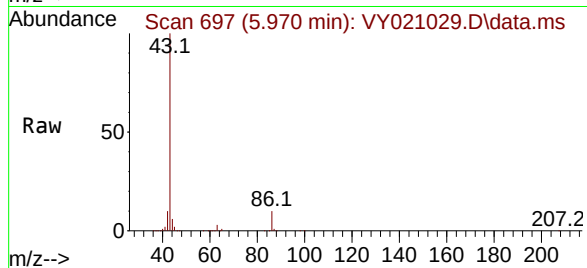
86 10.0 8.6 13.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#24

1,1-Dichloroethane

Concen: 17.573 ug/l

RT: 5.927 min Scan# 690

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

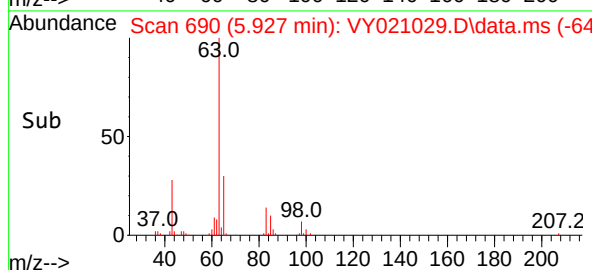
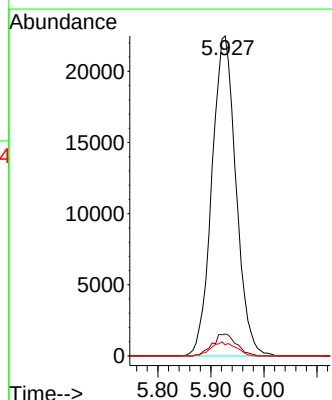
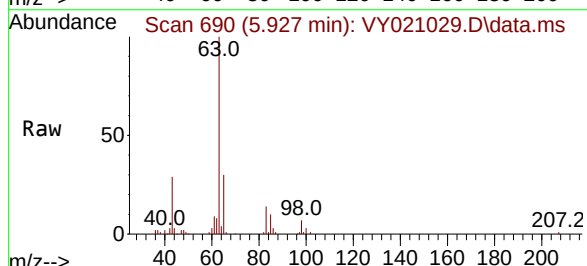
Tgt Ion: 63 Resp: 70952

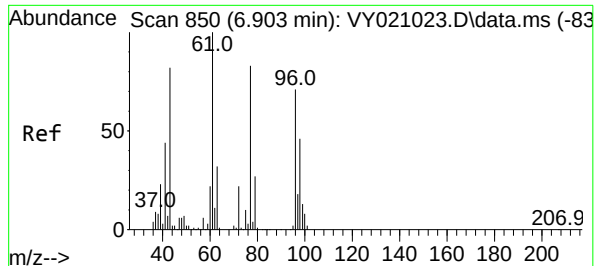
Ion Ratio Lower Upper

63 100

98 6.9 3.8 11.4

100 3.5 2.1 6.2





#25

2-Butanone

Concen: 78.633 ug/l

RT: 6.896 min Scan# 849

Delta R.T. -0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 43 Resp: 4295

Ion Ratio Lower Upper

43 100

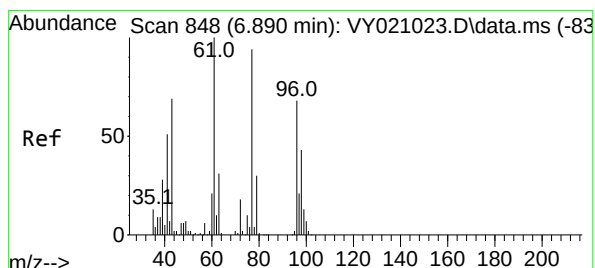
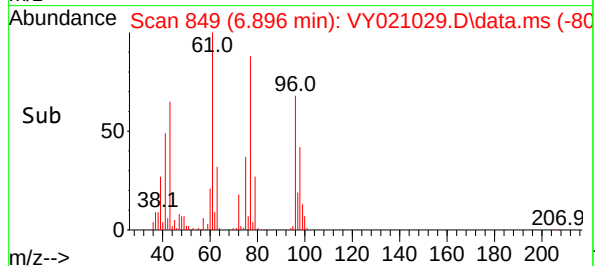
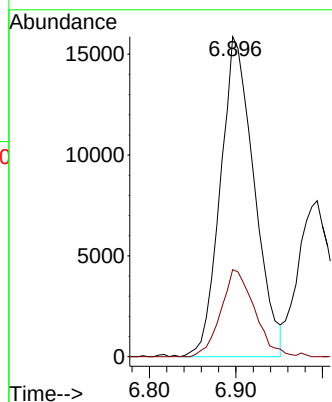
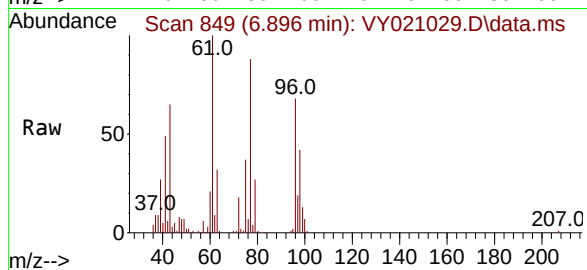
72 27.2 21.4 32.2

Manual Integrations

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Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#26

2,2-Dichloropropane

Concen: 17.991 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.006 min

Lab File: VY021029.D

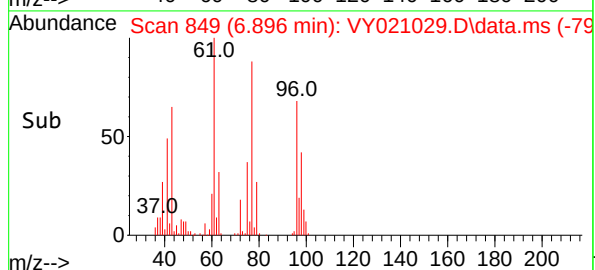
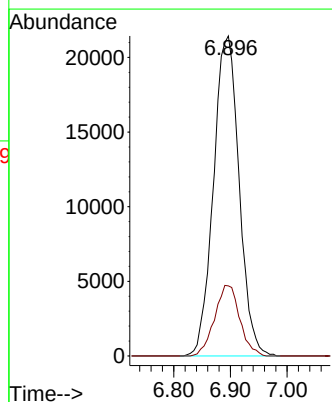
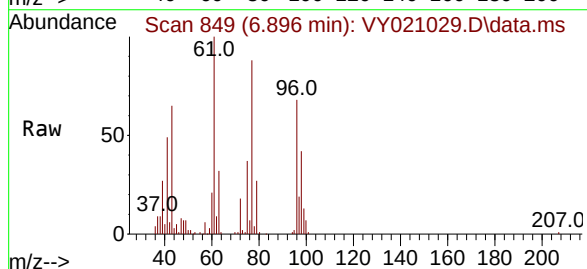
Acq: 03 Feb 2025 14:55

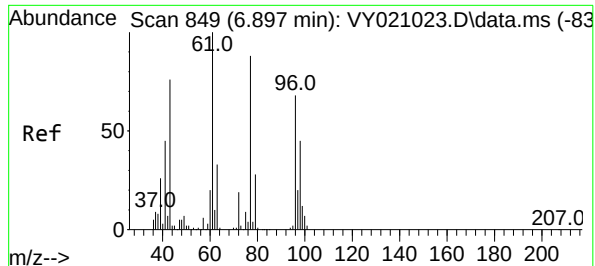
Tgt Ion: 77 Resp: 67210

Ion Ratio Lower Upper

77 100

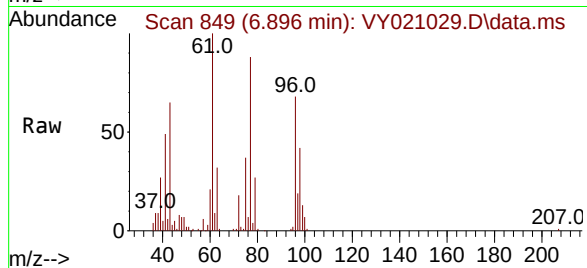
97 21.6 11.7 35.0





#27
cis-1,2-Dichloroethene
Concen: 17.401 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

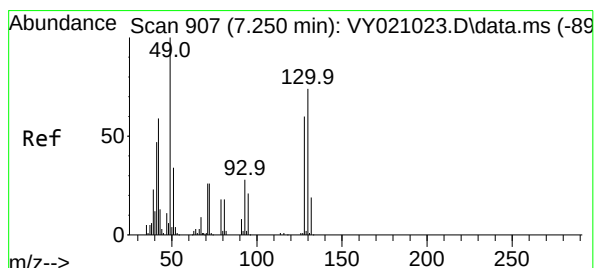
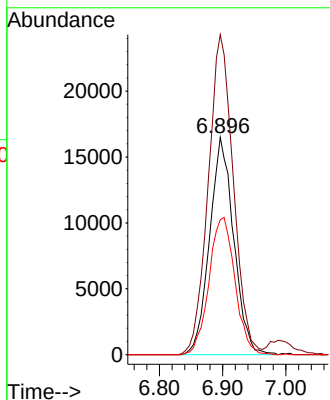
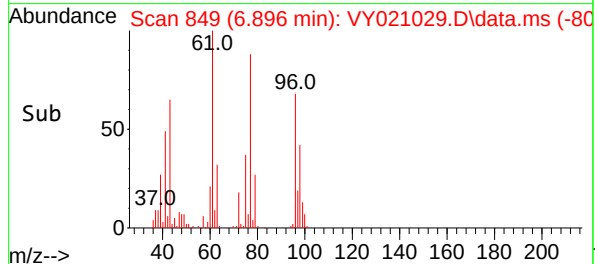
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01



Tgt Ion: 96 Resp: 43730
Ion Ratio Lower Upper
96 100
61 153.1 0.0 278.8
98 67.7 0.0 127.0

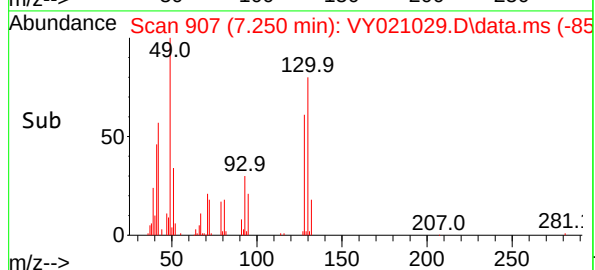
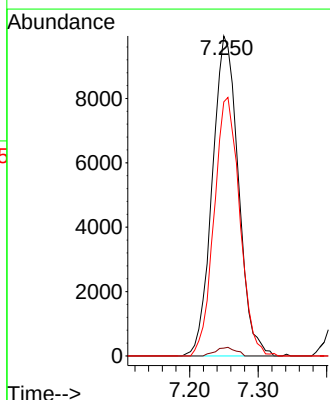
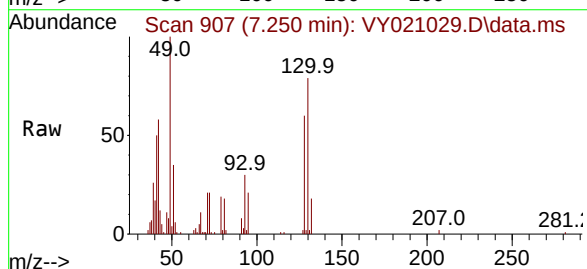
Manual Integrations
APPROVED

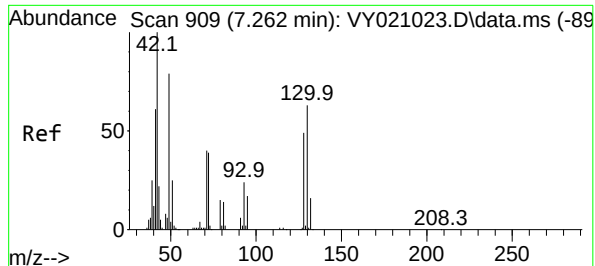
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#28
Bromochloromethane
Concen: 16.443 ug/l
RT: 7.250 min Scan# 907
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion: 49 Resp: 26252
Ion Ratio Lower Upper
49 100
129 2.1 0.0 3.8
130 79.3 59.8 89.8





#29

Tetrahydrofuran

Concen: 80.310 ug/l

RT: 7.268 min Scan# 910

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

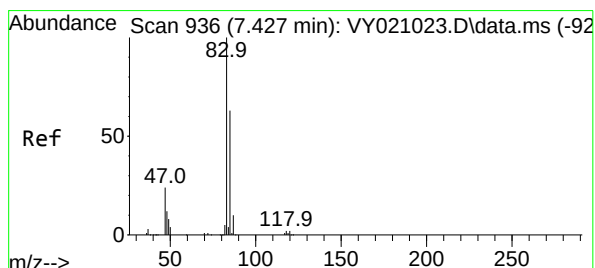
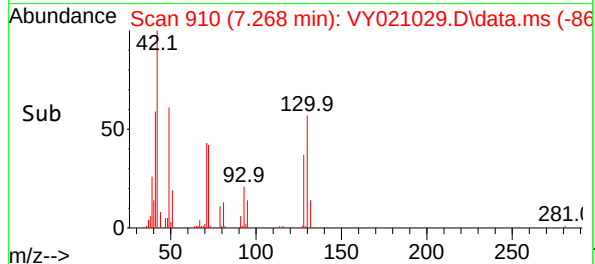
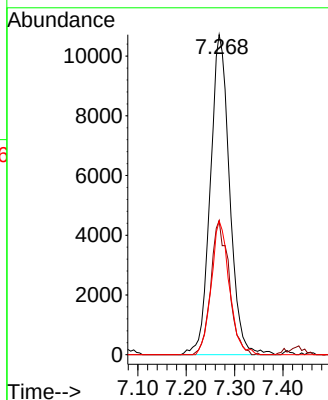
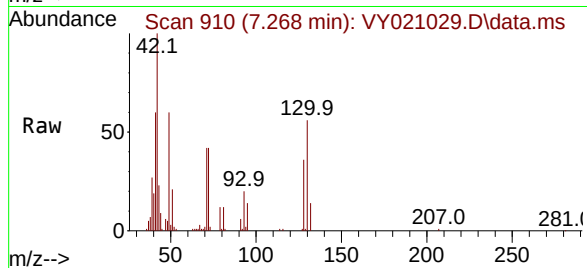
VY0203SBS01

Tgt Ion:	42	Resp:	2968
Ion Ratio	Lower	Upper	
42	100		
72	39.6	36.6	54.8
71	39.0	33.8	50.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#30

Chloroform

Concen: 17.530 ug/l

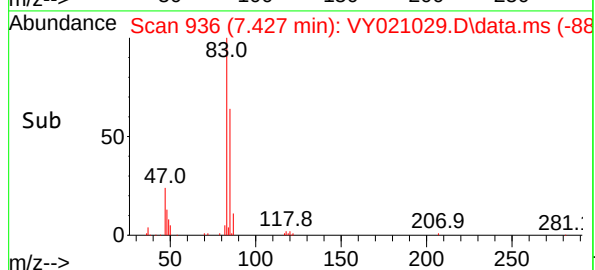
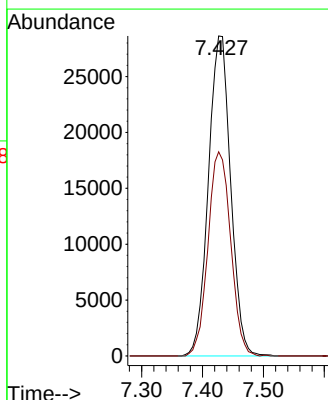
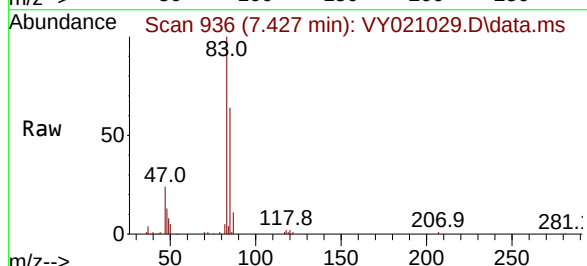
RT: 7.427 min Scan# 936

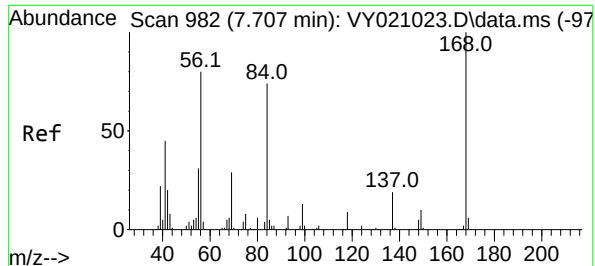
Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion:	83	Resp:	72698
Ion Ratio	Lower	Upper	
83	100		
85	63.8	51.2	76.8





#31

Cyclohexane

Concen: 17.801 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 56 Resp: 6472

Ion Ratio Lower Upper

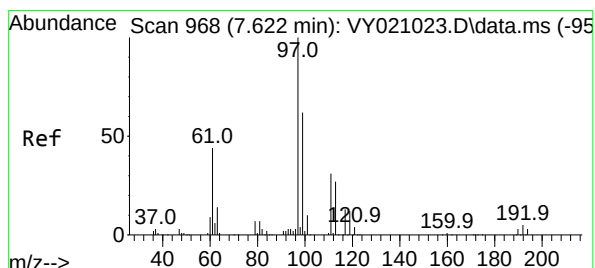
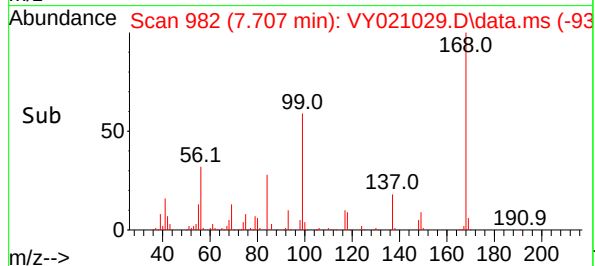
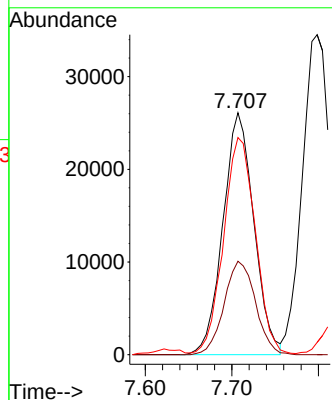
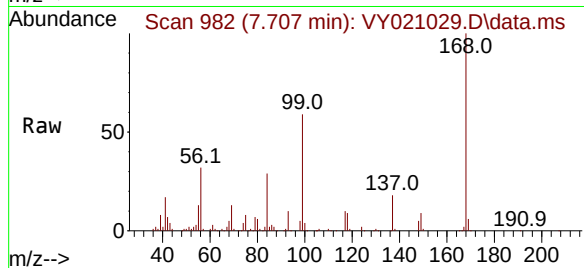
56 100

69 38.7 27.0 40.6

84 87.9 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#32

1,1,1-Trichloroethane

Concen: 18.056 ug/l

RT: 7.622 min Scan# 968

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

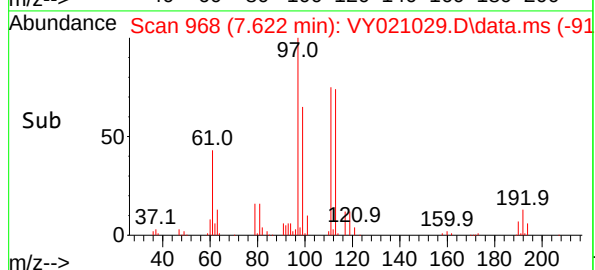
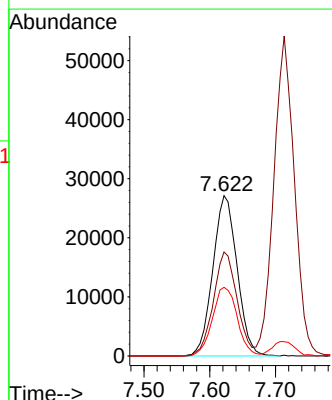
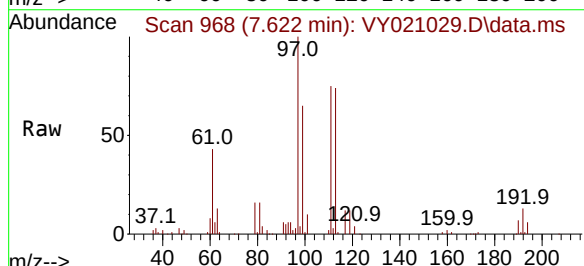
Tgt Ion: 97 Resp: 69619

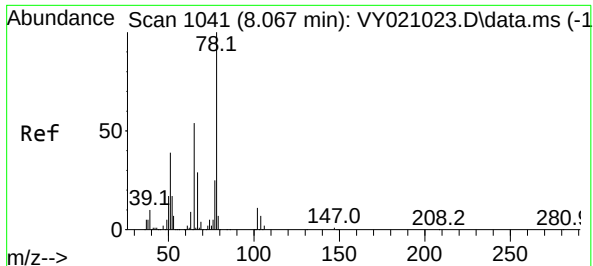
Ion Ratio Lower Upper

97 100

99 63.0 51.2 76.8

61 43.8 35.0 52.6





#33

1,2-Dichloroethane-d4

Concen: 45.936 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 65 Resp: 9792

Ion Ratio Lower Upper

65 100

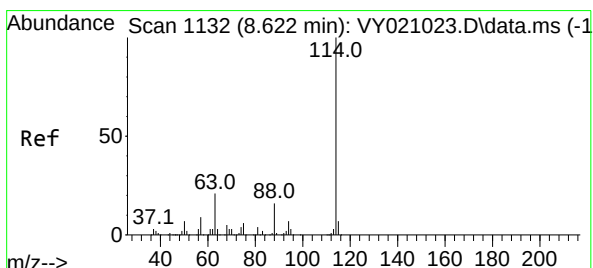
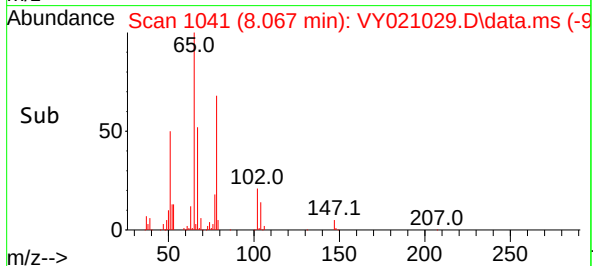
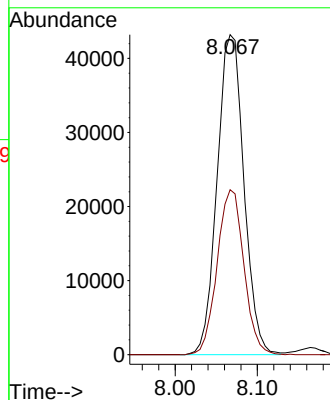
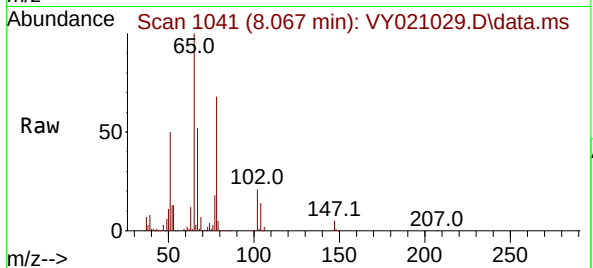
67 51.4 0.0 109.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

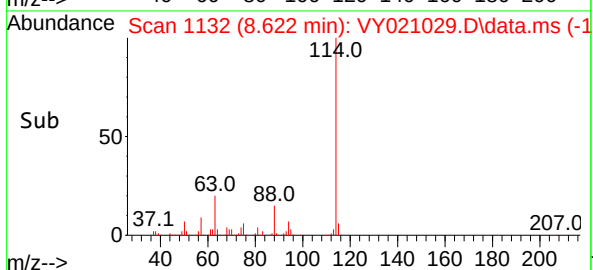
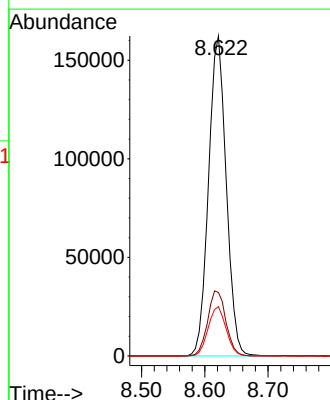
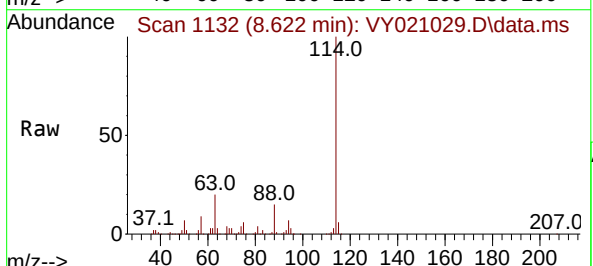
Tgt Ion:114 Resp: 315310

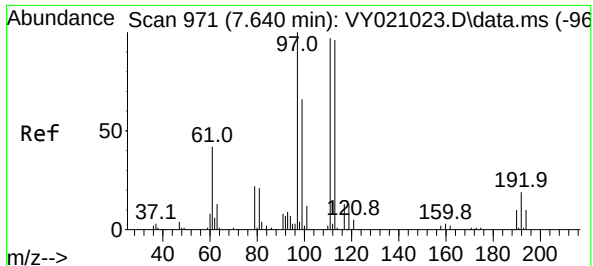
Ion Ratio Lower Upper

114 100

63 19.9 0.0 37.4

88 15.4 0.0 29.0





#35

Dibromofluoromethane

Concen: 48.807 ug/l

RT: 7.640 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:113 Resp: 98620

Ion Ratio Lower Upper

113 100

111 103.0 83.8 125.6

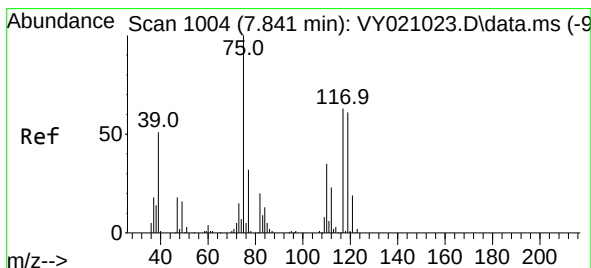
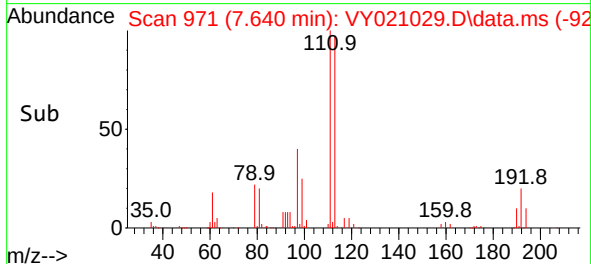
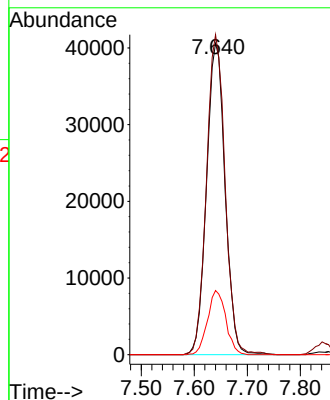
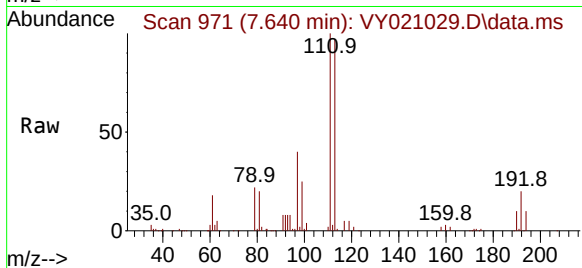
192 20.4 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#36

1,1-Dichloropropene

Concen: 18.523 ug/l

RT: 7.847 min Scan# 1005

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

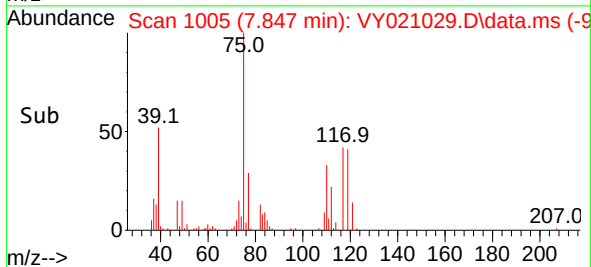
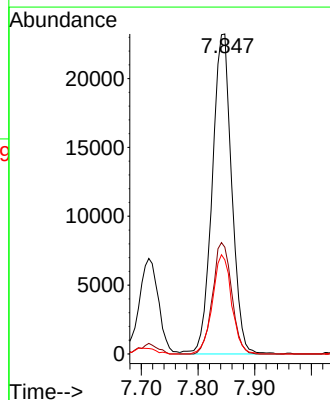
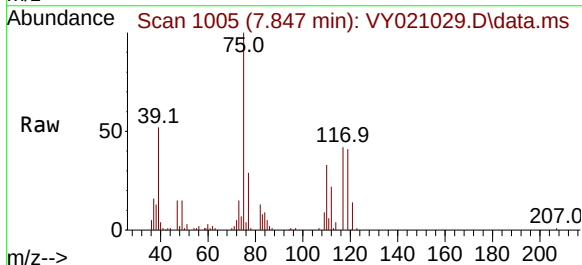
Tgt Ion: 75 Resp: 55441

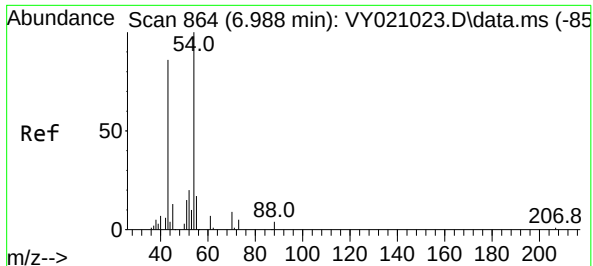
Ion Ratio Lower Upper

75 100

110 34.0 17.4 52.3

77 30.6 24.7 37.1





#37

Ethyl Acetate

Concen: 16.562 ug/l

RT: 6.994 min Scan# 864

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 43 Resp: 21740

Ion Ratio Lower Upper

43 100

61 13.9 11.0 16.6

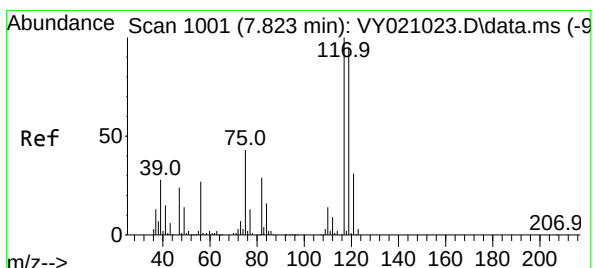
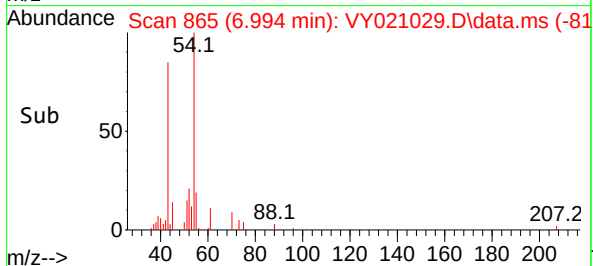
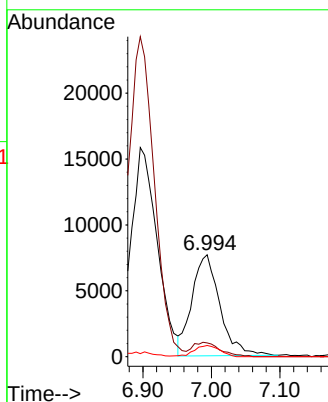
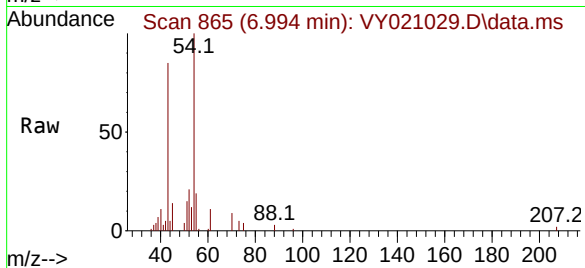
70 10.3 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#38

Carbon Tetrachloride

Concen: 18.017 ug/l

RT: 7.823 min Scan# 1001

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

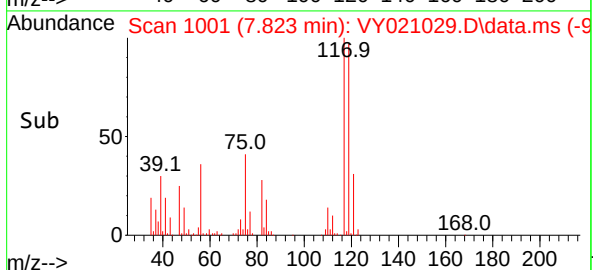
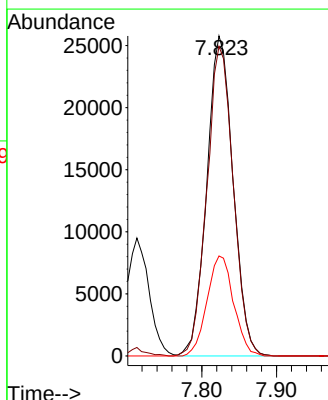
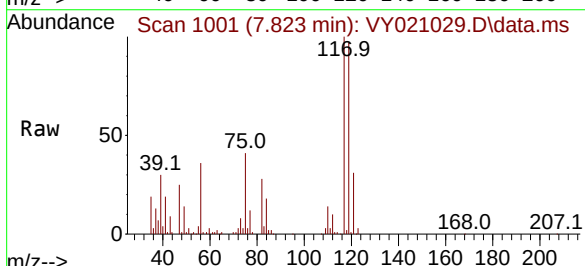
Tgt Ion:117 Resp: 63009

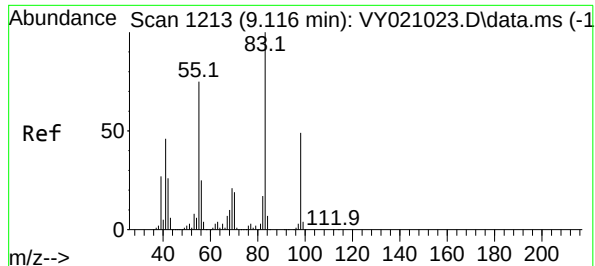
Ion Ratio Lower Upper

117 100

119 96.8 76.0 114.0

121 31.2 24.2 36.2





#39

Methylcyclohexane

Concen: 18.549 ug/l

RT: 9.115 min Scan# 1213

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 83 Resp: 67910

Ion Ratio Lower Upper

83 100

55 75.1 59.7 89.5

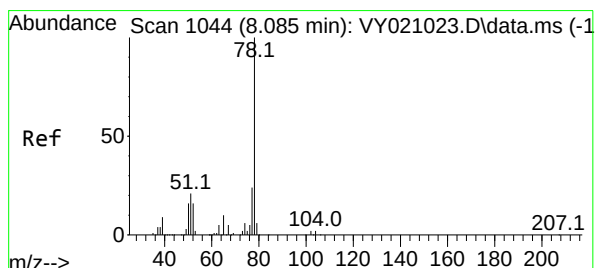
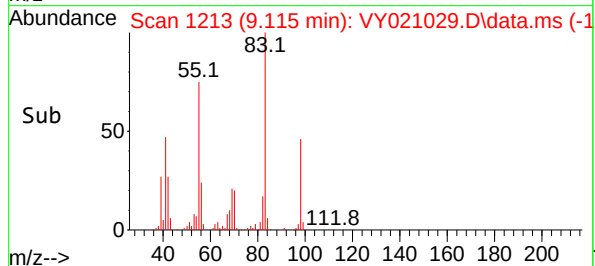
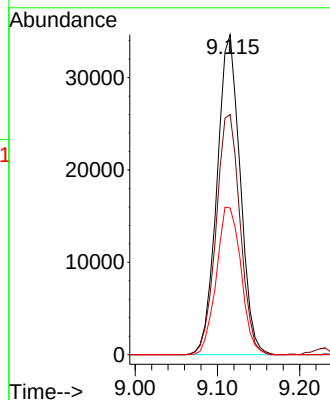
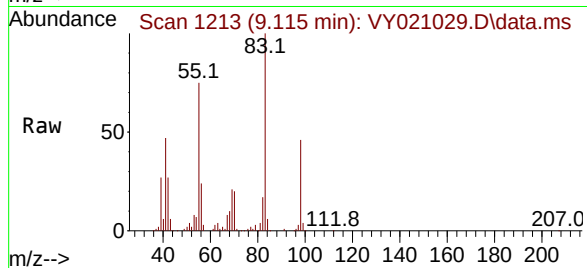
98 45.9 38.0 57.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#40

Benzene

Concen: 18.080 ug/l

RT: 8.085 min Scan# 1044

Delta R.T. -0.000 min

Lab File: VY021029.D

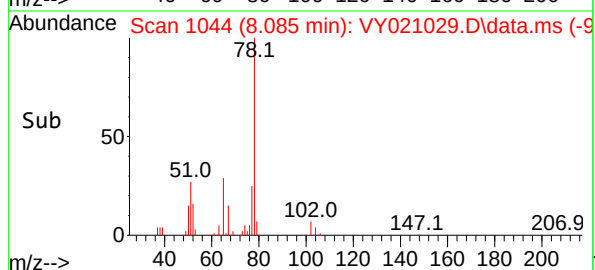
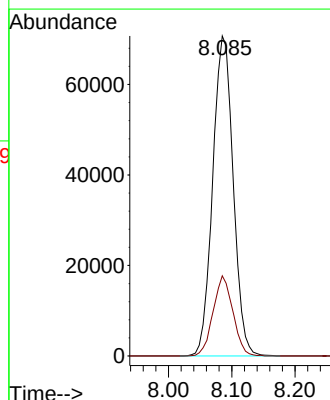
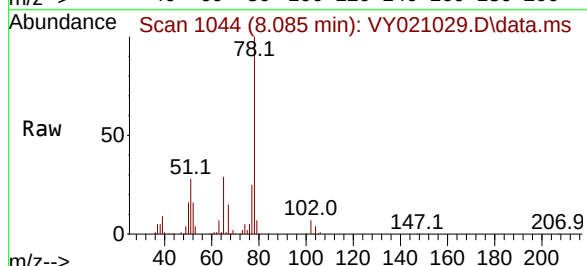
Acq: 03 Feb 2025 14:55

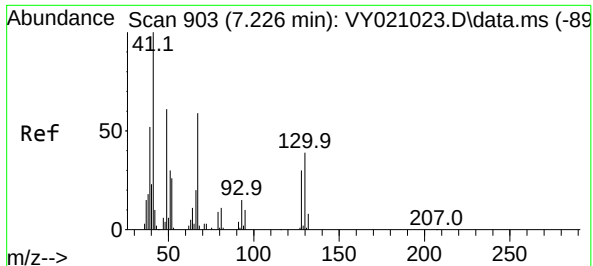
Tgt Ion: 78 Resp: 158805

Ion Ratio Lower Upper

78 100

77 25.0 18.8 28.2





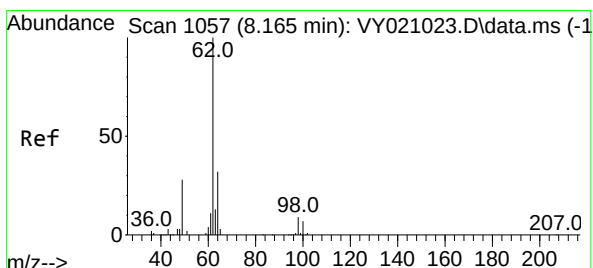
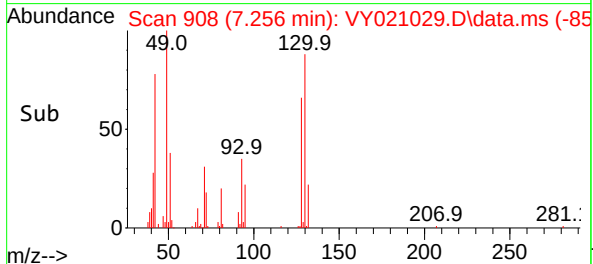
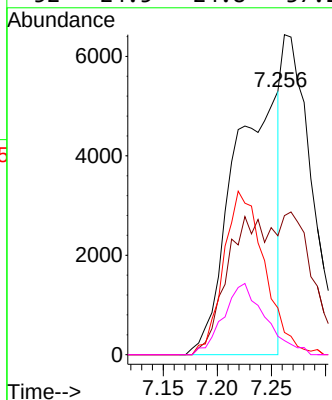
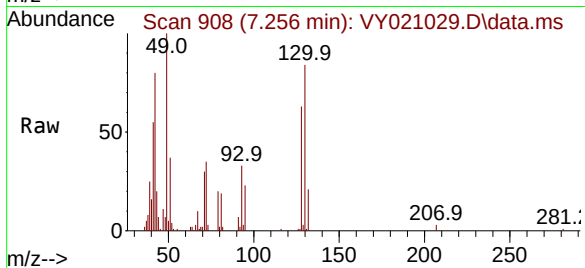
#41
Methacrylonitrile
Concen: 20.819 ug/l m
RT: 7.256 min Scan# 903
Delta R.T. 0.030 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Tgt Ion: 41 Resp: 1581
Ion Ratio Lower Upper
41 100
39 42.1 41.9 62.9
67 55.2 59.8 89.6
52 24.5 24.8 37.2#

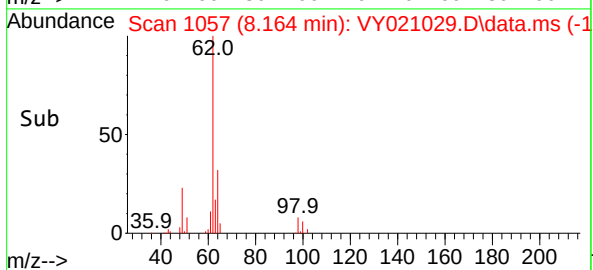
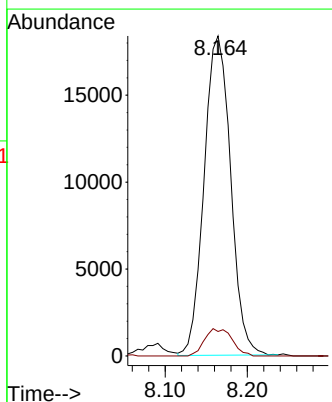
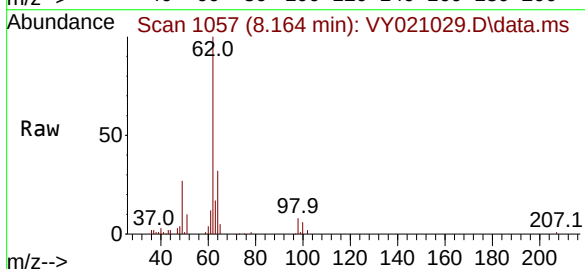
Manual Integrations
APPROVED

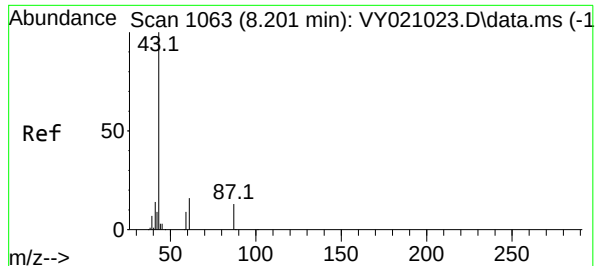
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#42
1,2-Dichloroethane
Concen: 16.921 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion: 62 Resp: 41230
Ion Ratio Lower Upper
62 100
98 8.9 0.0 20.2





#43

Isopropyl Acetate

Concen: 16.150 ug/l

RT: 8.201 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

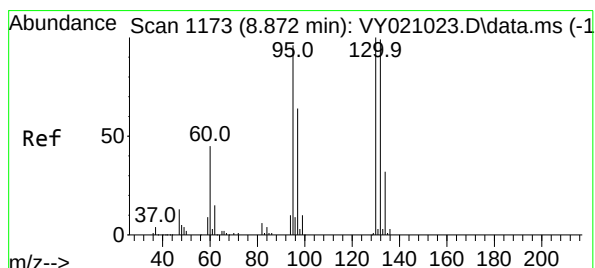
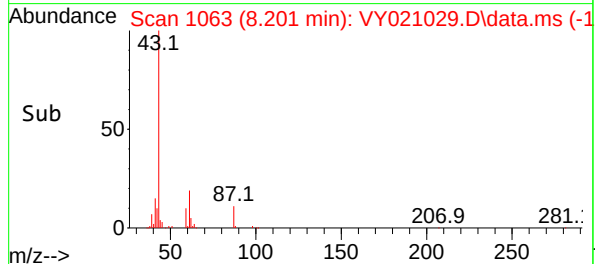
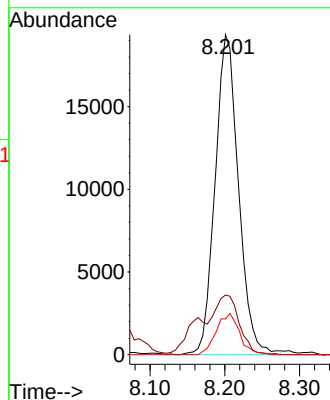
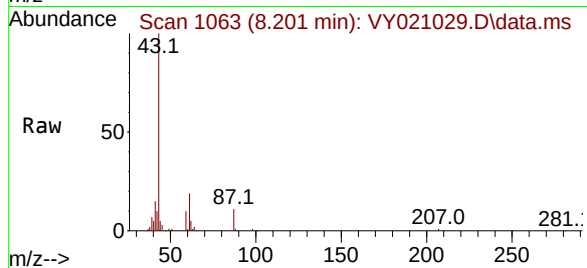
Tgt Ion:	43	Resp:	4213
Ion Ratio	Lower	Upper	
43	100		
61	20.1	24.8	37.2
87	12.8	10.7	16.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#44

Trichloroethene

Concen: 18.102 ug/l

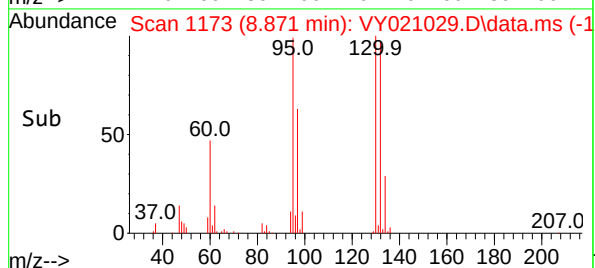
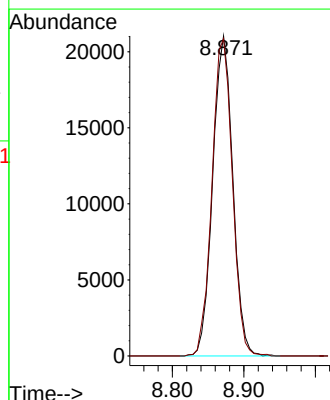
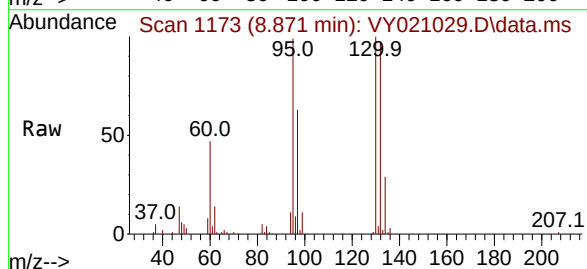
RT: 8.871 min Scan# 1173

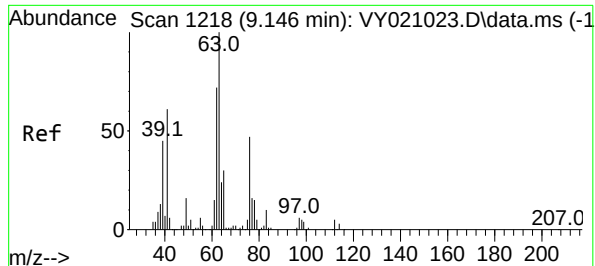
Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion:	130	Resp:	41078
Ion Ratio	Lower	Upper	
130	100		
95	99.2	0.0	203.8





#45

1,2-Dichloropropane

Concen: 17.606 ug/l

RT: 9.146 min Scan# 1218

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 63 Resp: 36704

Ion Ratio Lower Upper

63 100

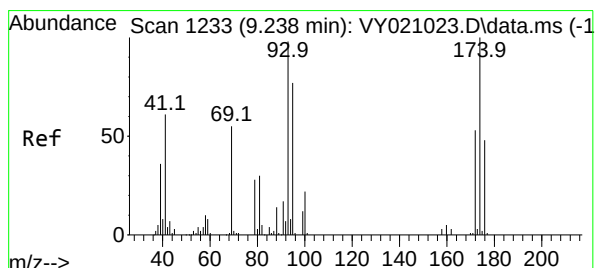
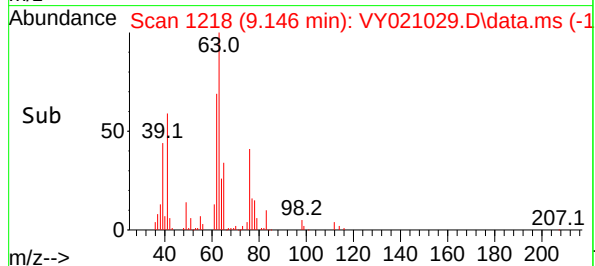
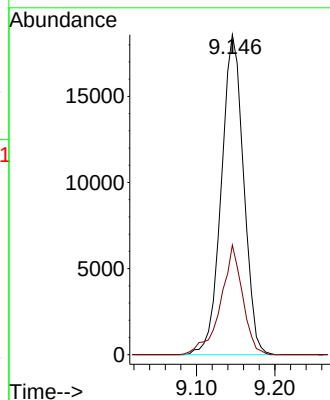
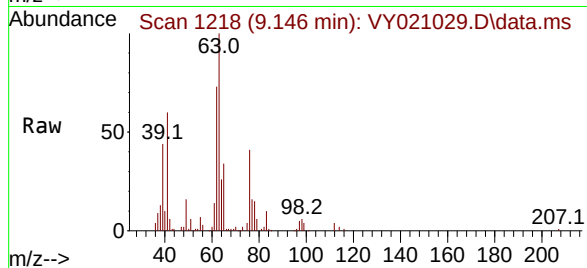
65 34.2 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#46

Dibromomethane

Concen: 16.751 ug/l

RT: 9.237 min Scan# 1233

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

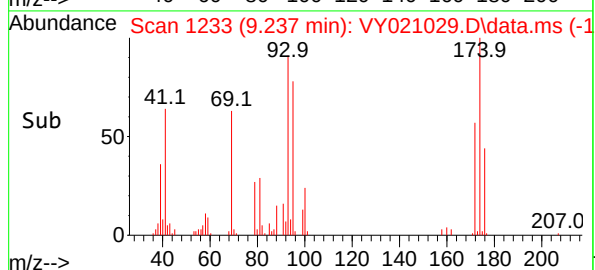
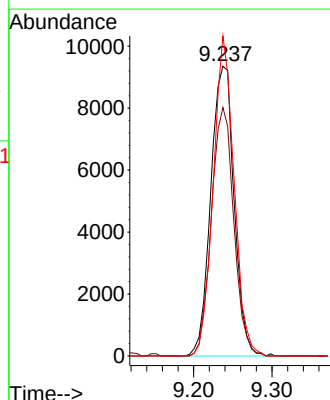
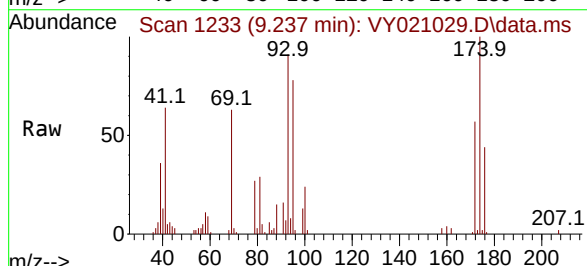
Tgt Ion: 93 Resp: 19335

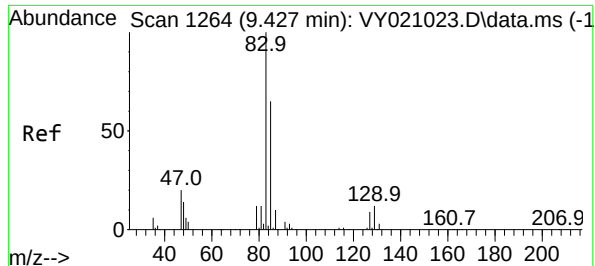
Ion Ratio Lower Upper

93 100

95 82.4 66.6 99.8

174 98.5 73.8 110.6





#47

Bromodichloromethane

Concen: 17.232 ug/l

RT: 9.426 min Scan# 1264

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

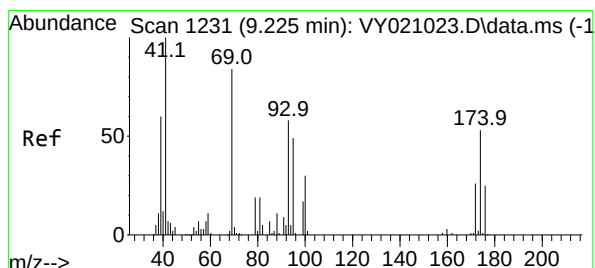
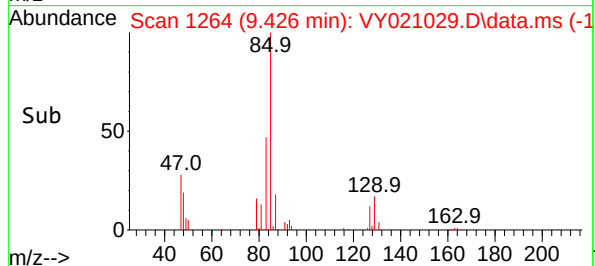
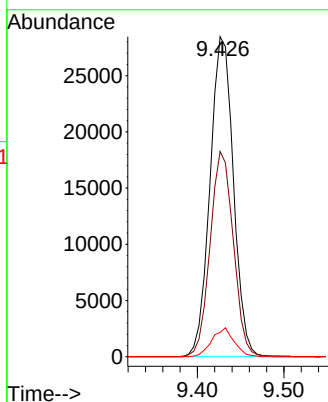
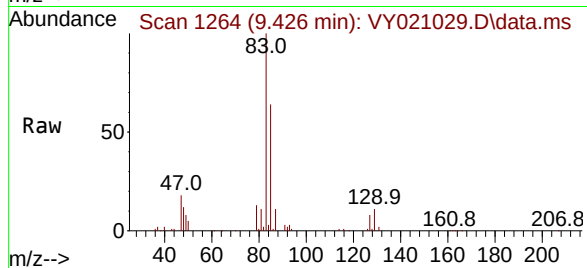
Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:	83	Resp:	5334
Ion Ratio	Lower	Upper	
83	100		
85	64.1	53.2	79.8
127	7.5	6.4	9.6

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#48

Methyl methacrylate

Concen: 16.154 ug/l

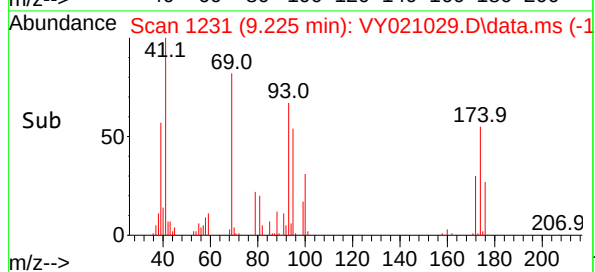
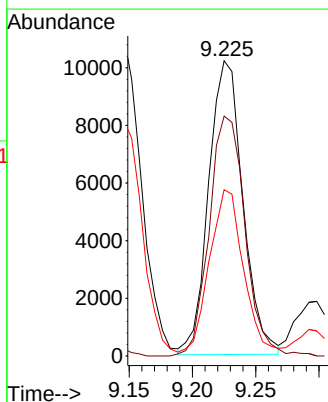
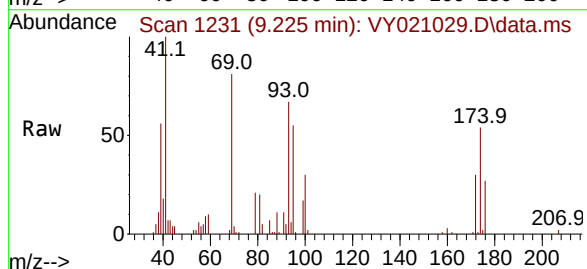
RT: 9.225 min Scan# 1231

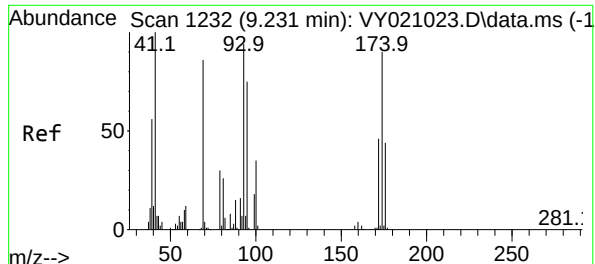
Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion:	41	Resp:	19198
Ion Ratio	Lower	Upper	
41	100		
69	85.2	72.1	108.1
39	54.0	42.8	64.2





#49

1,4-Dioxane

Concen: 335.115 ug/l

RT: 9.237 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 88 Resp: 360

Ion Ratio Lower Upper

88 100

43 38.9 28.2 42.4

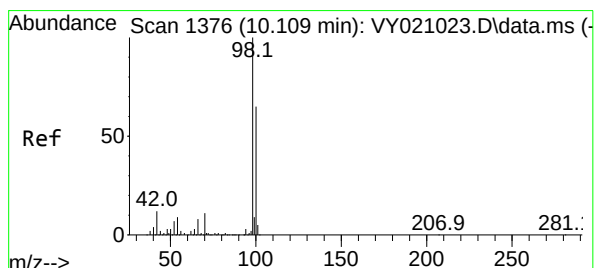
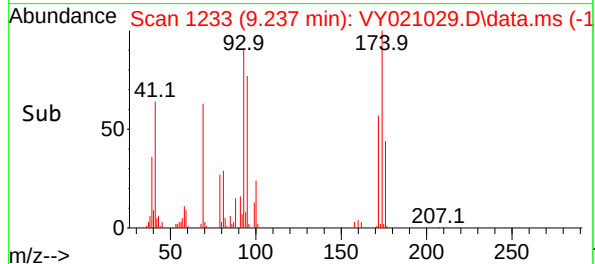
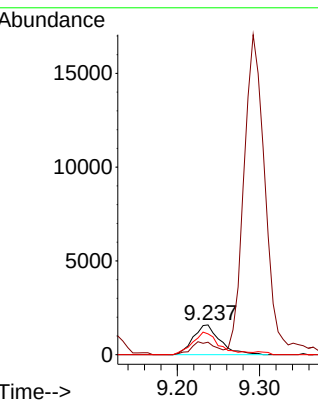
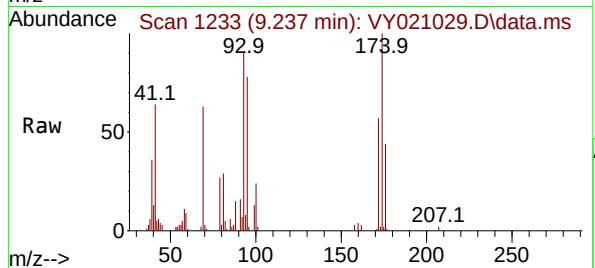
58 75.9 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#50

Toluene-d8

Concen: 50.217 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021029.D

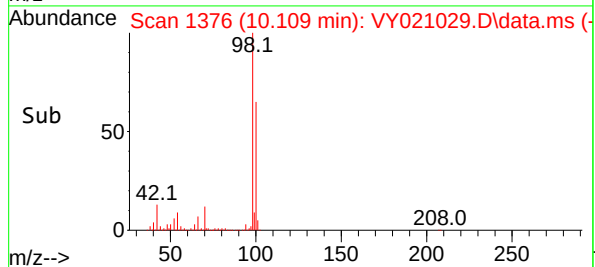
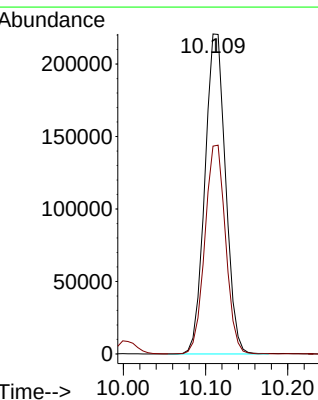
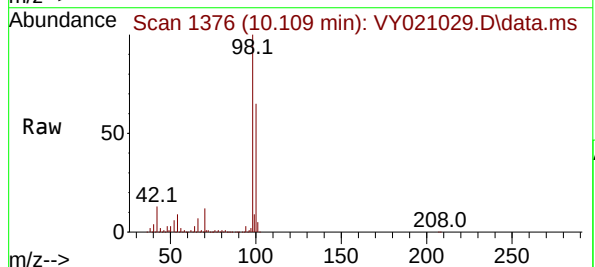
Acq: 03 Feb 2025 14:55

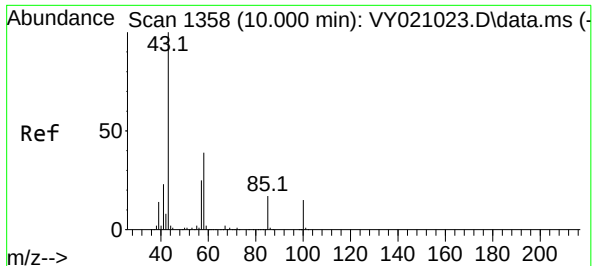
Tgt Ion: 98 Resp: 386321

Ion Ratio Lower Upper

98 100

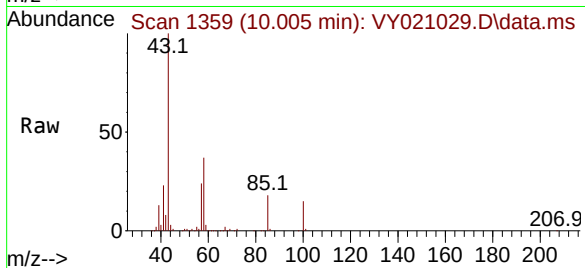
100 65.4 52.3 78.5





#51
4-Methyl-2-Pentanone
Concen: 79.410 ug/l
RT: 10.005 min Scan# 1359
Delta R.T. 0.006 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

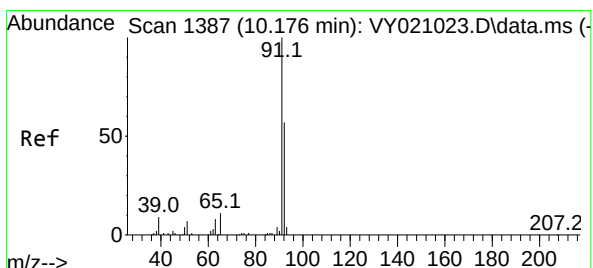
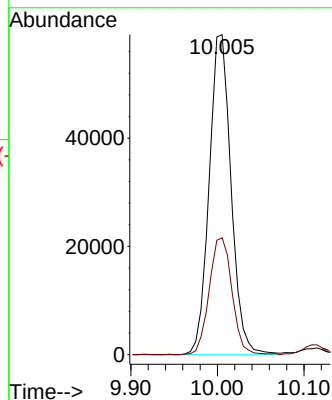
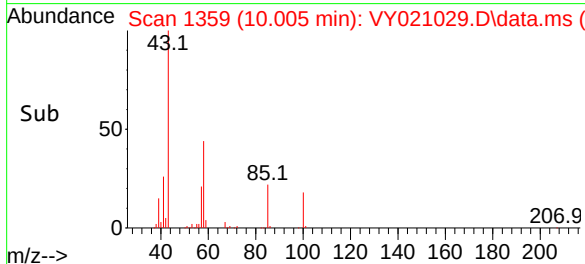
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01



Tgt Ion: 43 Resp: 104184
Ion Ratio Lower Upper
43 100
58 37.9 32.2 48.2

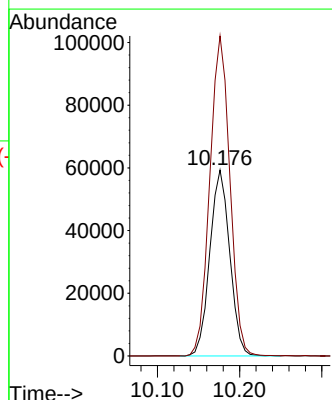
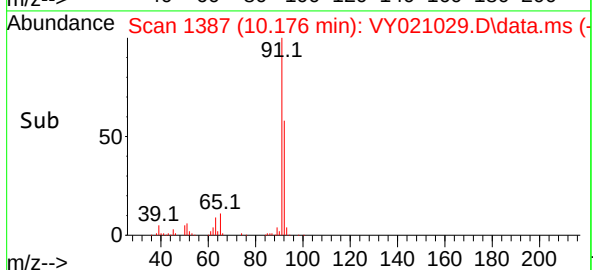
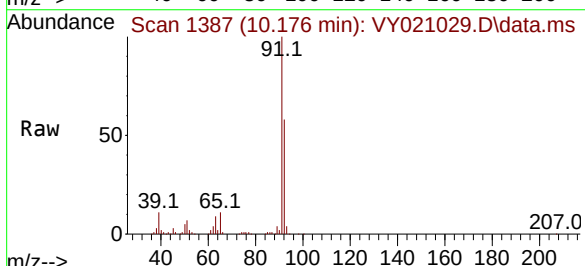
Manual Integrations
APPROVED

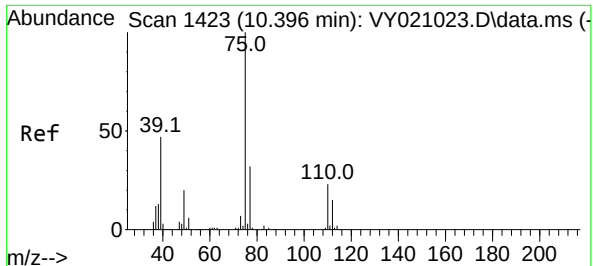
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#52
Toluene
Concen: 18.100 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion: 92 Resp: 99825
Ion Ratio Lower Upper
92 100
91 173.7 137.6 206.4





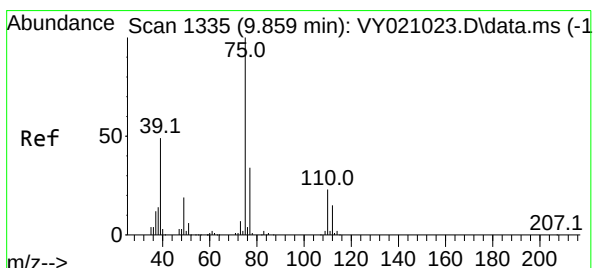
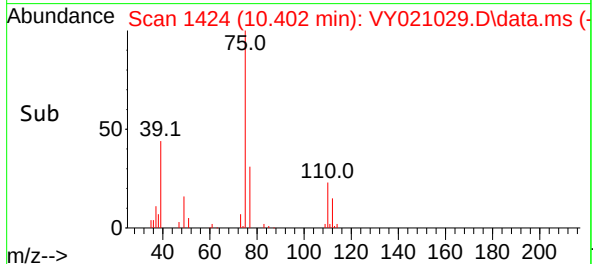
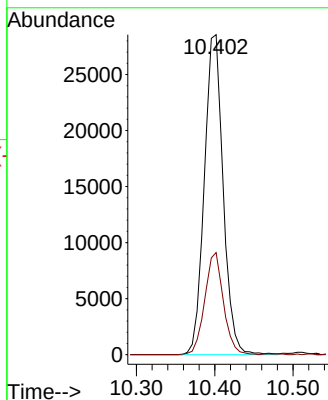
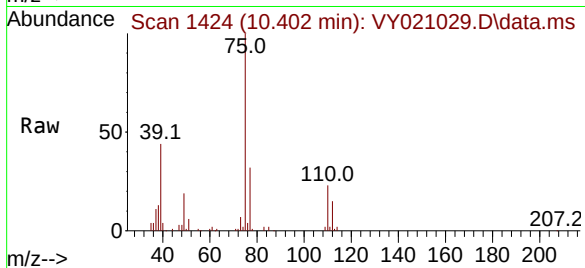
#53
t-1,3-Dichloropropene
Concen: 17.141 ug/l
RT: 10.402 min Scan# 1424
Delta R.T. 0.006 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Tgt Ion: 75 Resp: 4764
Ion Ratio Lower Upper
75 100
77 31.9 24.6 36.8

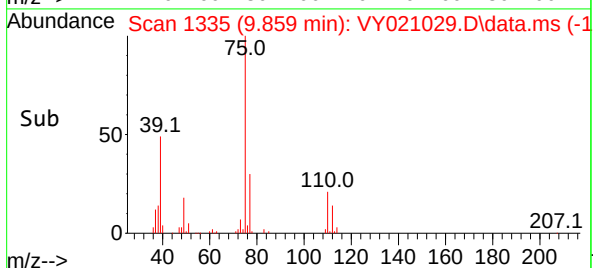
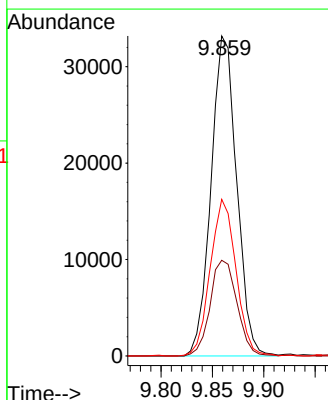
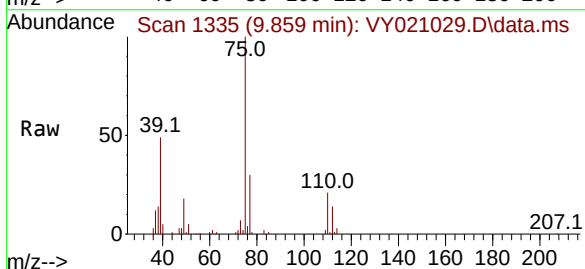
Manual Integrations
APPROVED

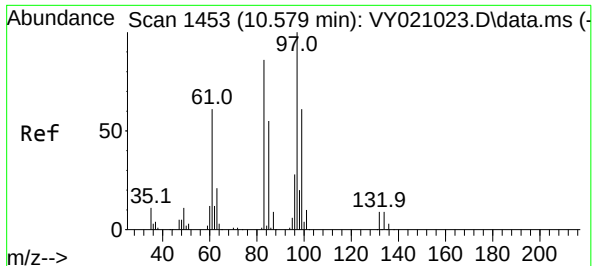
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#54
cis-1,3-Dichloropropene
Concen: 17.480 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion: 75 Resp: 57532
Ion Ratio Lower Upper
75 100
77 29.9 24.6 36.8
39 49.0 33.6 50.4





#55

1,1,2-Trichloroethane

Concen: 16.650 ug/l

RT: 10.578 min Scan# 1453

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 97 Resp: 2488

Ion Ratio Lower Upper

97 100

83 87.6 69.4 104.2

85 58.8 43.9 65.9

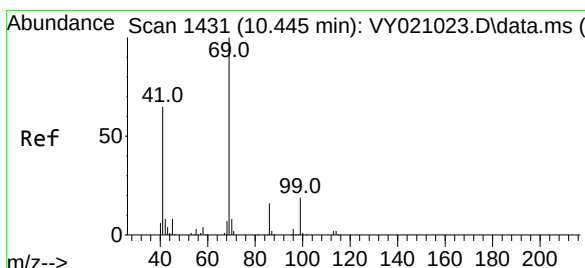
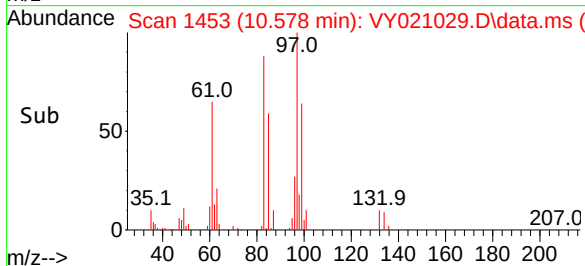
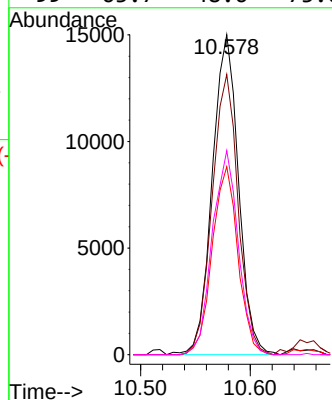
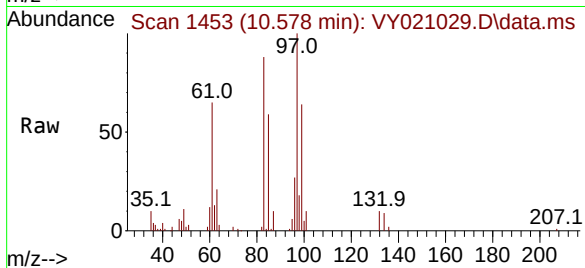
99 63.7 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#56

Ethyl methacrylate

Concen: 15.548 ug/l

RT: 10.444 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

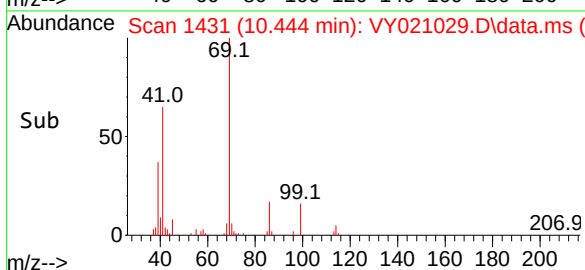
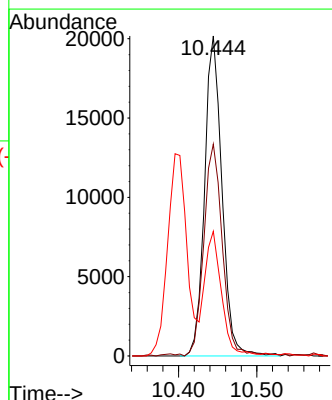
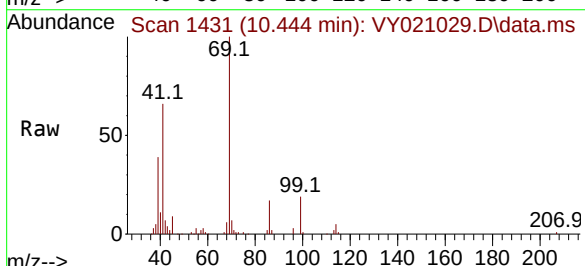
Tgt Ion: 69 Resp: 31090

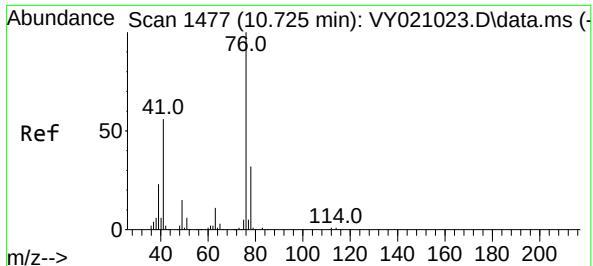
Ion Ratio Lower Upper

69 100

41 71.1 49.2 73.8

39 35.7 26.8 40.2





#57

1,3-Dichloropropane

Concen: 16.908 ug/l

RT: 10.725 min Scan# 1477

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 76 Resp: 4374

Ion Ratio Lower Upper

76 100

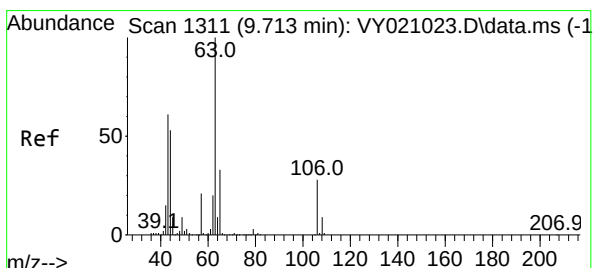
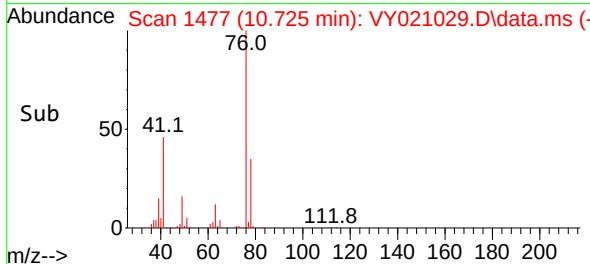
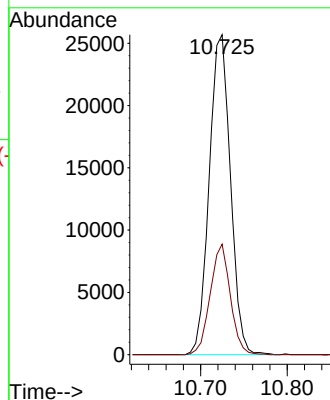
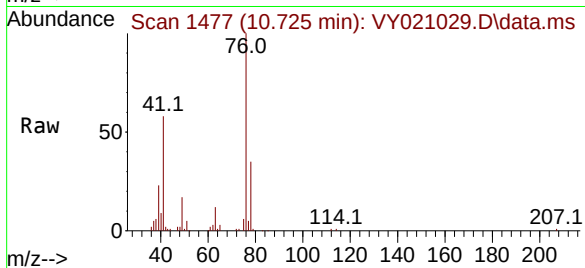
78 32.7 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#58

2-Chloroethyl Vinyl ether

Concen: 78.355 ug/l

RT: 9.719 min Scan# 1312

Delta R.T. 0.006 min

Lab File: VY021029.D

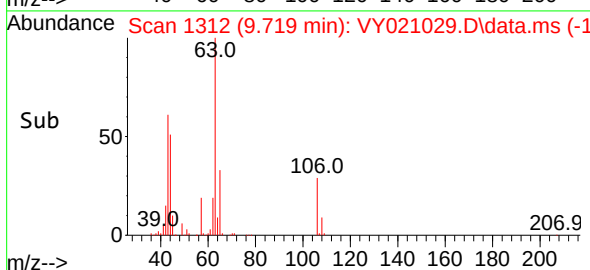
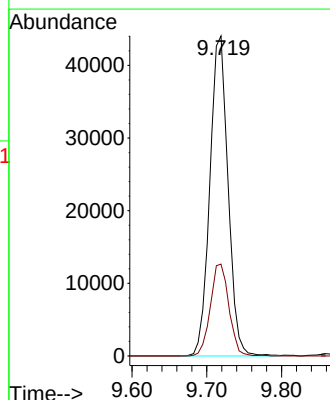
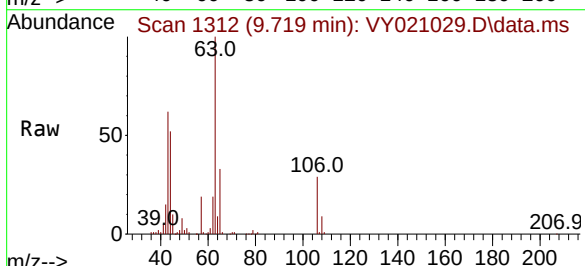
Acq: 03 Feb 2025 14:55

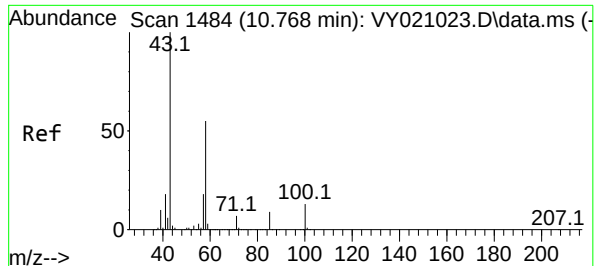
Tgt Ion: 63 Resp: 74540

Ion Ratio Lower Upper

63 100

106 29.3 22.4 33.6





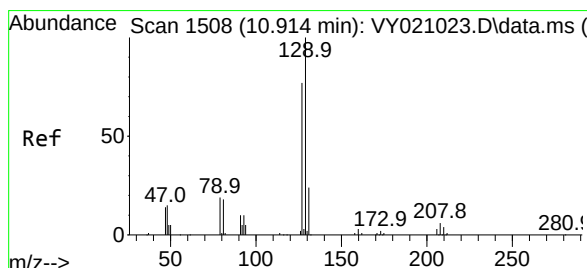
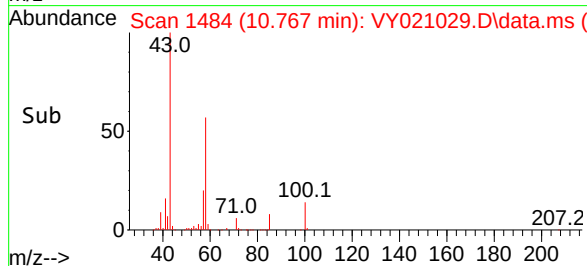
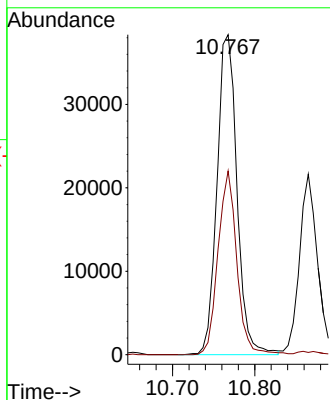
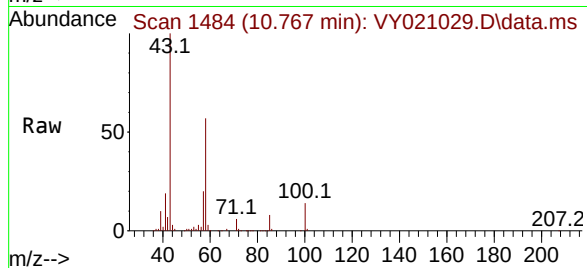
#59
2-Hexanone
Concen: 76.721 ug/l
RT: 10.767 min Scan# 1484
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Tgt Ion: 43 Resp: 64809
Ion Ratio Lower Upper
43 100
58 54.1 28.1 84.3

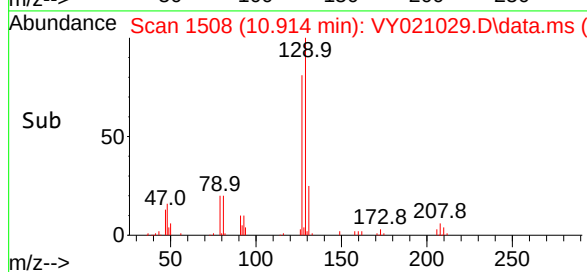
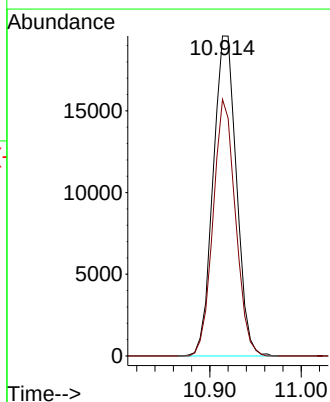
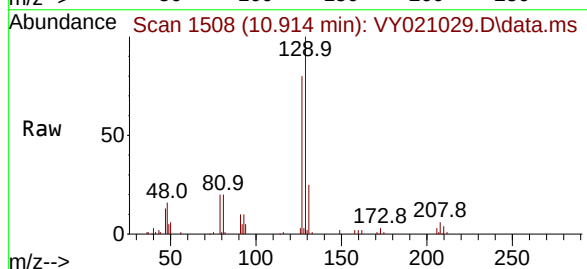
Manual Integrations
APPROVED

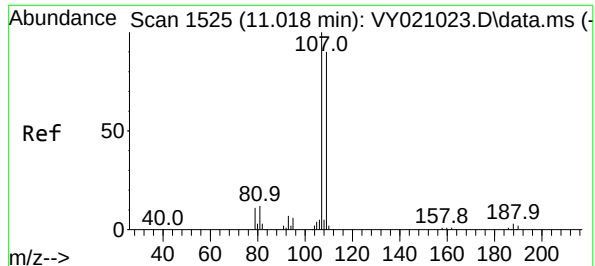
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#60
Dibromochloromethane
Concen: 16.540 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion:129 Resp: 34720
Ion Ratio Lower Upper
129 100
127 76.8 39.2 117.6





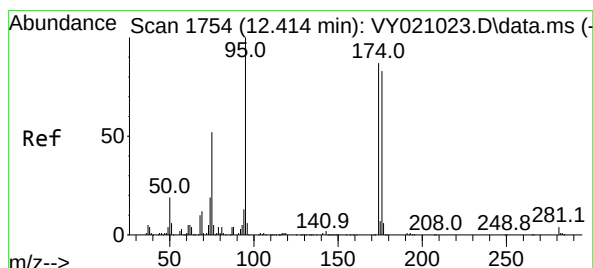
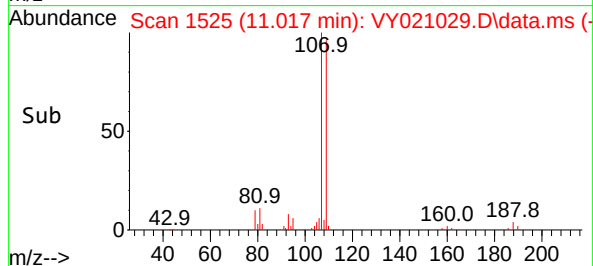
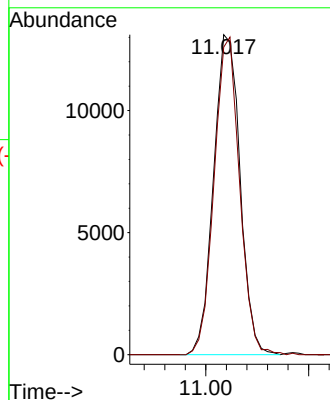
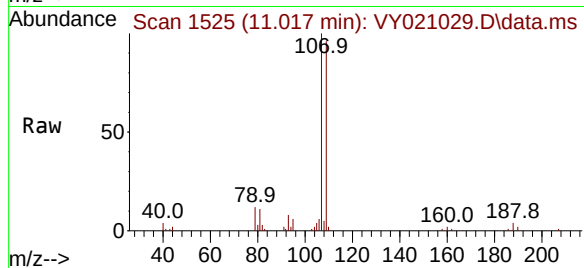
#61
1,2-Dibromoethane
Concen: 16.732 ug/l
RT: 11.017 min Scan# 1525
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Tgt Ion:107 Resp: 23420
Ion Ratio Lower Upper
107 100
109 95.4 75.4 113.2

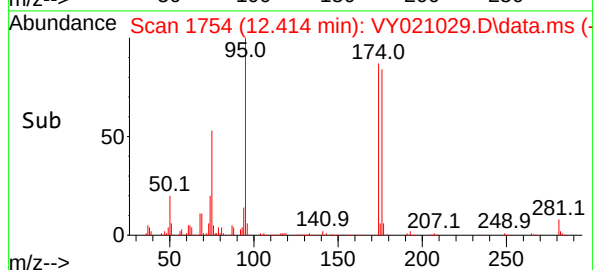
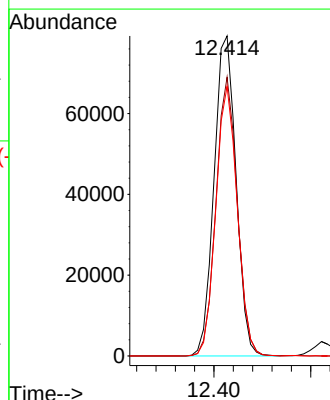
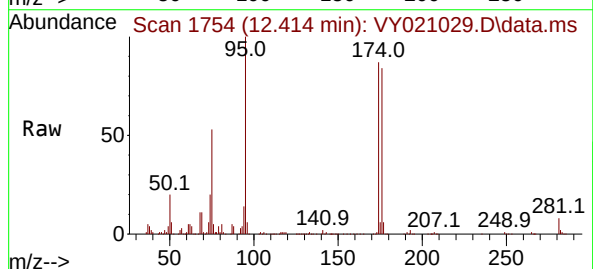
Manual Integrations
APPROVED

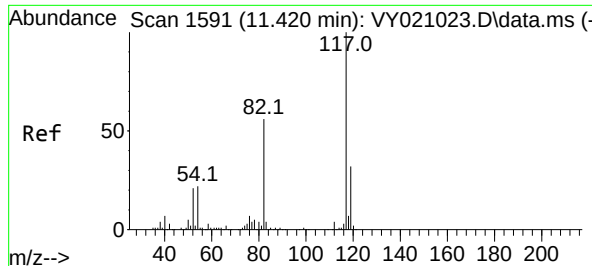
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#62
4-Bromofluorobenzene
Concen: 49.679 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion: 95 Resp: 124856
Ion Ratio Lower Upper
95 100
174 84.1 0.0 160.0
176 81.9 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:117 Resp: 26541

Ion Ratio Lower Upper

117 100

82 57.3 43.8 65.8

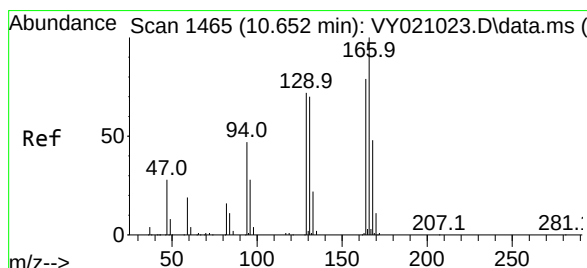
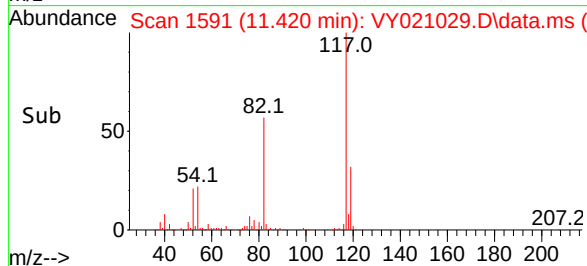
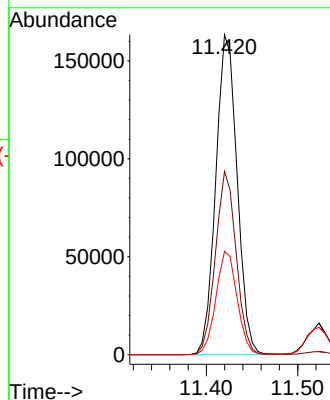
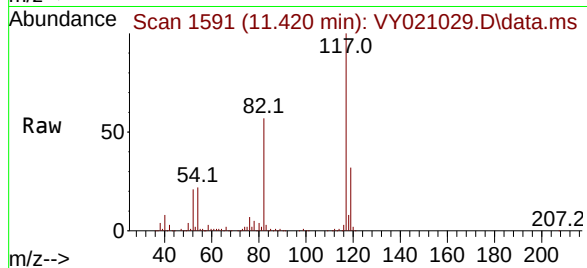
119 32.3 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#64

Tetrachloroethene

Concen: 18.735 ug/l

RT: 10.652 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion:164 Resp: 36914

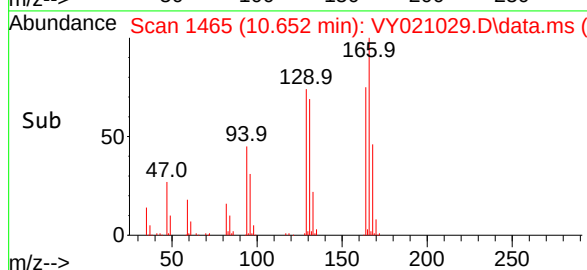
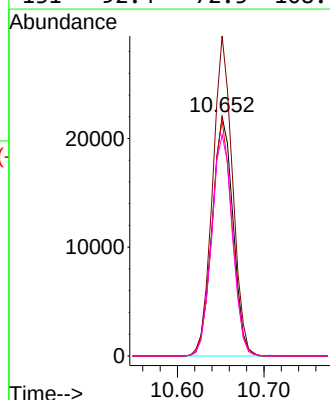
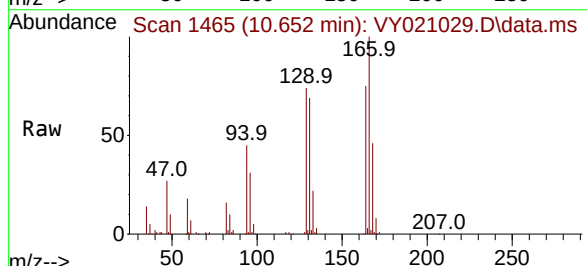
Ion Ratio Lower Upper

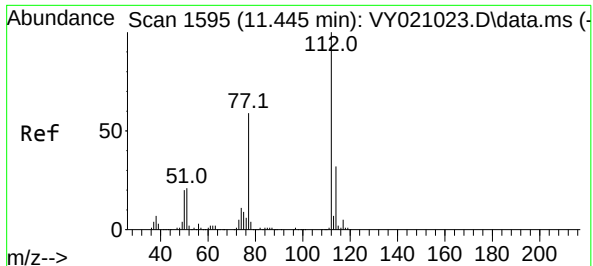
164 100

166 133.7 98.8 148.2

129 98.5 78.9 118.3

131 92.4 72.5 108.7





#65

Chlorobenzene

Concen: 17.719 ug/l

RT: 11.450 min Scan# 1595

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:112 Resp: 104718

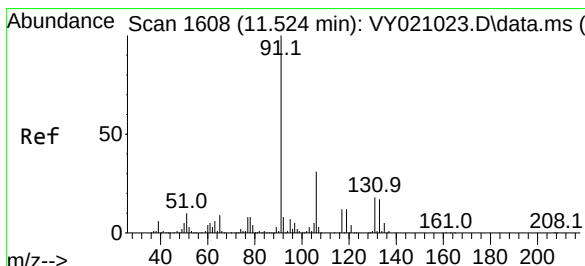
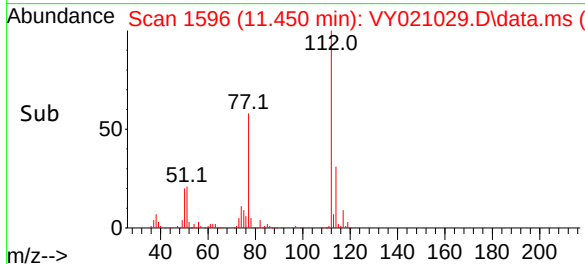
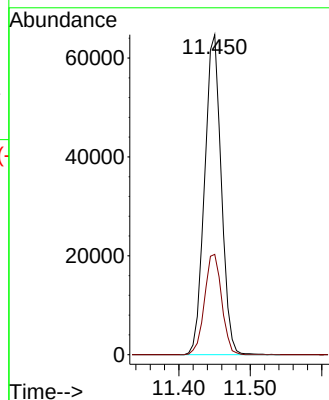
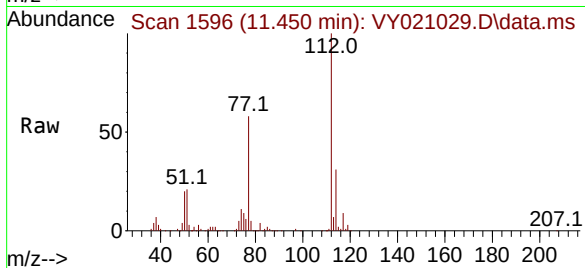
Ion Ratio Lower Upper

112 100

114 31.4 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#66

1,1,1,2-Tetrachloroethane

Concen: 17.845 ug/l

RT: 11.523 min Scan# 1608

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

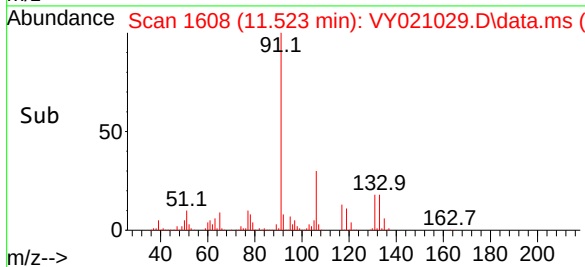
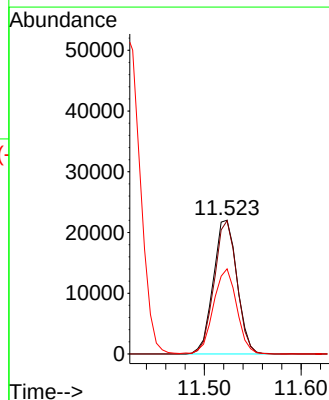
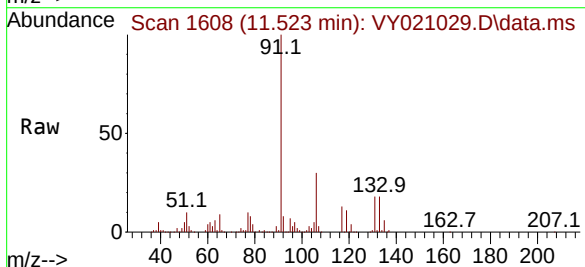
Tgt Ion:131 Resp: 37479

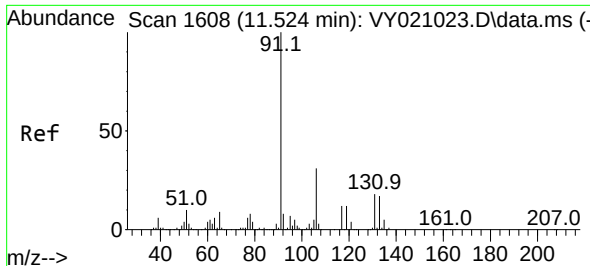
Ion Ratio Lower Upper

131 100

133 95.2 47.0 141.0

119 62.5 33.3 99.9





#67

Ethyl Benzene

Concen: 18.460 ug/l

RT: 11.523 min Scan# 1608

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 91 Resp: 19296

Ion Ratio Lower Upper

91 100

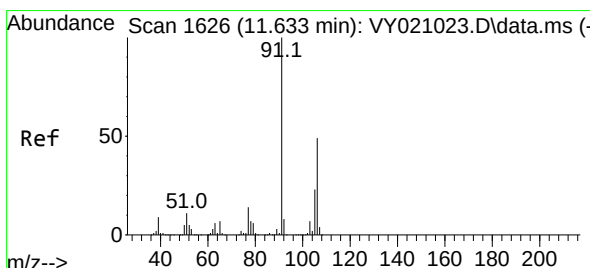
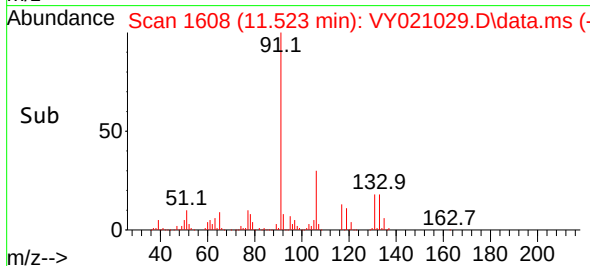
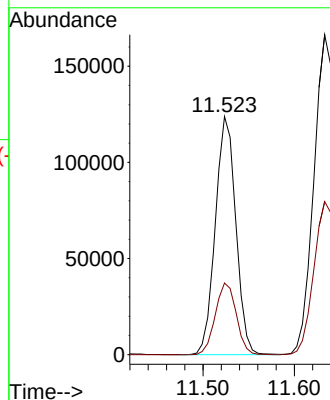
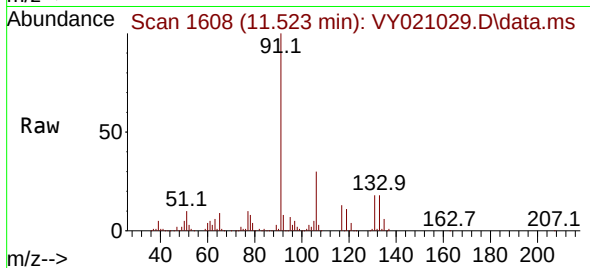
106 30.1 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#68

m/p-Xylenes

Concen: 37.154 ug/l

RT: 11.633 min Scan# 1626

Delta R.T. -0.000 min

Lab File: VY021029.D

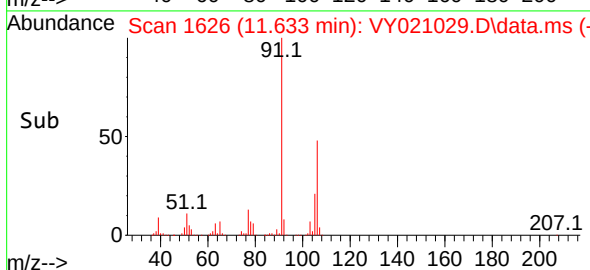
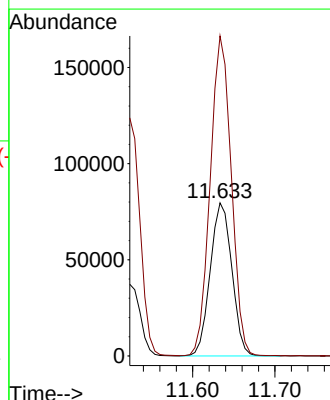
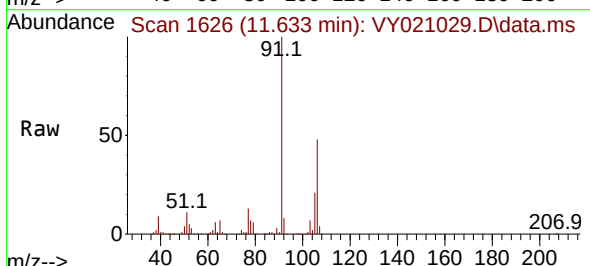
Acq: 03 Feb 2025 14:55

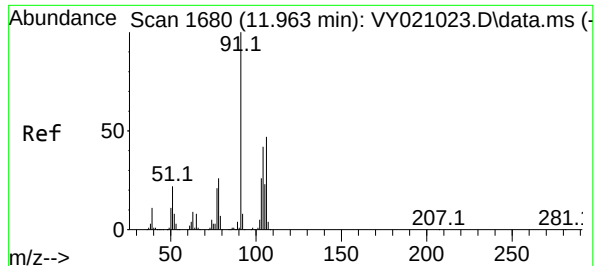
Tgt Ion:106 Resp: 145288

Ion Ratio Lower Upper

106 100

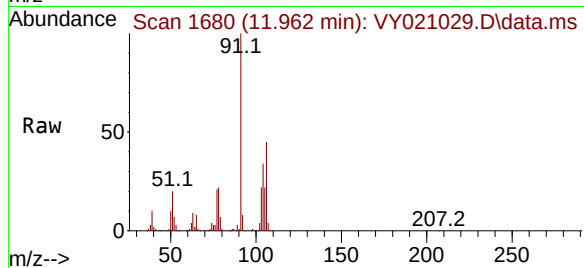
91 204.4 160.7 241.1





#69
o-Xylene
Concen: 18.220 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

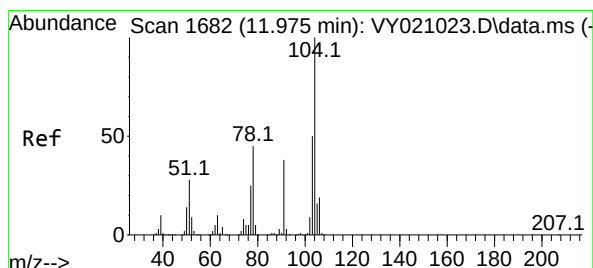
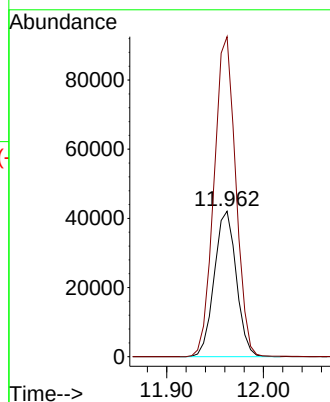
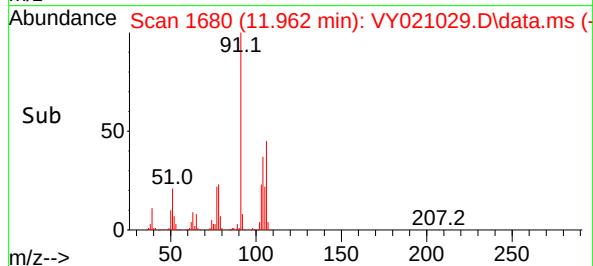
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01



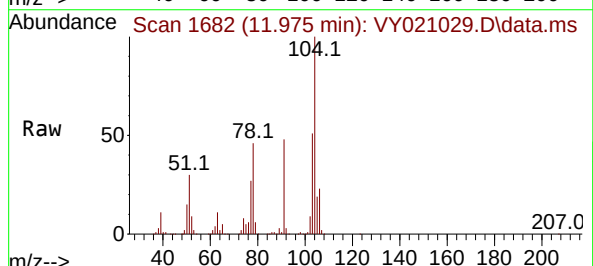
Tgt Ion:106 Resp: 66425
Ion Ratio Lower Upper
106 100
91 217.3 106.5 319.5

Manual Integrations
APPROVED

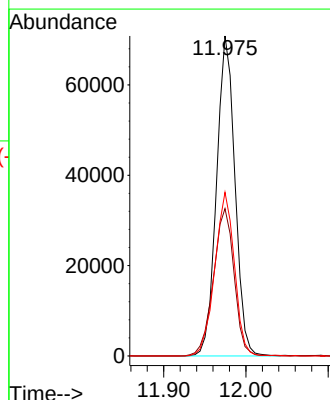
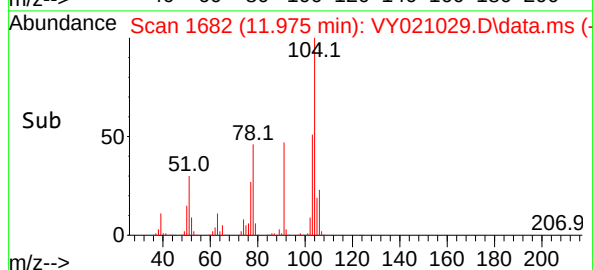
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

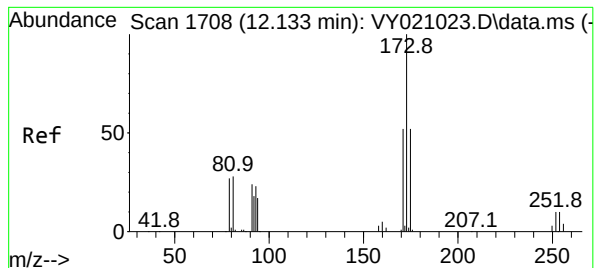


#70
Styrene
Concen: 18.175 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55



Tgt Ion:104 Resp: 110443
Ion Ratio Lower Upper
104 100
78 51.5 39.2 58.8
103 54.5 43.8 65.6





#71

Bromoform

Concen: 17.011 ug/l

RT: 12.139 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:173 Resp: 1988

Ion Ratio Lower Upper

173 100

175 47.2 23.5 70.6

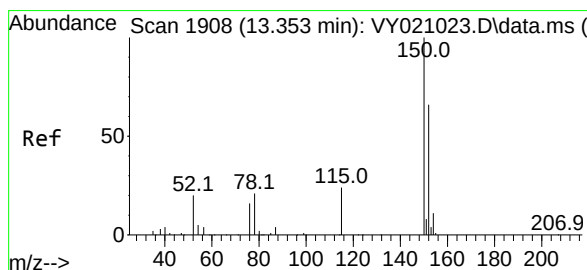
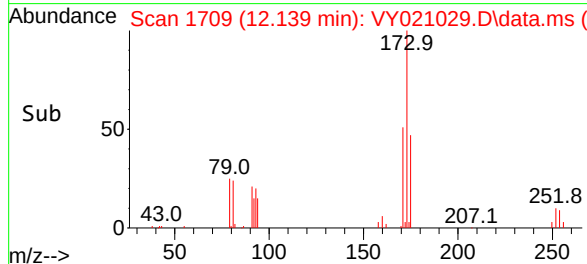
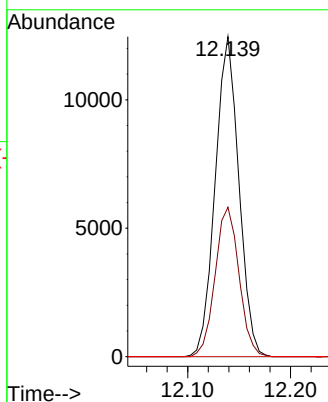
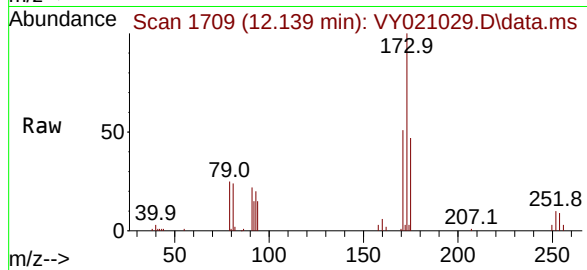
254 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

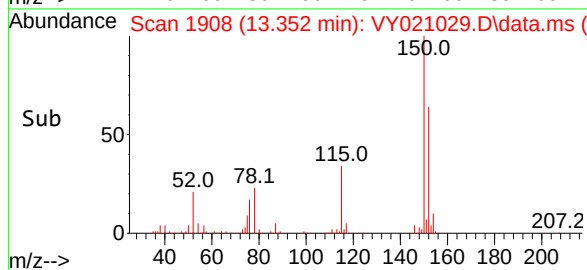
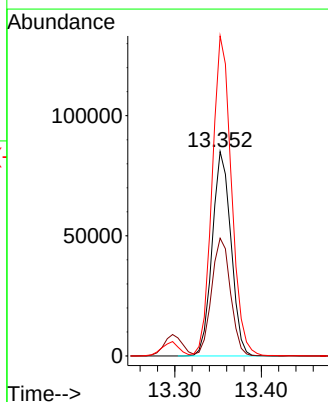
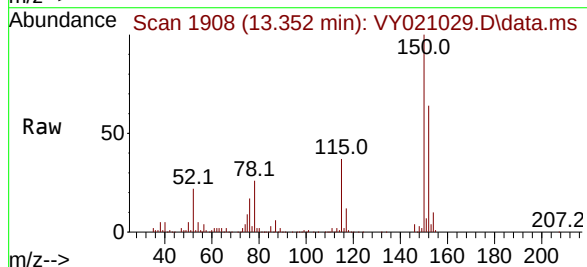
Tgt Ion:152 Resp: 127785

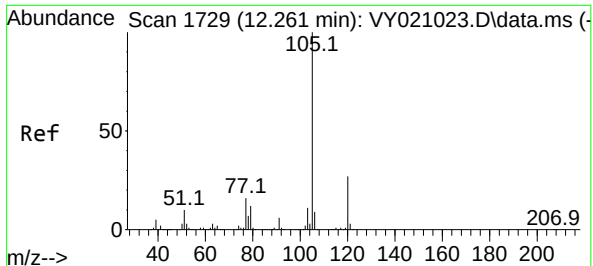
Ion Ratio Lower Upper

152 100

115 58.2 30.0 90.0

150 161.7 0.0 344.6





#73

Isopropylbenzene

Concen: 18.694 ug/l

RT: 12.261 min Scan# 1729

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:105 Resp: 186604

Ion Ratio Lower Upper

105 100

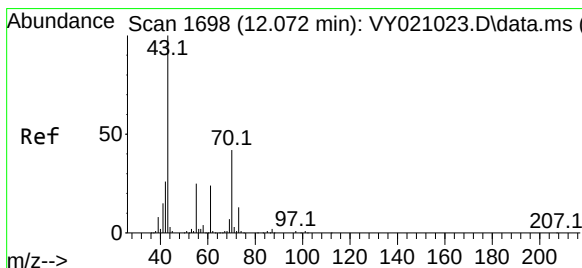
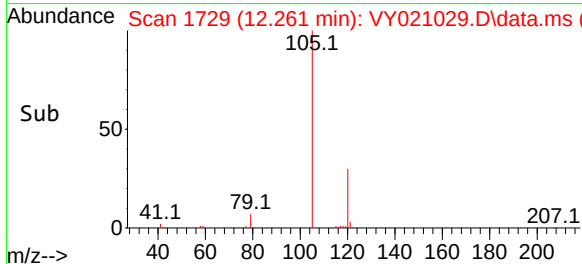
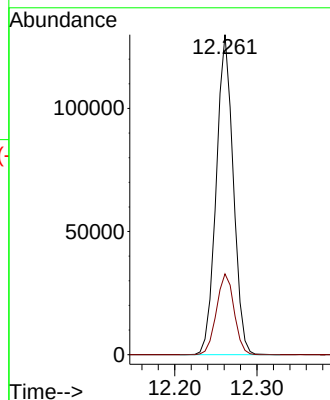
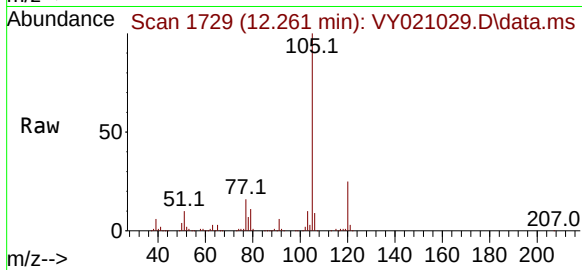
120 26.2 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#74

N-ethyl acetate

Concen: 16.160 ug/l

RT: 12.078 min Scan# 1699

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion: 43 Resp: 35266

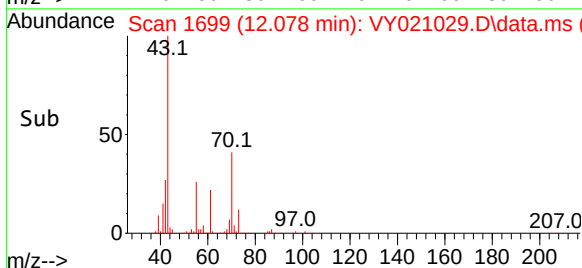
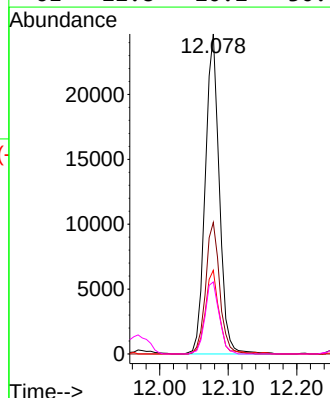
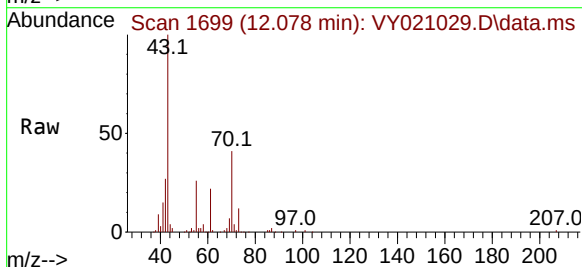
Ion Ratio Lower Upper

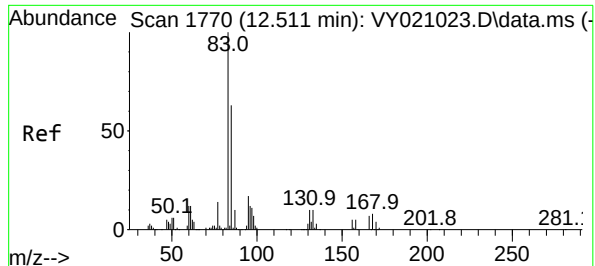
43 100

70 41.0 36.6 55.0

55 25.6 22.2 33.4

61 22.8 20.2 30.4





#75

1,1,2,2-Tetrachloroethane

Concen: 16.386 ug/l

RT: 12.511 min Scan# 1770

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

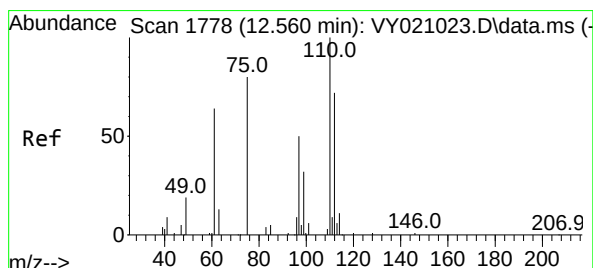
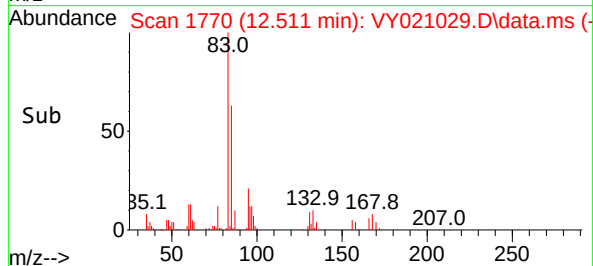
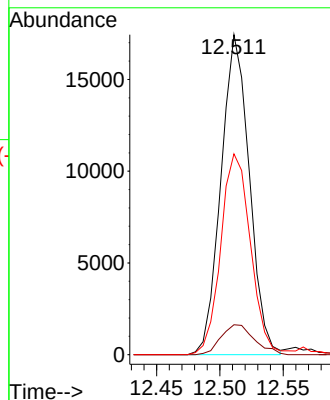
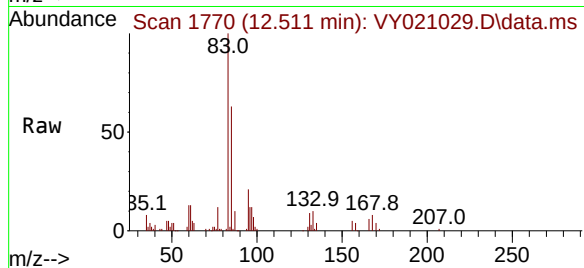
Tgt Ion:	83	Resp:	2720
Ion Ratio	Lower	Upper	
83	100		
131	11.0	4.9	14.6
85	66.1	32.6	98.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#76

1,2,3-Trichloropropane

Concen: 17.714 ug/l m

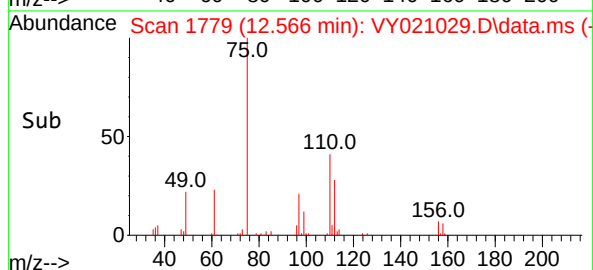
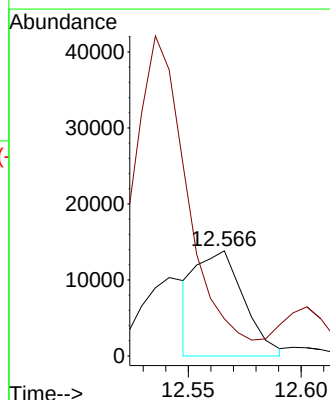
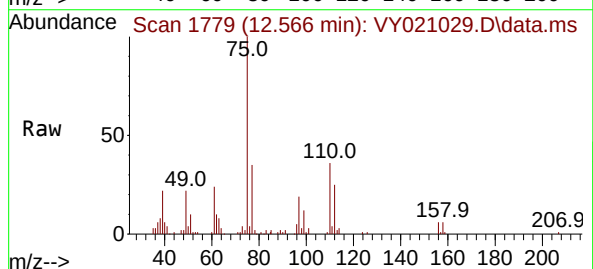
RT: 12.566 min Scan# 1779

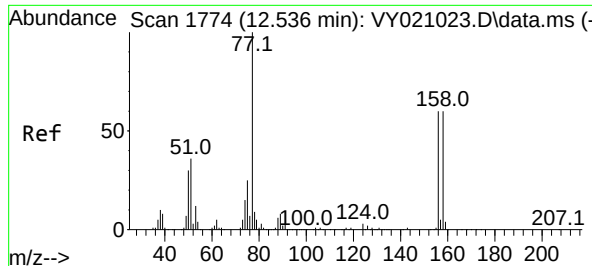
Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

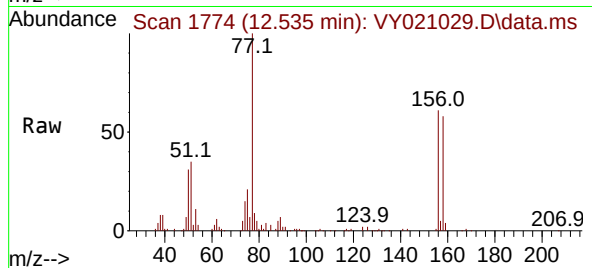
Tgt Ion:	75	Resp:	20534
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 17.419 ug/l
RT: 12.535 min Scan# 1774
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

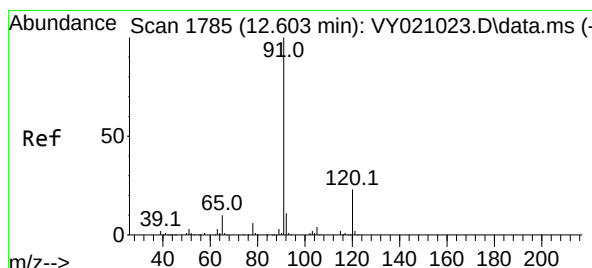
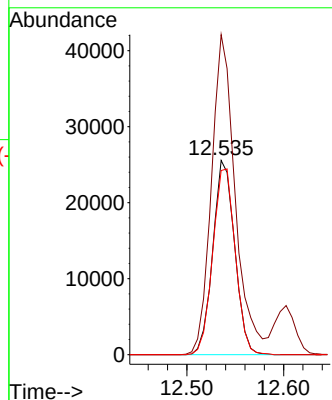
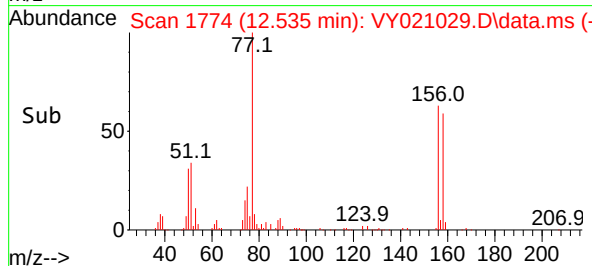
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01



Tgt Ion: 156 Resp: 40125
Ion Ratio Lower Upper
156 100
77 178.6 97.3 291.8
158 98.5 48.4 145.0

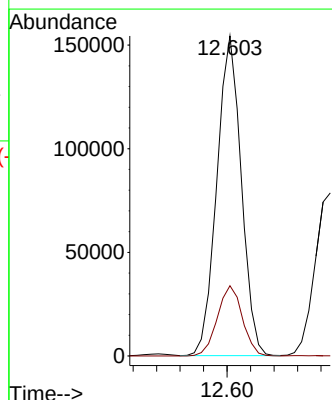
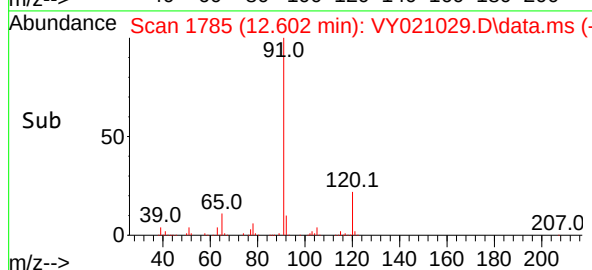
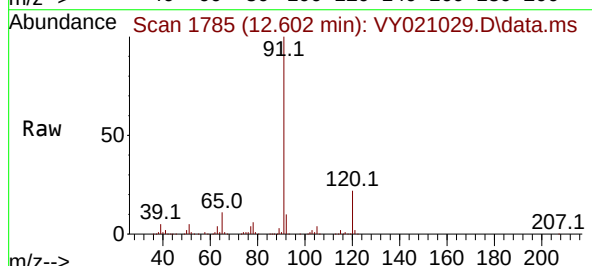
Manual Integrations
APPROVED

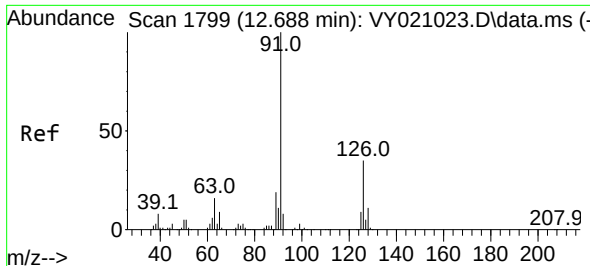
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#78
n-propylbenzene
Concen: 18.756 ug/l
RT: 12.602 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion: 91 Resp: 223020
Ion Ratio Lower Upper
91 100
120 22.3 11.0 33.0





#79

2-Chlorotoluene

Concen: 18.074 ug/l

RT: 12.688 min Scan# 1799

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 91 Resp: 123088

Ion Ratio Lower Upper

91 100

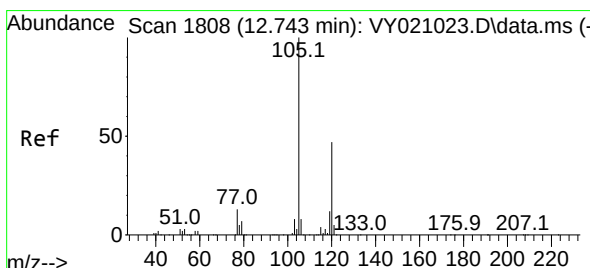
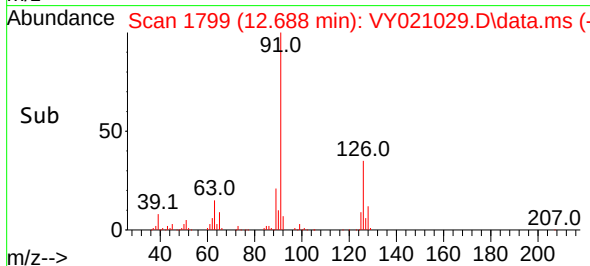
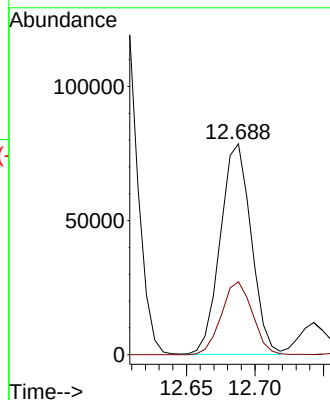
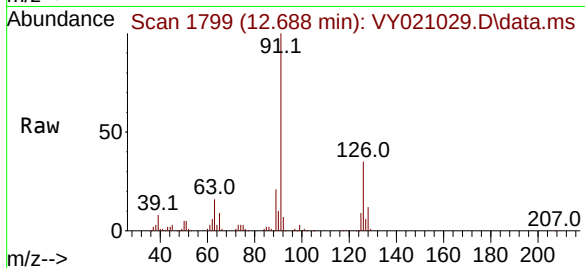
126 34.9 17.0 51.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#80

1,3,5-Trimethylbenzene

Concen: 18.419 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. -0.000 min

Lab File: VY021029.D

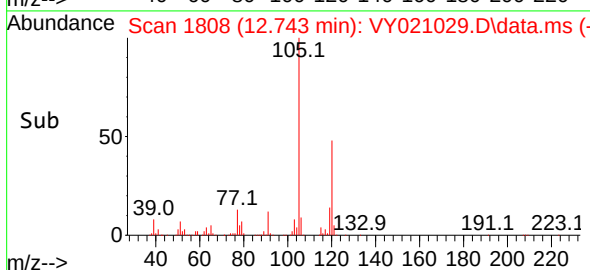
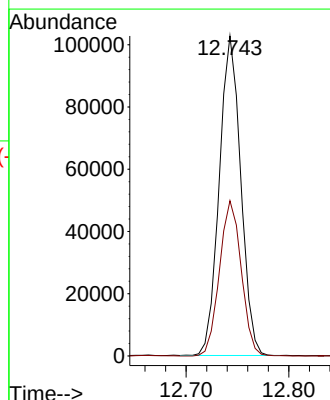
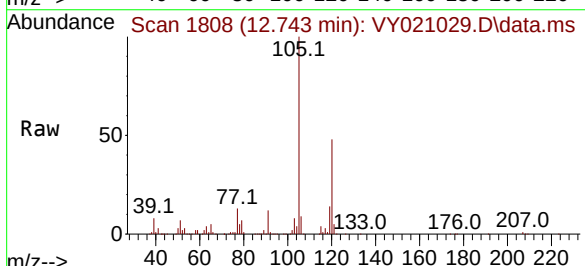
Acq: 03 Feb 2025 14:55

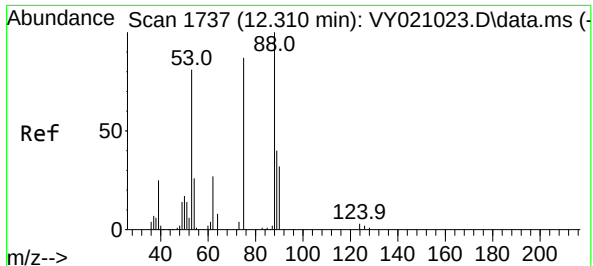
Tgt Ion:105 Resp: 149063

Ion Ratio Lower Upper

105 100

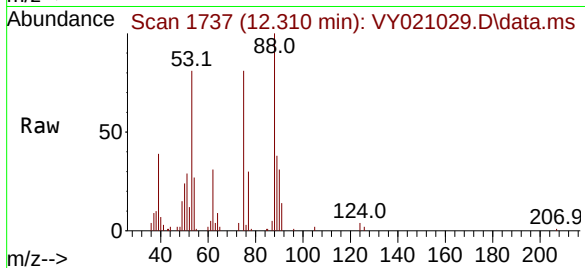
120 49.1 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 16.276 ug/l
RT: 12.310 min Scan# 1737
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

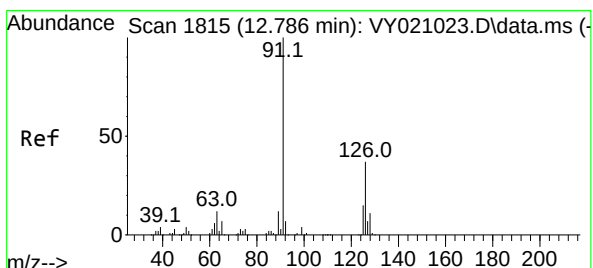
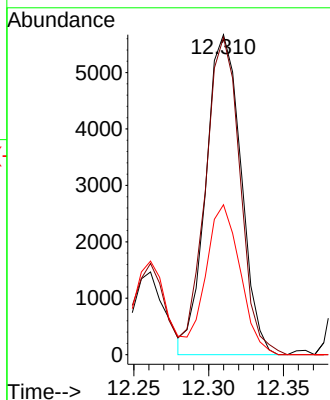
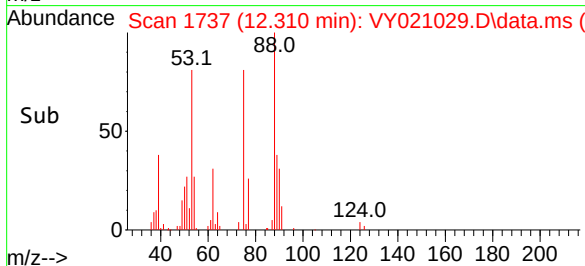
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01



Tgt Ion: 75 Resp: 9240
Ion Ratio Lower Upper
75 100
53 97.8 74.0 111.0
89 45.3 36.5 54.7

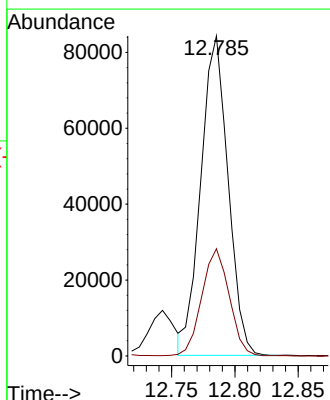
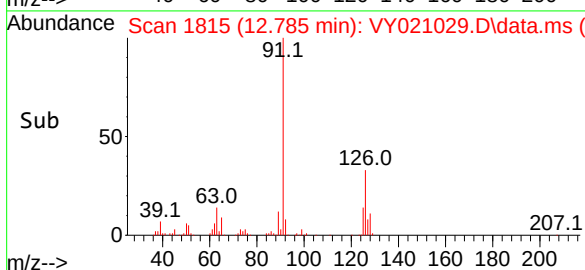
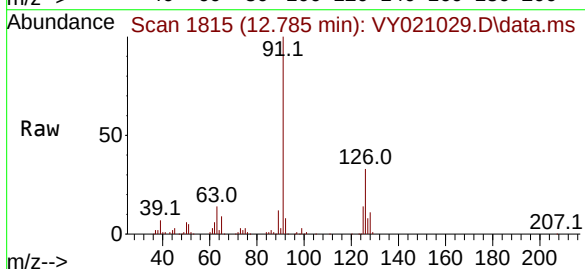
Manual Integrations
APPROVED

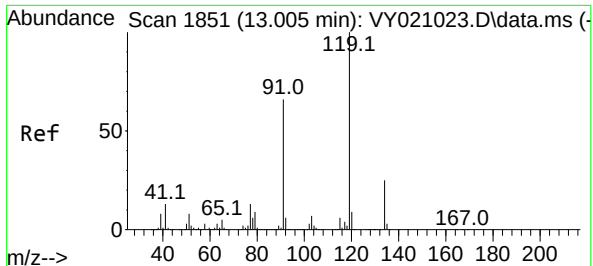
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#82
4-Chlorotoluene
Concen: 18.183 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. -0.000 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion: 91 Resp: 126164
Ion Ratio Lower Upper
91 100
126 33.9 17.1 51.2





#83

tert-Butylbenzene

Concen: 18.426 ug/l

RT: 13.005 min Scan# 1851

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:119 Resp: 13554

Ion Ratio Lower Upper

119 100

91 65.6 31.5 94.5

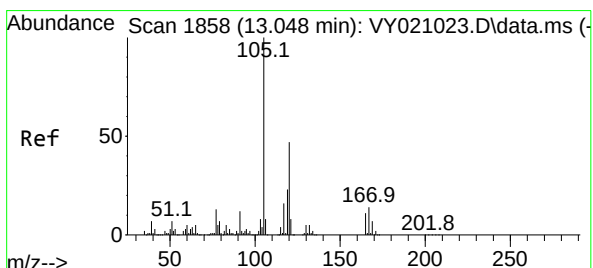
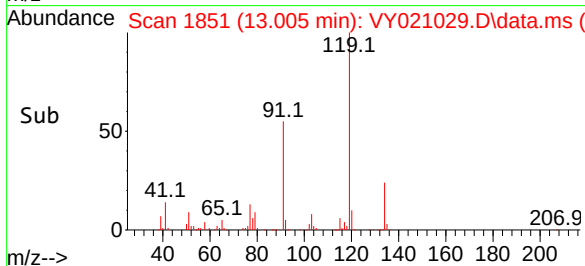
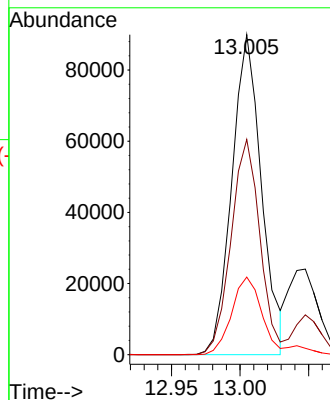
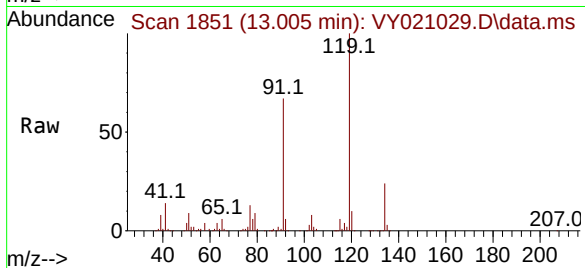
134 26.6 13.1 39.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#84

1,2,4-Trimethylbenzene

Concen: 18.777 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. -0.000 min

Lab File: VY021029.D

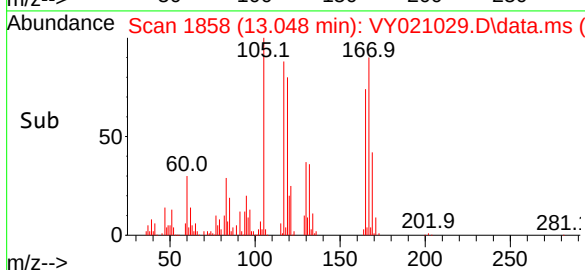
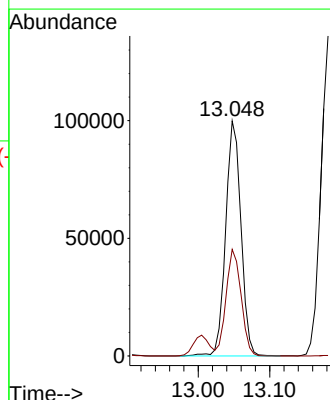
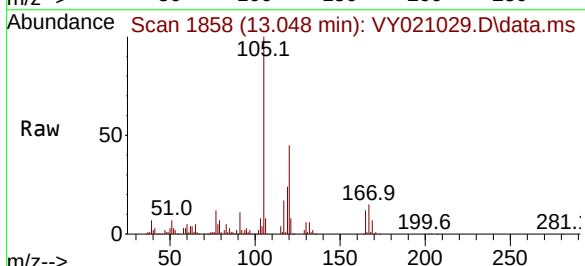
Acq: 03 Feb 2025 14:55

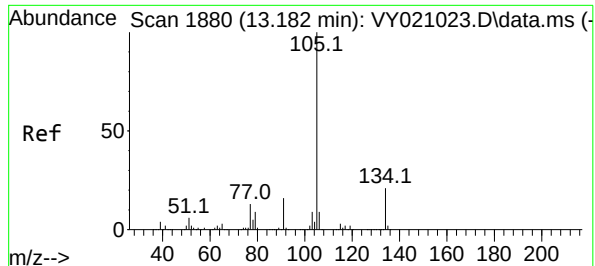
Tgt Ion:105 Resp: 148583

Ion Ratio Lower Upper

105 100

120 44.5 22.1 66.3





#85

sec-Butylbenzene

Concen: 18.789 ug/l

RT: 13.182 min Scan# 1880

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:105 Resp: 19895

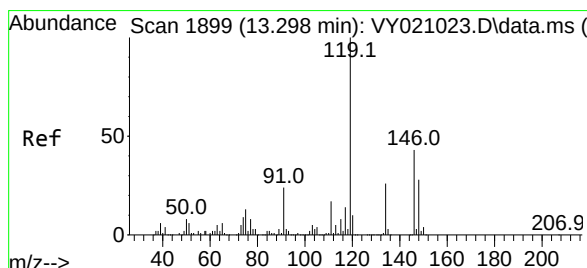
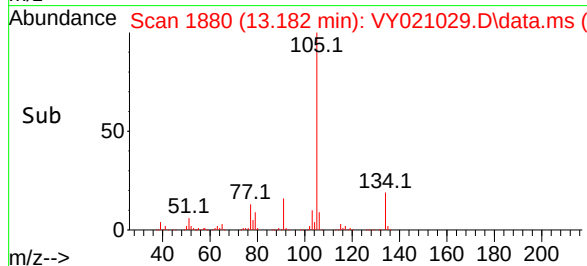
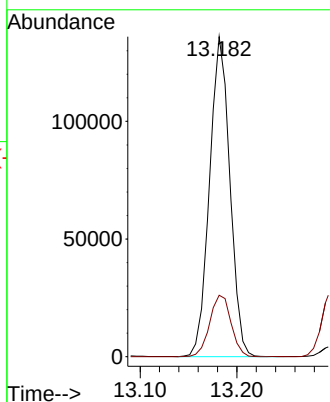
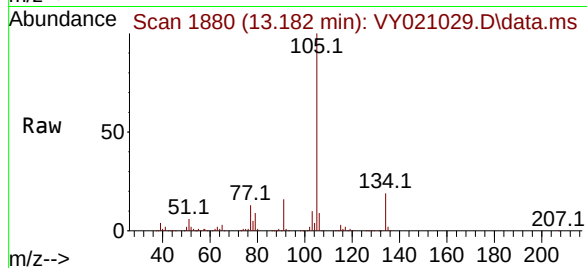
Ion Ratio Lower Upper

105 100

134 20.1 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#86

p-Isopropyltoluene

Concen: 18.926 ug/l

RT: 13.297 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

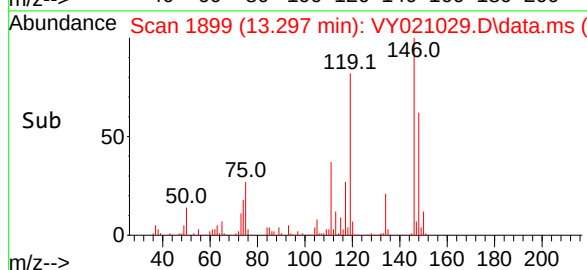
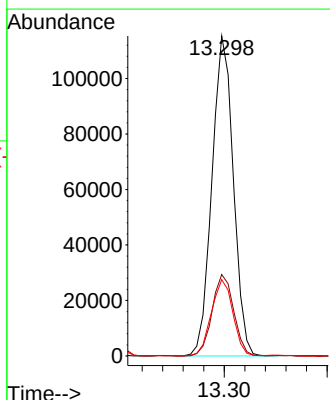
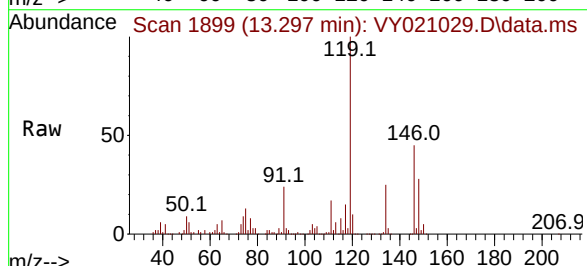
Tgt Ion:119 Resp: 166473

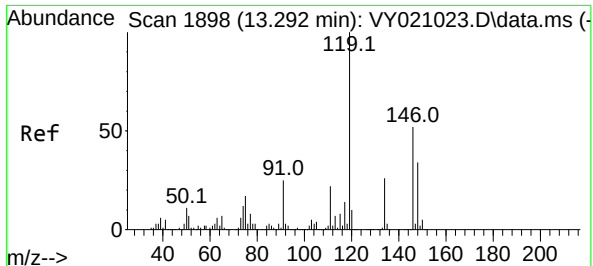
Ion Ratio Lower Upper

119 100

134 25.7 13.1 39.1

91 24.0 11.7 35.0





#87

1,3-Dichlorobenzene

Concen: 18.232 ug/l

RT: 13.297 min Scan# 1898

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

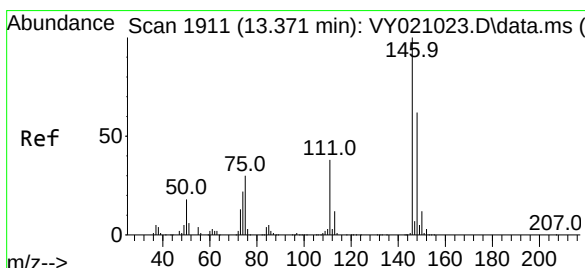
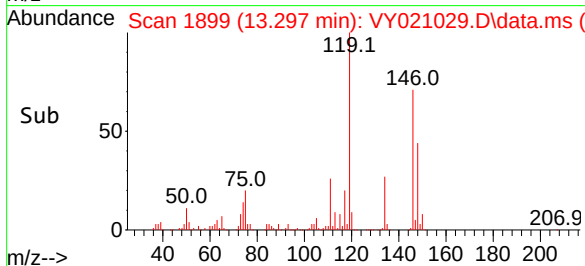
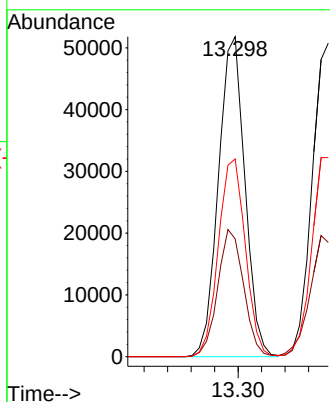
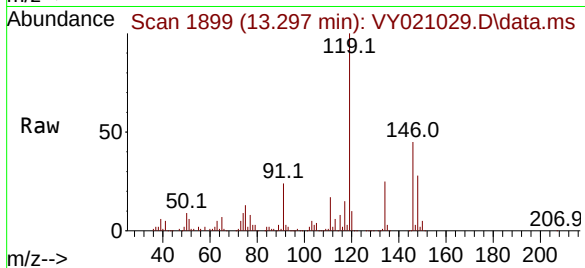
Tgt Ion:	146	Resp:	81089
Ion Ratio	Lower	Upper	
146	100		
111	39.0	20.2	60.5
148	62.9	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 17.892 ug/l

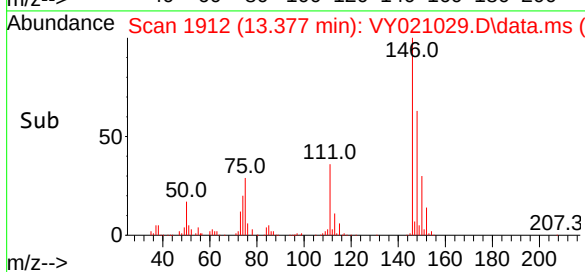
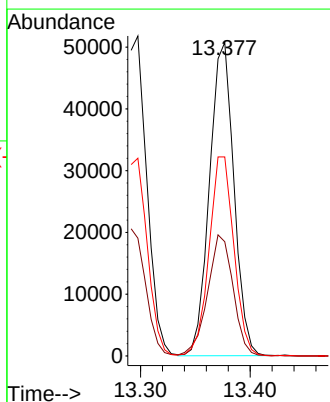
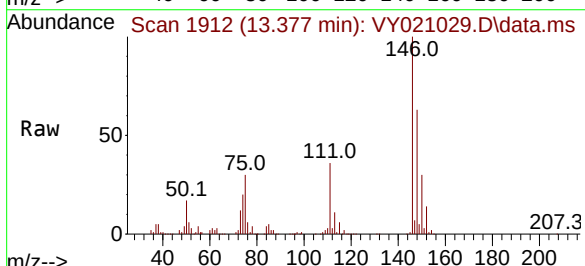
RT: 13.377 min Scan# 1912

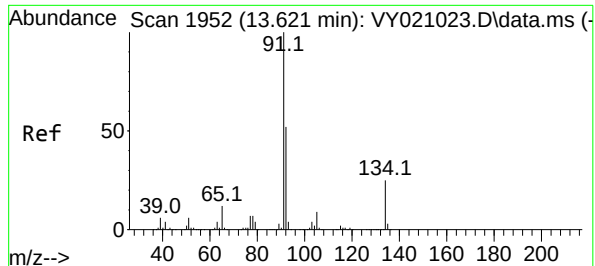
Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion:	146	Resp:	78352
Ion Ratio	Lower	Upper	
146	100		
111	40.5	19.3	57.9
148	64.7	31.6	94.7





#89

n-Butylbenzene

Concen: 19.114 ug/l

RT: 13.627 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

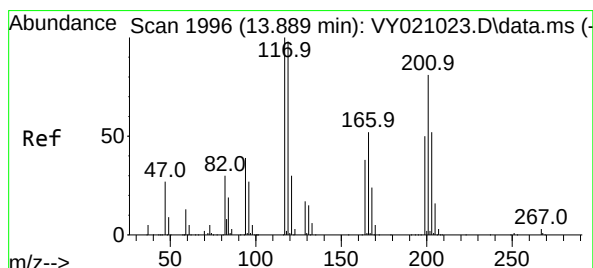
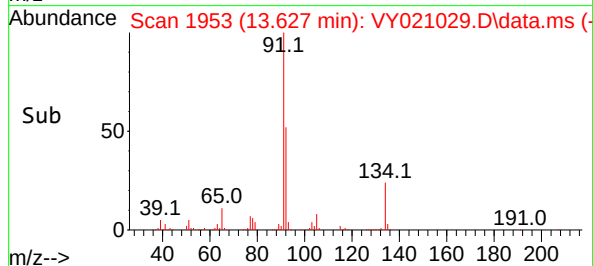
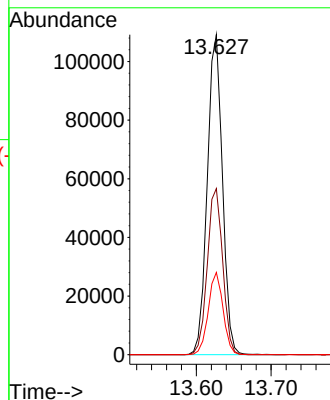
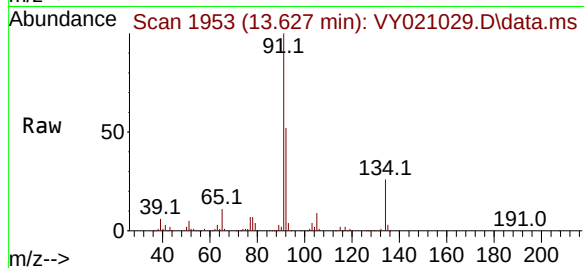
Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:	91	Resp:	153379
Ion Ratio	Lower	Upper	
91	100		
92	52.8	26.4	79.2
134	25.2	12.3	36.8

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#90

Hexachloroethane

Concen: 18.561 ug/l

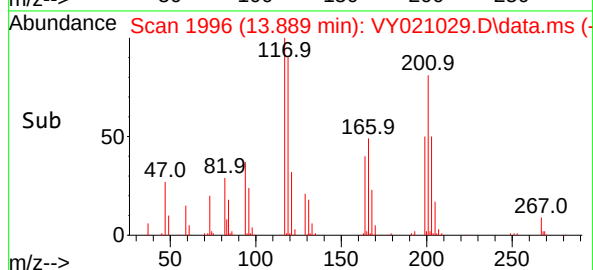
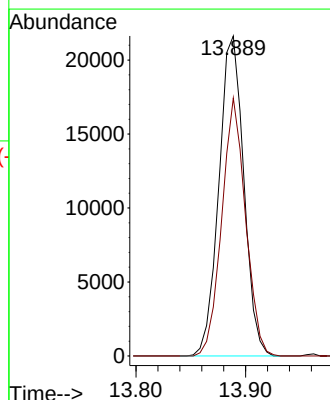
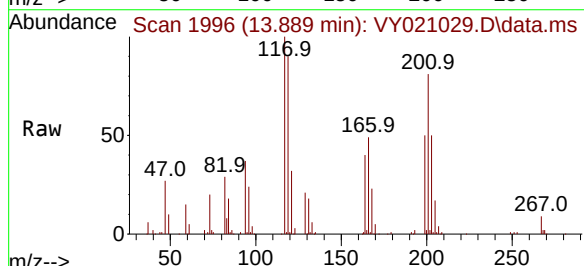
RT: 13.889 min Scan# 1996

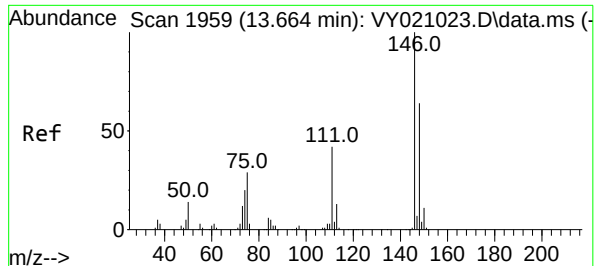
Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion:	117	Resp:	34059
Ion Ratio	Lower	Upper	
117	100		
201	77.0	33.4	100.1





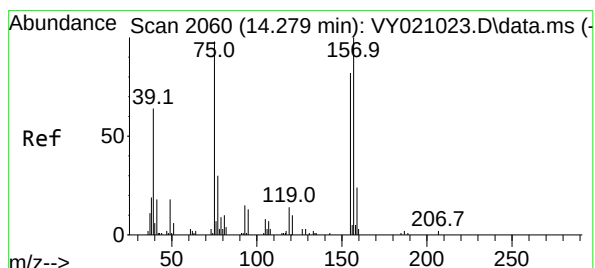
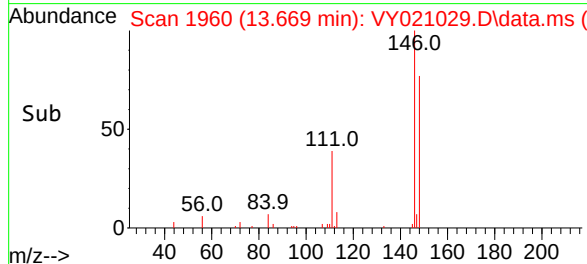
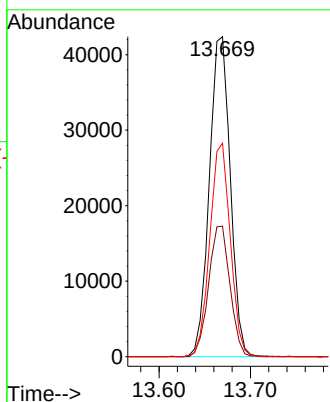
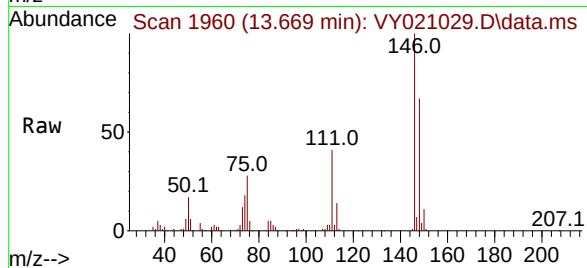
#91
1,2-Dichlorobenzene
Concen: 17.490 ug/l
RT: 13.669 min Scan# 1959
Delta R.T. 0.006 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Tgt Ion:146 Resp: 67510
Ion Ratio Lower Upper
146 100
111 41.6 20.5 61.6
148 65.1 31.4 94.3

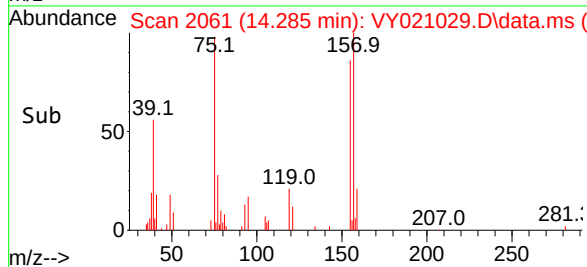
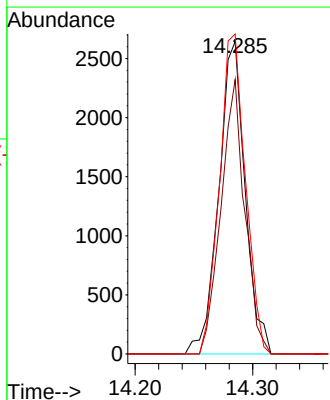
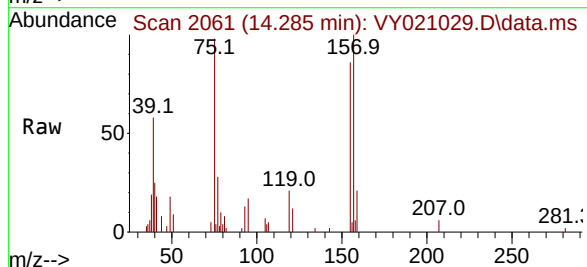
Manual Integrations
APPROVED

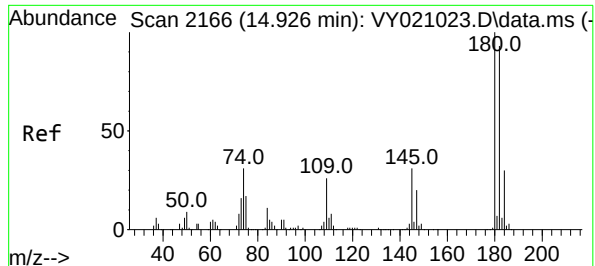
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 16.644 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY021029.D
Acq: 03 Feb 2025 14:55

Tgt Ion: 75 Resp: 4129
Ion Ratio Lower Upper
75 100
155 79.4 42.1 126.3
157 100.8 55.8 167.4





#93

1,2,4-Trichlorobenzene

Concen: 17.455 ug/l

RT: 14.931 min Scan# 2166

Delta R.T. 0.006 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

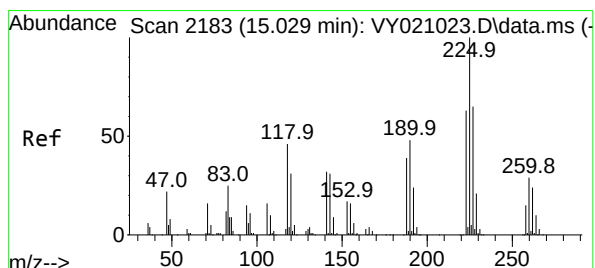
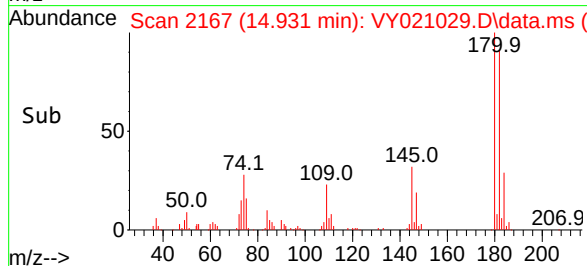
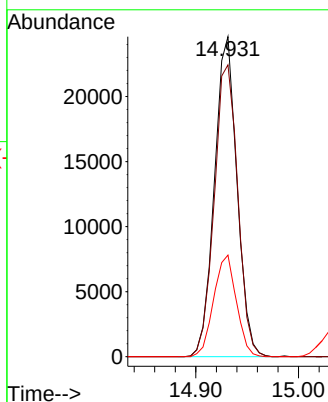
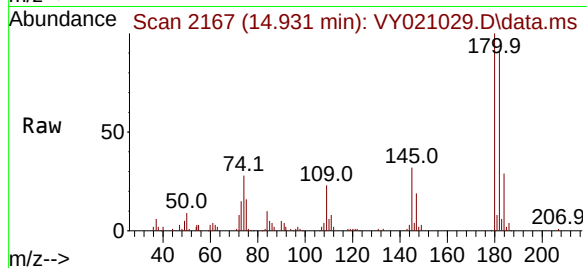
Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:	180	Resp:	3750
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.9	143.7
145	31.8	15.9	47.7

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#94

Hexachlorobutadiene

Concen: 18.919 ug/l

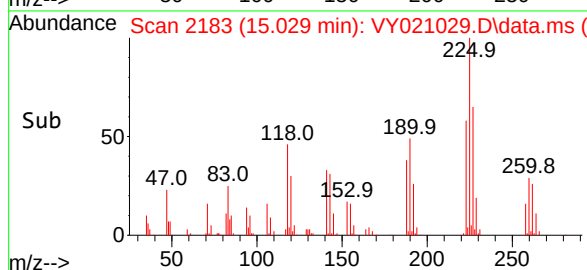
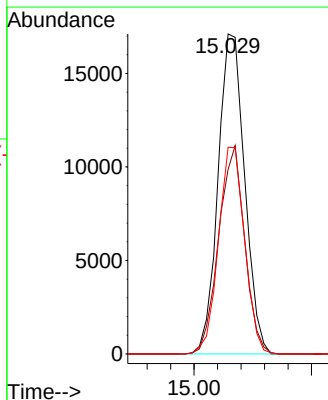
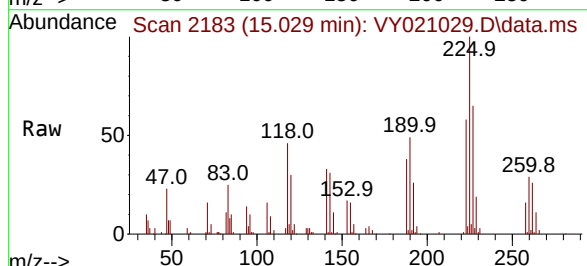
RT: 15.029 min Scan# 2183

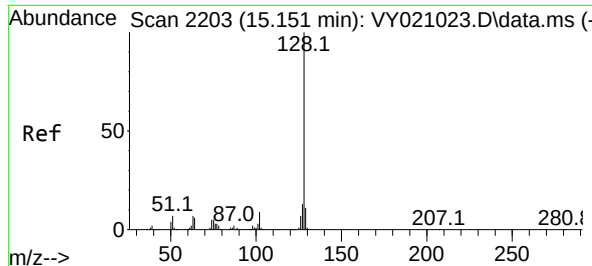
Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion:	225	Resp:	26939
Ion Ratio	Lower	Upper	
225	100		
223	63.3	31.4	94.3
227	63.4	32.3	96.8





#95

Naphthalene

Concen: 15.865 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

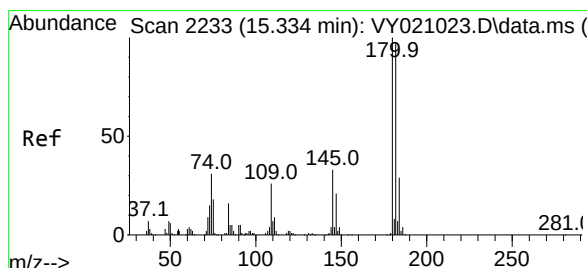
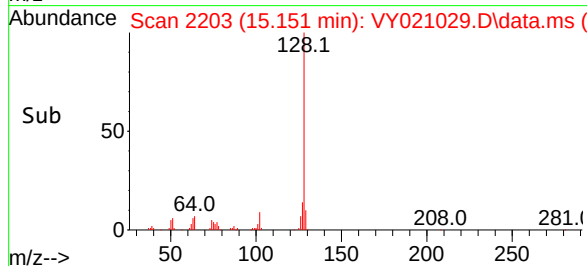
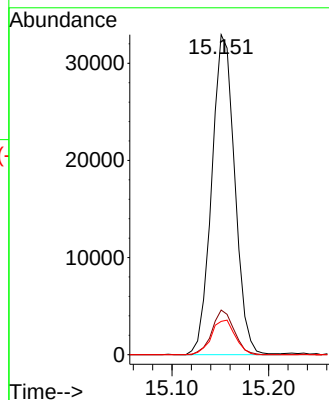
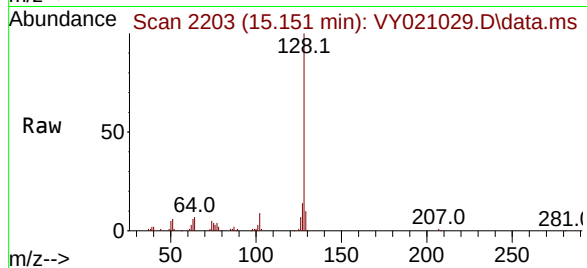
VY0203SBS01

Tgt Ion:128	Resp:	54539
Ion Ratio	Lower	Upper
128	100	
127	13.4	10.2 15.4
129	11.2	8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025



#96

1,2,3-Trichlorobenzene

Concen: 17.280 ug/l

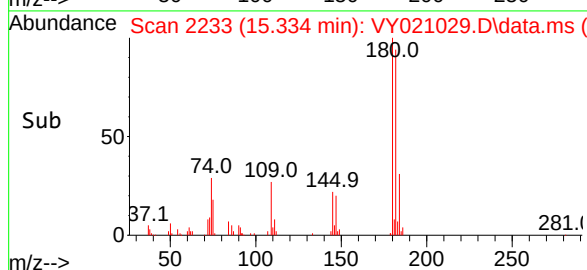
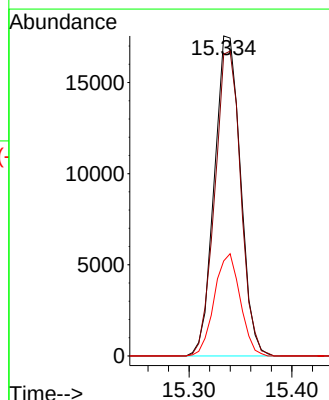
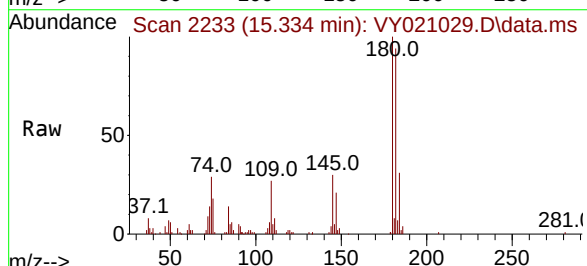
RT: 15.334 min Scan# 2233

Delta R.T. -0.000 min

Lab File: VY021029.D

Acq: 03 Feb 2025 14:55

Tgt Ion:180	Resp:	30900
Ion Ratio	Lower	Upper
180	100	
182	94.9	46.3 138.8
145	31.7	16.1 48.2



Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	
Client Sample ID:	VY0204SBS01		SDG No.:	Q1207
Lab Sample ID:	VY0204SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021048.D	1		02/04/25 10:52	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.1		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.9		0.77	5.00	ug/Kg
74-83-9	Bromomethane	17.8		1.00	5.00	ug/Kg
75-00-3	Chloroethane	17.7		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.1		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	18.9		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	97.5		15.6	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	18.1		0.78	5.00	ug/Kg
67-64-1	Acetone	95.3		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.7		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	17.8		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.0		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.3		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	92.2		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	18.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.3		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	18.5		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	18.9		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.4		0.87	5.00	ug/Kg
71-43-2	Benzene	18.5		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	18.1		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	18.6		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.4		4.40	25.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC			Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR			Date Received:	
Client Sample ID:	VY0204SBS01			SDG No.:	Q1207
Lab Sample ID:	VY0204SBS01			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021048.D	1		02/04/25 10:52	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	18.9		0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	18.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	18.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	18.4		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	90.8		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.3		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	17.8		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	18.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.7		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	37.8		1.40	10.0	ug/Kg
95-47-6	o-Xylene	18.6		0.70	5.00	ug/Kg
100-42-5	Styrene	18.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	18.6		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	17.7		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	17.4		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.9		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.2		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	16.3		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.3		50 - 163	89%	SPK: 50
1868-53-7	Dibromofluoromethane	44.6		54 - 147	89%	SPK: 50
2037-26-5	Toluene-d8	45.4		58 - 134	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		29 - 146	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.707			
540-36-3	1,4-Difluorobenzene	247000	8.616			
3114-55-4	Chlorobenzene-d5	212000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	109000	13.353			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0204SBS01	SDG No.:	Q1207
Lab Sample ID:	VY0204SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021048.D	1		02/04/25 10:52	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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_Y\Data\VY020425\
 Data File : VY021048.D
 Acq On : 04 Feb 2025 10:52
 Operator : SY/MD
 Sample : VY0204SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0204SBS01

Quant Time: Feb 05 00:43:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	159738	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	247448	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	212473	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	108974	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	72541	44.323	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	88.640%
35) Dibromofluoromethane	7.634	113	70720	44.595	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	89.200%
50) Toluene-d8	10.109	98	273816	45.354	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	90.700%
62) 4-Bromofluorobenzene	12.408	95	88811	45.028	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	90.060%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	26561	18.656	ug/l	95
3) Chloromethane	2.074	50	25456	18.120	ug/l	100
4) Vinyl Chloride	2.208	62	25348	17.926	ug/l	96
5) Bromomethane	2.592	94	15527	17.766	ug/l	93
6) Chloroethane	2.739	64	14918	17.722	ug/l	100
7) Trichlorofluoromethane	3.062	101	46635	18.102	ug/l	99
8) Diethyl Ether	3.458	74	14027	17.442	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	30481	18.852	ug/l	96
10) Methyl Iodide	4.007	142	29675	16.520	ug/l	94
11) Tert butyl alcohol	4.860	59	10816	97.522	ug/l	100
12) 1,1-Dichloroethene	3.793	96	27509	18.062	ug/l	91
13) Acrolein	3.653	56	15521	90.880	ug/l	95
14) Allyl chloride	4.385	41	46739	18.208	ug/l	94
15) Acrylonitrile	5.061	53	29778	88.918	ug/l	96
16) Acetone	3.867	43	24331	95.329	ug/l	94
17) Carbon Disulfide	4.104	76	84527	17.699	ug/l	99
18) Methyl Acetate	4.391	43	16098	17.967	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	68589	17.817	ug/l	100
20) Methylene Chloride	4.616	84	28978	18.264	ug/l	89
21) trans-1,2-Dichloroethene	5.116	96	30051	17.925	ug/l	90
22) Diisopropyl ether	6.019	45	99002	18.712	ug/l	97
23) Vinyl Acetate	5.964	43	269489	91.368	ug/l	98
24) 1,1-Dichloroethane	5.915	63	57777	18.638	ug/l	99
25) 2-Butanone	6.897	43	38689	92.245	ug/l	95
26) 2,2-Dichloropropane	6.884	77	53805	18.759	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	35371	18.330	ug/l	94
28) Bromochloromethane	7.250	49	24400	19.906	ug/l	98
29) Tetrahydrofuran	7.262	42	25992	91.585	ug/l	94
30) Chloroform	7.421	83	58868	18.488	ug/l	98
31) Cyclohexane	7.701	56	51555	18.469	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	55929	18.893	ug/l	100
36) 1,1-Dichloropropene	7.835	75	43422	18.486	ug/l	100
37) Ethyl Acetate	6.982	43	16787	16.291	ug/l	96
38) Carbon Tetrachloride	7.823	117	51669	18.826	ug/l	99
39) Methylcyclohexane	9.110	83	52772	18.368	ug/l	97
40) Benzene	8.085	78	127737	18.531	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
 Data File : VY021048.D
 Acq On : 04 Feb 2025 10:52
 Operator : SY/MD
 Sample : VY0204SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0204SBS01

Quant Time: Feb 05 00:43:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	8975	15.055	ug/l #	94
42) 1,2-Dichloroethane	8.159	62	34662	18.127	ug/l	98
43) Isopropyl Acetate	8.201	43	36132	17.647	ug/l #	86
44) Trichloroethene	8.866	130	33112	18.593	ug/l	95
45) 1,2-Dichloropropane	9.146	63	31191	19.064	ug/l	98
46) Dibromomethane	9.231	93	16797	18.543	ug/l	96
47) Bromodichloromethane	9.427	83	45261	18.630	ug/l	97
48) Methyl methacrylate	9.225	41	17256	18.502	ug/l	92
49) 1,4-Dioxane	9.231	88	3076	364.763	ug/l #	85
51) 4-Methyl-2-Pentanone	10.000	43	95113	92.378	ug/l	96
52) Toluene	10.170	92	81634	18.861	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	39796	18.243	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	48033	18.596	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	21600	18.414	ug/l	94
56) Ethyl methacrylate	10.445	69	27381	17.448	ug/l	89
57) 1,3-Dichloropropane	10.719	76	37450	18.445	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	65192	87.322	ug/l	100
59) 2-Hexanone	10.762	43	60223	90.844	ug/l	95
60) Dibromochloromethane	10.914	129	30226	18.348	ug/l	99
61) 1,2-Dibromoethane	11.018	107	19558	17.800	ug/l	98
64) Tetrachloroethene	10.652	164	29844	18.921	ug/l	96
65) Chlorobenzene	11.445	112	88014	18.603	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	31439	18.699	ug/l	98
67) Ethyl Benzene	11.524	91	156761	18.733	ug/l	100
68) m/p-Xylenes	11.627	106	118185	37.753	ug/l	97
69) o-Xylene	11.957	106	54195	18.569	ug/l	96
70) Styrene	11.975	104	91611	18.833	ug/l	98
71) Bromoform	12.133	173	17427	18.622	ug/l #	97
73) Isopropylbenzene	12.255	105	150465	17.676	ug/l	100
74) N-amyl acetate	12.072	43	31886	17.133	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.511	83	24702	17.448	ug/l	97
76) 1,2,3-Trichloropropane	12.560	75	16082m	16.269	ug/l	
77) Bromobenzene	12.536	156	34360	17.492	ug/l	92
78) n-propylbenzene	12.597	91	181949	17.943	ug/l	98
79) 2-Chlorotoluene	12.682	91	102699	17.683	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	125980	18.254	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	8631	17.816	ug/l	98
82) 4-Chlorotoluene	12.780	91	106247	17.955	ug/l	100
83) tert-Butylbenzene	12.999	119	110553	17.623	ug/l	96
84) 1,2,4-Trimethylbenzene	13.048	105	124310	18.421	ug/l	98
85) sec-Butylbenzene	13.176	105	162645	18.011	ug/l	97
86) p-Isopropyltoluene	13.292	119	136684	18.222	ug/l	98
87) 1,3-Dichlorobenzene	13.292	146	67765	17.866	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	68413	18.319	ug/l	99
89) n-Butylbenzene	13.621	91	126230	18.446	ug/l	99
90) Hexachloroethane	13.883	117	27935	17.851	ug/l	87
91) 1,2-Dichlorobenzene	13.664	146	59994	18.224	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	3450	16.307	ug/l	97
93) 1,2,4-Trichlorobenzene	14.926	180	33572	18.321	ug/l	96
94) Hexachlorobutadiene	15.029	225	22831	18.801	ug/l	99
95) Naphthalene	15.151	128	49550	16.901	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	27220	17.849	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021048.D
Acq On : 04 Feb 2025 10:52
Operator : SY/MD
Sample : VY0204SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 00:43:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

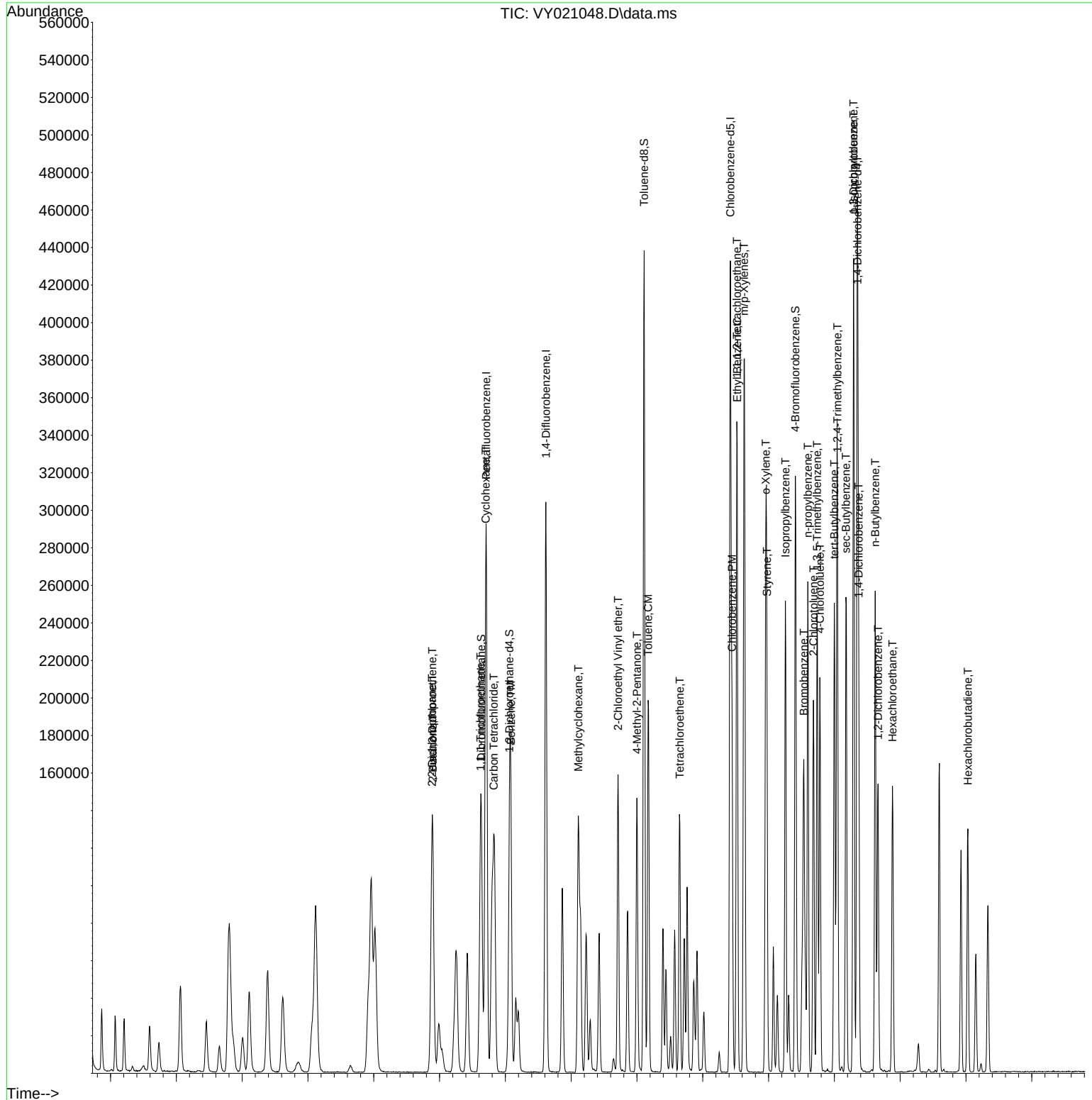
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020425\
Data File : VY021048.D
Acq On : 04 Feb 2025 10:52
Operator : SY/MD
Sample : VY0204SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/soil
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

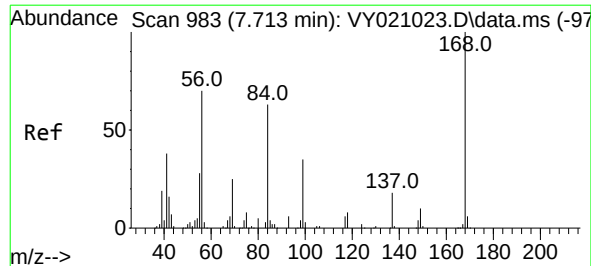
Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 00:43:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration



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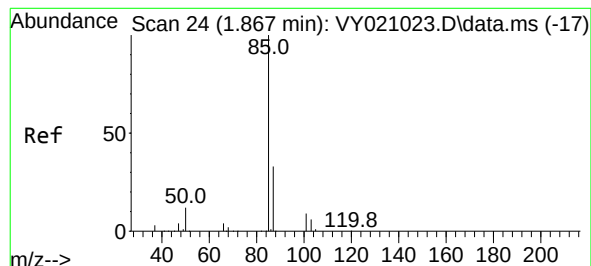
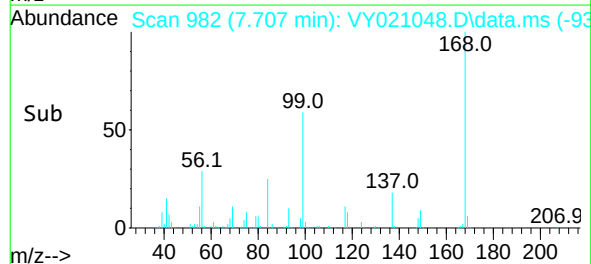
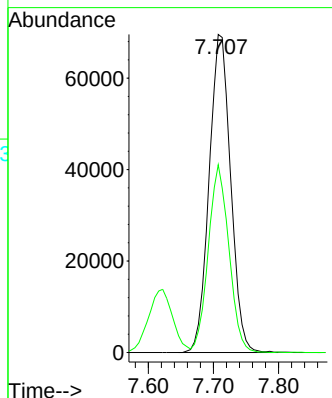
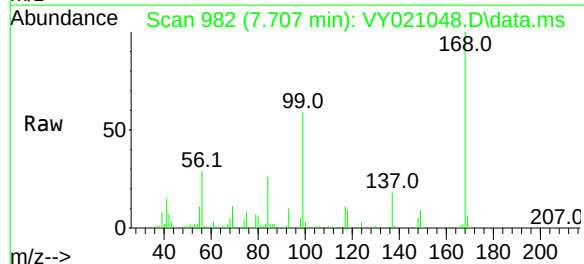
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

Tgt Ion: 168 Resp: 159738
Ion Ratio Lower Upper
168 100
99 58.9 44.2 66.4

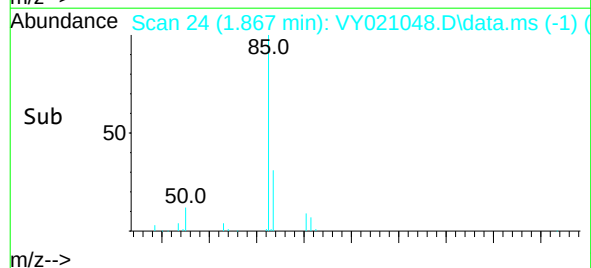
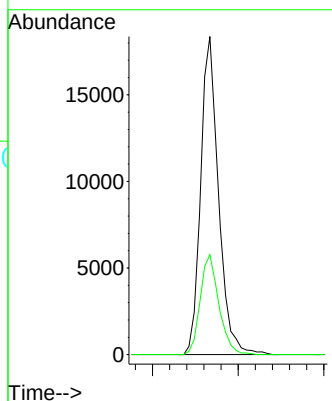
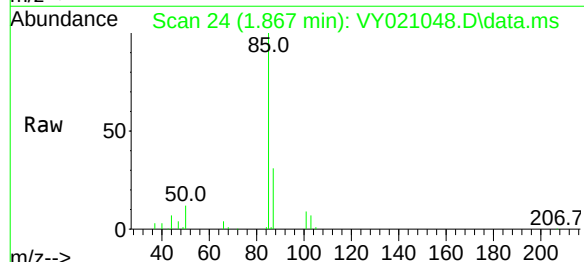
Manual Integrations
APPROVED

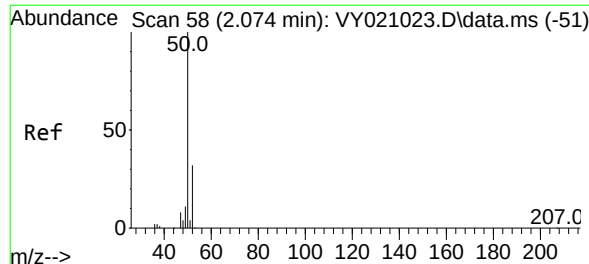
Reviewed By : Romaben Patel 02/05/2025
Supervised By : Mahesh Dadoda 02/06/2025



#2
Dichlorodifluoromethane
Concen: 18.656 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Tgt Ion: 85 Resp: 26561
Ion Ratio Lower Upper
85 100
87 31.4 17.1 51.3





#3

Chloromethane

Concen: 18.120 ug/l

RT: 2.074 min Scan# 58

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 50 Resp: 25456

Ion Ratio Lower Upper

50 100

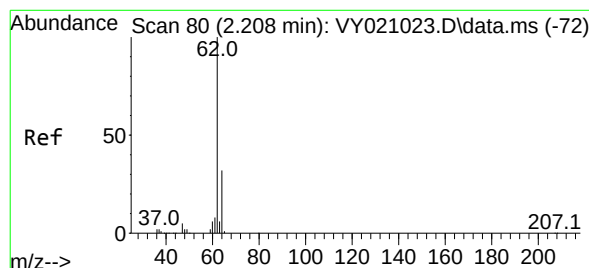
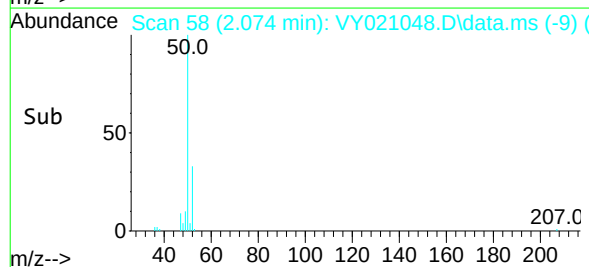
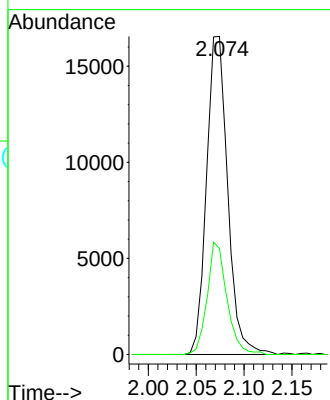
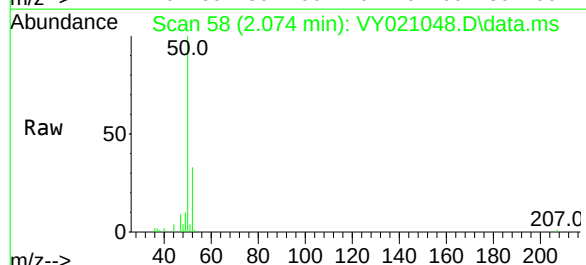
52 33.3 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#4

Vinyl Chloride

Concen: 17.926 ug/l

RT: 2.208 min Scan# 80

Delta R.T. 0.000 min

Lab File: VY021048.D

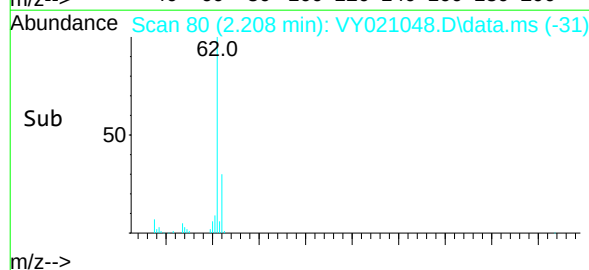
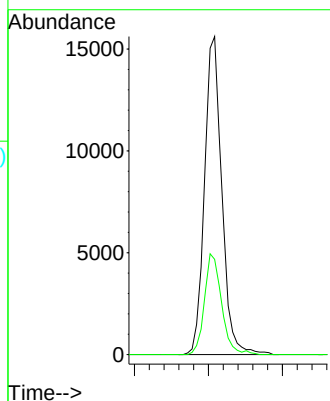
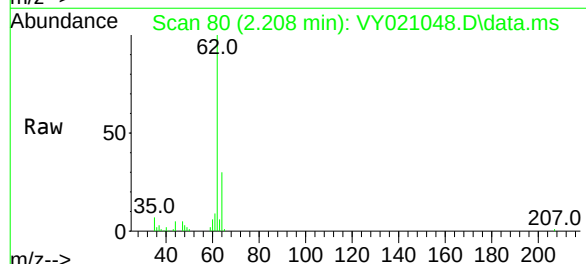
Acq: 04 Feb 2025 10:52

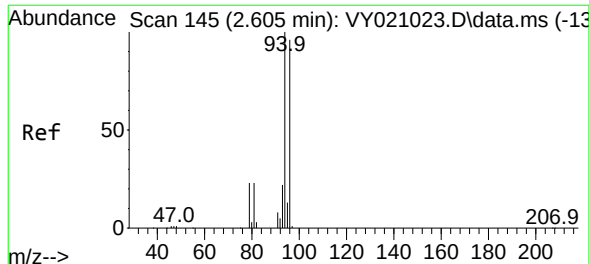
Tgt Ion: 62 Resp: 25348

Ion Ratio Lower Upper

62 100

64 29.9 25.7 38.5





#5

Bromomethane

Concen: 17.766 ug/l

RT: 2.592 min Scan# 145

Delta R.T. -0.012 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 94 Resp: 15527

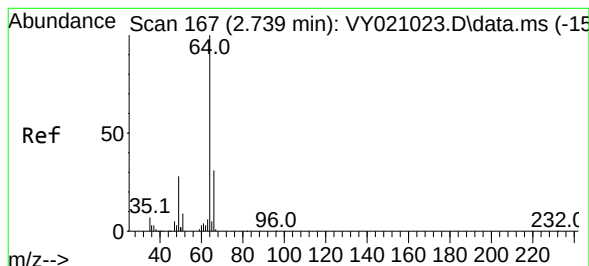
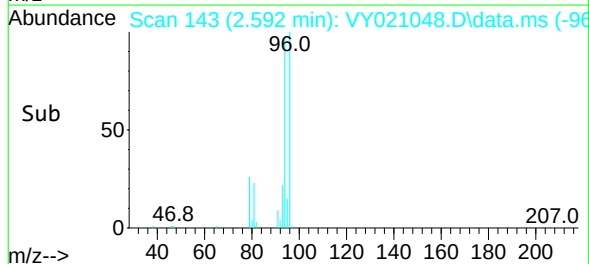
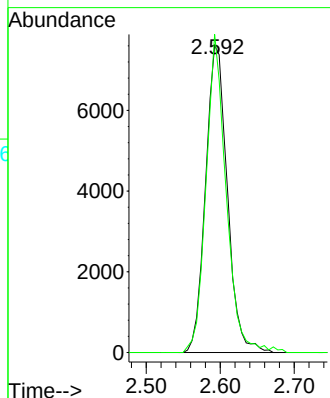
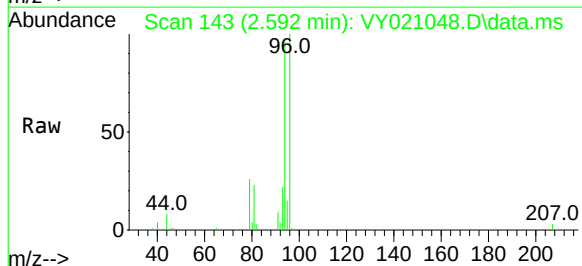
Ion Ratio Lower Upper

94 100

96 103.6 77.3 115.9

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#6

Chloroethane

Concen: 17.722 ug/l

RT: 2.739 min Scan# 167

Delta R.T. 0.000 min

Lab File: VY021048.D

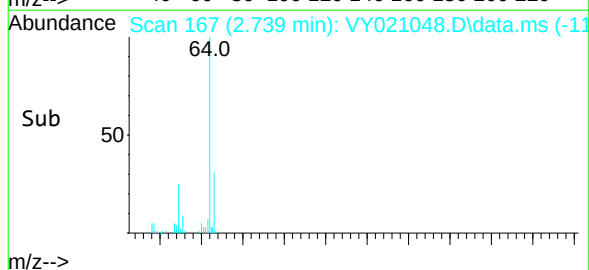
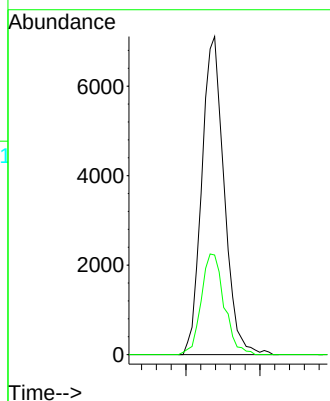
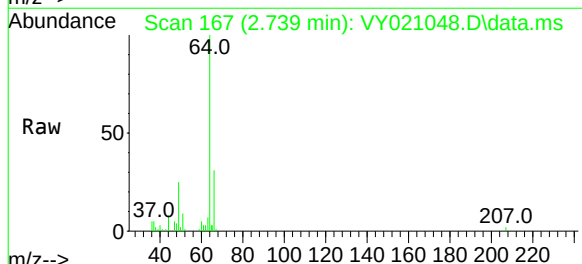
Acq: 04 Feb 2025 10:52

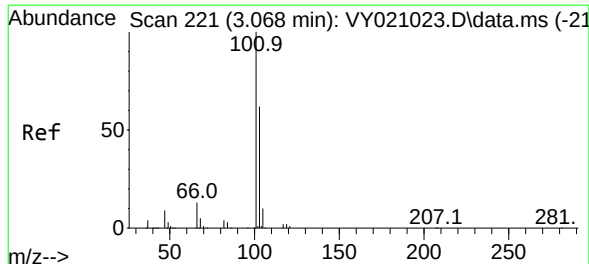
Tgt Ion: 64 Resp: 14918

Ion Ratio Lower Upper

64 100

66 31.3 25.1 37.7





#7

Trichlorofluoromethane

Concen: 18.102 ug/l

RT: 3.062 min Scan# 221

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 101 Resp: 46635

Ion Ratio Lower Upper

101 100

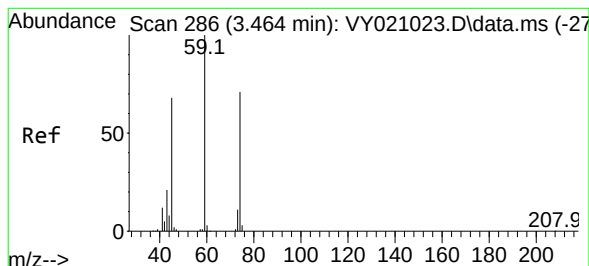
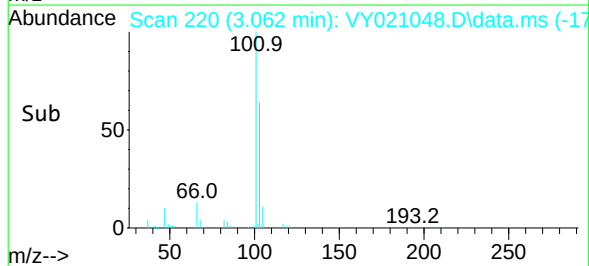
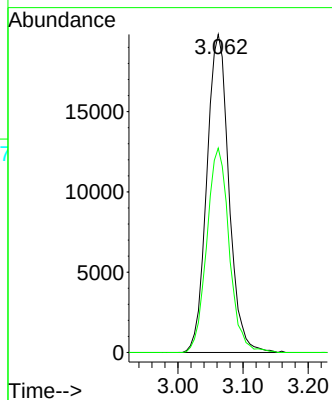
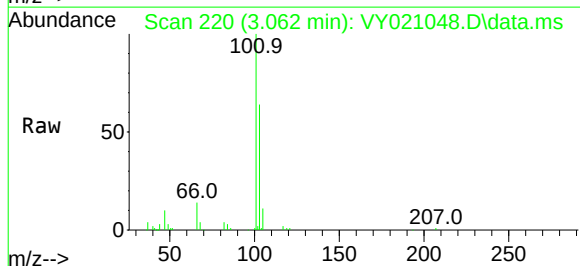
103 64.3 51.9 77.9

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#8

Diethyl Ether

Concen: 17.442 ug/l

RT: 3.458 min Scan# 285

Delta R.T. -0.006 min

Lab File: VY021048.D

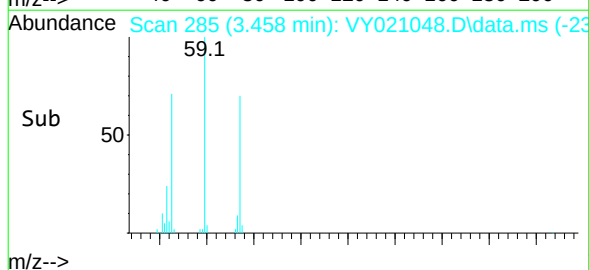
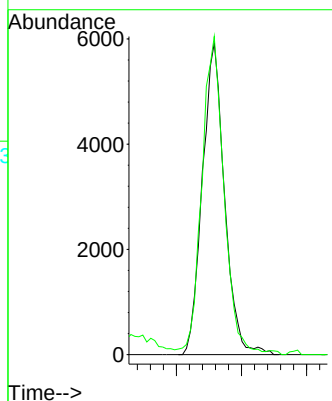
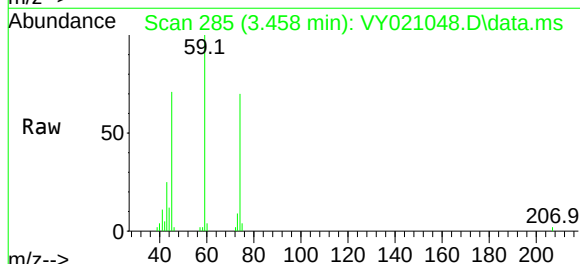
Acq: 04 Feb 2025 10:52

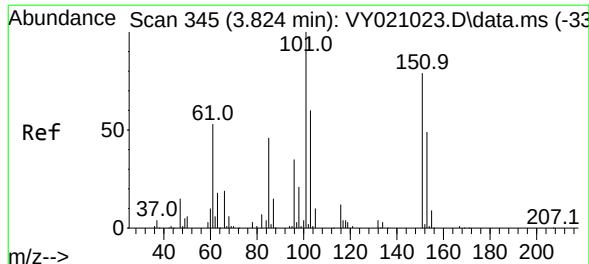
Tgt Ion: 74 Resp: 14027

Ion Ratio Lower Upper

74 100

45 99.6 47.9 143.7





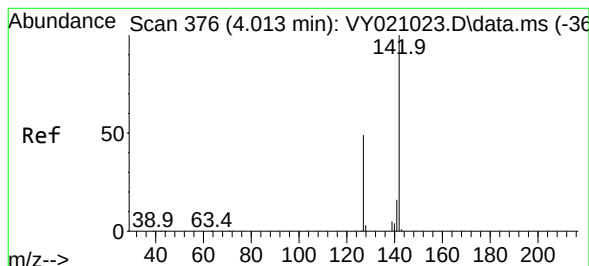
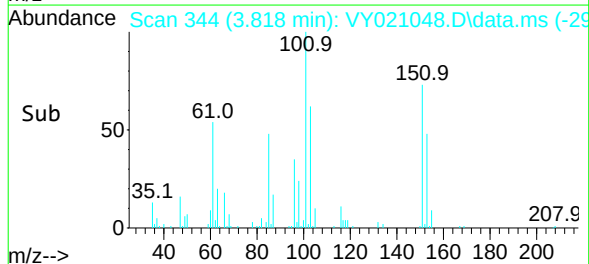
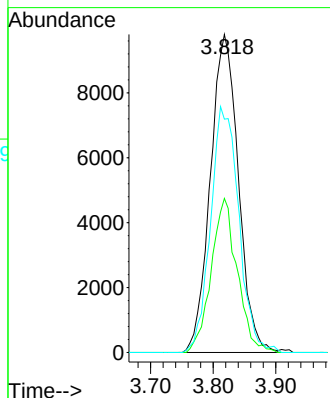
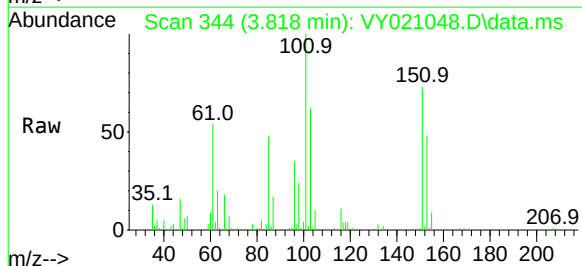
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.852 ug/l
RT: 3.818 min Scan# 345
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

Tgt Ion:101 Resp: 30481
Ion Ratio Lower Upper
101 100
85 45.1 35.8 53.6
151 78.0 58.6 88.0

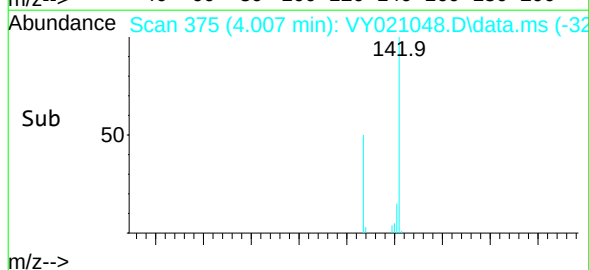
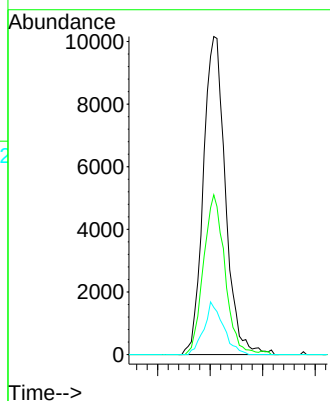
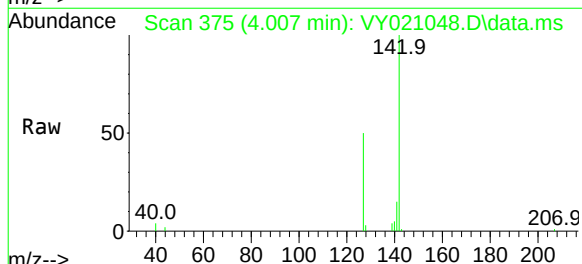
Manual Integrations
APPROVED

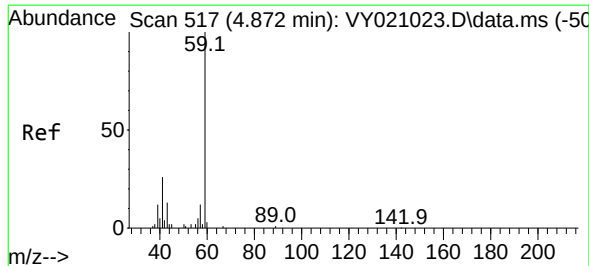
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#10
Methyl Iodide
Concen: 16.520 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Tgt Ion:142 Resp: 29675
Ion Ratio Lower Upper
142 100
127 48.8 35.1 52.7
141 14.6 11.8 17.6





#11

Tert butyl alcohol

Concen: 97.522 ug/l

RT: 4.860 min Scan# 51

Delta R.T. -0.012 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion: 59 Resp: 10816

Ion Ratio Lower Upper

59 100

57 9.2 7.4 11.0

Instrument :

MSVOA_Y

ClientSampleId :

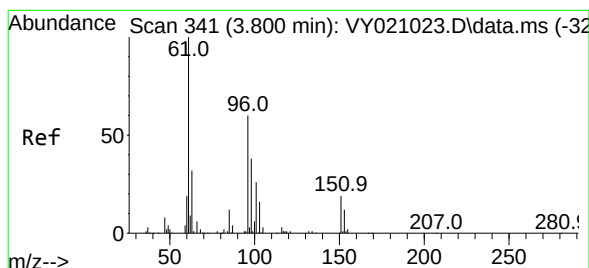
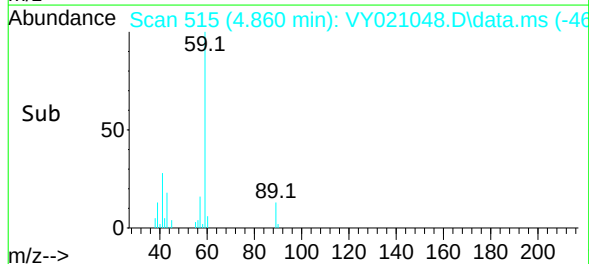
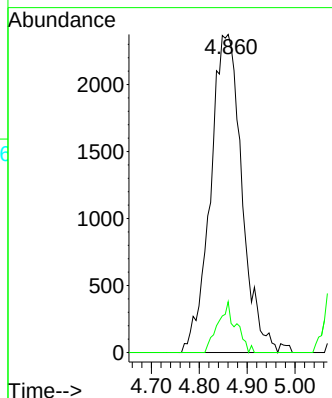
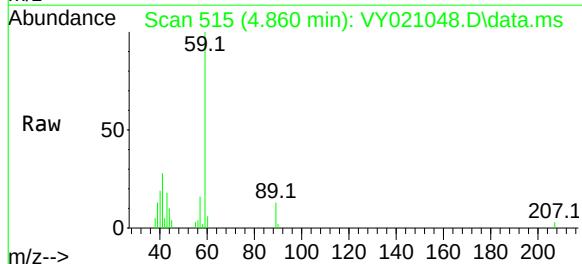
VY0204SBS01

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#12

1,1-Dichloroethene

Concen: 18.062 ug/l

RT: 3.793 min Scan# 340

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

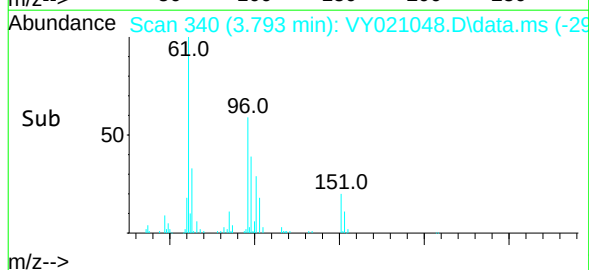
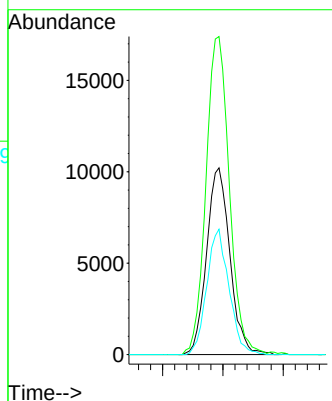
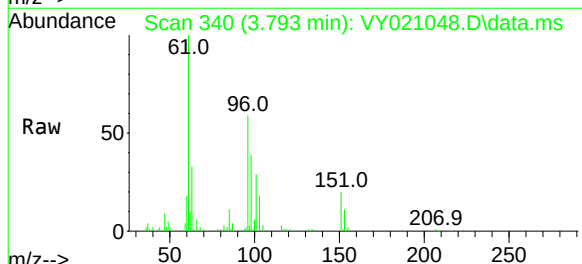
Tgt Ion: 96 Resp: 27509

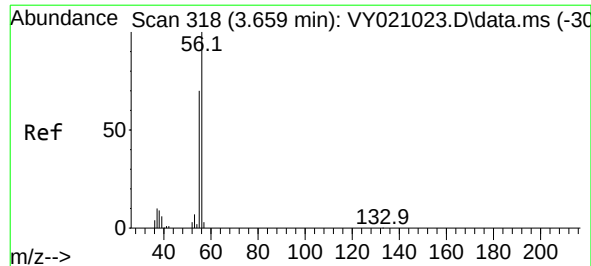
Ion Ratio Lower Upper

96 100

61 170.3 124.2 186.2

98 67.1 52.6 79.0





#13

Acrolein

Concen: 90.880 ug/l

RT: 3.653 min Scan# 31

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 56 Resp: 15521

Ion Ratio Lower Upper

56 100

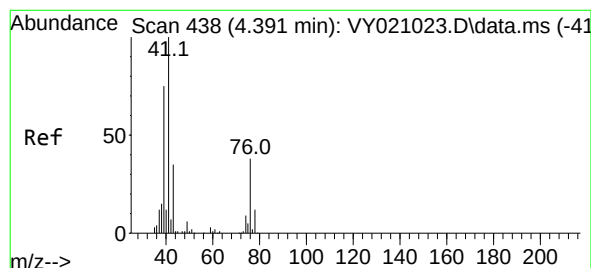
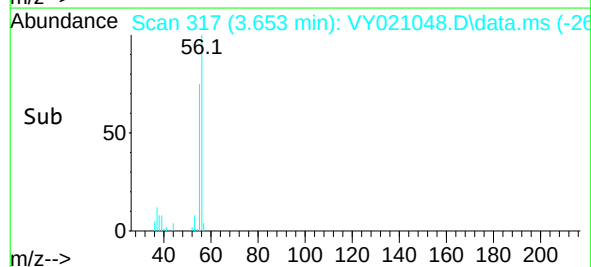
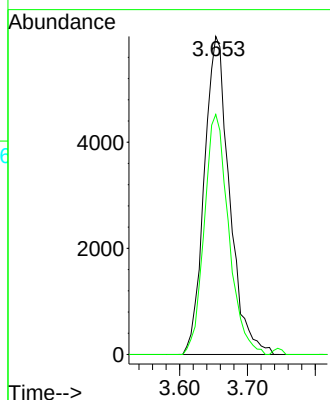
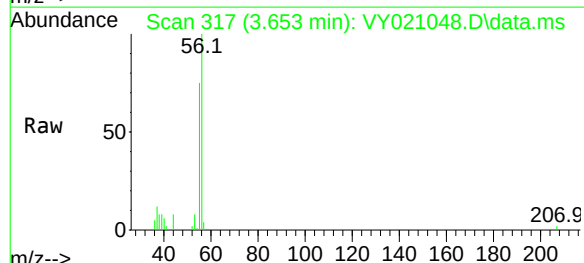
55 73.0 55.4 83.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#14

Allyl chloride

Concen: 18.208 ug/l

RT: 4.385 min Scan# 437

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

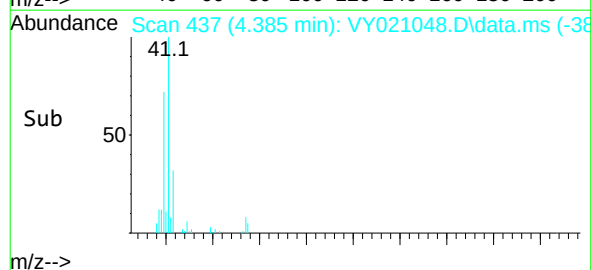
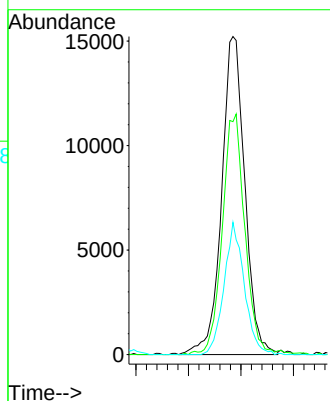
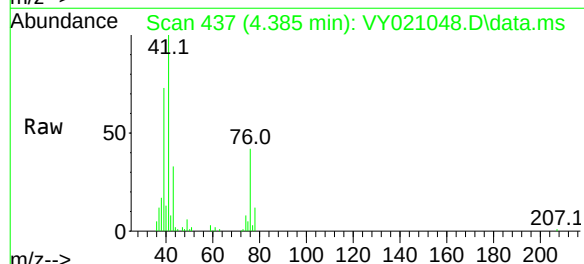
Tgt Ion: 41 Resp: 46739

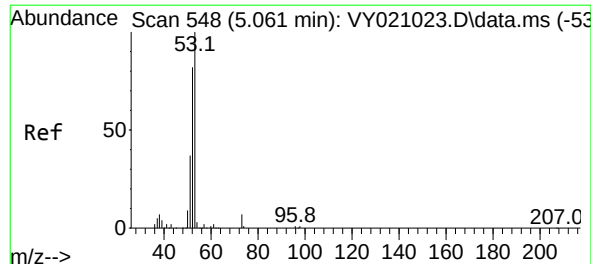
Ion Ratio Lower Upper

41 100

39 73.2 54.7 82.1

76 36.3 31.8 47.6





#15

Acrylonitrile

Concen: 88.918 ug/l

RT: 5.061 min Scan# 548

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 53 Resp: 29778

Ion Ratio Lower Upper

53 100

52 84.3 65.1 97.7

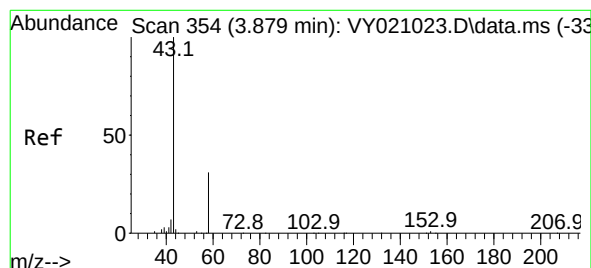
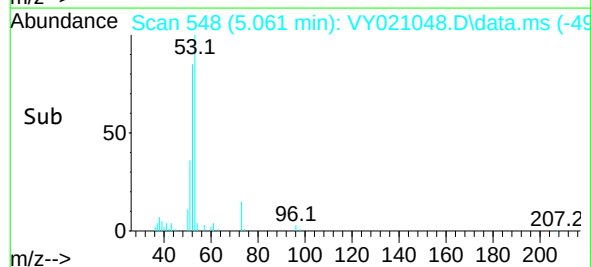
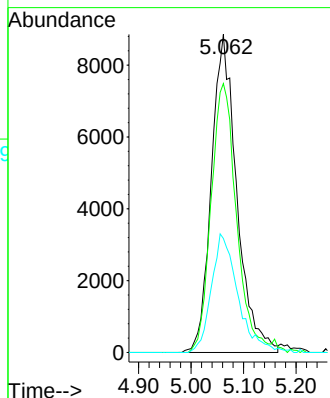
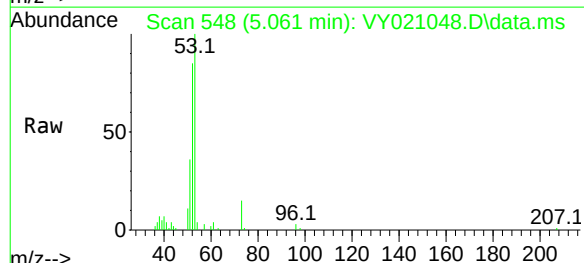
51 39.1 29.0 43.4

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#16

Acetone

Concen: 95.329 ug/l

RT: 3.867 min Scan# 352

Delta R.T. -0.012 min

Lab File: VY021048.D

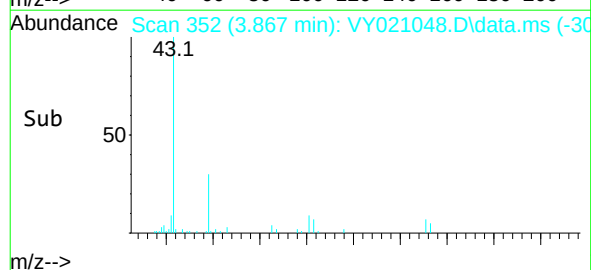
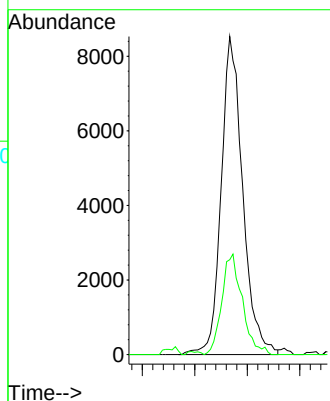
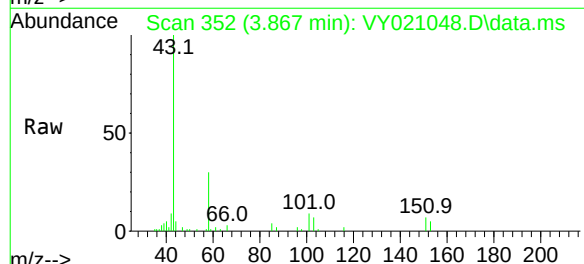
Acq: 04 Feb 2025 10:52

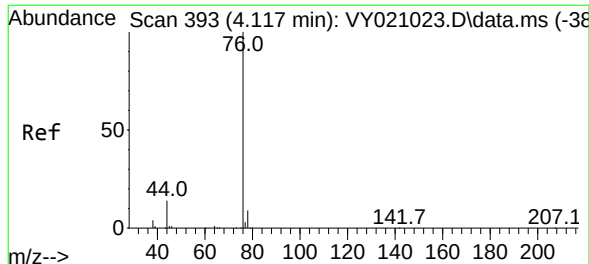
Tgt Ion: 43 Resp: 24331

Ion Ratio Lower Upper

43 100

58 29.8 26.6 39.8





#17

Carbon Disulfide

Concen: 17.699 ug/l

RT: 4.104 min Scan# 39

Delta R.T. -0.012 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 76 Resp: 84527

Ion Ratio Lower Upper

76 100

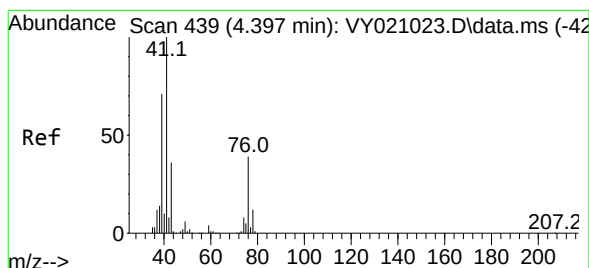
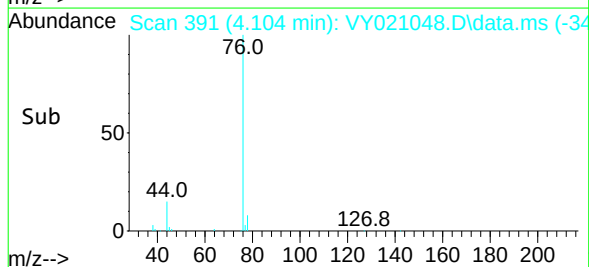
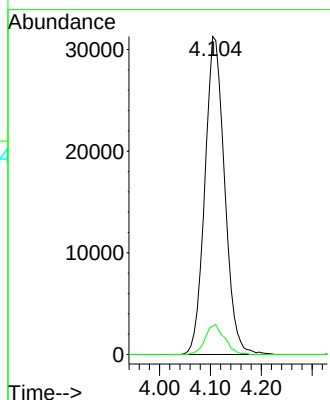
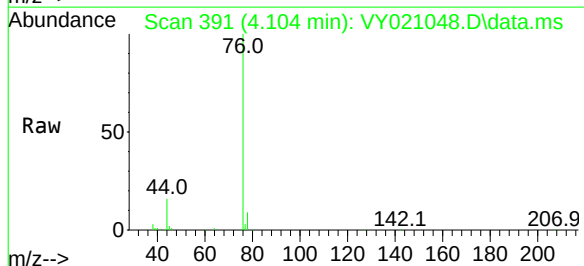
78 8.9 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#18

Methyl Acetate

Concen: 17.967 ug/l

RT: 4.391 min Scan# 438

Delta R.T. -0.006 min

Lab File: VY021048.D

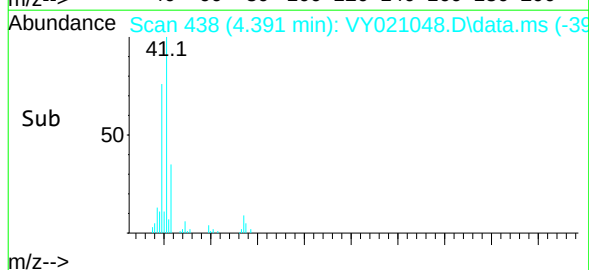
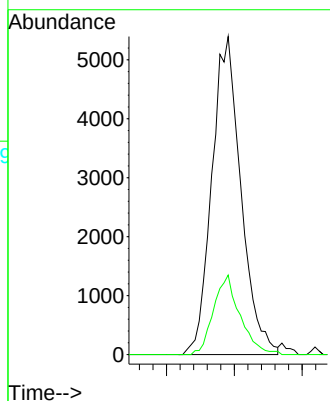
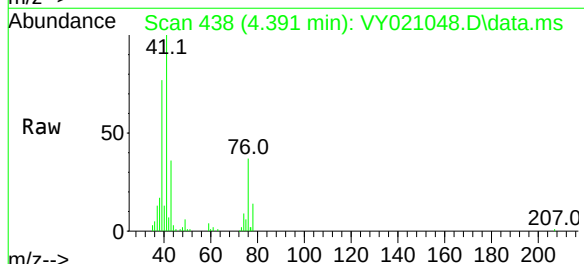
Acq: 04 Feb 2025 10:52

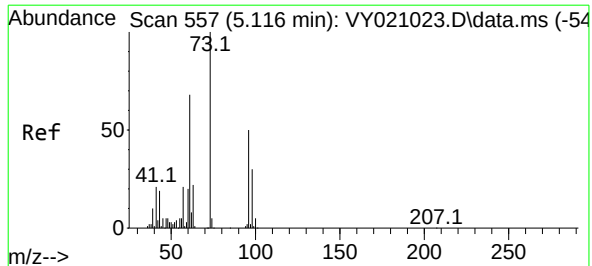
Tgt Ion: 43 Resp: 16098

Ion Ratio Lower Upper

43 100

74 22.8 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 17.817 ug/l

RT: 5.116 min Scan# 557

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 73 Resp: 68589

Ion Ratio Lower Upper

73 100

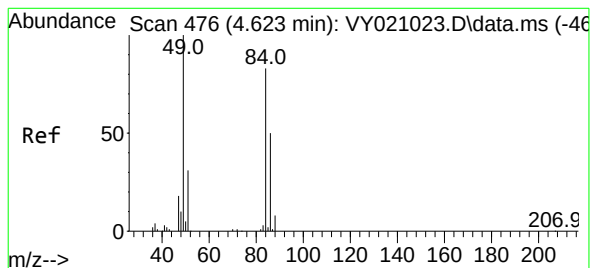
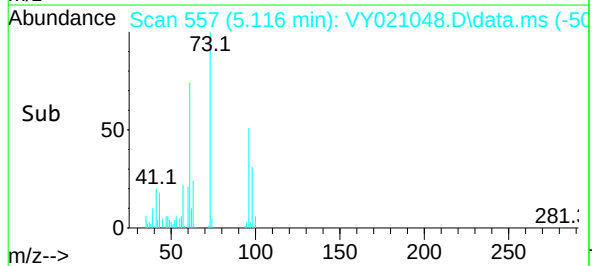
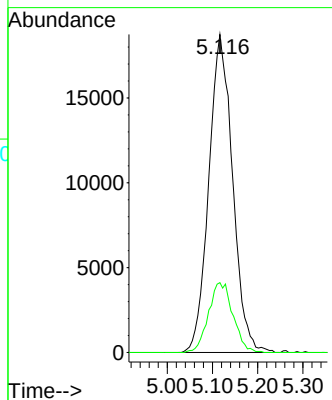
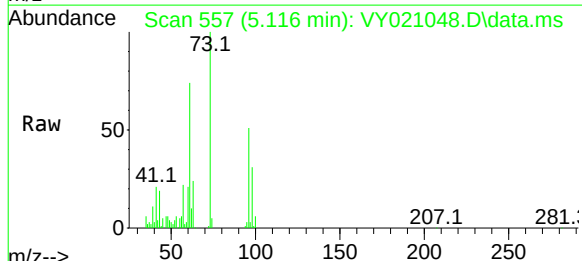
57 22.0 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#20

Methylene Chloride

Concen: 18.264 ug/l

RT: 4.616 min Scan# 475

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion: 84 Resp: 28978

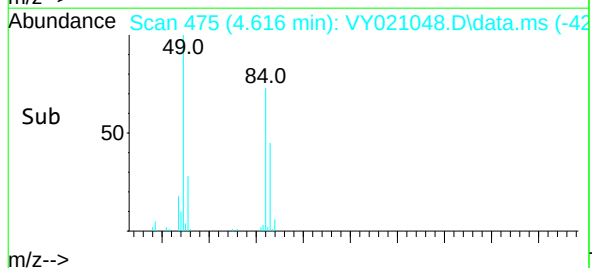
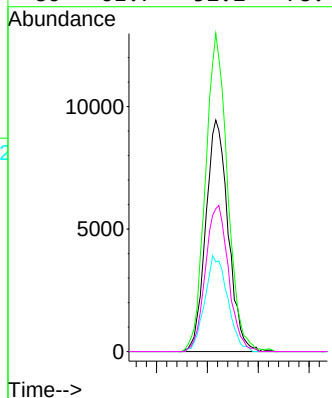
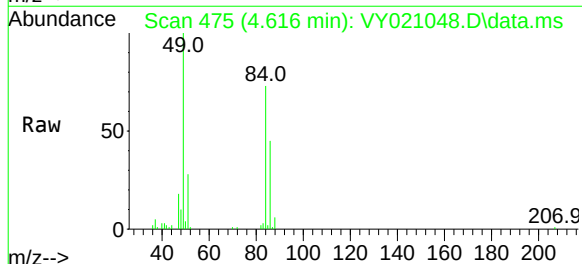
Ion Ratio Lower Upper

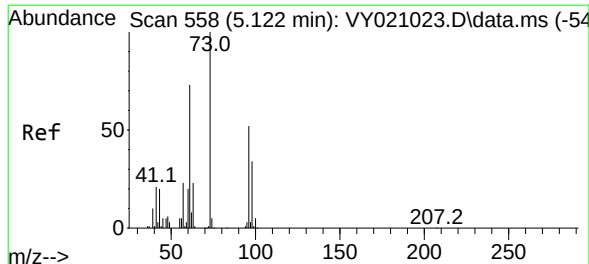
84 100

49 137.3 95.2 142.8

51 38.7 29.9 44.9

86 61.7 52.2 78.4





#21

trans-1,2-Dichloroethene

Concen: 17.925 ug/l

RT: 5.116 min Scan# 558

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 96 Resp: 30051

Ion Ratio Lower Upper

96 100

61 144.5 104.6 156.8

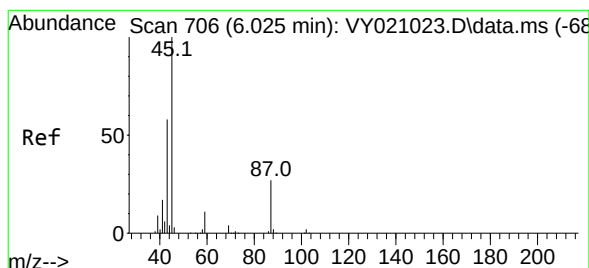
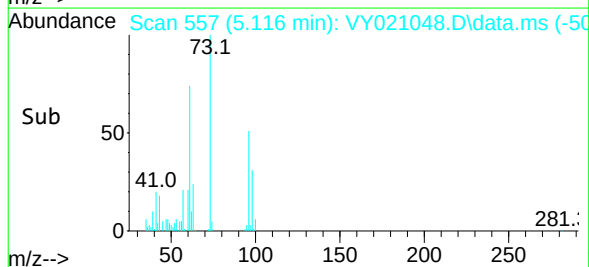
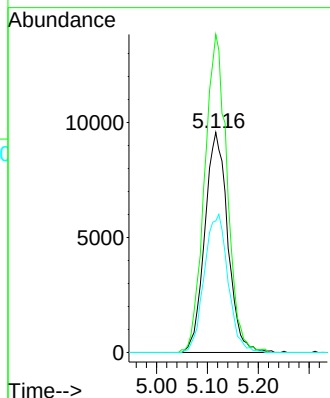
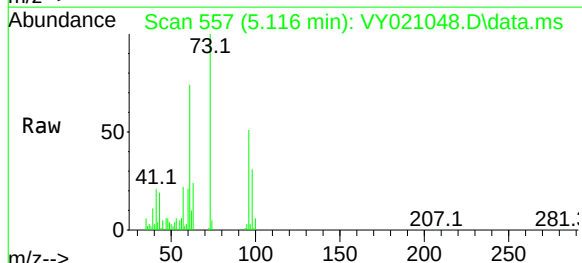
98 59.8 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#22

Diisopropyl ether

Concen: 18.712 ug/l

RT: 6.019 min Scan# 705

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion: 45 Resp: 99002

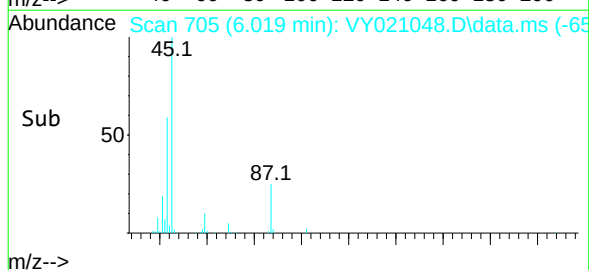
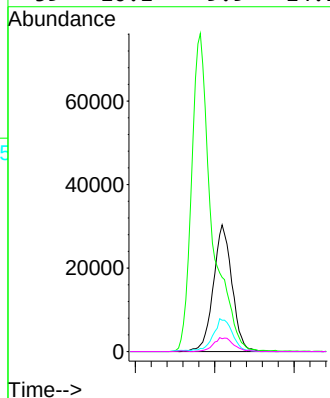
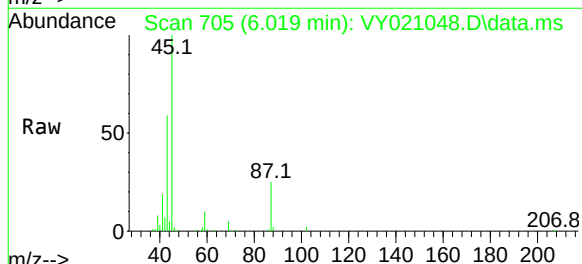
Ion Ratio Lower Upper

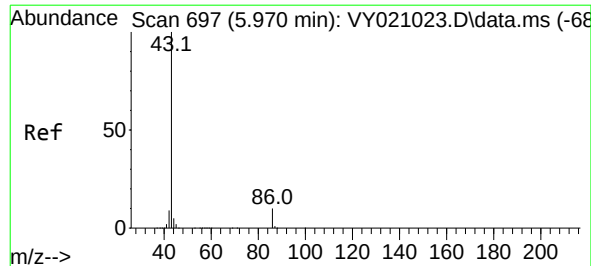
45 100

43 58.1 46.8 70.2

87 24.7 22.2 33.2

59 10.1 9.9 14.9





#23

Vinyl Acetate

Concen: 91.368 ug/l

RT: 5.964 min Scan# 69

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 43 Resp: 269489

Ion Ratio Lower Upper

43 100

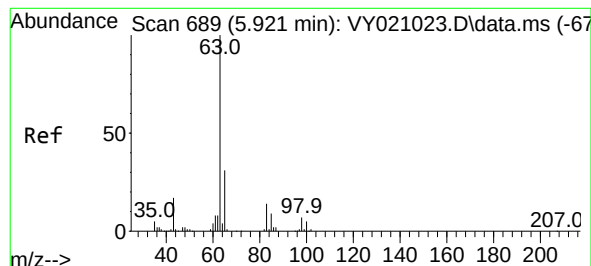
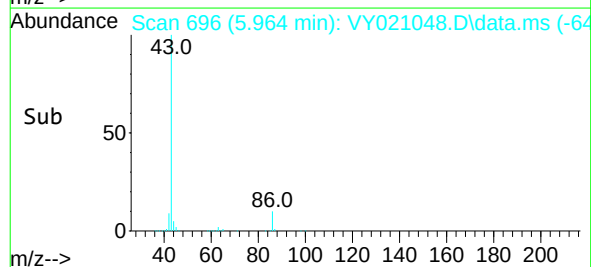
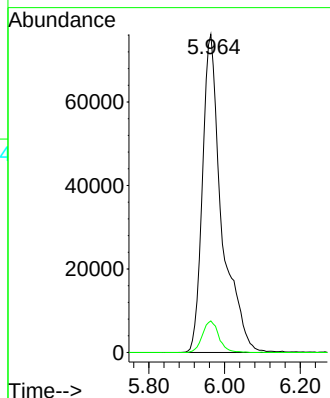
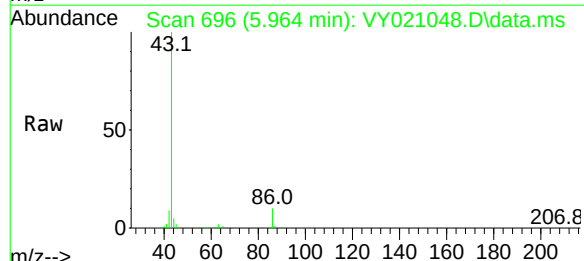
86 9.9 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#24

1,1-Dichloroethane

Concen: 18.638 ug/l

RT: 5.915 min Scan# 688

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

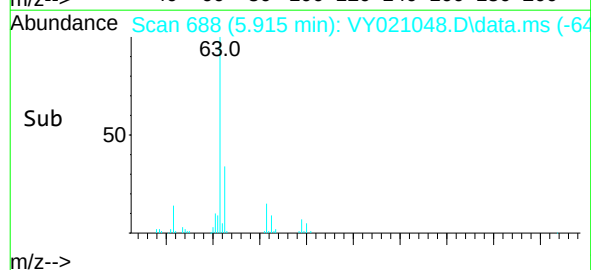
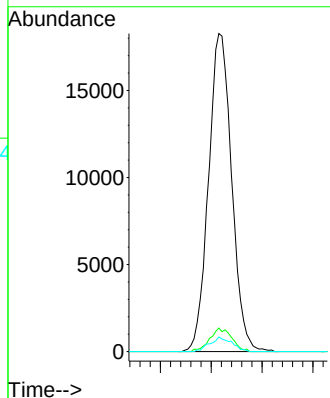
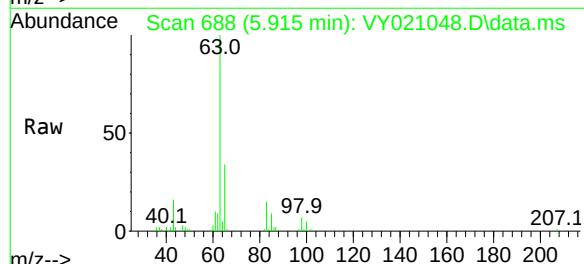
Tgt Ion: 63 Resp: 57777

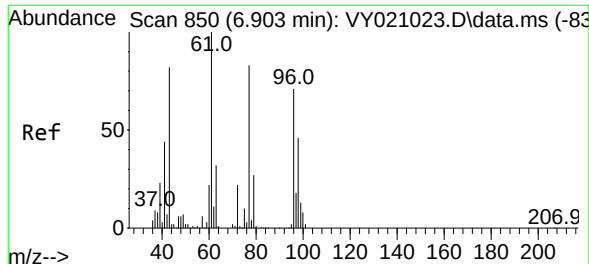
Ion Ratio Lower Upper

63 100

98 7.4 3.8 11.4

100 4.6 2.1 6.2





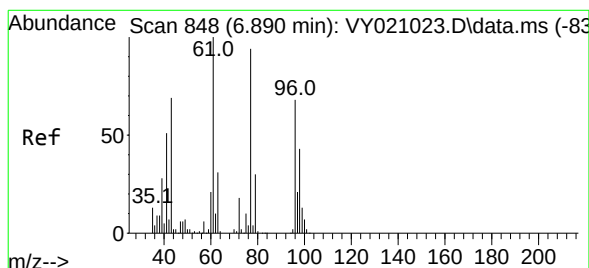
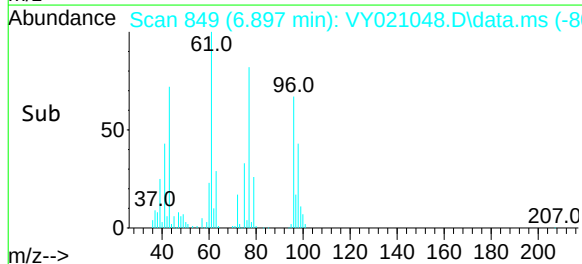
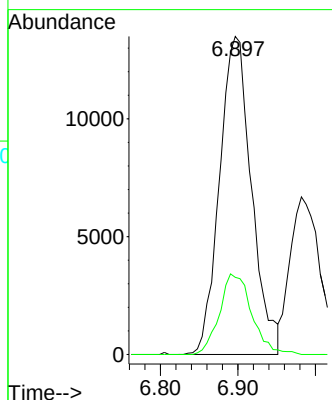
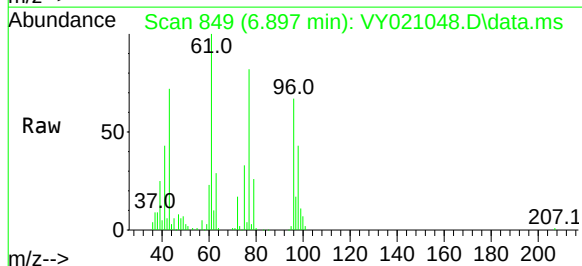
#25
2-Butanone
Concen: 92.245 ug/l
RT: 6.897 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

Tgt Ion: 43 Resp: 38689
Ion Ratio Lower Upper
43 100
72 24.2 21.4 32.2

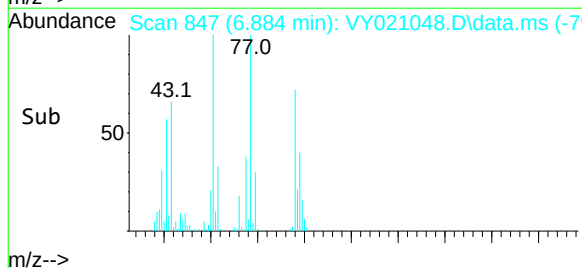
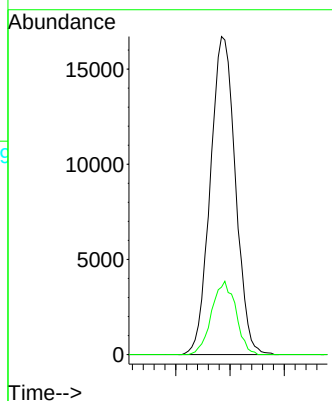
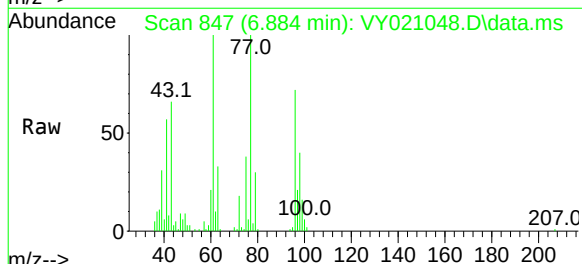
Manual Integrations
APPROVED

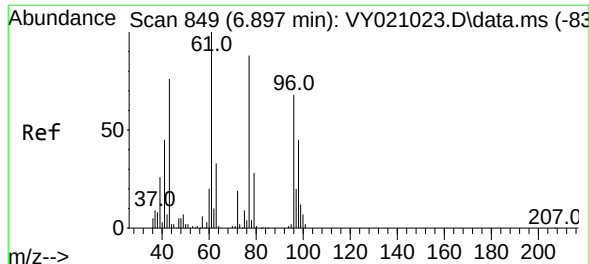
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#26
2,2-Dichloropropane
Concen: 18.759 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Tgt Ion: 77 Resp: 53805
Ion Ratio Lower Upper
77 100
97 22.2 11.7 35.0





#27

cis-1,2-Dichloroethene

Concen: 18.330 ug/l

RT: 6.890 min Scan# 849

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 96 Resp: 35371

Ion Ratio Lower Upper

96 100

61 148.5 0.0 278.8

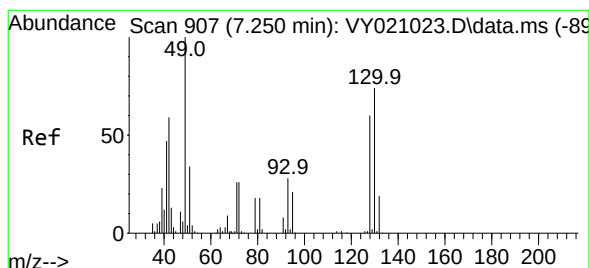
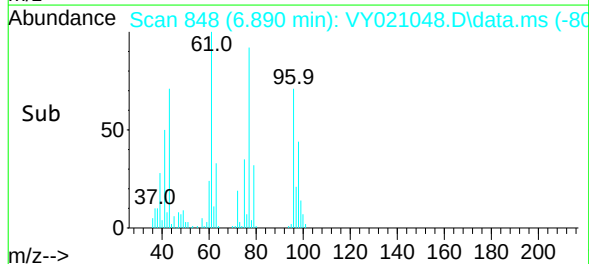
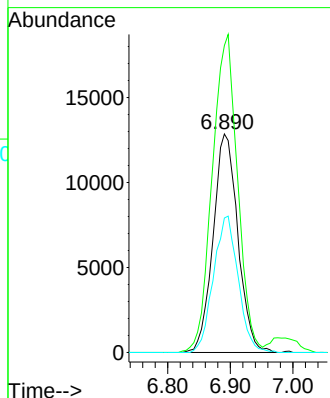
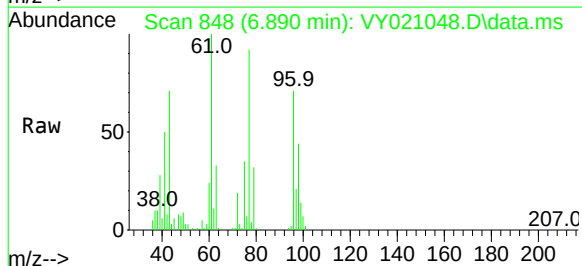
98 62.4 0.0 127.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#28

Bromochloromethane

Concen: 19.906 ug/l

RT: 7.250 min Scan# 907

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

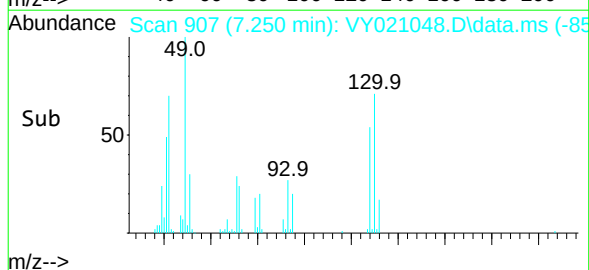
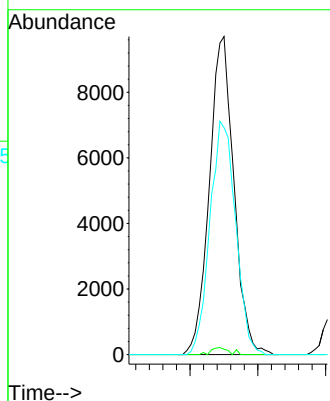
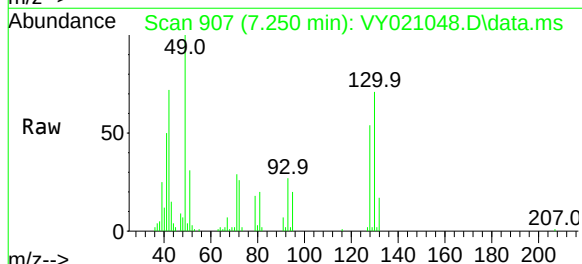
Tgt Ion: 49 Resp: 24400

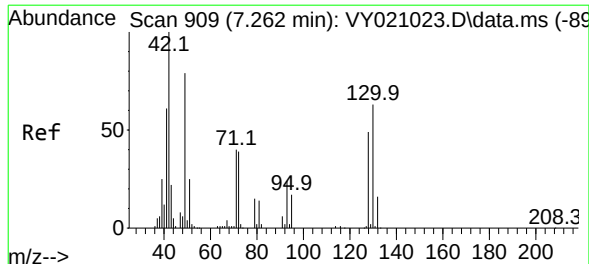
Ion Ratio Lower Upper

49 100

129 1.4 0.0 3.8

130 76.7 59.8 89.8





#29

Tetrahydrofuran

Concen: 91.585 ug/l

RT: 7.262 min Scan# 909

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 42 Resp: 25992

Ion Ratio Lower Upper

42 100

72 40.8 36.6 54.8

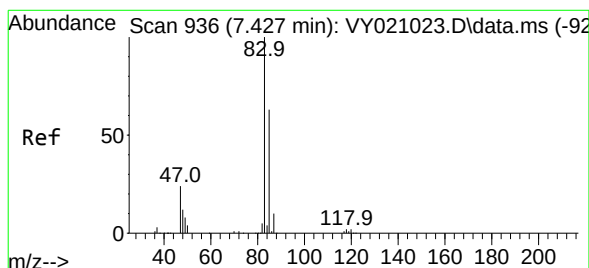
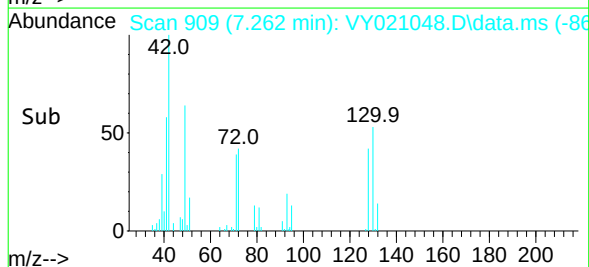
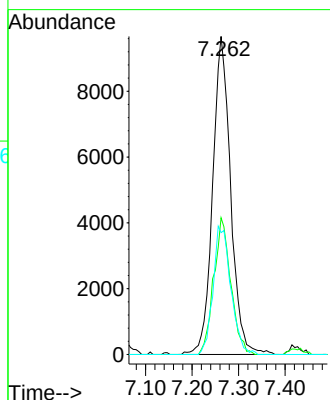
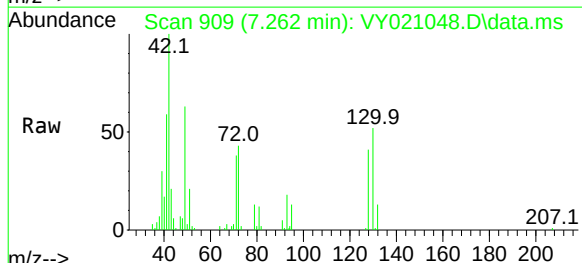
71 39.7 33.8 50.6

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#30

Chloroform

Concen: 18.488 ug/l

RT: 7.421 min Scan# 935

Delta R.T. -0.006 min

Lab File: VY021048.D

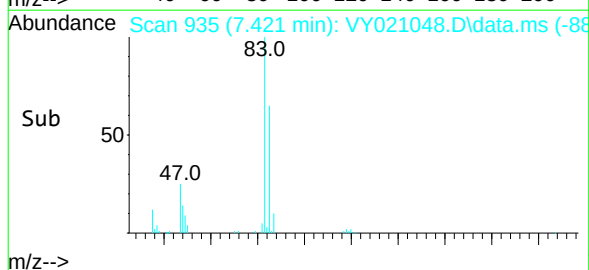
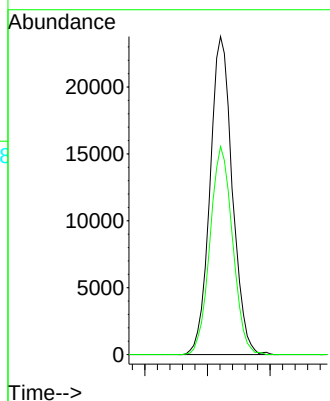
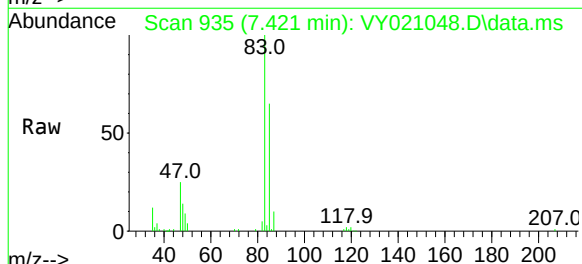
Acq: 04 Feb 2025 10:52

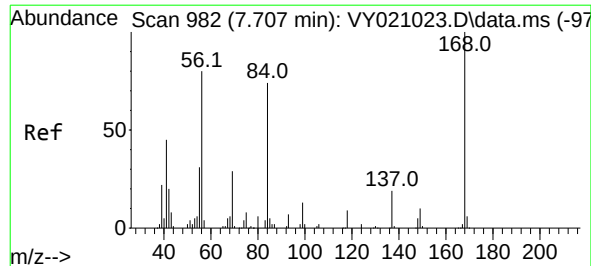
Tgt Ion: 83 Resp: 58868

Ion Ratio Lower Upper

83 100

85 65.4 51.2 76.8





#31

Cyclohexane

Concen: 18.469 ug/l

RT: 7.701 min Scan# 982

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 56 Resp: 51555

Ion Ratio Lower Upper

56 100

69 36.0 27.0 40.6

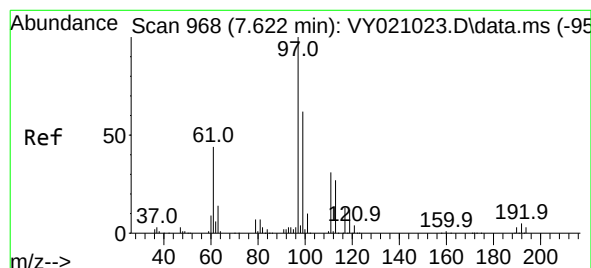
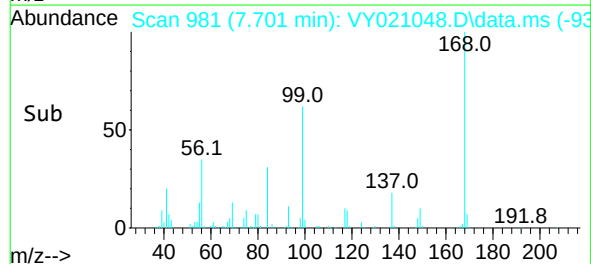
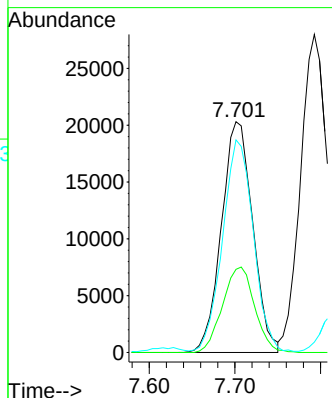
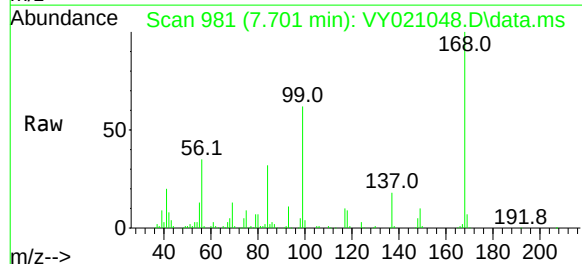
84 90.6 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#32

1,1,1-Trichloroethane

Concen: 18.893 ug/l

RT: 7.622 min Scan# 968

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

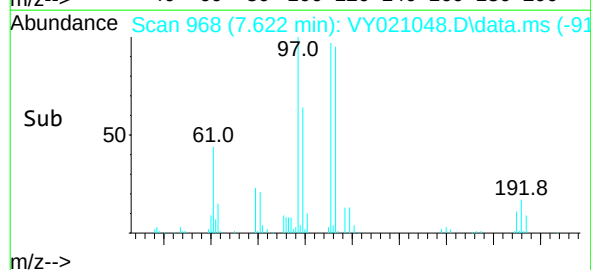
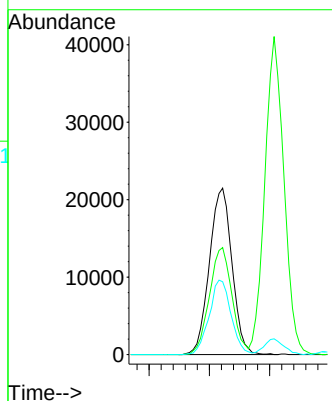
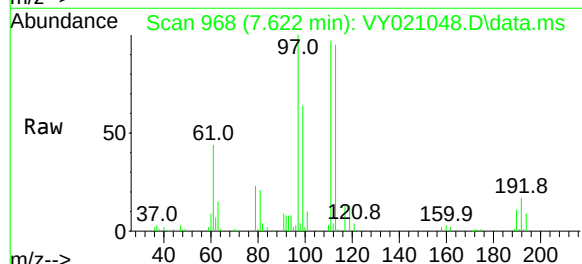
Tgt Ion: 97 Resp: 55929

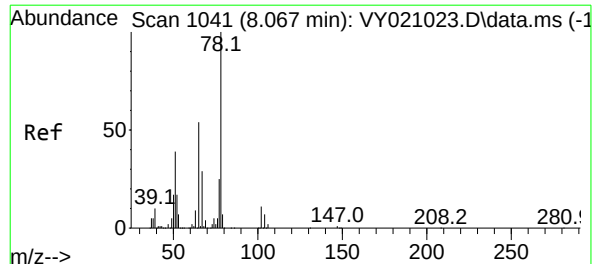
Ion Ratio Lower Upper

97 100

99 64.2 51.2 76.8

61 43.4 35.0 52.6





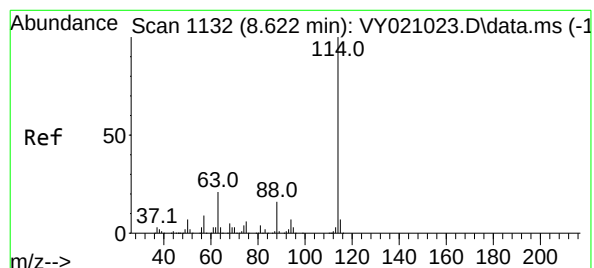
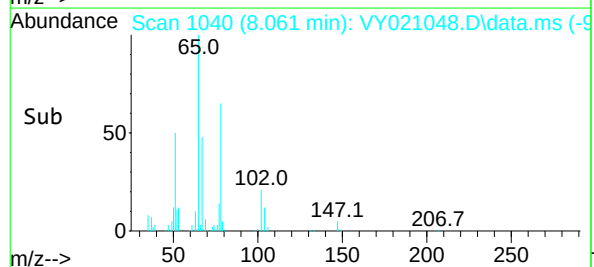
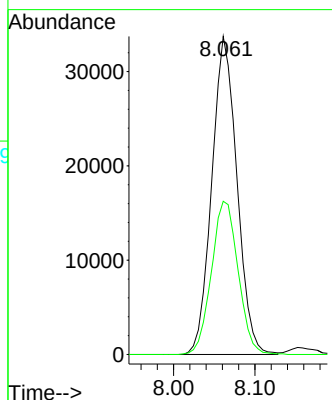
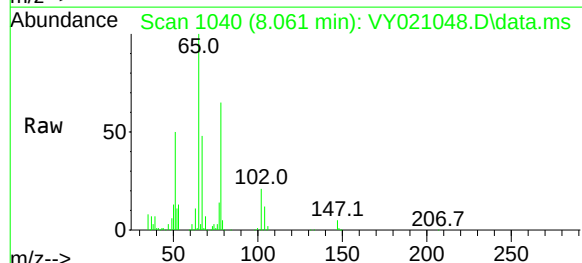
#33
1,2-Dichloroethane-d4
Concen: 44.323 ug/l
RT: 8.061 min Scan# 1041
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

Tgt Ion: 65 Resp: 72541
Ion Ratio Lower Upper
65 100
67 51.0 0.0 109.0

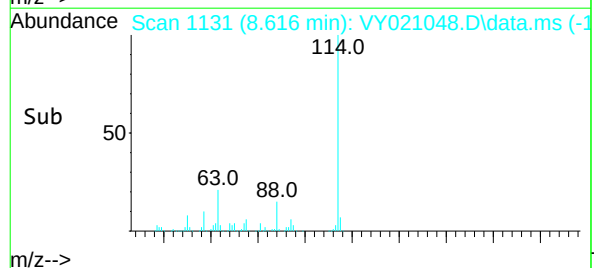
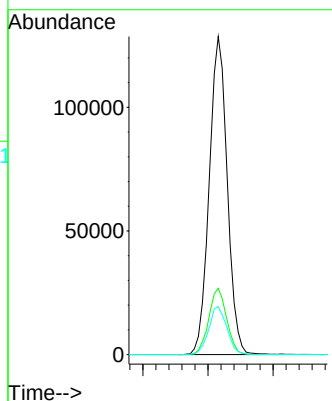
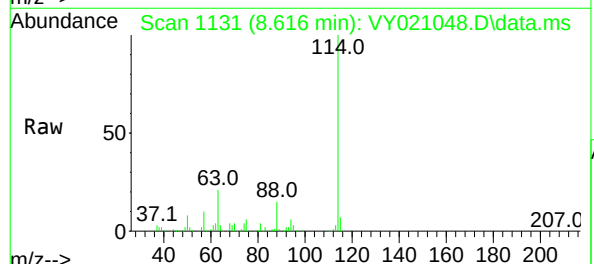
Manual Integrations
APPROVED

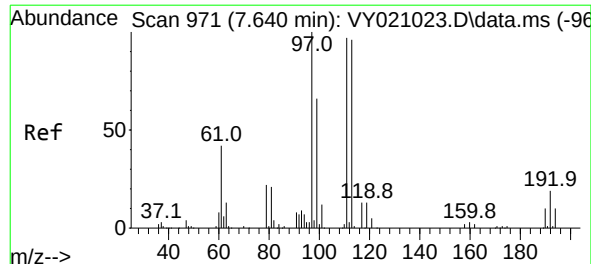
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Tgt Ion:114 Resp: 247448
Ion Ratio Lower Upper
114 100
63 20.8 0.0 37.4
88 15.1 0.0 29.0





#35

Dibromofluoromethane

Concen: 44.595 ug/l

RT: 7.634 min Scan# 971

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

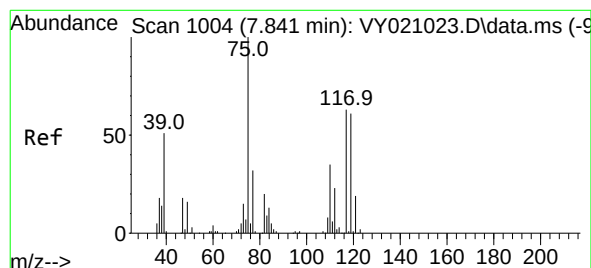
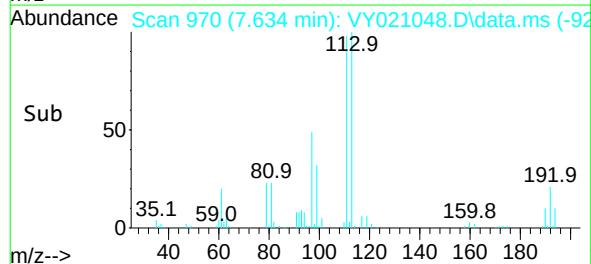
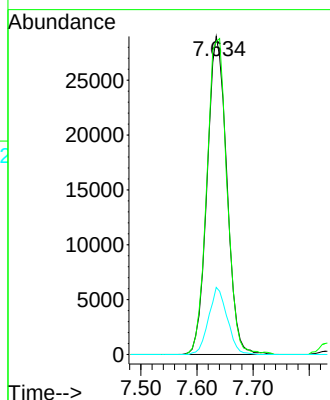
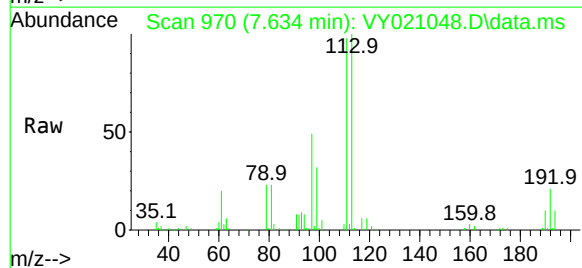
ClientSampleId :

VY0204SBS01

Tgt Ion:	113	Resp:	70720
Ion Ratio	Lower	Upper	
113	100		
111	101.8	83.8	125.6
192	19.9	14.5	21.7

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#36

1,1-Dichloropropene

Concen: 18.486 ug/l

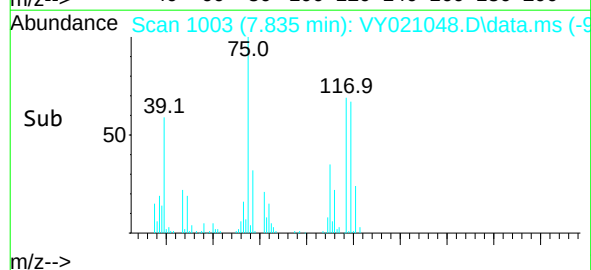
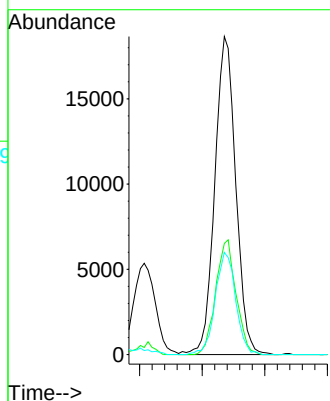
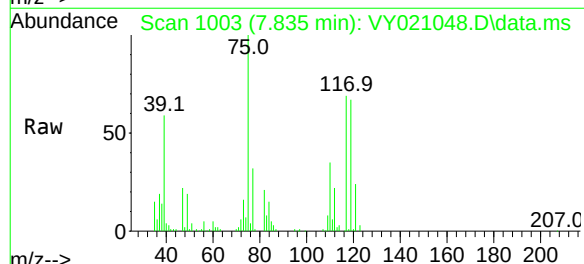
RT: 7.835 min Scan# 1003

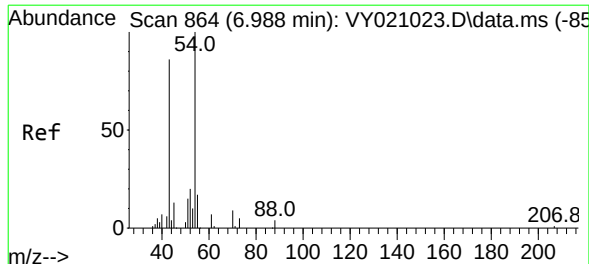
Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion:	75	Resp:	43422
Ion Ratio	Lower	Upper	
75	100		
110	35.0	17.4	52.3
77	31.3	24.7	37.1





#37

Ethyl Acetate

Concen: 16.291 ug/l

RT: 6.982 min Scan# 864

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 43 Resp: 16787

Ion Ratio Lower Upper

43 100

61 16.2 11.0 16.6

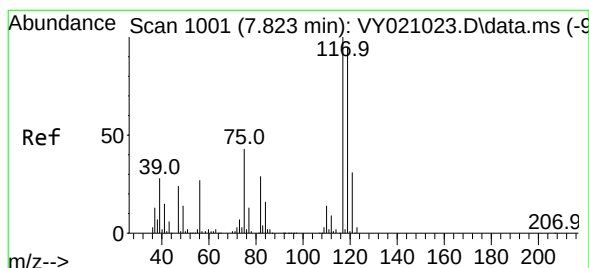
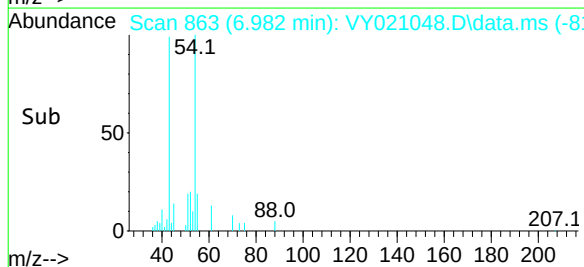
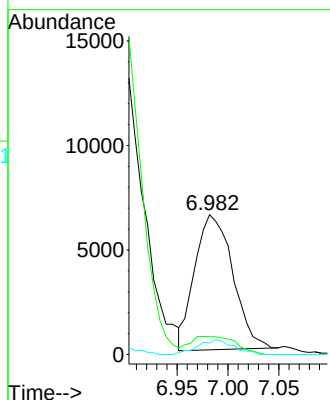
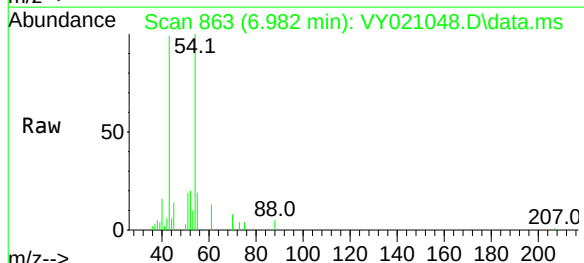
70 10.2 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#38

Carbon Tetrachloride

Concen: 18.826 ug/l

RT: 7.823 min Scan# 1001

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

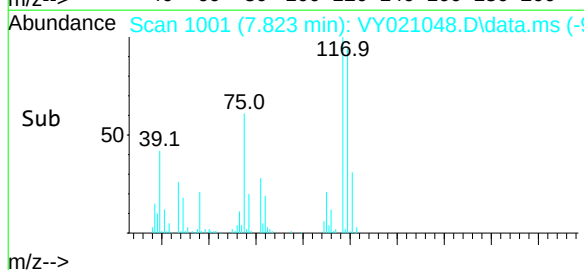
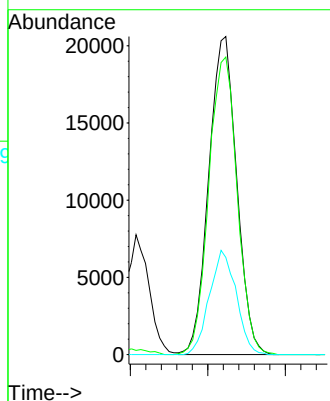
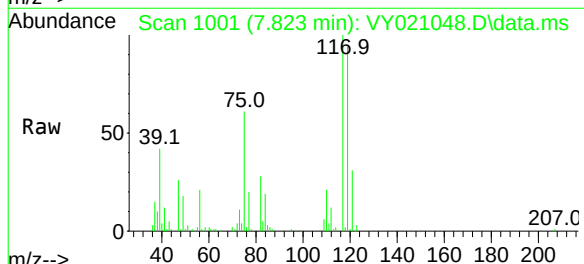
Tgt Ion:117 Resp: 51669

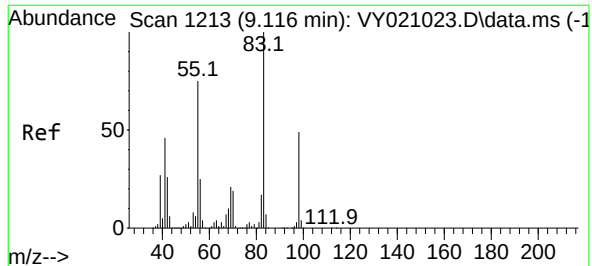
Ion Ratio Lower Upper

117 100

119 93.6 76.0 114.0

121 30.6 24.2 36.2





#39

Methylcyclohexane

Concen: 18.368 ug/l

RT: 9.110 min Scan# 1213

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 83 Resp: 52772

Ion Ratio Lower Upper

83 100

55 75.7 59.7 89.5

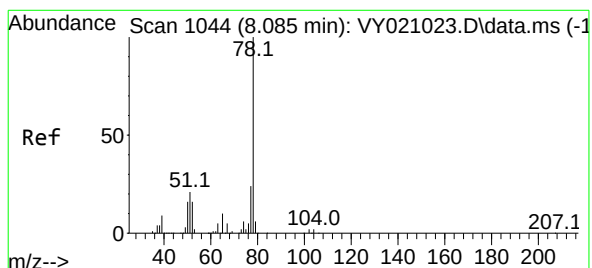
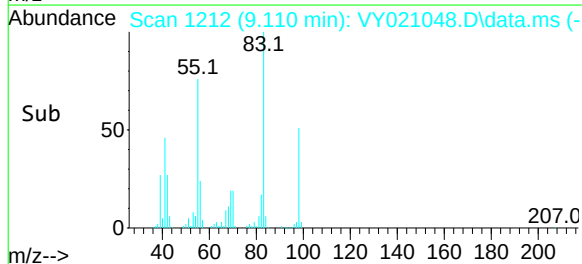
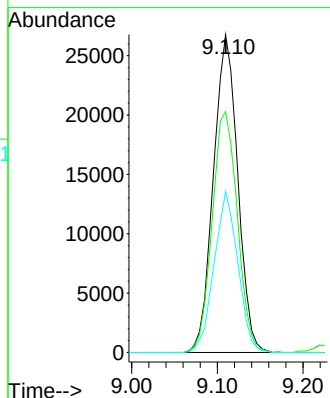
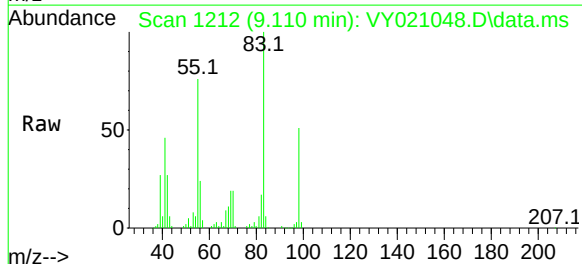
98 50.7 38.0 57.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#40

Benzene

Concen: 18.531 ug/l

RT: 8.085 min Scan# 1044

Delta R.T. 0.000 min

Lab File: VY021048.D

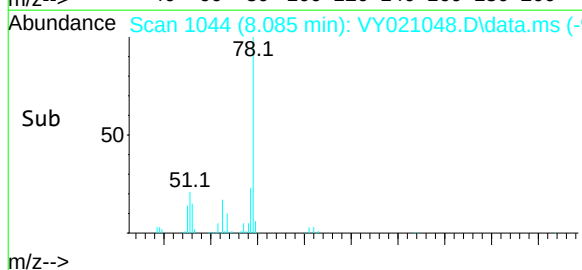
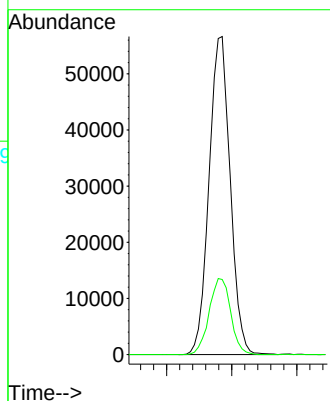
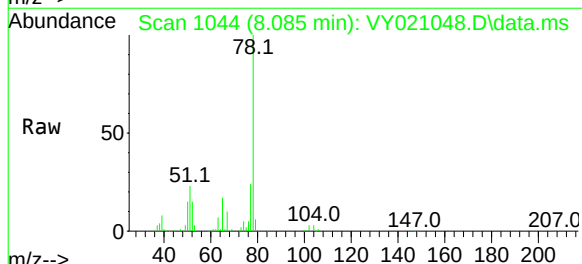
Acq: 04 Feb 2025 10:52

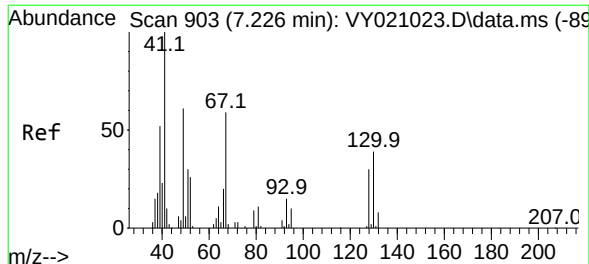
Tgt Ion: 78 Resp: 127737

Ion Ratio Lower Upper

78 100

77 23.6 18.8 28.2





#41

Methacrylonitrile

Concen: 15.055 ug/l

RT: 7.220 min Scan# 90

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 41 Resp: 8975

Ion Ratio Lower Upper

41 100

39 53.1 41.9 62.9

67 81.4 59.8 89.6

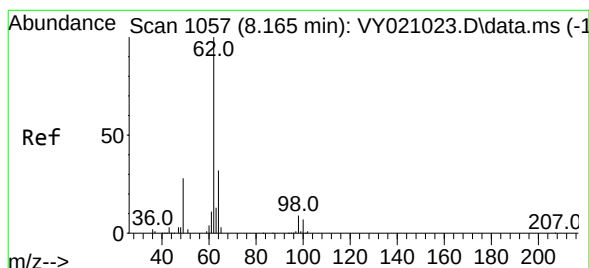
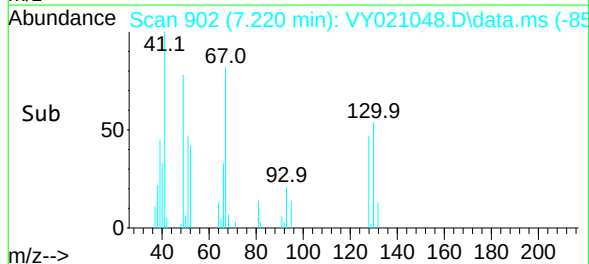
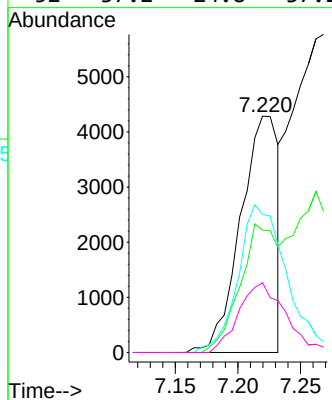
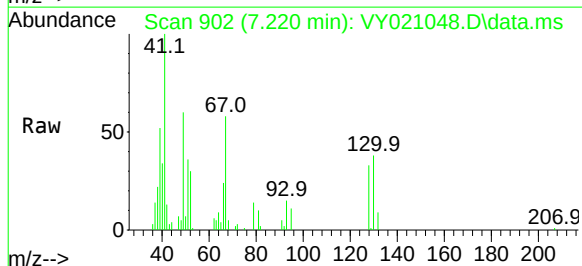
52 37.2 24.8 37.2#

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#42

1,2-Dichloroethane

Concen: 18.127 ug/l

RT: 8.159 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VY021048.D

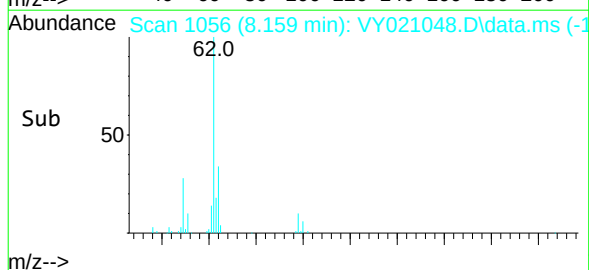
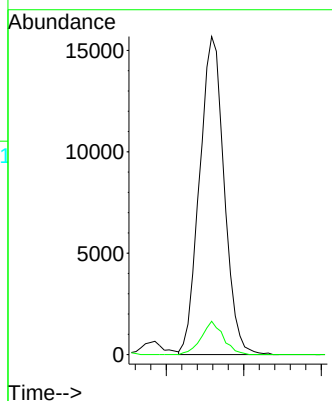
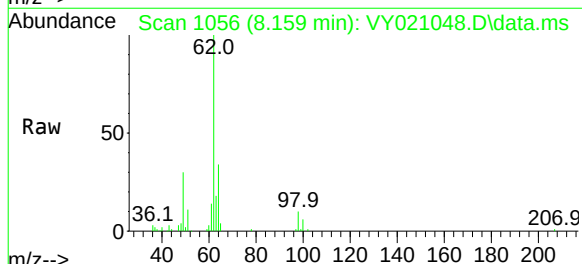
Acq: 04 Feb 2025 10:52

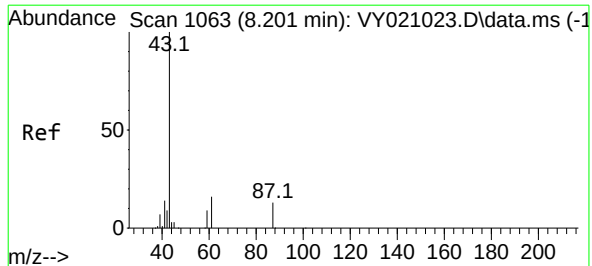
Tgt Ion: 62 Resp: 34662

Ion Ratio Lower Upper

62 100

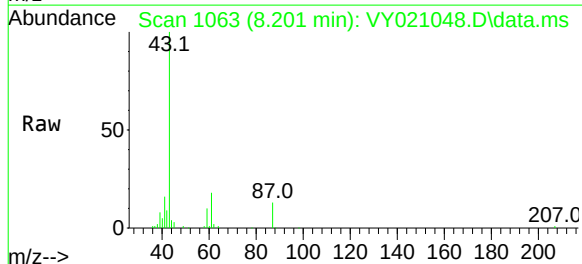
98 9.3 0.0 20.2





#43
Isopropyl Acetate
Concen: 17.647 ug/l
RT: 8.201 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

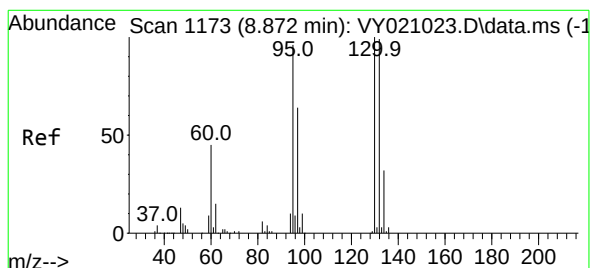
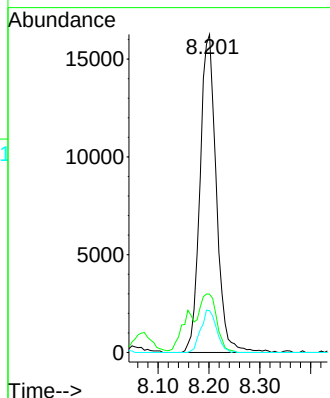
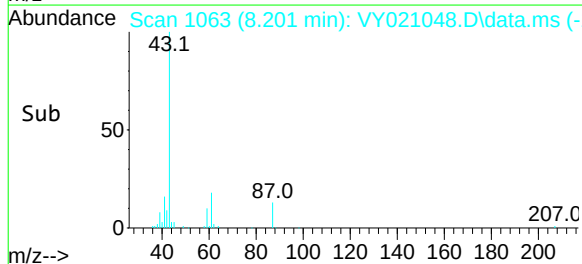
Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01



Tgt Ion: 43 Resp: 36132
Ion Ratio Lower Upper
43 100
61 20.1 24.8 37.2#
87 12.9 10.7 16.1

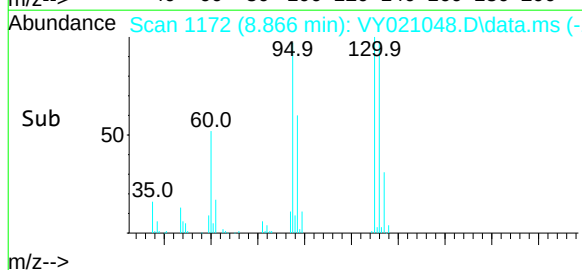
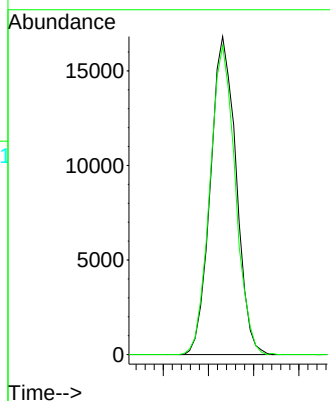
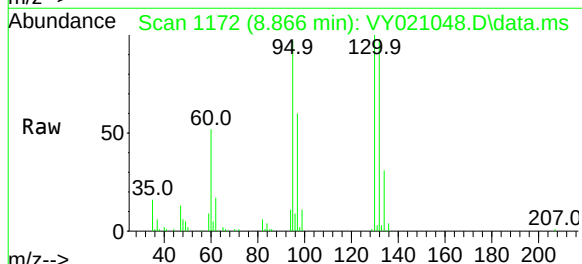
Manual Integrations
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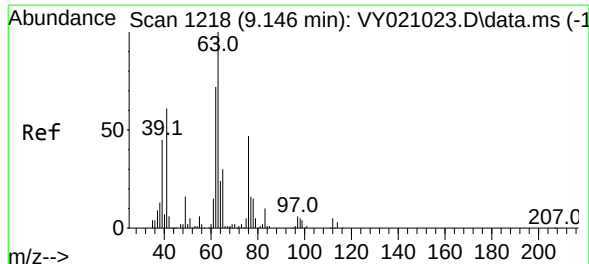
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#44
Trichloroethene
Concen: 18.593 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Tgt Ion:130 Resp: 33112
Ion Ratio Lower Upper
130 100
95 97.1 0.0 203.8





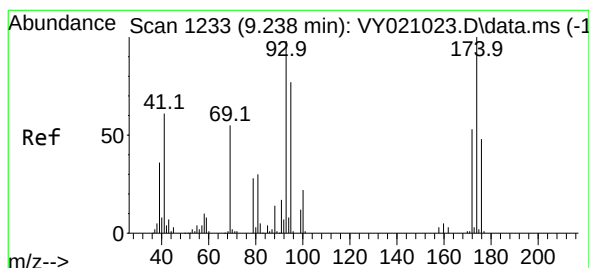
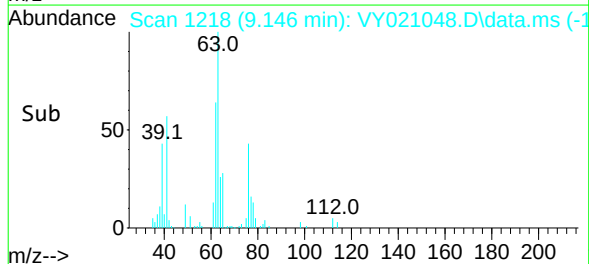
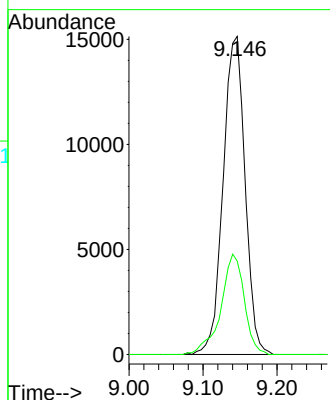
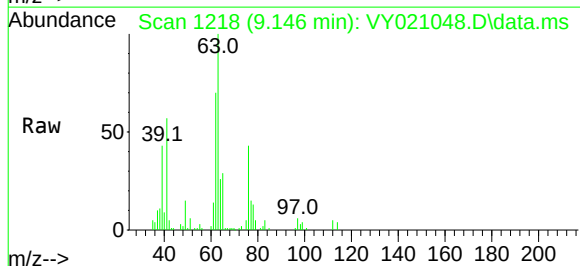
#45
1,2-Dichloropropane
Concen: 19.064 ug/l
RT: 9.146 min Scan# 1218
Delta R.T. 0.000 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

Tgt Ion: 63 Resp: 31191
Ion Ratio Lower Upper
63 100
65 29.4 24.6 36.8

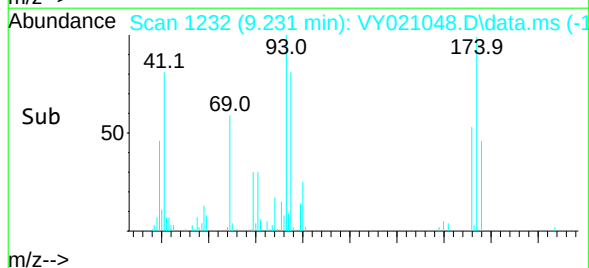
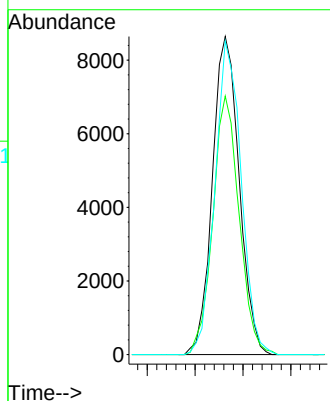
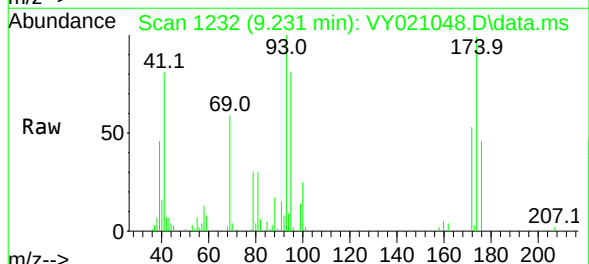
Manual Integrations
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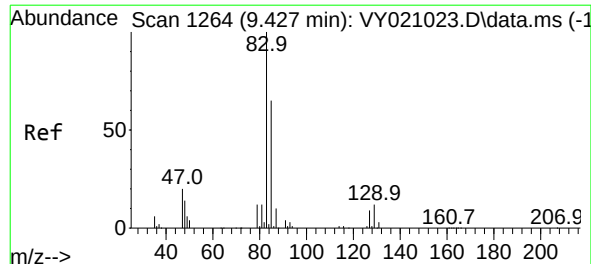
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#46
Dibromomethane
Concen: 18.543 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Tgt Ion: 93 Resp: 16797
Ion Ratio Lower Upper
93 100
95 79.9 66.6 99.8
174 96.9 73.8 110.6





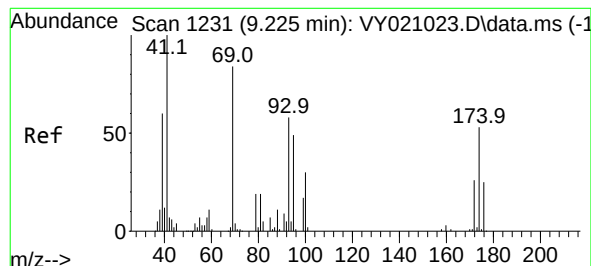
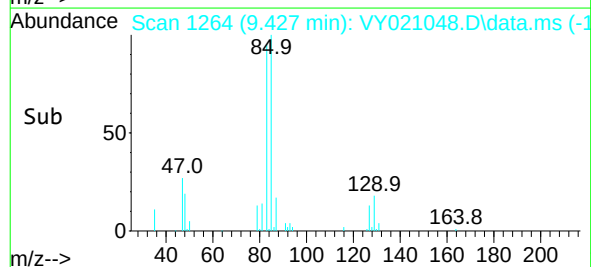
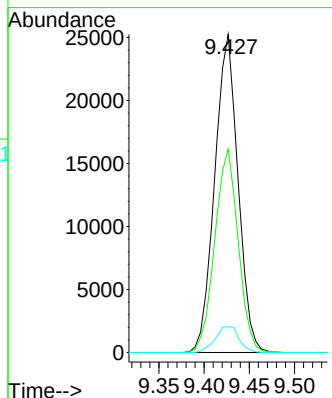
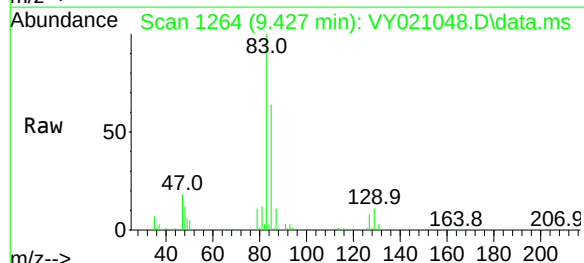
#47
Bromodichloromethane
Concen: 18.630 ug/l
RT: 9.427 min Scan# 1264
Delta R.T. 0.000 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

Tgt Ion: 83 Resp: 45261
Ion Ratio Lower Upper
83 100
85 64.0 53.2 79.8
127 8.1 6.4 9.6

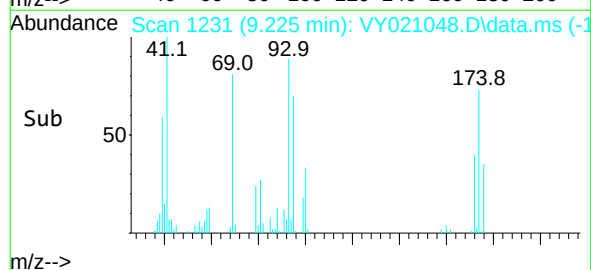
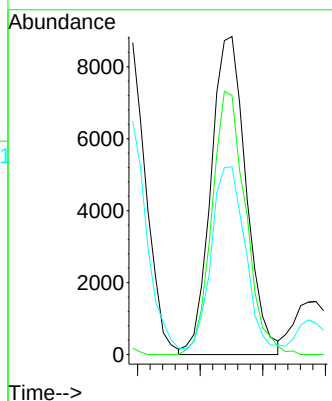
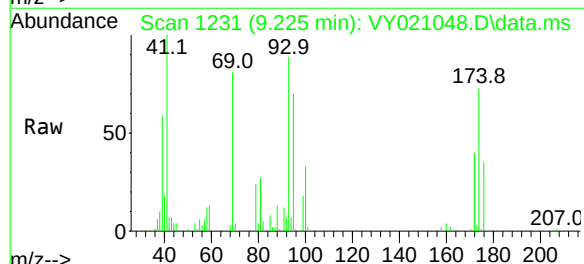
Manual Integrations
APPROVED

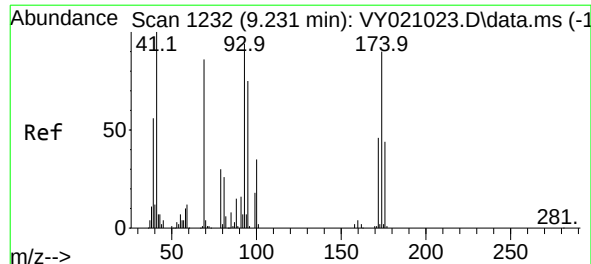
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#48
Methyl methacrylate
Concen: 18.502 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Tgt Ion: 41 Resp: 17256
Ion Ratio Lower Upper
41 100
69 79.1 72.1 108.1
39 55.3 42.8 64.2





#49

1,4-Dioxane

Concen: 364.763 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 88 Resp: 3076

Ion Ratio Lower Upper

88 100

43 47.5 28.2 42.4

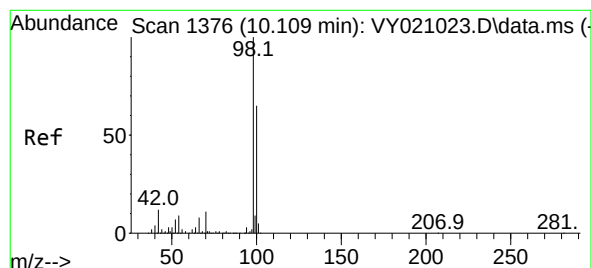
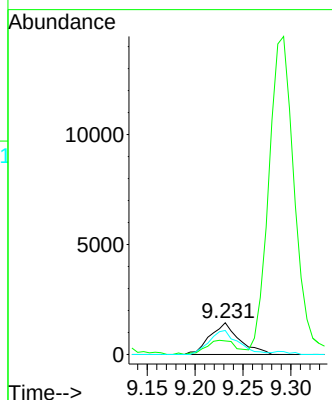
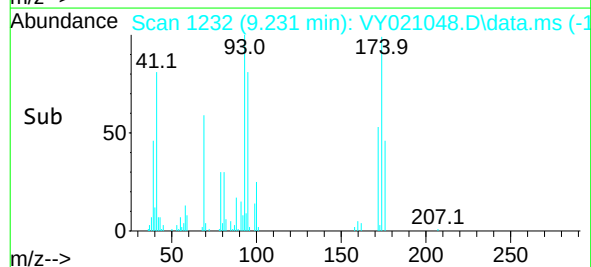
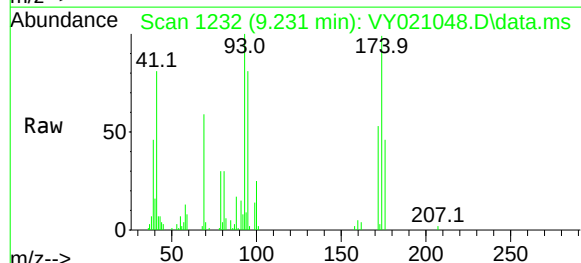
58 74.4 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#50

Toluene-d8

Concen: 45.354 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021048.D

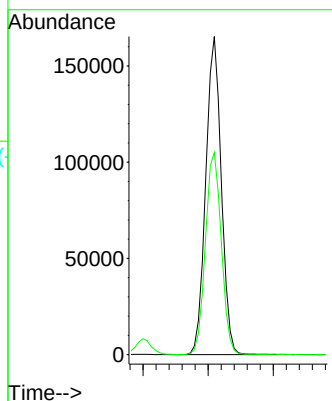
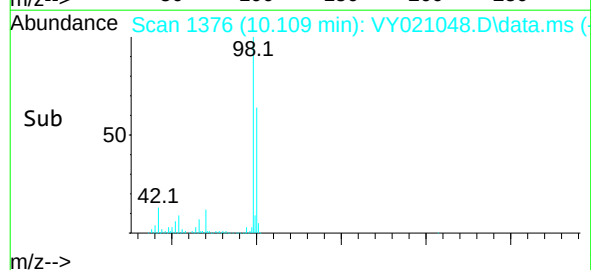
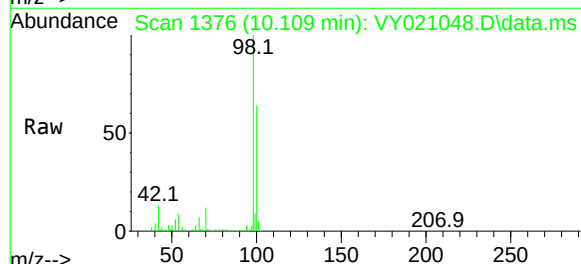
Acq: 04 Feb 2025 10:52

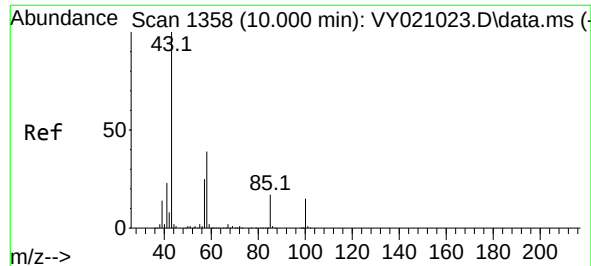
Tgt Ion: 98 Resp: 273816

Ion Ratio Lower Upper

98 100

100 65.0 52.3 78.5





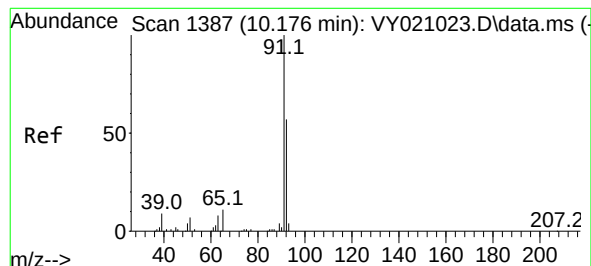
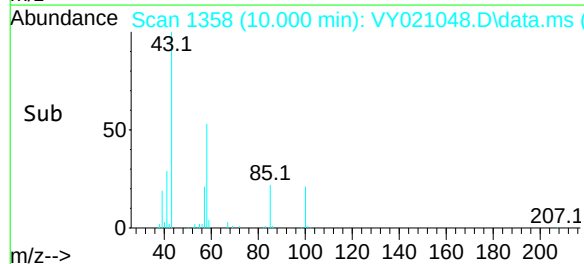
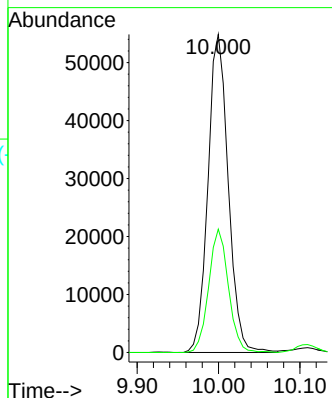
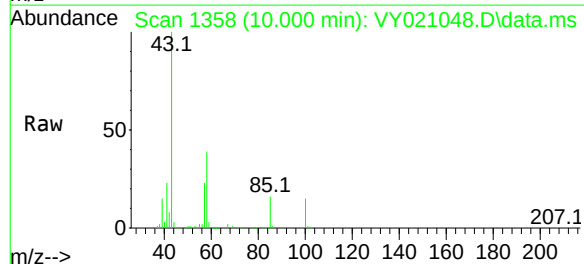
#51
4-Methyl-2-Pentanone
Concen: 92.378 ug/l
RT: 10.000 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

Tgt Ion: 43 Resp: 95113
Ion Ratio Lower Upper
43 100
58 37.8 32.2 48.2

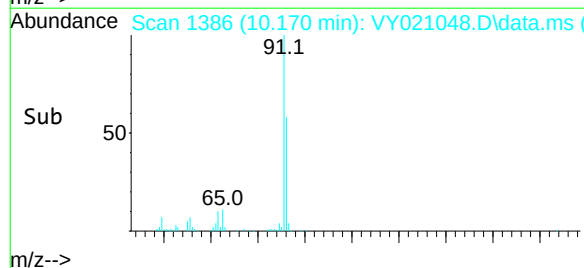
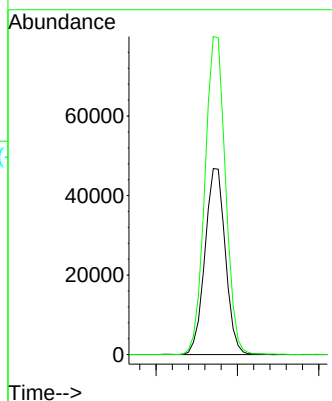
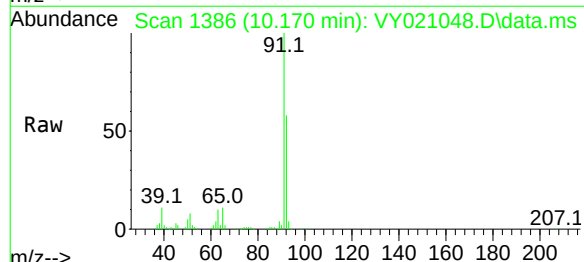
Manual Integrations
APPROVED

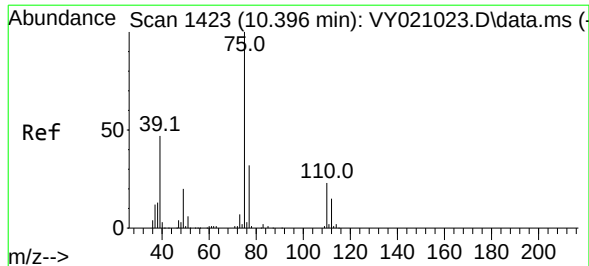
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#52
Toluene
Concen: 18.861 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Tgt Ion: 92 Resp: 81634
Ion Ratio Lower Upper
92 100
91 172.3 137.6 206.4





#53

t-1,3-Dichloropropene

Concen: 18.243 ug/l

RT: 10.396 min Scan# 1423

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 75 Resp: 39796

Ion Ratio Lower Upper

75 100

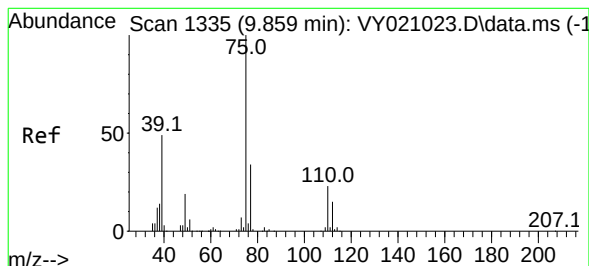
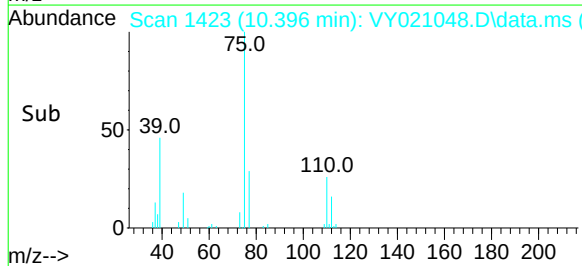
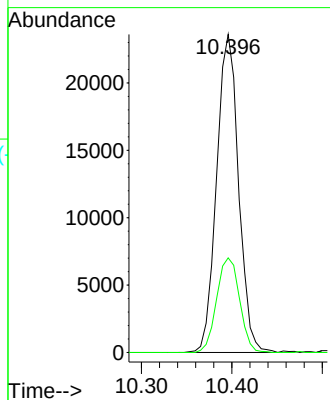
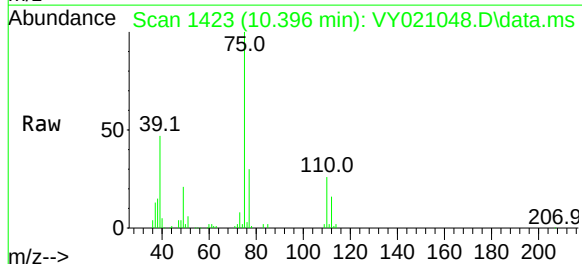
77 29.7 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#54

cis-1,3-Dichloropropene

Concen: 18.596 ug/l

RT: 9.859 min Scan# 1335

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

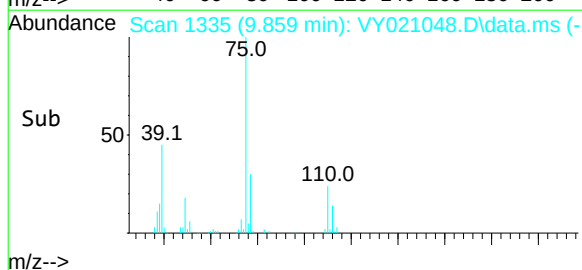
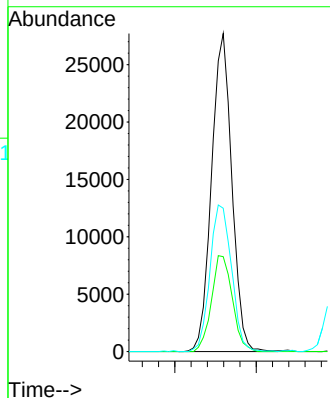
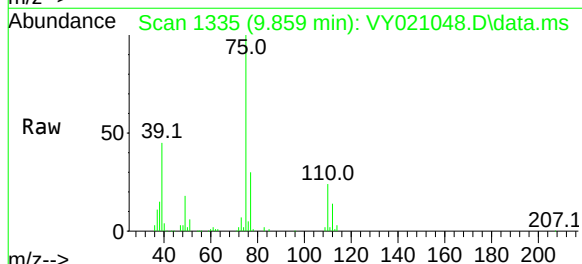
Tgt Ion: 75 Resp: 48033

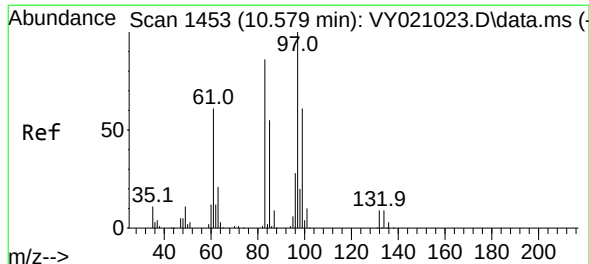
Ion Ratio Lower Upper

75 100

77 29.8 24.6 36.8

39 45.1 33.6 50.4





#55

1,1,2-Trichloroethane

Concen: 18.414 ug/l

RT: 10.573 min Scan# 1453

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 97 Resp: 21600

Ion Ratio Lower Upper

97 100

83 87.8 69.4 104.2

85 62.7 43.9 65.9

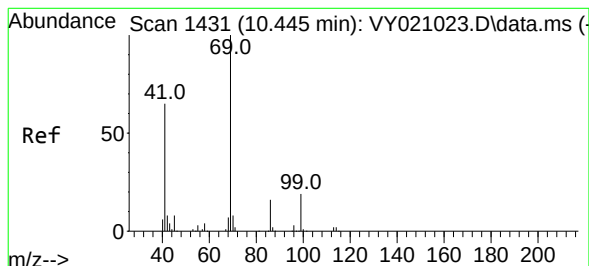
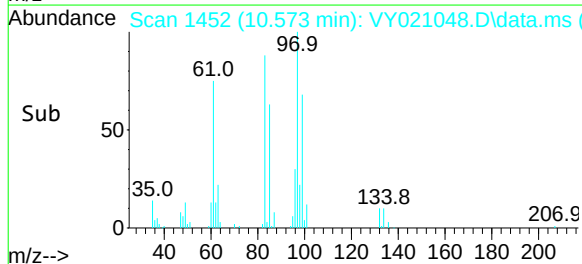
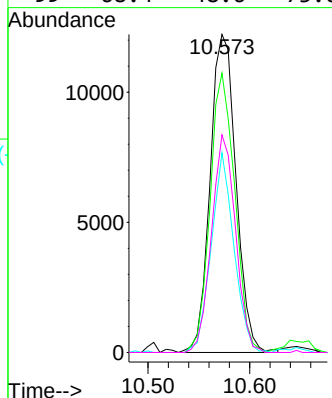
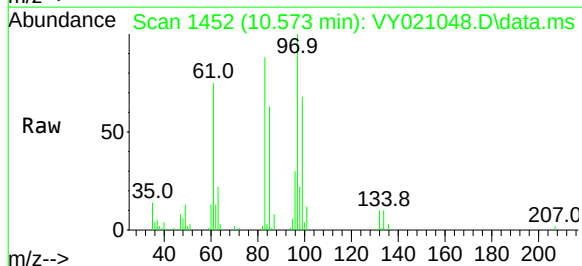
99 68.4 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#56

Ethyl methacrylate

Concen: 17.448 ug/l

RT: 10.445 min Scan# 1431

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

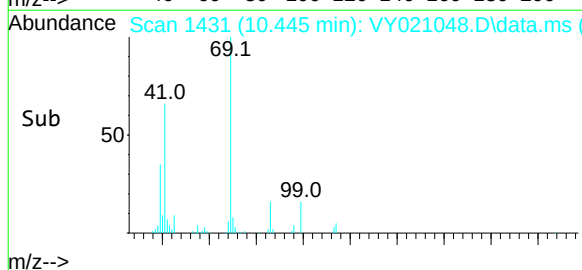
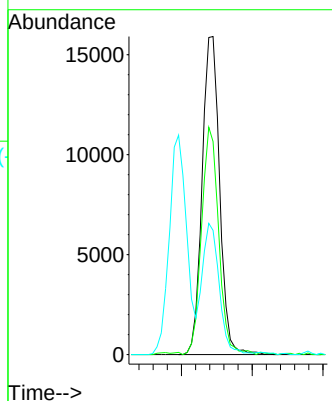
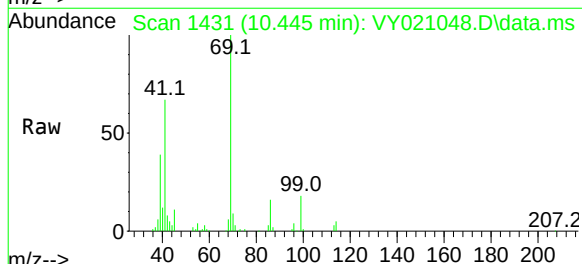
Tgt Ion: 69 Resp: 27381

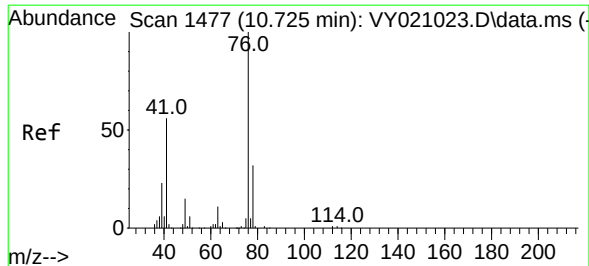
Ion Ratio Lower Upper

69 100

41 70.0 49.2 73.8

39 39.0 26.8 40.2





#57

1,3-Dichloropropane

Concen: 18.445 ug/l

RT: 10.719 min Scan# 1477

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 76 Resp: 37450

Ion Ratio Lower Upper

76 100

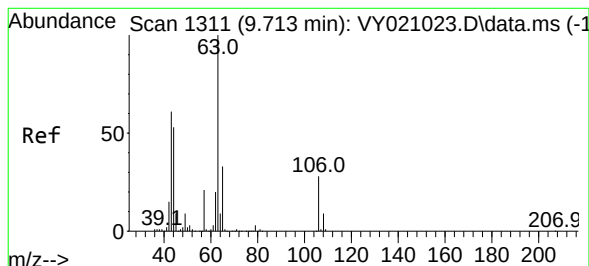
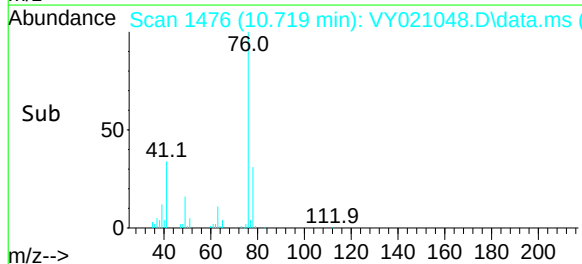
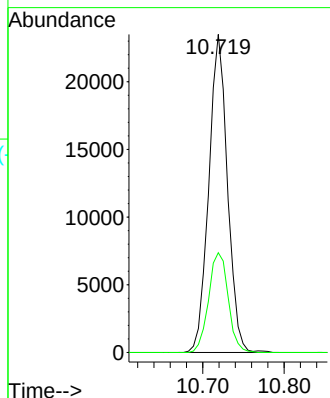
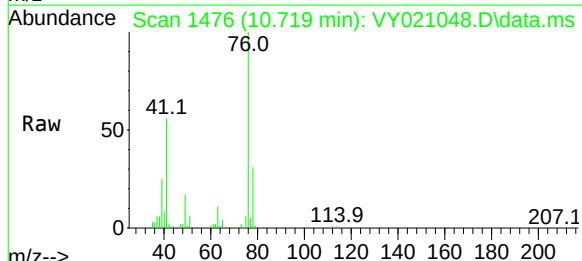
78 32.8 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 87.322 ug/l

RT: 9.713 min Scan# 1311

Delta R.T. 0.000 min

Lab File: VY021048.D

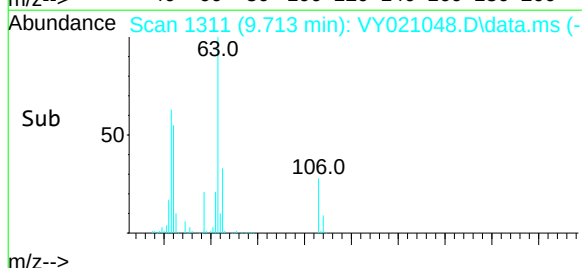
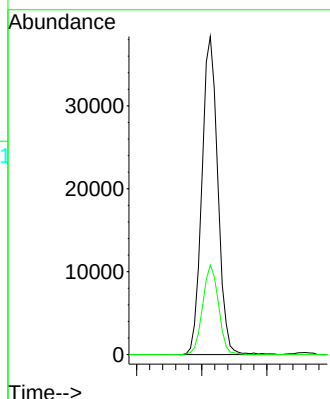
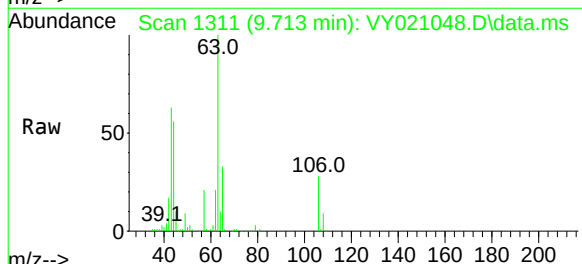
Acq: 04 Feb 2025 10:52

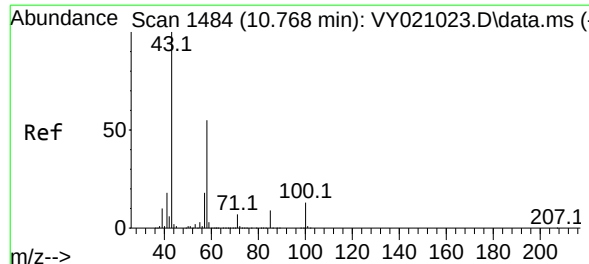
Tgt Ion: 63 Resp: 65192

Ion Ratio Lower Upper

63 100

106 27.9 22.4 33.6





#59

2-Hexanone

Concen: 90.844 ug/l

RT: 10.762 min Scan# 1484

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 43 Resp: 60223

Ion Ratio Lower Upper

43 100

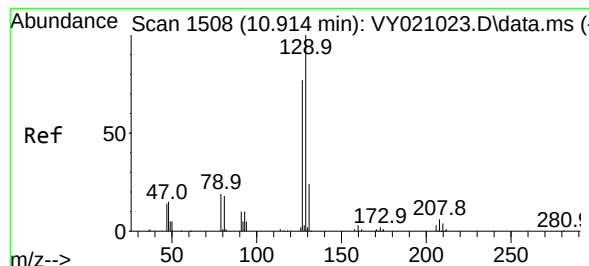
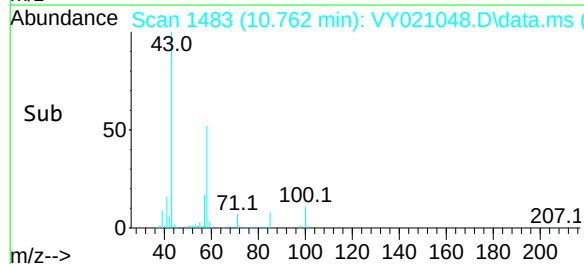
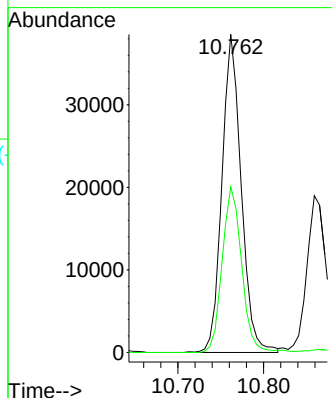
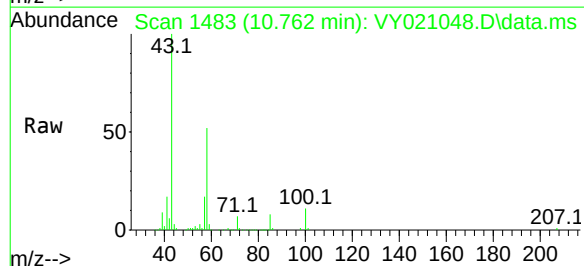
58 52.7 28.1 84.3

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#60

Dibromochloromethane

Concen: 18.348 ug/l

RT: 10.914 min Scan# 1508

Delta R.T. 0.000 min

Lab File: VY021048.D

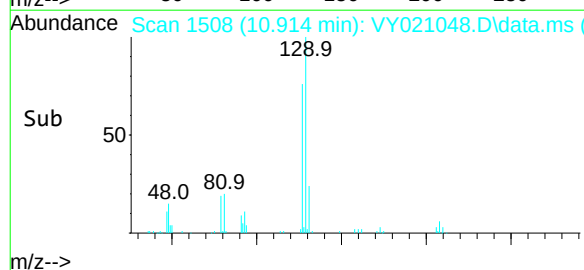
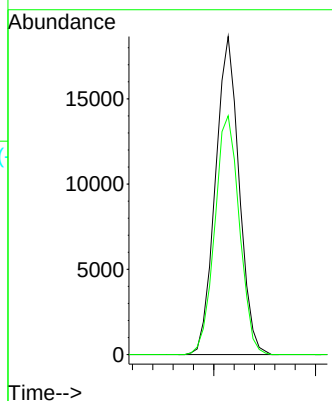
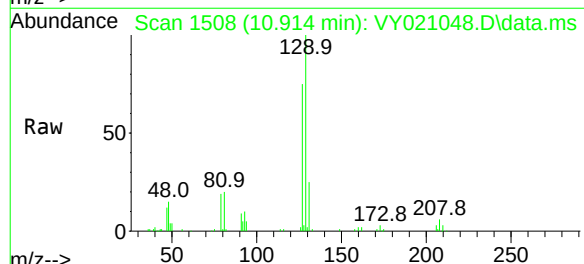
Acq: 04 Feb 2025 10:52

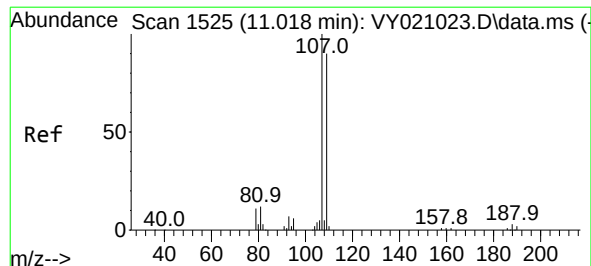
Tgt Ion:129 Resp: 30226

Ion Ratio Lower Upper

129 100

127 77.9 39.2 117.6





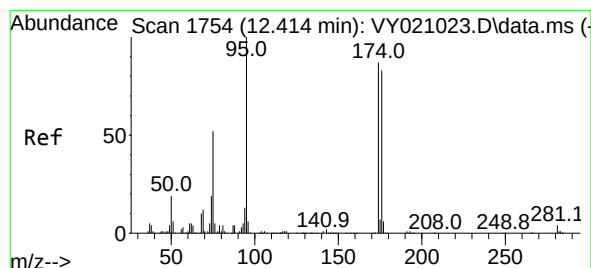
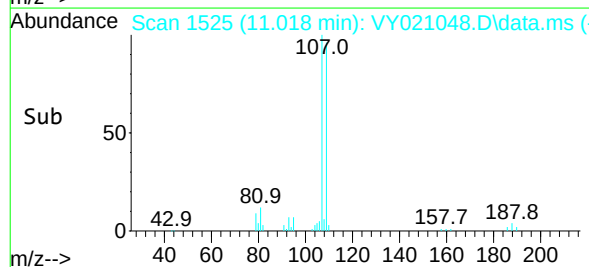
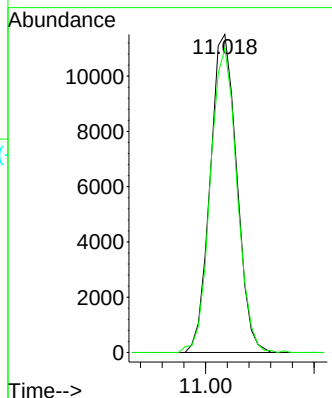
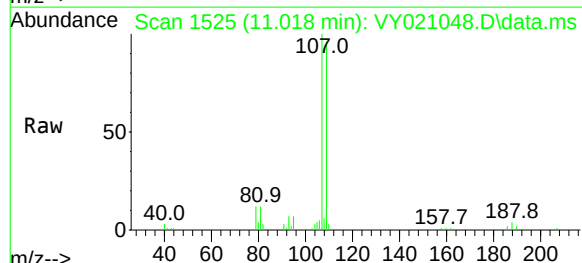
#61
1,2-Dibromoethane
Concen: 17.800 ug/l
RT: 11.018 min Scan# 1525
Delta R.T. 0.000 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

Tgt Ion: 107 Resp: 19558
Ion Ratio Lower Upper
107 100
109 96.1 75.4 113.2

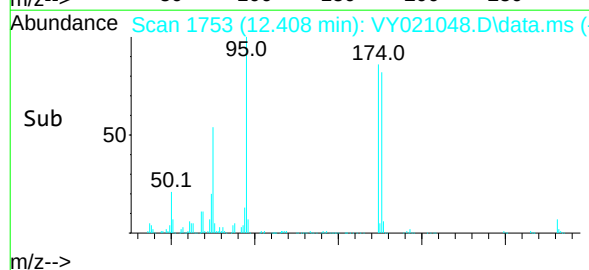
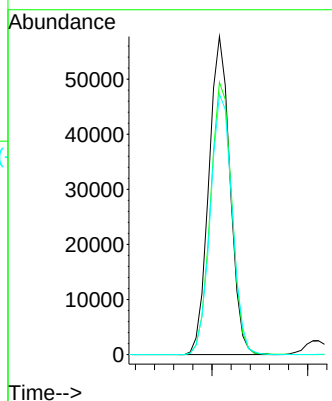
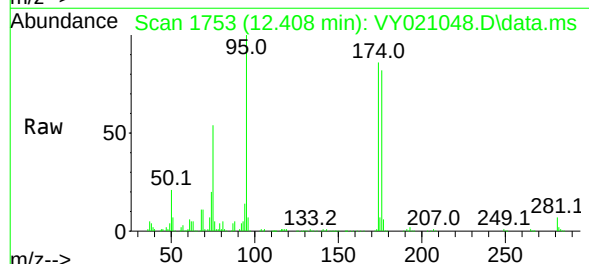
Manual Integrations
APPROVED

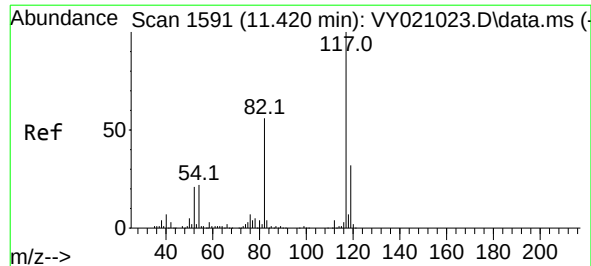
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#62
4-Bromofluorobenzene
Concen: 45.028 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Tgt Ion: 95 Resp: 88811
Ion Ratio Lower Upper
95 100
174 86.6 0.0 160.0
176 84.1 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion:117 Resp: 212473

Ion Ratio Lower Upper

117 100

82 54.1 43.8 65.8

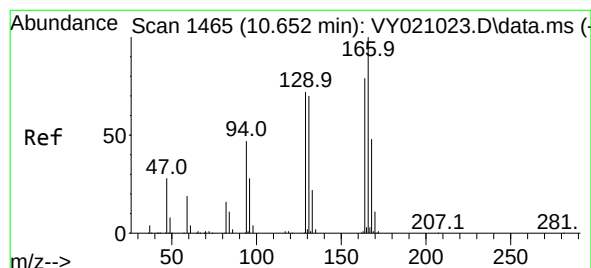
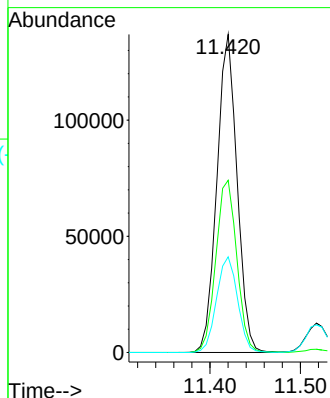
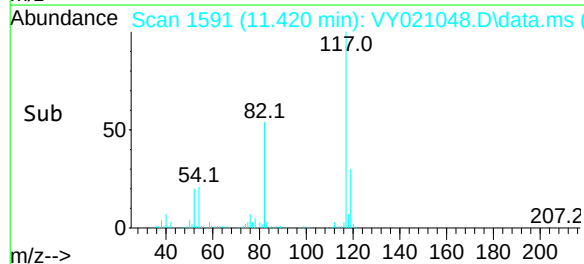
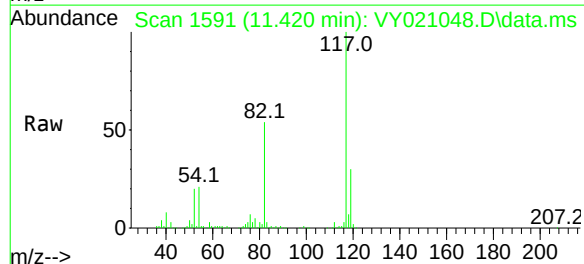
119 30.1 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#64

Tetrachloroethene

Concen: 18.921 ug/l

RT: 10.652 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion:164 Resp: 29844

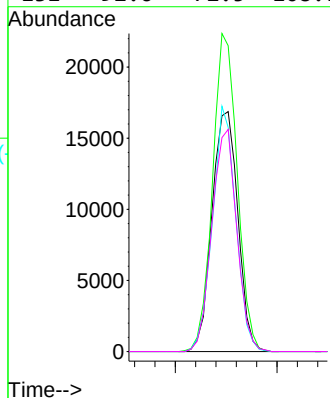
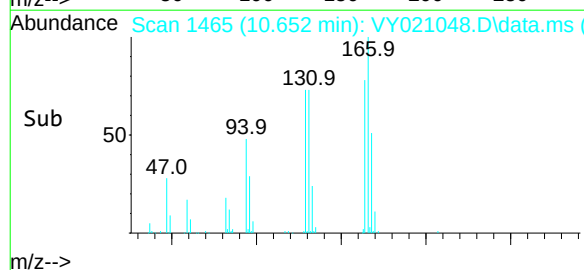
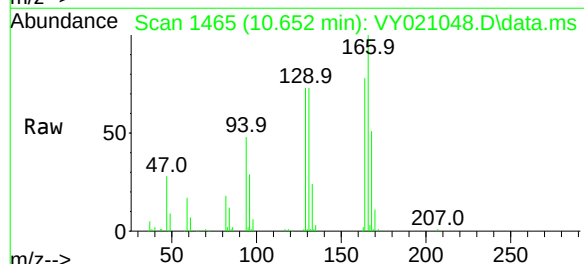
Ion Ratio Lower Upper

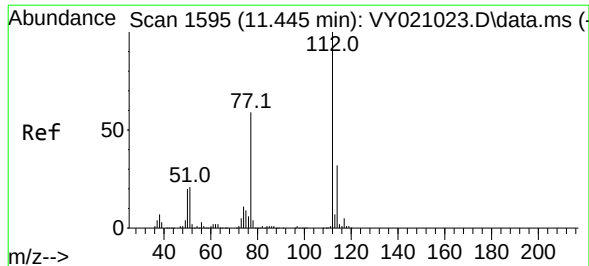
164 100

166 127.5 98.8 148.2

129 93.4 78.9 118.3

131 92.6 72.5 108.7





#65

Chlorobenzene

Concen: 18.603 ug/l

RT: 11.445 min Scan# 1595

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion:112 Resp: 88014

Ion Ratio Lower Upper

112 100

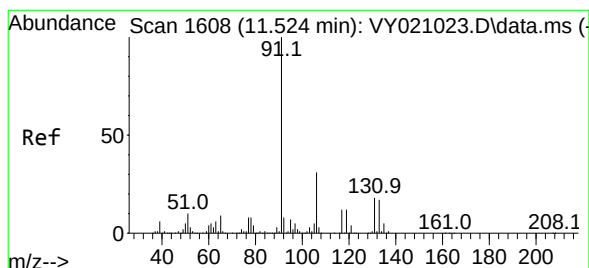
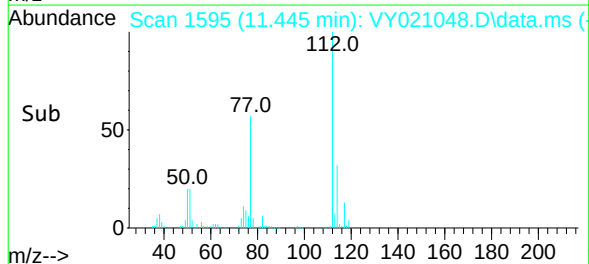
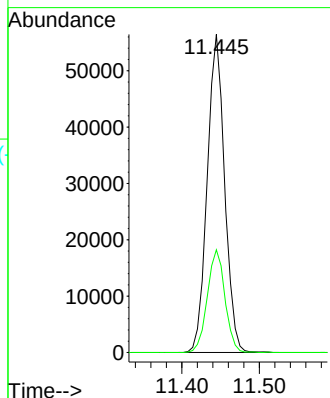
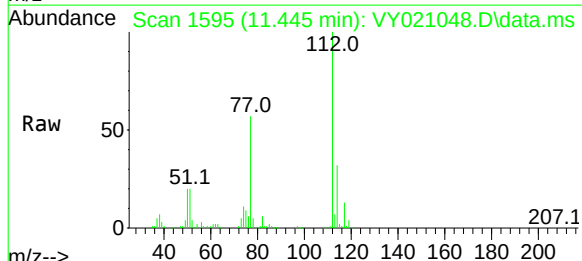
114 32.3 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 18.699 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

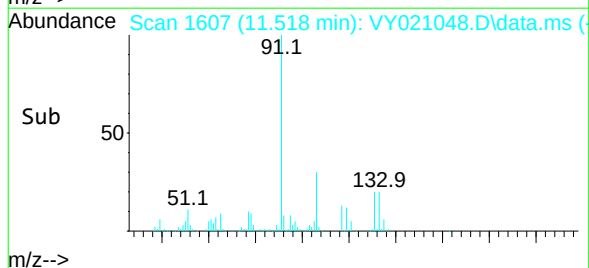
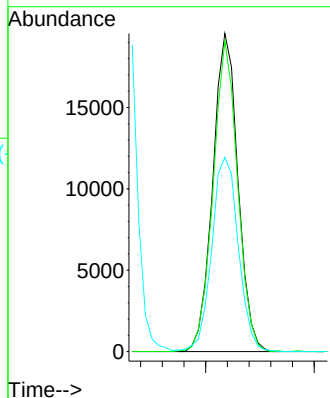
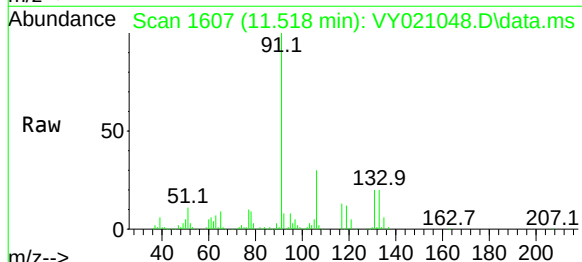
Tgt Ion:131 Resp: 31439

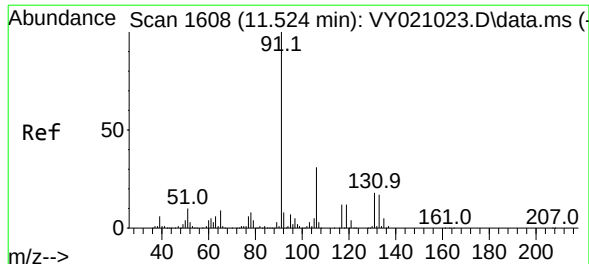
Ion Ratio Lower Upper

131 100

133 95.0 47.0 141.0

119 64.5 33.3 99.9





#67

Ethyl Benzene

Concen: 18.733 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 91 Resp: 156761

Ion Ratio Lower Upper

91 100

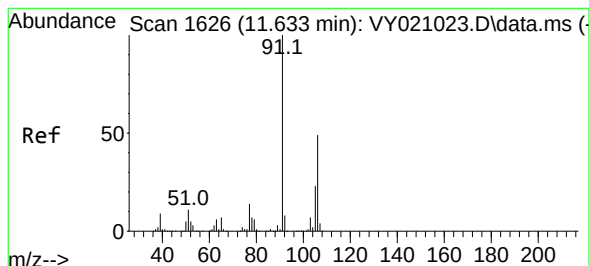
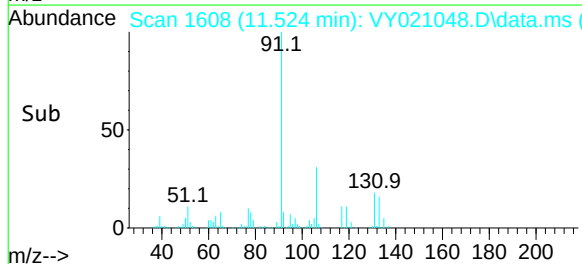
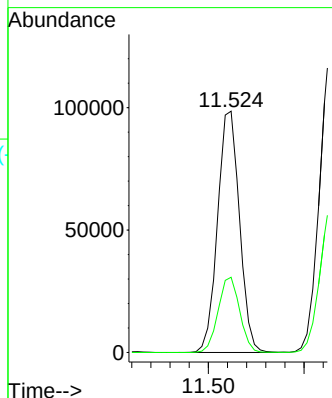
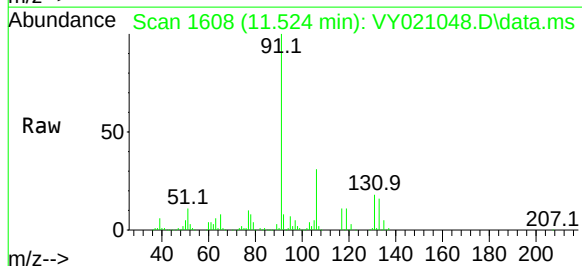
106 31.2 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#68

m/p-Xylenes

Concen: 37.753 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.006 min

Lab File: VY021048.D

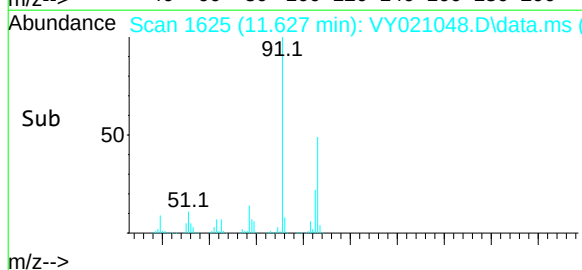
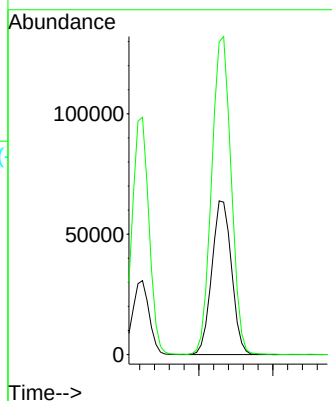
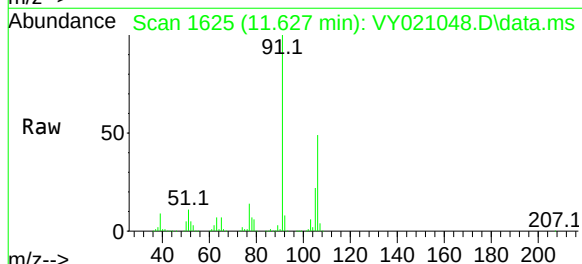
Acq: 04 Feb 2025 10:52

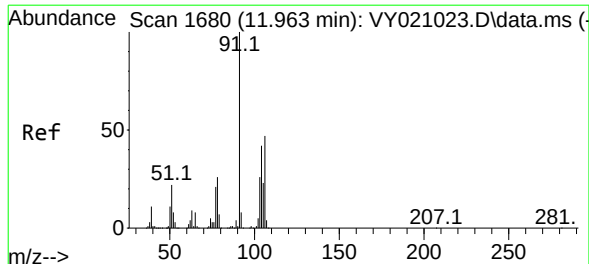
Tgt Ion:106 Resp: 118185

Ion Ratio Lower Upper

106 100

91 204.9 160.7 241.1





#69

o-Xylene

Concen: 18.569 ug/l

RT: 11.957 min Scan# 1680

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion:106 Resp: 54195

Ion Ratio Lower Upper

106 100

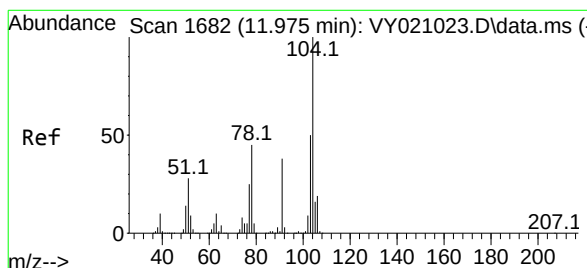
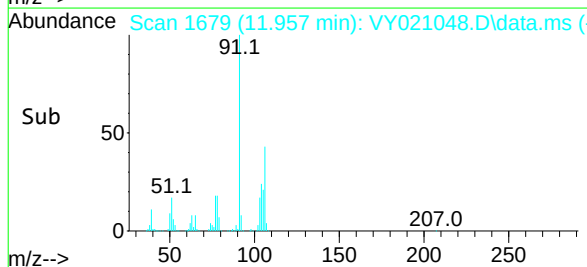
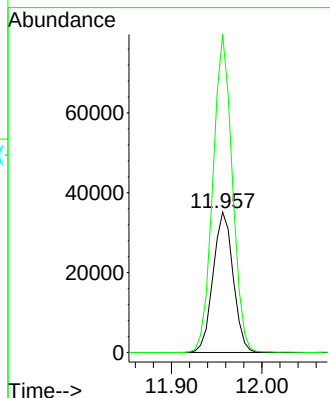
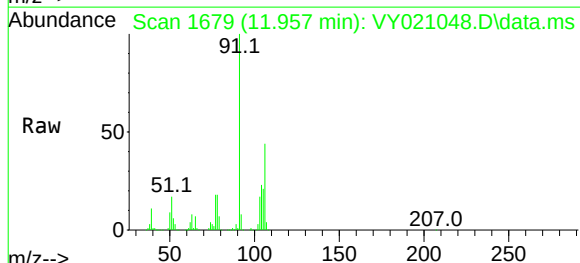
91 219.6 106.5 319.5

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#70

Styrene

Concen: 18.833 ug/l

RT: 11.975 min Scan# 1682

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

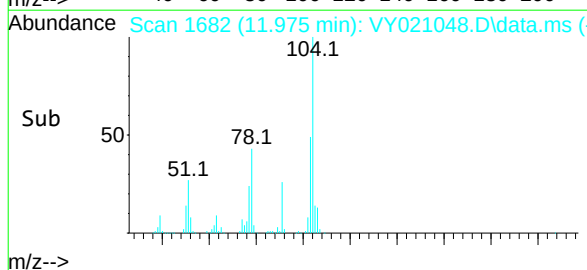
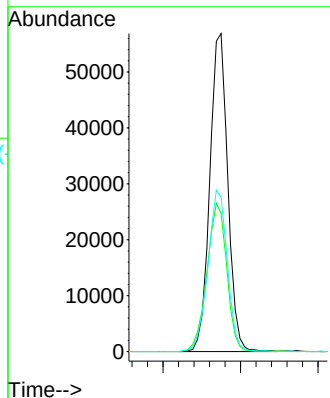
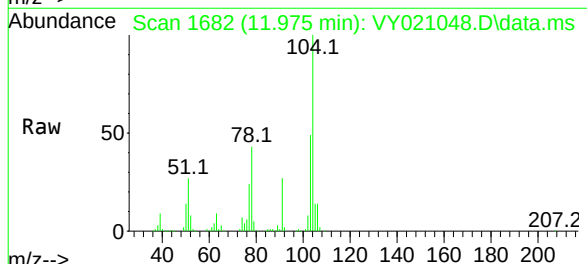
Tgt Ion:104 Resp: 91611

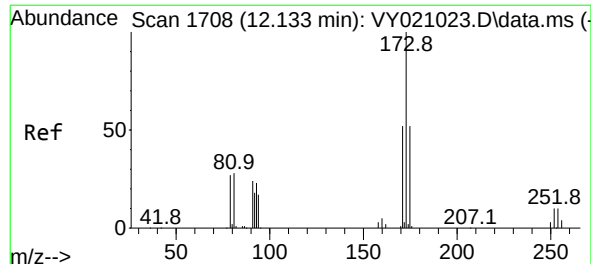
Ion Ratio Lower Upper

104 100

78 51.5 39.2 58.8

103 54.7 43.8 65.6





#71

Bromoform

Concen: 18.622 ug/l

RT: 12.133 min Scan# 1708

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

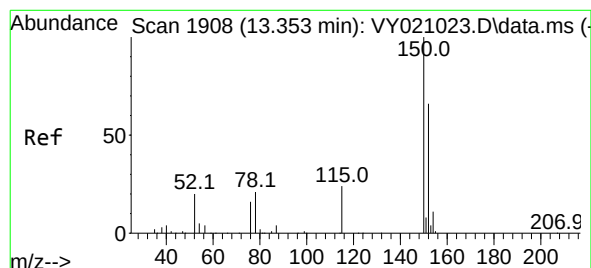
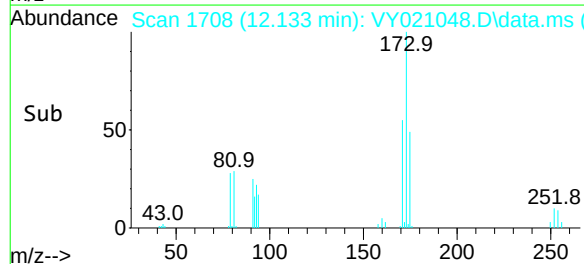
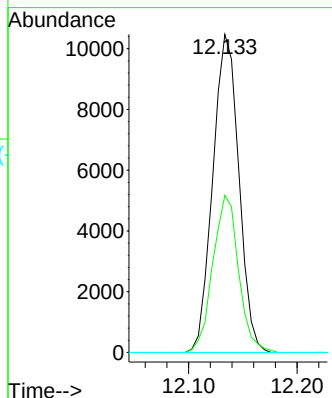
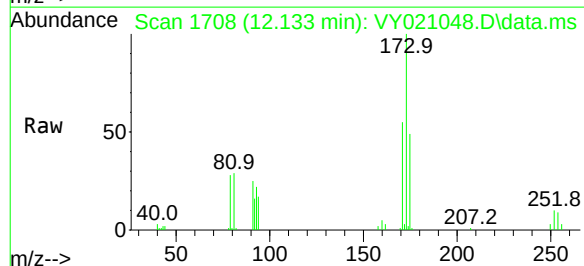
ClientSampleId :

VY0204SBS01

Tgt	Ion:173	Resp:	17427
Ion	Ratio	Lower	Upper
173	100		
175	49.0	23.5	70.6
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

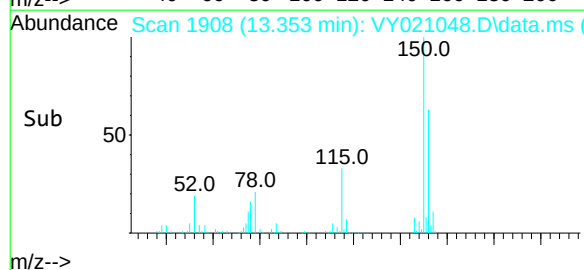
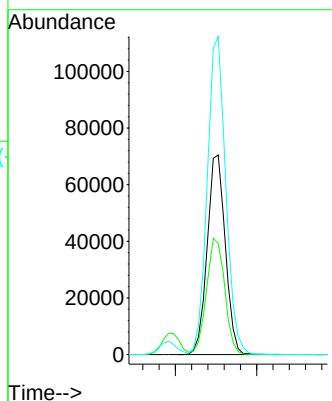
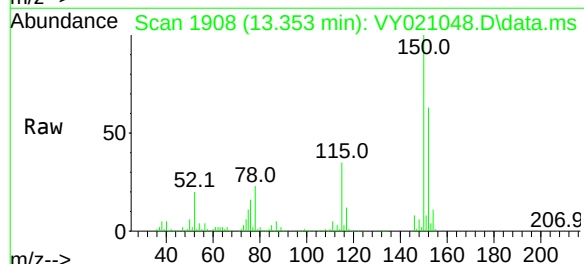
RT: 13.353 min Scan# 1908

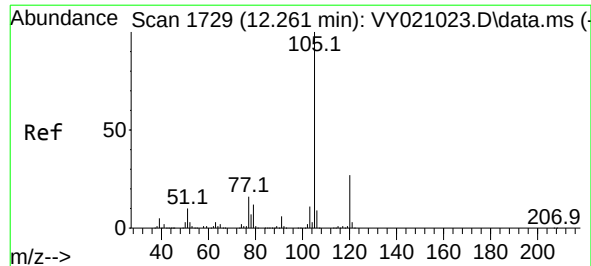
Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt	Ion:152	Resp:	108974
Ion	Ratio	Lower	Upper
152	100		
115	58.7	30.0	90.0
150	163.1	0.0	344.6





#73

Isopropylbenzene

Concen: 17.676 ug/l

RT: 12.255 min Scan# 1729

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 105 Resp: 150465

Ion Ratio Lower Upper

105 100

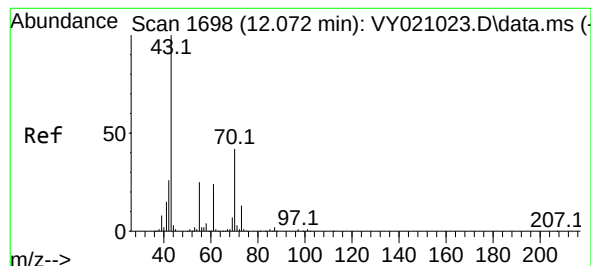
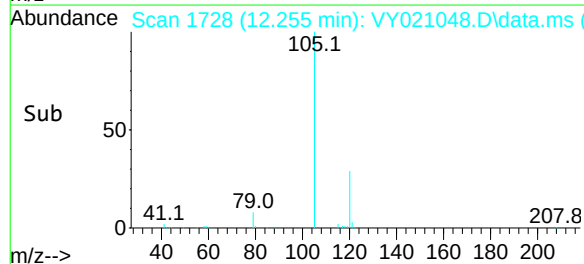
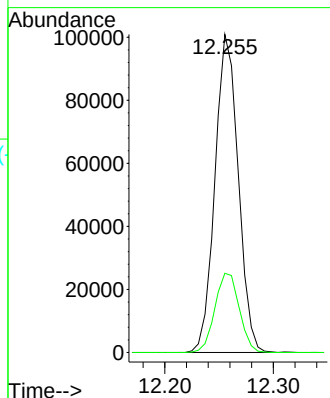
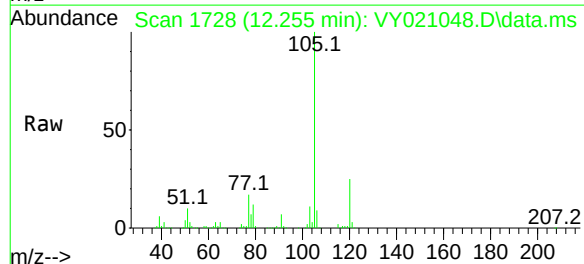
120 26.0 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#74

N-ethyl acetate

Concen: 17.133 ug/l

RT: 12.072 min Scan# 1698

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion: 43 Resp: 31886

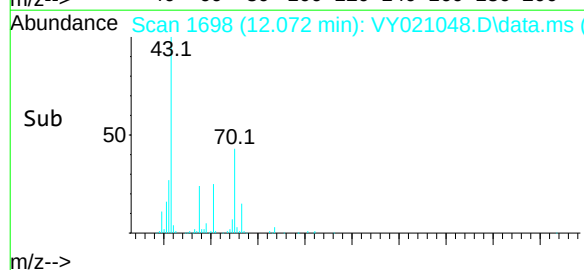
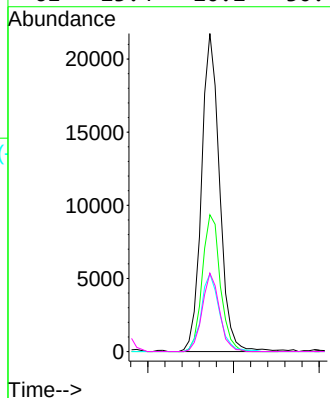
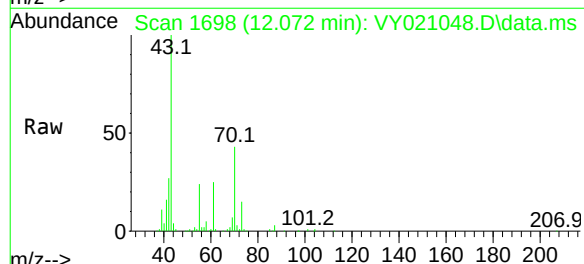
Ion Ratio Lower Upper

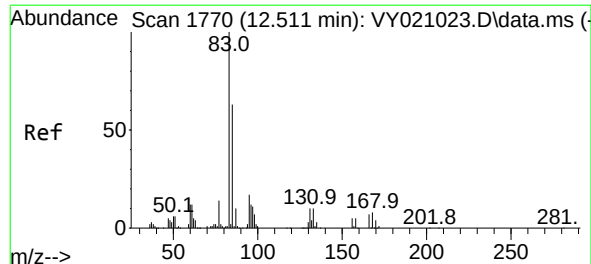
43 100

70 42.8 36.6 55.0

55 24.7 22.2 33.4

61 23.4 20.2 30.4





#75

1,1,2,2-Tetrachloroethane

Concen: 17.448 ug/l

RT: 12.511 min Scan# 1770

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

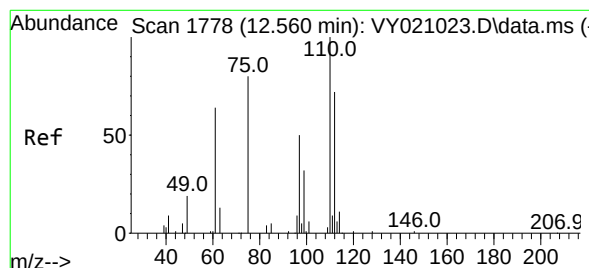
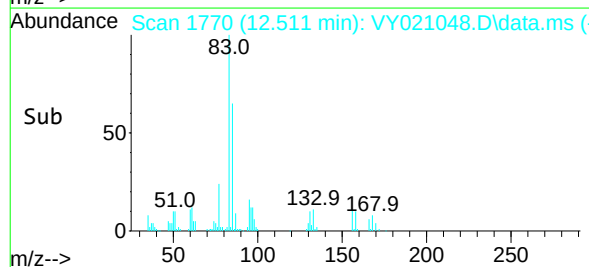
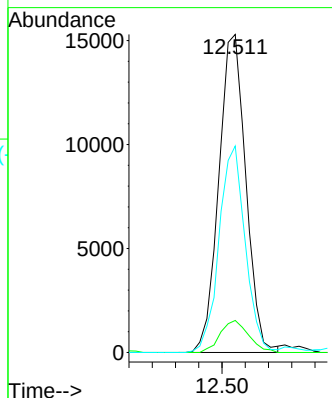
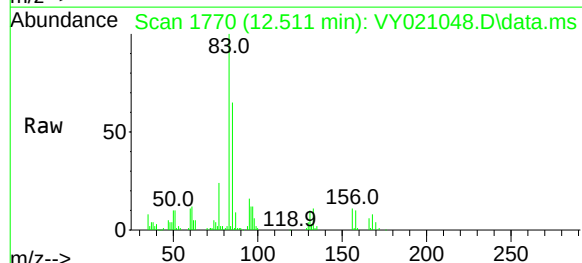
Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion:	83	Resp:	24702
Ion Ratio	Lower	Upper	
83	100		
131	10.6	4.9	14.6
85	62.9	32.6	98.0

Manual Integrations
APPROVEDReviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#76

1,2,3-Trichloropropane

Concen: 16.269 ug/l m

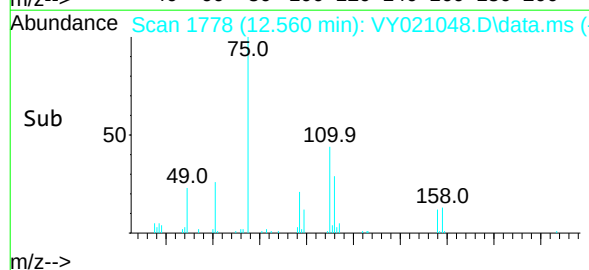
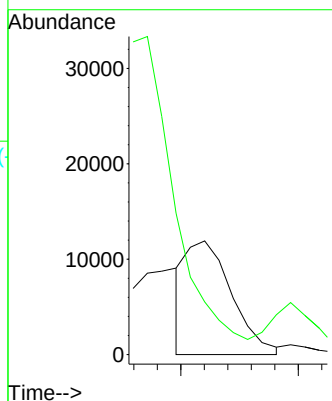
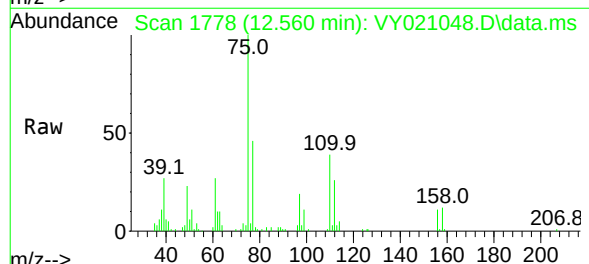
RT: 12.560 min Scan# 1778

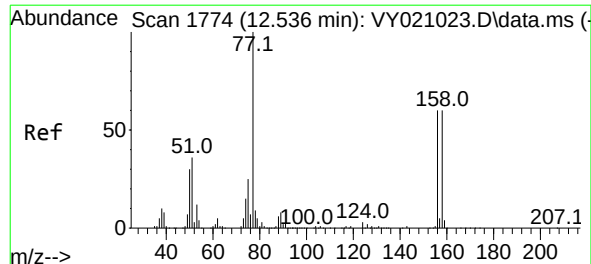
Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion:	75	Resp:	16082
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





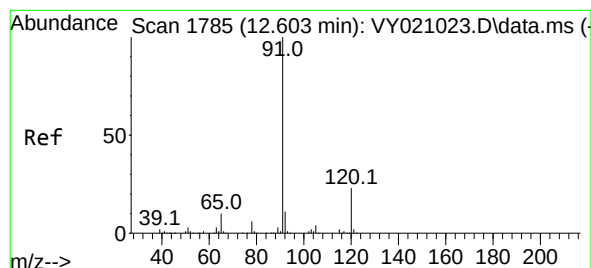
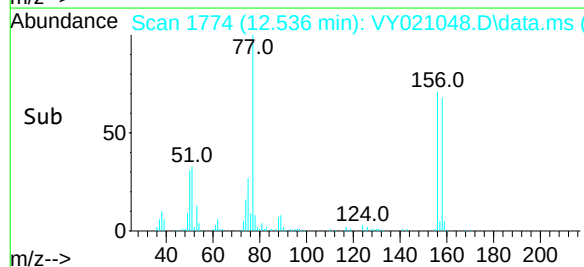
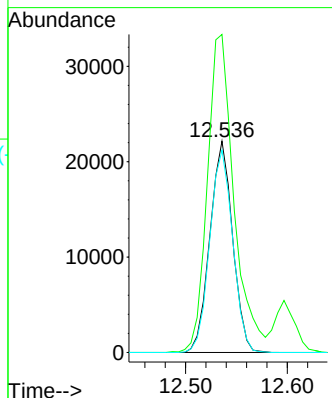
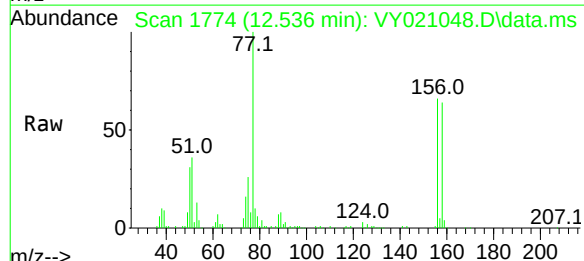
#77
Bromobenzene
Concen: 17.492 ug/l
RT: 12.536 min Scan# 1774
Delta R.T. 0.000 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Instrument :
MSVOA_Y
ClientSampleId :
VY0204SBS01

Tgt Ion: 156 Resp: 34360
Ion Ratio Lower Upper
156 100
77 176.0 97.3 291.8
158 96.9 48.4 145.0

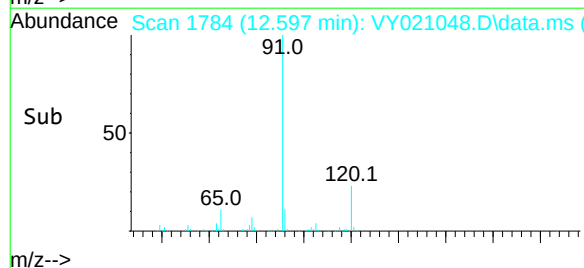
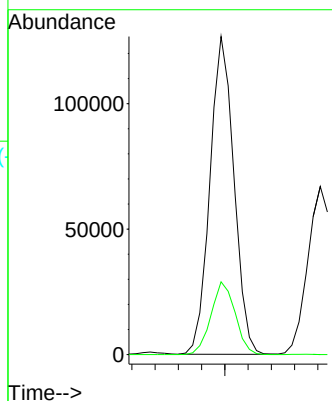
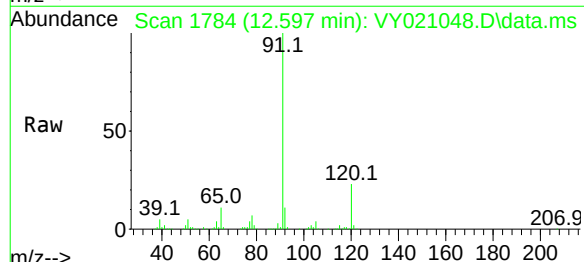
Manual Integrations
APPROVED

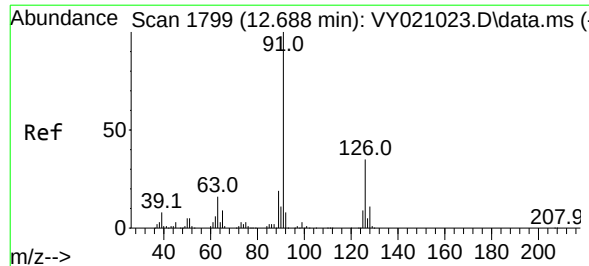
Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#78
n-propylbenzene
Concen: 17.943 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY021048.D
Acq: 04 Feb 2025 10:52

Tgt Ion: 91 Resp: 181949
Ion Ratio Lower Upper
91 100
120 23.0 11.0 33.0





#79

2-Chlorotoluene

Concen: 17.683 ug/l

RT: 12.682 min Scan# 1799

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion: 91 Resp: 102699

Ion Ratio Lower Upper

91 100

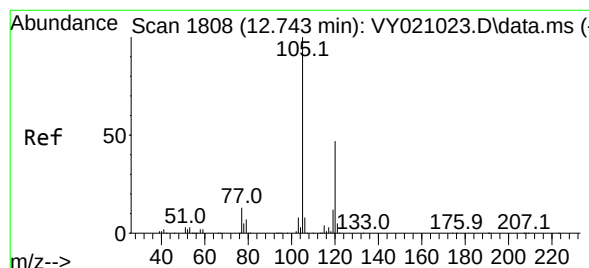
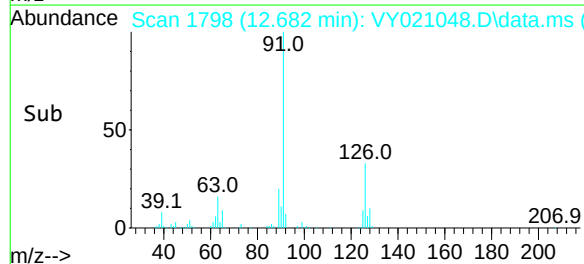
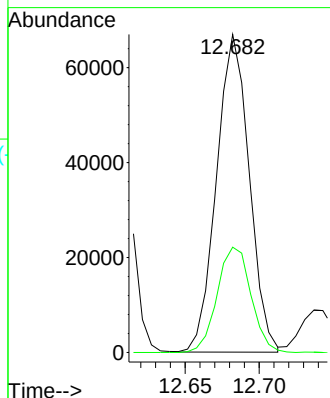
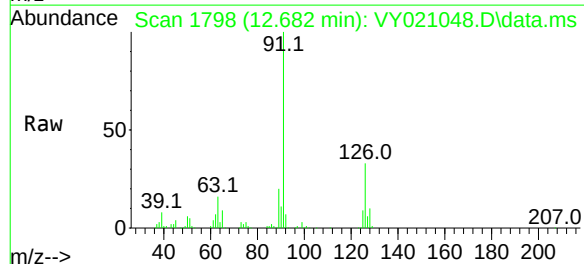
126 34.2 17.0 51.0

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#80

1,3,5-Trimethylbenzene

Concen: 18.254 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. -0.006 min

Lab File: VY021048.D

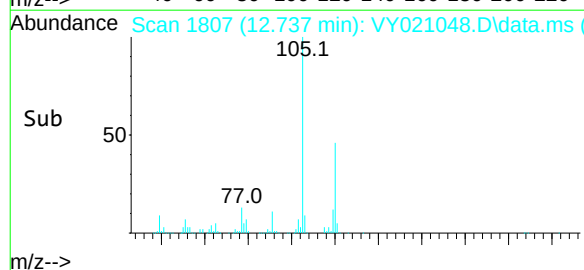
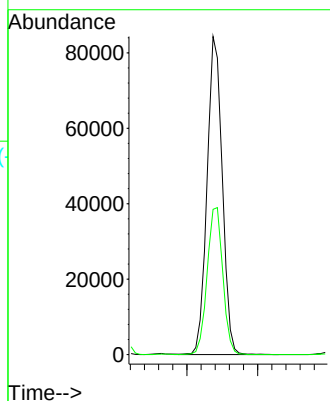
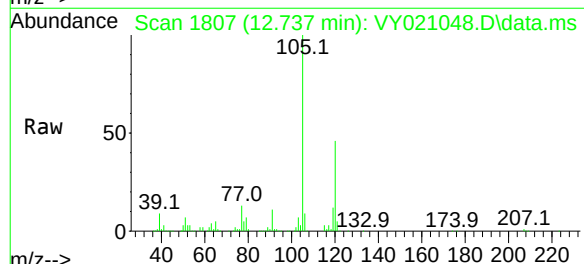
Acq: 04 Feb 2025 10:52

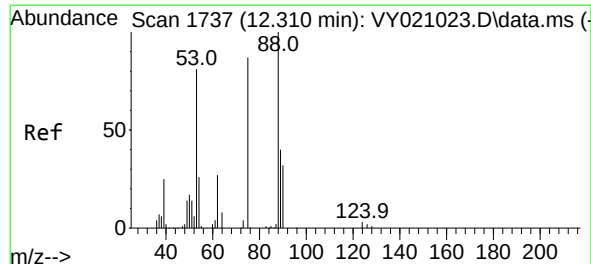
Tgt Ion:105 Resp: 125980

Ion Ratio Lower Upper

105 100

120 47.6 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 17.816 ug/l

RT: 12.304 min Scan# 1736

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

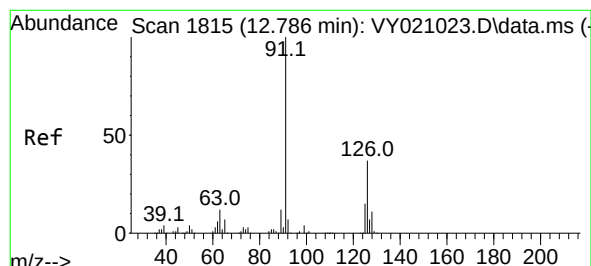
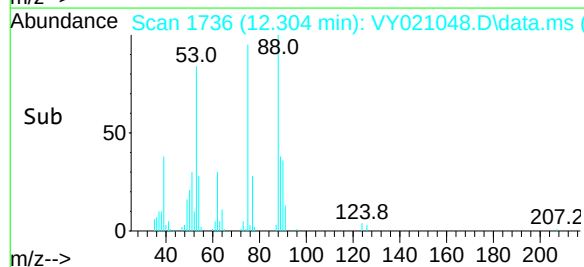
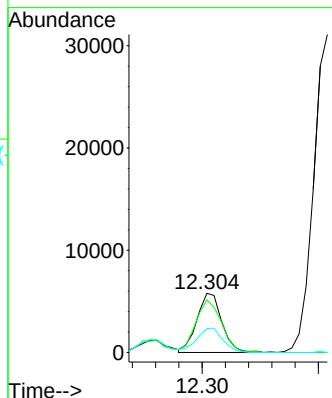
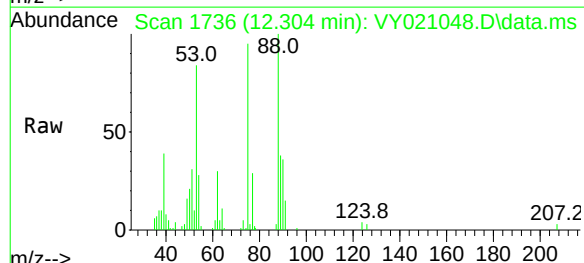
Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion:	75	Resp:	8631
Ion Ratio	Lower	Upper	
75	100		
53	91.1	74.0	111.0
89	42.9	36.5	54.7

Manual Integrations
APPROVEDReviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#82

4-Chlorotoluene

Concen: 17.955 ug/l

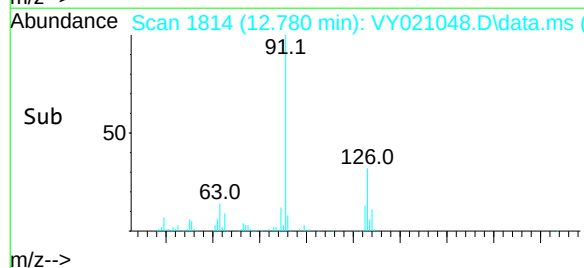
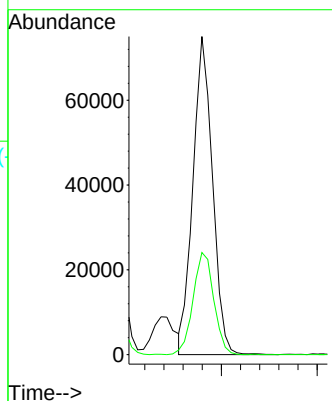
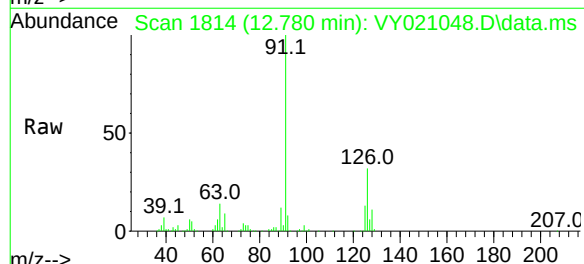
RT: 12.780 min Scan# 1814

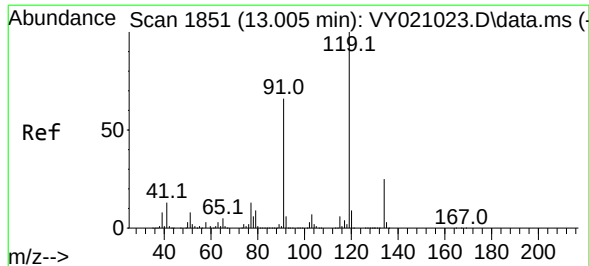
Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion:	91	Resp:	106247
Ion Ratio	Lower	Upper	
91	100		
126	34.0	17.1	51.2





#83

tert-Butylbenzene

Concen: 17.623 ug/l

RT: 12.999 min Scan# 1851

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

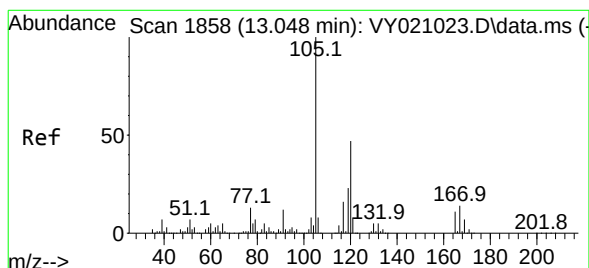
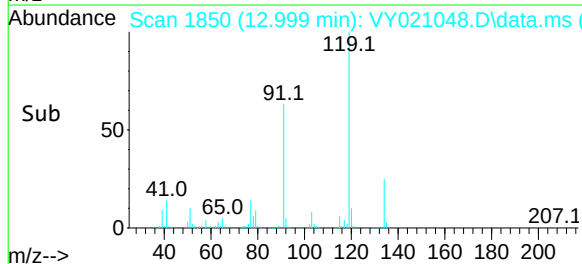
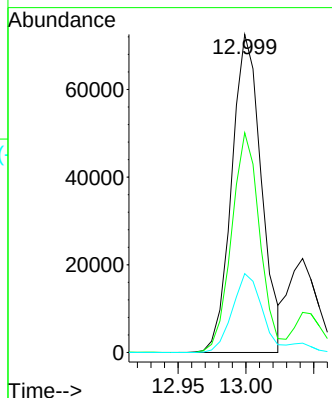
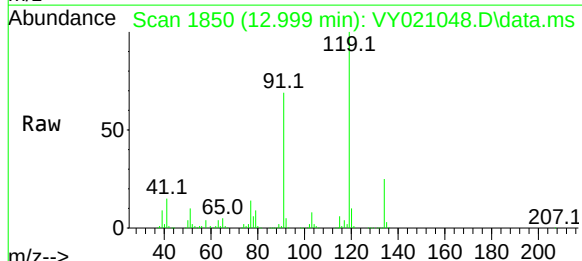
Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion:	119	Resp:	110553
Ion Ratio	Lower	Upper	
119	100		
91	66.3	31.5	94.5
134	25.0	13.1	39.3

Manual Integrations
APPROVEDReviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#84

1,2,4-Trimethylbenzene

Concen: 18.421 ug/l

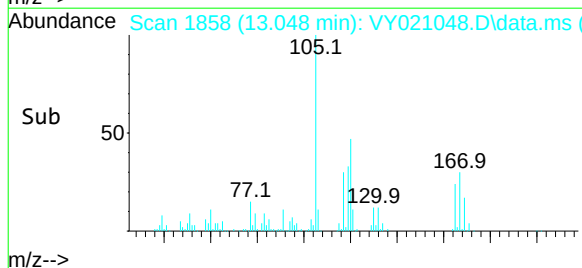
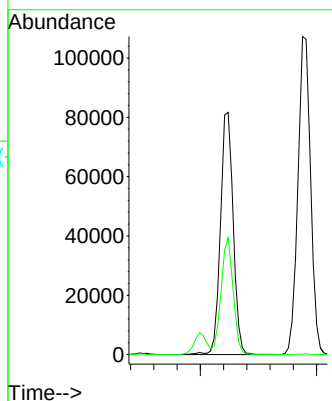
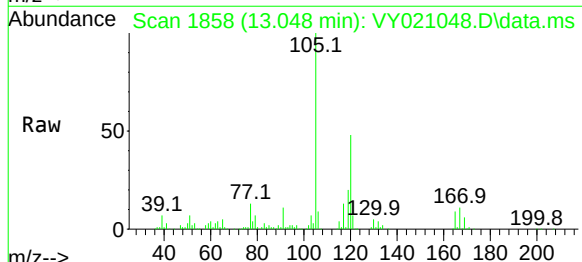
RT: 13.048 min Scan# 1858

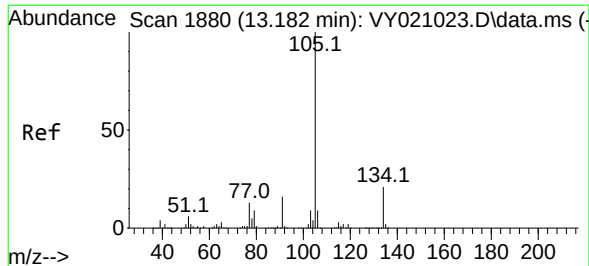
Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion:	105	Resp:	124310
Ion Ratio	Lower	Upper	
105	100		
120	45.7	22.1	66.3





#85

sec-Butylbenzene

Concen: 18.011 ug/l

RT: 13.176 min Scan# 1880

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion:105 Resp: 162645

Ion Ratio Lower Upper

105 100

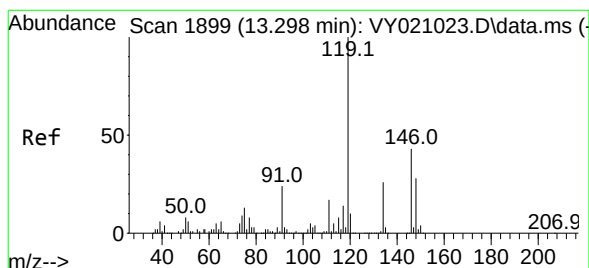
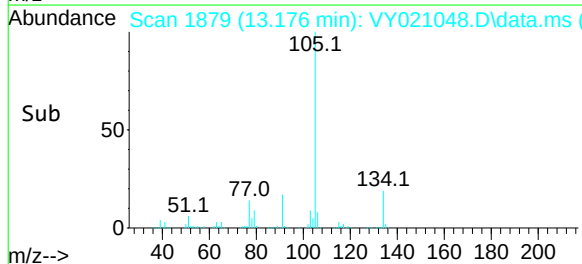
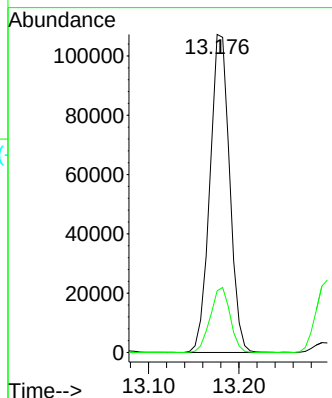
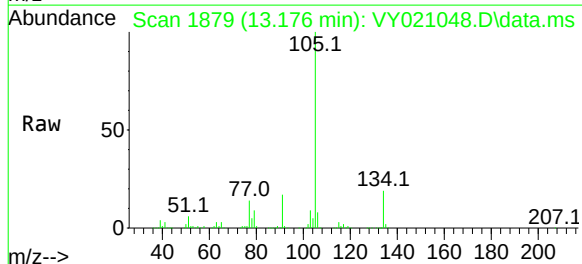
134 20.5 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#86

p-Isopropyltoluene

Concen: 18.222 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

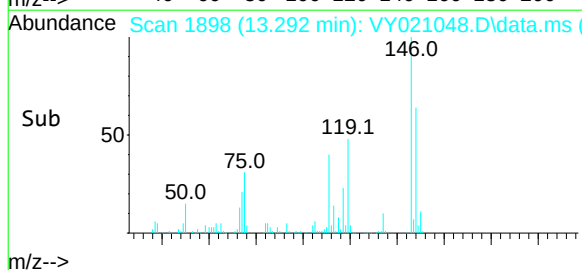
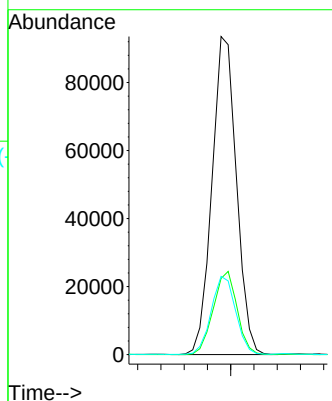
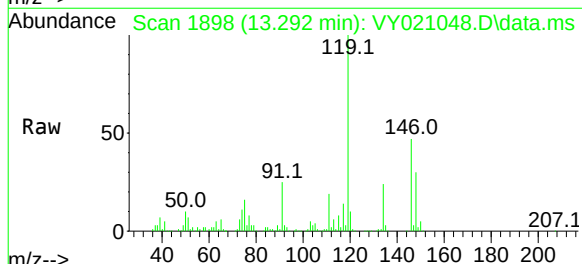
Tgt Ion:119 Resp: 136684

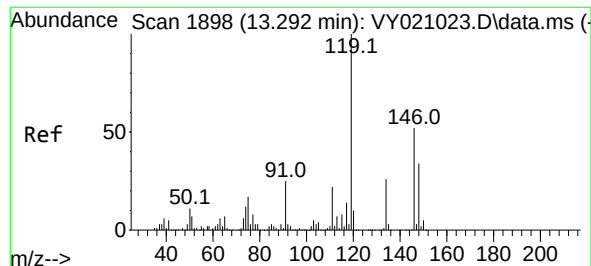
Ion Ratio Lower Upper

119 100

134 25.5 13.1 39.1

91 24.5 11.7 35.0





#87

1,3-Dichlorobenzene

Concen: 17.866 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

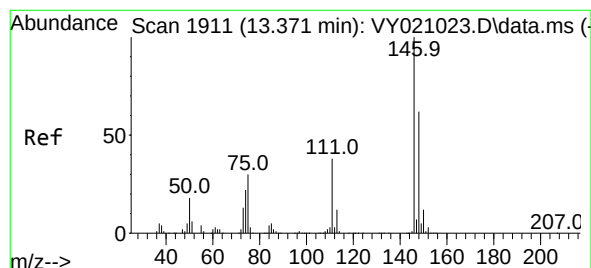
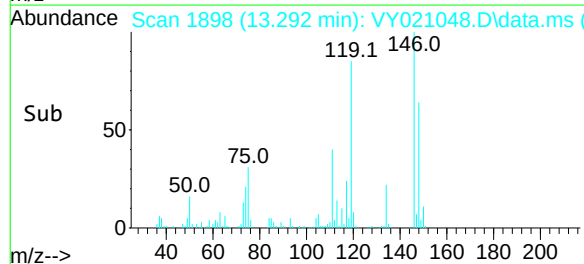
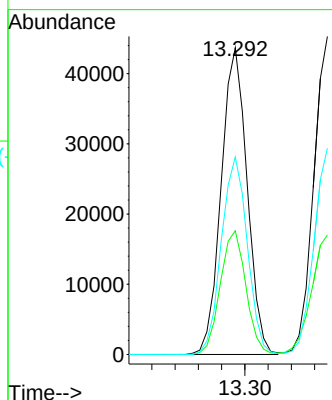
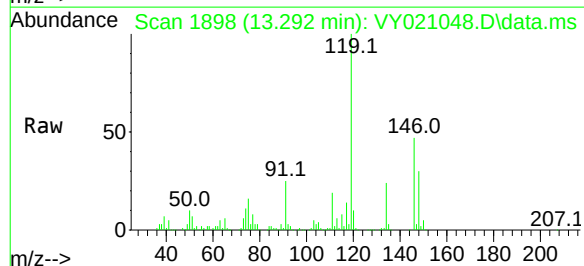
ClientSampleId :

VY0204SBS01

Tgt Ion:	146	Resp:	67765
Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.2	60.5
148	64.3	31.9	95.9

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#88

1,4-Dichlorobenzene

Concen: 18.319 ug/l

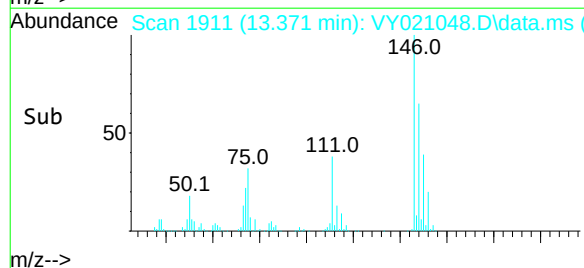
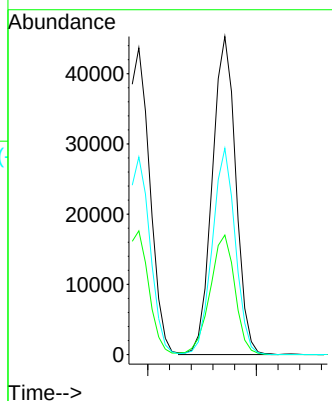
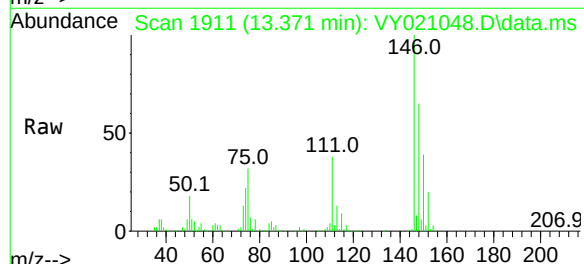
RT: 13.371 min Scan# 1911

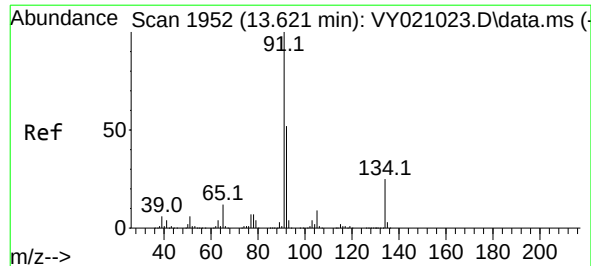
Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion:	146	Resp:	68413
Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.3	57.9
148	63.3	31.6	94.7





#89

n-Butylbenzene

Concen: 18.446 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

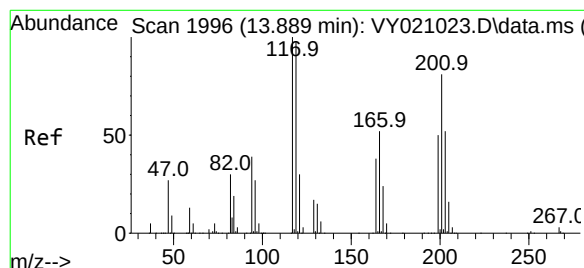
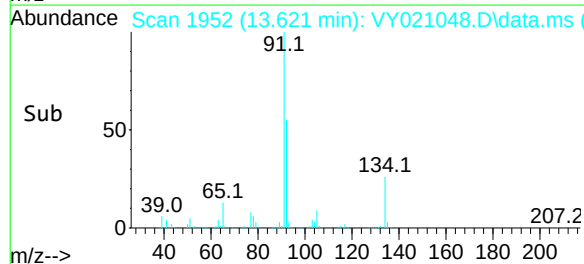
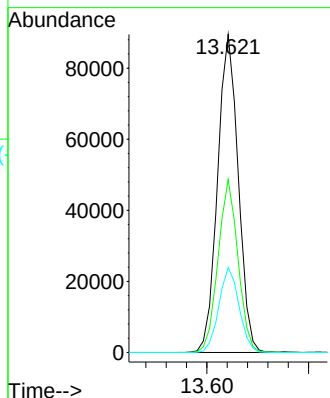
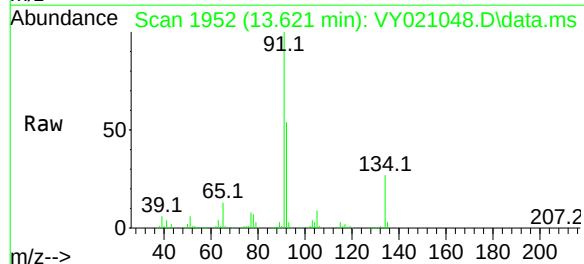
Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion:	91	Resp:	126230
Ion Ratio	Lower	Upper	
91	100		
92	52.5	26.4	79.2
134	26.1	12.3	36.8

Manual Integrations
APPROVEDReviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#90

Hexachloroethane

Concen: 17.851 ug/l

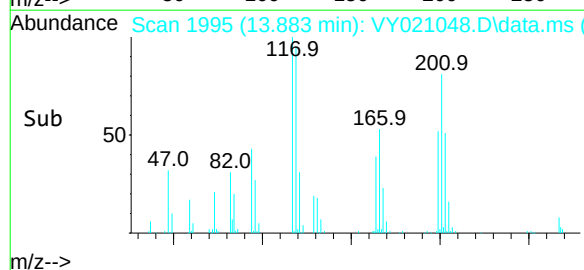
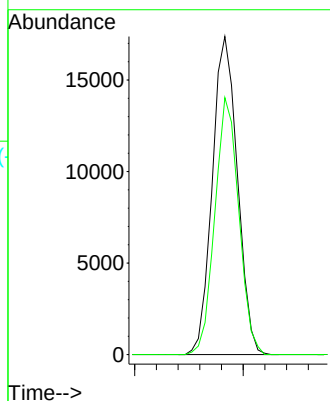
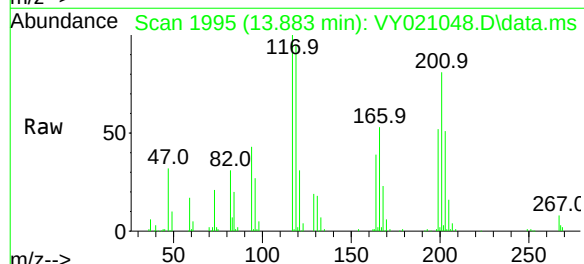
RT: 13.883 min Scan# 1995

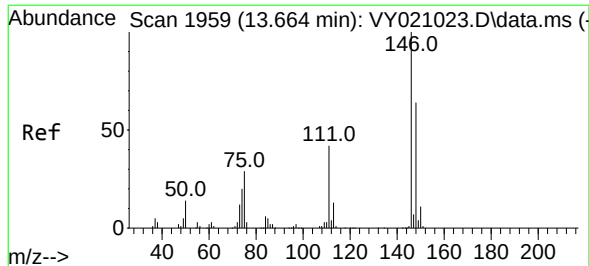
Delta R.T. -0.006 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion:	117	Resp:	27935
Ion Ratio	Lower	Upper	
117	100		
201	76.8	33.4	100.1





#91

1,2-Dichlorobenzene

Concen: 18.224 ug/l

RT: 13.664 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

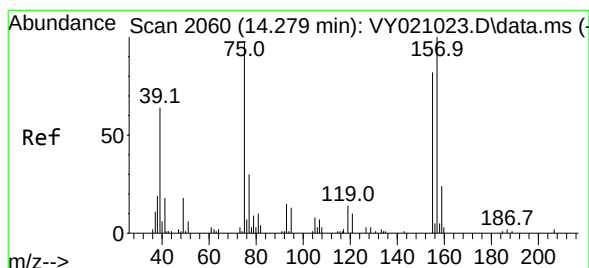
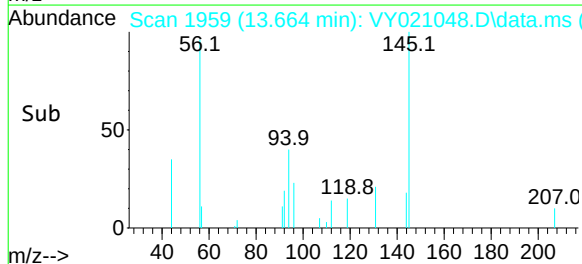
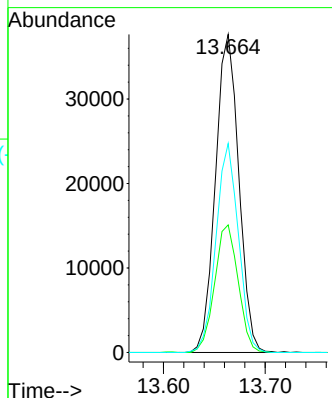
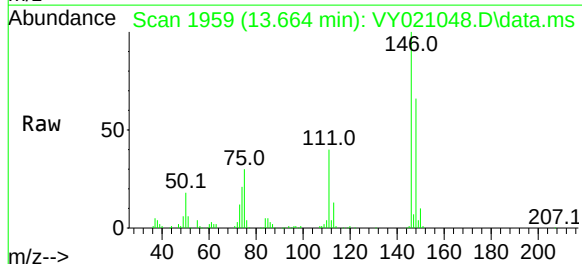
Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion:	146	Resp:	59994
Ion Ratio	Lower	Upper	
146	100		
111	40.4	20.5	61.6
148	63.0	31.4	94.3

Manual Integrations
APPROVEDReviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#92

1,2-Dibromo-3-Chloropropane

Concen: 16.307 ug/l

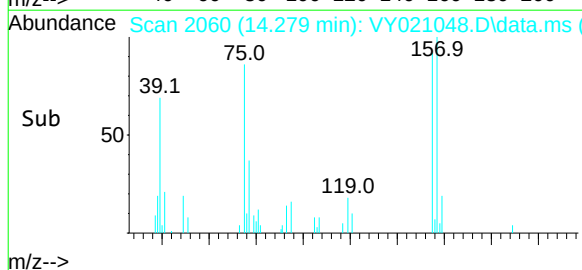
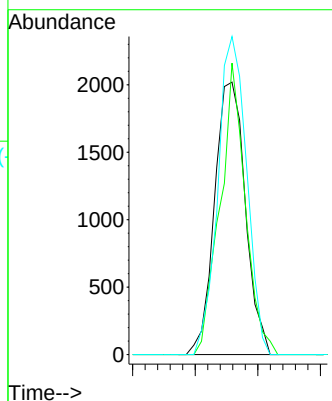
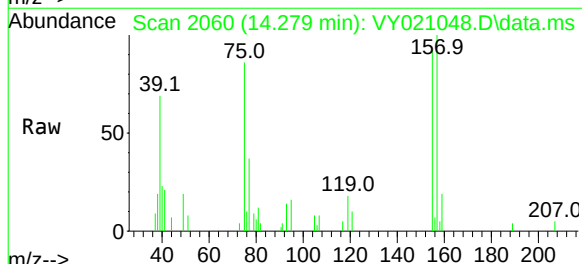
RT: 14.279 min Scan# 2060

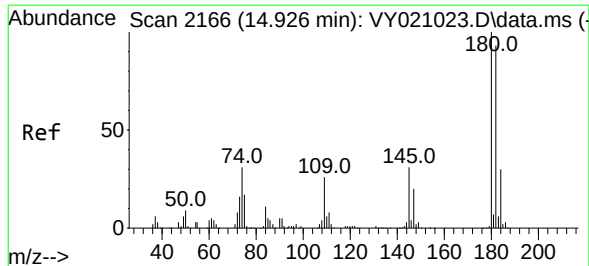
Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion:	75	Resp:	3450
Ion Ratio	Lower	Upper	
75	100		
155	88.2	42.1	126.3
157	109.2	55.8	167.4





#93

1,2,4-Trichlorobenzene

Concen: 18.321 ug/l

RT: 14.926 min Scan# 2166

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

ClientSampleId :

VY0204SBS01

Tgt Ion:180 Resp: 33572

Ion Ratio Lower Upper

180 100

182 92.0 47.9 143.7

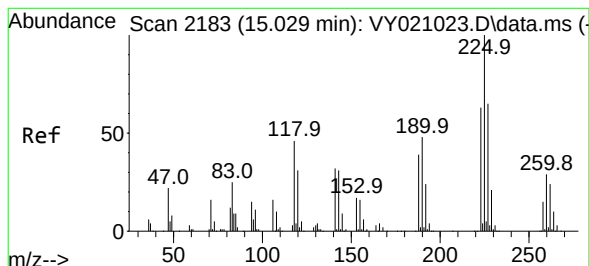
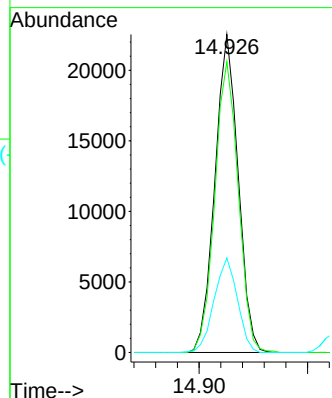
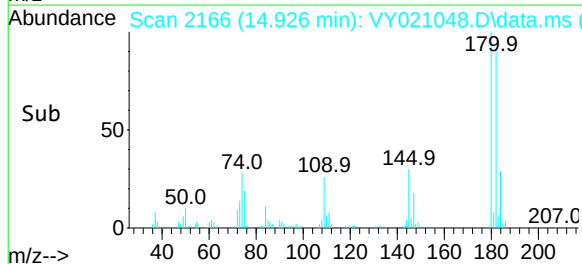
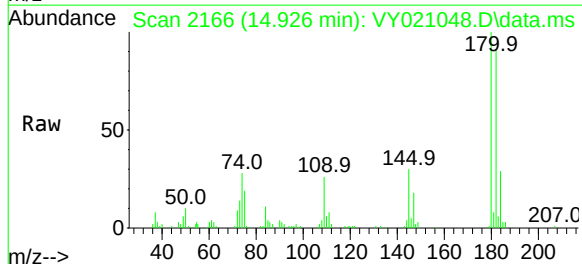
145 29.7 15.9 47.7

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#94

Hexachlorobutadiene

Concen: 18.801 ug/l

RT: 15.029 min Scan# 2183

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

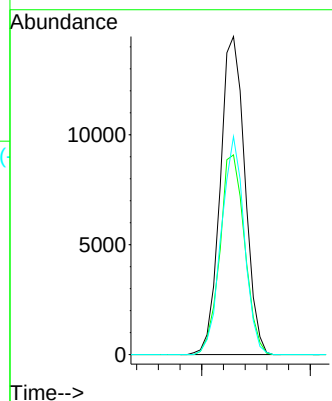
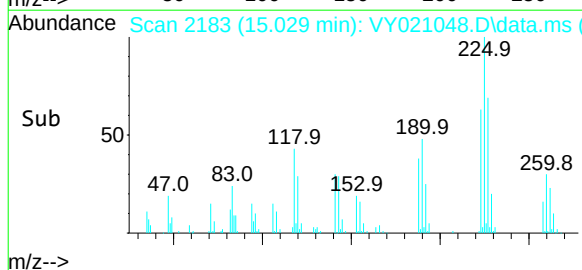
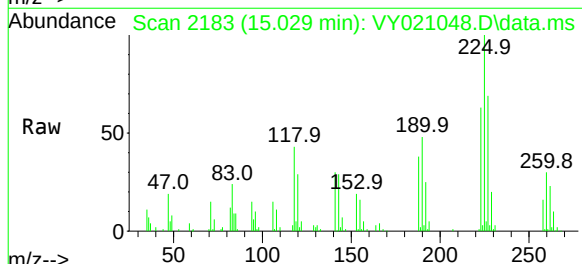
Tgt Ion:225 Resp: 22831

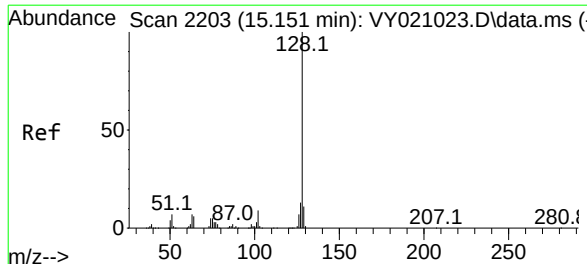
Ion Ratio Lower Upper

225 100

223 63.2 31.4 94.3

227 63.7 32.3 96.8





#95

Naphthalene

Concen: 16.901 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Instrument :

MSVOA_Y

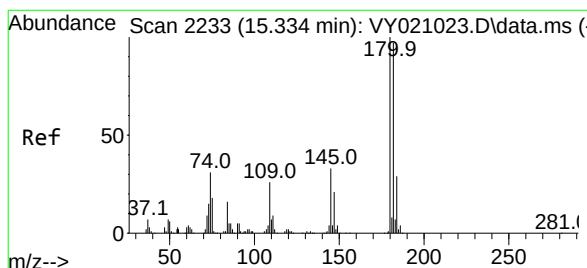
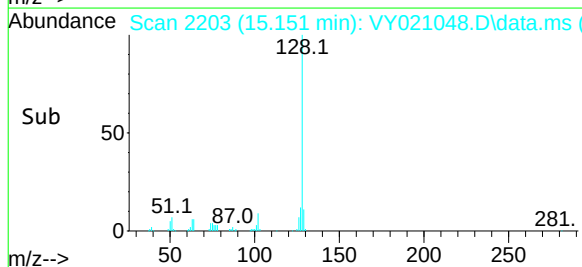
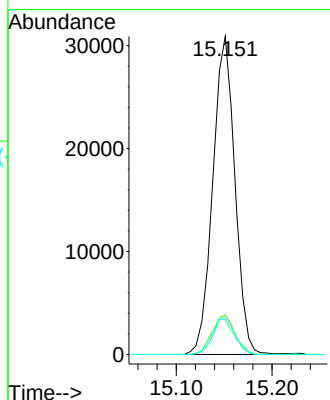
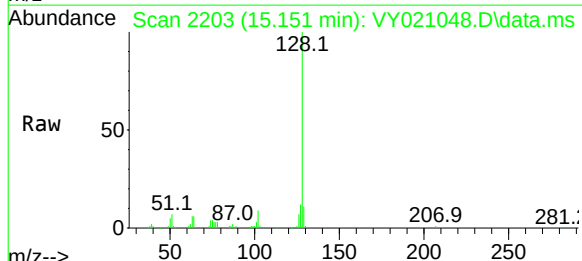
ClientSampleId :

VY0204SBS01

Tgt Ion:	128	Resp:	49550
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.2	15.4
129	11.0	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#96

1,2,3-Trichlorobenzene

Concen: 17.849 ug/l

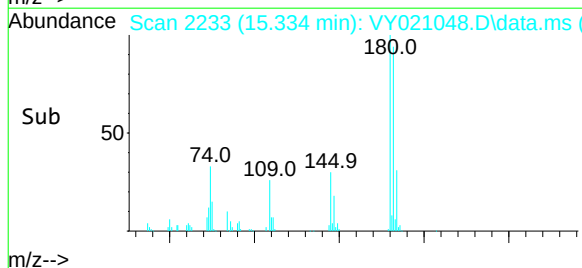
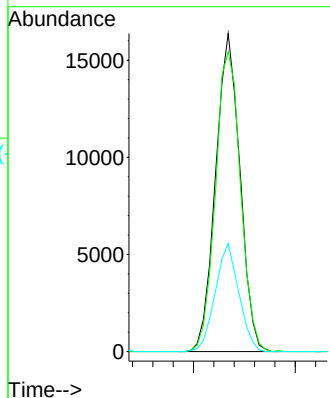
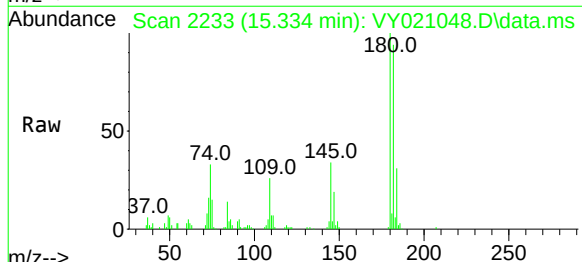
RT: 15.334 min Scan# 2233

Delta R.T. 0.000 min

Lab File: VY021048.D

Acq: 04 Feb 2025 10:52

Tgt Ion:	180	Resp:	27220
Ion Ratio	Lower	Upper	
180	100		
182	97.0	46.3	138.8
145	33.0	16.1	48.2



Report of Analysis

Client:	RU2 Engineering, LLC			Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR			Date Received:	
Client Sample ID:	VY0203SBSD01			SDG No.:	Q1207
Lab Sample ID:	VY0203SBSD01			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	100
Sample Wt/Vol:	5	Units:	g	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021030.D	1		02/03/25 15:17	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.0		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.7		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	18.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.3		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	120		15.6	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	19.6		0.78	5.00	ug/Kg
67-64-1	Acetone	97.7		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.9		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.6		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.3		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.7		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	99.3		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.2		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.0		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	18.1		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.2		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.4		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.87	5.00	ug/Kg
71-43-2	Benzene	19.4		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.3		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.5		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	18.9		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.9		4.40	25.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	
Client Sample ID:	VY0203SBSD01		SDG No.:	Q1207
Lab Sample ID:	VY0203SBSD01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021030.D	1		02/03/25 15:17	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	19.8		0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.5		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.2		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.3		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	99.3		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.2		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.0		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.9		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.70	5.00	ug/Kg
100-42-5	Styrene	20.1		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.5		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.3		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.9		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.3		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		50 - 163	98%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		54 - 147	97%	SPK: 50
2037-26-5	Toluene-d8	50.2		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		29 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	204000	7.713			
540-36-3	1,4-Difluorobenzene	314000	8.616			
3114-55-4	Chlorobenzene-d5	262000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.352			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBSD01	SDG No.:	Q1207
Lab Sample ID:	VY0203SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021030.D	1		02/03/25 15:17	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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_Y\Data\VY020325\
 Data File : VY021030.D
 Acq On : 03 Feb 2025 15:17
 Operator : SY/MD
 Sample : VY0203SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0203SBS01

Quant Time: Feb 04 00:55:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	203811	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	313701	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	262239	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	128240	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	102274	48.977	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	97.960%		
35) Dibromofluoromethane	7.640	113	97150	48.324	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	96.640%		
50) Toluene-d8	10.109	98	384555	50.244	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	100.480%		
62) 4-Bromofluorobenzene	12.408	95	124160	49.655	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	99.320%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	35336	19.452	ug/l	98
3) Chloromethane	2.074	50	34075	19.010	ug/l	98
4) Vinyl Chloride	2.208	62	33649	18.650	ug/l	98
5) Bromomethane	2.592	94	21460	19.245	ug/l	100
6) Chloroethane	2.739	64	20314	18.914	ug/l	95
7) Trichlorofluoromethane	3.062	101	63427	19.296	ug/l	97
8) Diethyl Ether	3.458	74	19173	18.685	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.824	101	40722	19.740	ug/l	96
10) Methyl Iodide	4.013	142	40731	17.772	ug/l	93
11) Tert butyl alcohol	4.854	59	16277	115.025	ug/l	100
12) 1,1-Dichloroethene	3.793	96	38055	19.583	ug/l	88
13) Acrolein	3.653	56	20591	94.495	ug/l	98
14) Allyl chloride	4.391	41	62978	19.229	ug/l	96
15) Acrylonitrile	5.067	53	42298	98.991	ug/l	99
16) Acetone	3.872	43	31826	97.730	ug/l	94
17) Carbon Disulfide	4.110	76	115246	18.912	ug/l	100
18) Methyl Acetate	4.391	43	22107	19.338	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	96031	19.551	ug/l	98
20) Methylene Chloride	4.622	84	38991	19.260	ug/l	93
21) trans-1,2-Dichloroethene	5.122	96	40417	18.895	ug/l	93
22) Diisopropyl ether	6.024	45	132308	19.599	ug/l	97
23) Vinyl Acetate	5.964	43	364581	96.879	ug/l	98
24) 1,1-Dichloroethane	5.921	63	74128	18.742	ug/l	99
25) 2-Butanone	6.902	43	53128	99.280	ug/l	97
26) 2,2-Dichloropropane	6.890	77	71853	19.634	ug/l	96
27) cis-1,2-Dichloroethene	6.896	96	46845	19.026	ug/l	92
28) Bromochloromethane	7.244	49	28378	18.145	ug/l	99
29) Tetrahydrofuran	7.268	42	35907	99.162	ug/l	95
30) Chloroform	7.427	83	78127	19.231	ug/l	98
31) Cyclohexane	7.707	56	69517	19.518	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	73405	19.434	ug/l	99
36) 1,1-Dichloropropene	7.841	75	57574	19.335	ug/l	99
37) Ethyl Acetate	6.988	43	26043	19.936	ug/l	99
38) Carbon Tetrachloride	7.823	117	66761	19.188	ug/l	95
39) Methylcyclohexane	9.109	83	71757	19.701	ug/l	96
40) Benzene	8.085	78	169675	19.417	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021030.D
 Acq On : 03 Feb 2025 15:17
 Operator : SY/MD
 Sample : VY0203SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0203SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 04 00:55:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.238	41	15779m	20.879	ug/l	
42) 1,2-Dichloroethane	8.158	62	46850	19.327	ug/l	98
43) Isopropyl Acetate	8.201	43	51003	19.649	ug/l	98
44) Trichloroethene	8.865	130	43665	19.340	ug/l	90
45) 1,2-Dichloropropane	9.146	63	40381	19.469	ug/l	99
46) Dibromomethane	9.231	93	21652	18.854	ug/l	96
47) Bromodichloromethane	9.426	83	58105	18.866	ug/l	96
48) Methyl methacrylate	9.225	41	23908	20.221	ug/l	95
49) 1,4-Dioxane	9.231	88	4802	449.174	ug/l	96
51) 4-Methyl-2-Pentanone	9.999	43	130407	99.907	ug/l	97
52) Toluene	10.170	92	108618	19.795	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	53855	19.474	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	62722	19.155	ug/l	93
55) 1,1,2-Trichloroethane	10.572	97	28643	19.261	ug/l	97
56) Ethyl methacrylate	10.438	69	38293	19.248	ug/l	93
57) 1,3-Dichloropropane	10.719	76	49212	19.119	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	87401	92.345	ug/l	99
59) 2-Hexanone	10.761	43	83488	99.341	ug/l	96
60) Dibromochloromethane	10.914	129	40055	19.180	ug/l	96
61) 1,2-Dibromoethane	11.018	107	26497	19.022	ug/l	97
64) Tetrachloroethene	10.646	164	38789	19.925	ug/l	92
65) Chlorobenzene	11.444	112	114877	19.673	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	40654	19.591	ug/l	97
67) Ethyl Benzene	11.517	91	205913	19.937	ug/l	100
68) m/p-Xylenes	11.627	106	155455	40.235	ug/l	98
69) o-Xylene	11.956	106	71181	19.760	ug/l	96
70) Styrene	11.975	104	120377	20.050	ug/l	98
71) Bromoform	12.133	173	23075	19.978	ug/l #	98
73) Isopropylbenzene	12.255	105	195561	19.522	ug/l	99
74) N-amyl acetate	12.072	43	42327	19.327	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.511	83	31960	19.184	ug/l	100
76) 1,2,3-Trichloropropane	12.560	75	20496m	17.619	ug/l	
77) Bromobenzene	12.536	156	45033	19.481	ug/l	94
78) n-propylbenzene	12.596	91	236000	19.777	ug/l	99
79) 2-Chlorotoluene	12.682	91	131856	19.293	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	159660	19.658	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	10414	18.267	ug/l	92
82) 4-Chlorotoluene	12.779	91	134650	19.337	ug/l	100
83) tert-Butylbenzene	12.999	119	142840	19.349	ug/l	96
84) 1,2,4-Trimethylbenzene	13.048	105	157049	19.776	ug/l	100
85) sec-Butylbenzene	13.176	105	206803	19.461	ug/l	97
86) p-Isopropyltoluene	13.291	119	173840	19.693	ug/l	98
87) 1,3-Dichlorobenzene	13.291	146	86944	19.479	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	84756	19.285	ug/l	98
89) n-Butylbenzene	13.621	91	157518	19.560	ug/l	99
90) Hexachloroethane	13.883	117	35386	19.216	ug/l	86
91) 1,2-Dichlorobenzene	13.663	146	74806	19.309	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4709	18.915	ug/l	96
93) 1,2,4-Trichlorobenzene	14.925	180	40804	18.922	ug/l	98
94) Hexachlorobutadiene	15.029	225	27082	18.952	ug/l	98
95) Naphthalene	15.151	128	64732	18.763	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	34588	19.274	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
Data File : VY021030.D
Acq On : 03 Feb 2025 15:17
Operator : SY/MD
Sample : VY0203SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

Quant Time: Feb 04 00:55:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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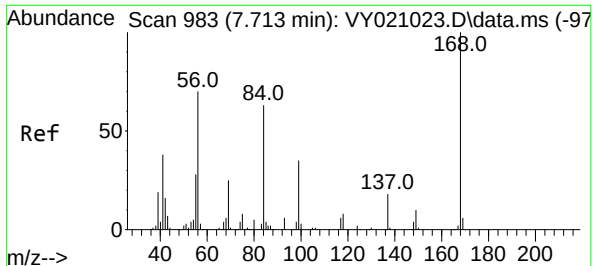
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025





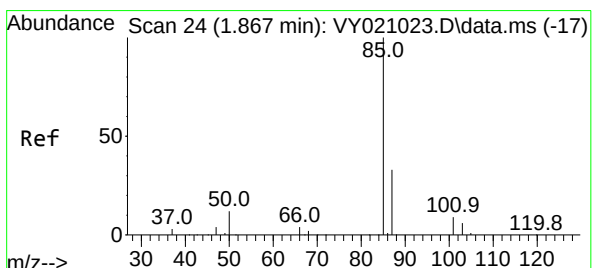
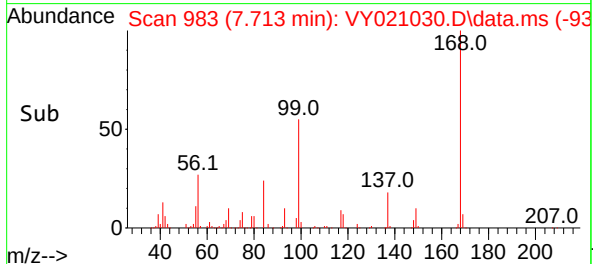
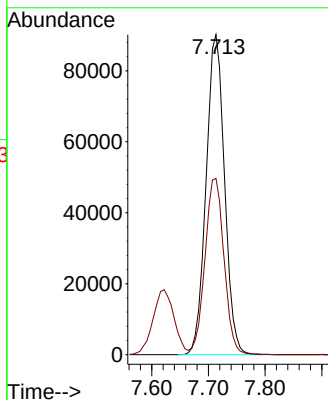
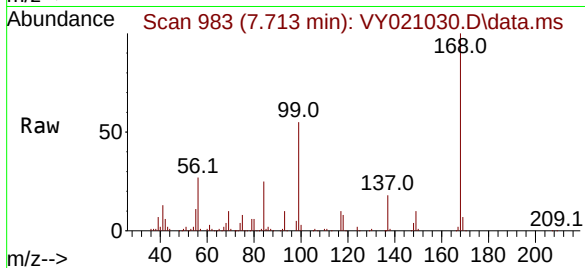
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBS01

Tgt Ion:168 Resp: 20381
Ion Ratio Lower Upper
168 100
99 55.1 44.2 66.4

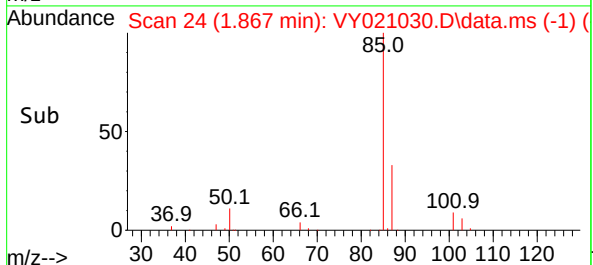
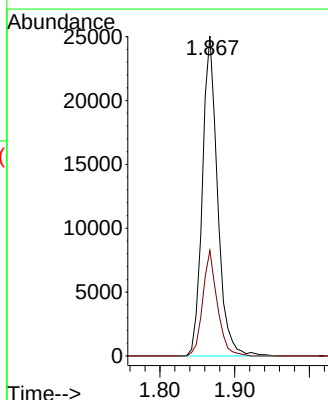
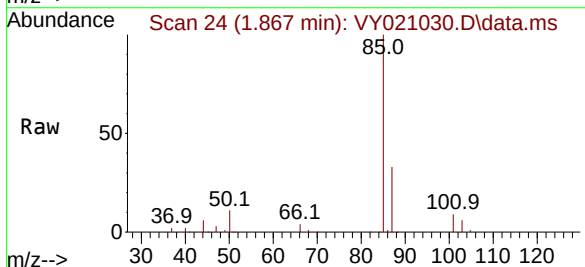
Manual Integrations
APPROVED

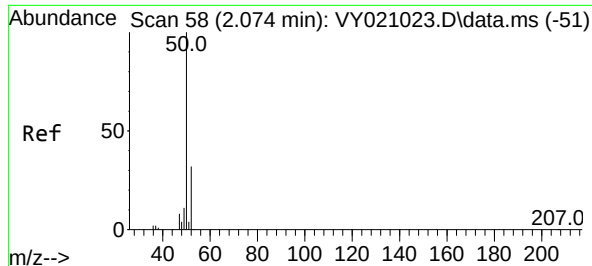
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#2
Dichlorodifluoromethane
Concen: 19.452 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion: 85 Resp: 35336
Ion Ratio Lower Upper
85 100
87 32.9 17.1 51.3





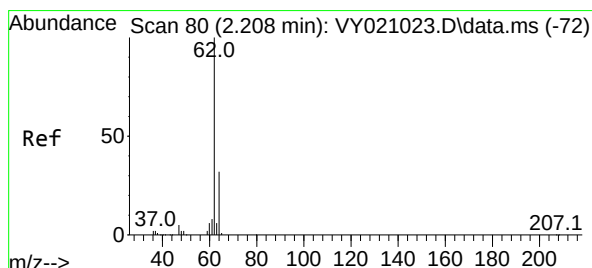
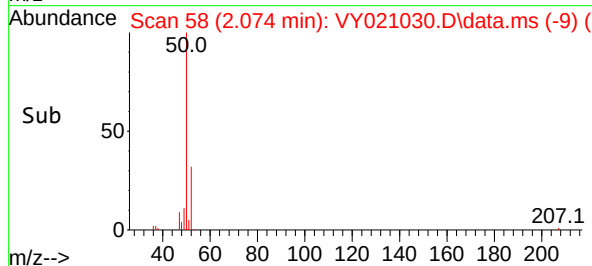
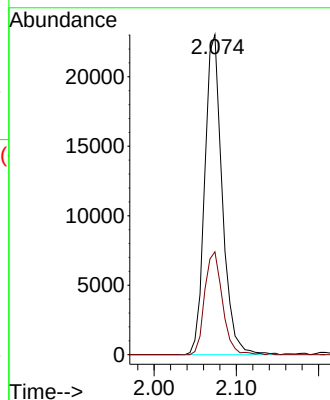
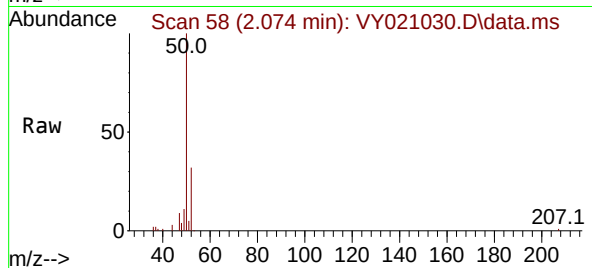
#3
Chloromethane
Concen: 19.010 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Tgt Ion: 50 Resp: 34075
Ion Ratio Lower Upper
50 100
52 32.2 26.7 40.1

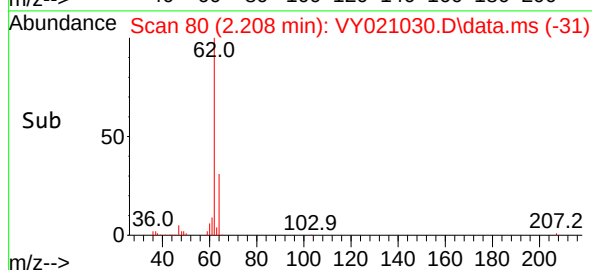
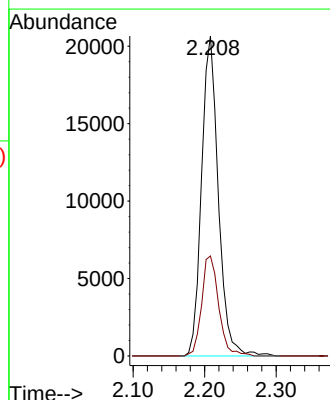
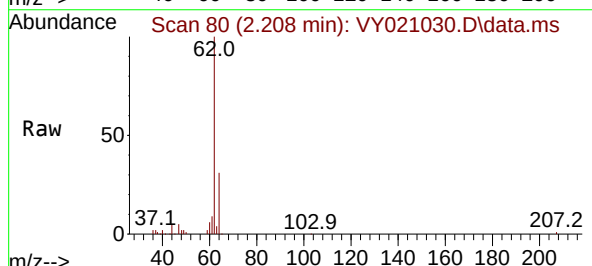
Manual Integrations
APPROVED

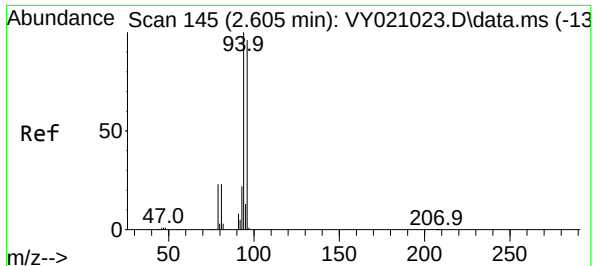
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#4
Vinyl Chloride
Concen: 18.650 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion: 62 Resp: 33649
Ion Ratio Lower Upper
62 100
64 31.2 25.7 38.5





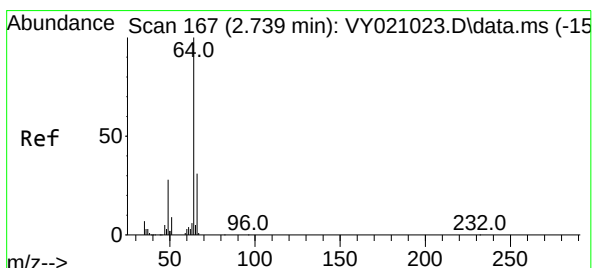
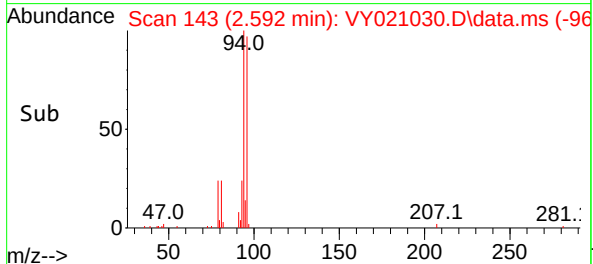
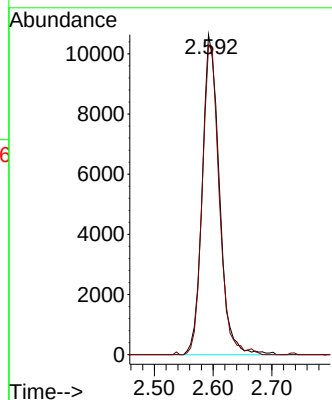
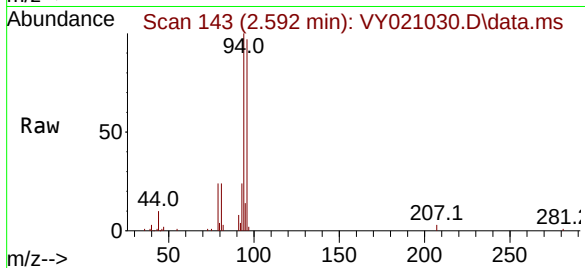
#5
Bromomethane
Concen: 19.245 ug/l
RT: 2.592 min Scan# 145
Delta R.T. -0.012 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Tgt Ion: 94 Resp: 21460
Ion Ratio Lower Upper
94 100
96 96.5 77.3 115.9

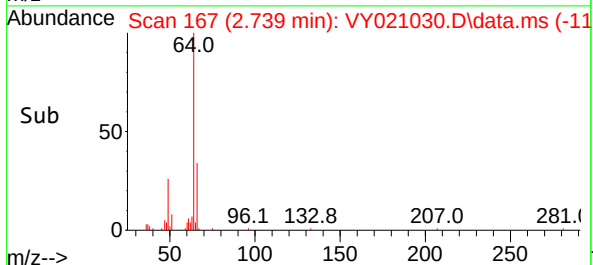
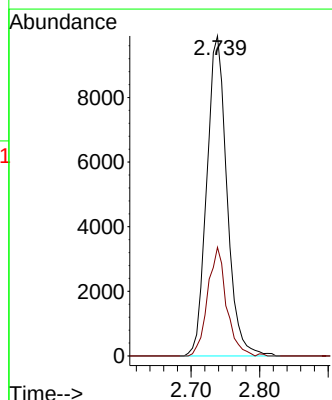
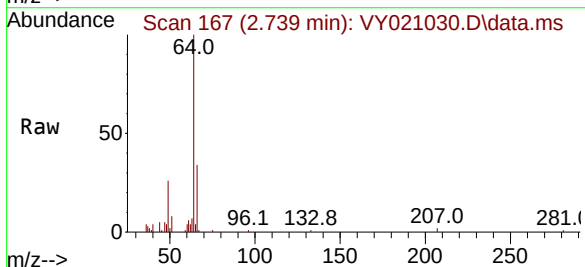
Manual Integrations
APPROVED

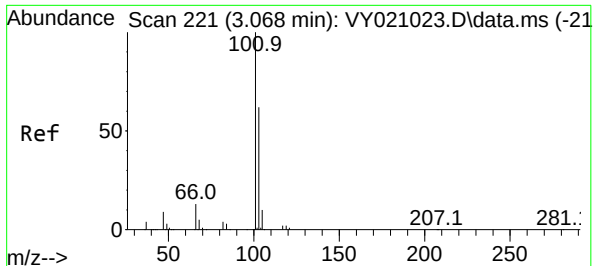
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#6
Chloroethane
Concen: 18.914 ug/l
RT: 2.739 min Scan# 167
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion: 64 Resp: 20314
Ion Ratio Lower Upper
64 100
66 33.9 25.1 37.7





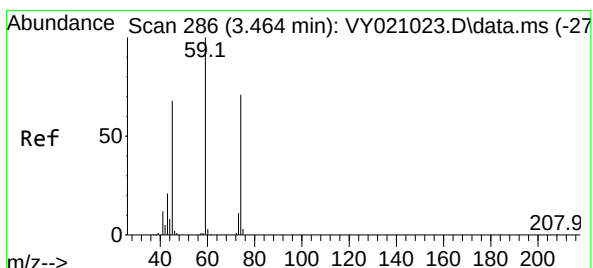
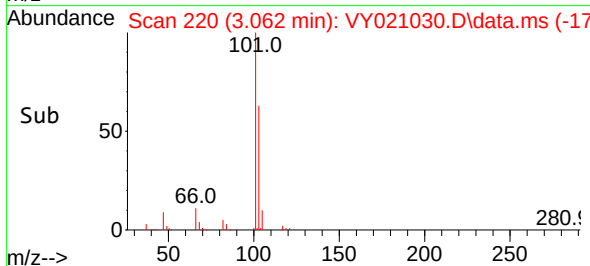
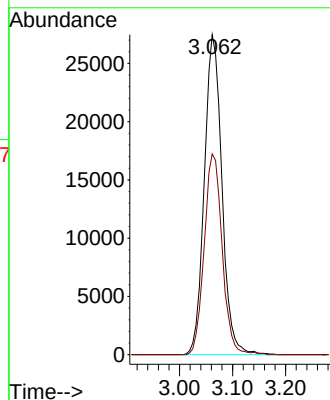
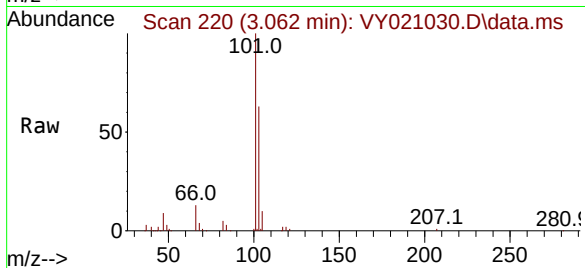
#7
Trichlorofluoromethane
Concen: 19.296 ug/l
RT: 3.062 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Tgt Ion:101 Resp: 6342
Ion Ratio Lower Upper
101 100
103 62.7 51.9 77.9

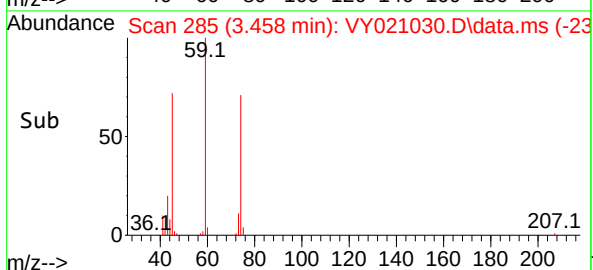
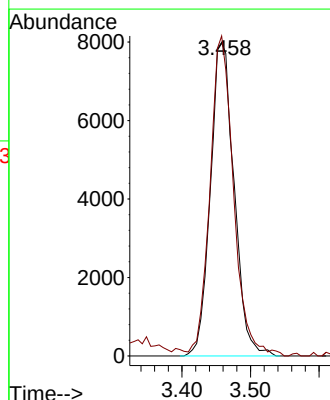
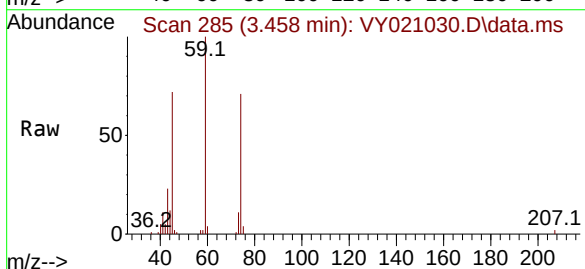
Manual Integrations
APPROVED

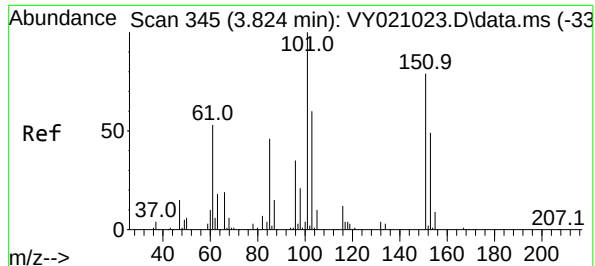
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#8
Diethyl Ether
Concen: 18.685 ug/l
RT: 3.458 min Scan# 285
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion: 74 Resp: 19173
Ion Ratio Lower Upper
74 100
45 101.7 47.9 143.7





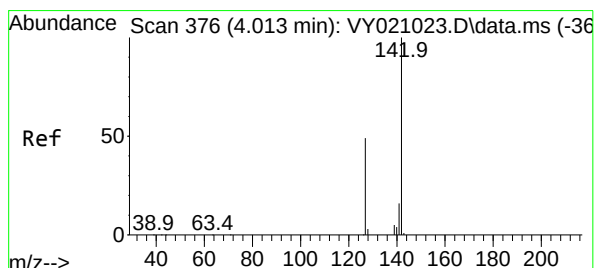
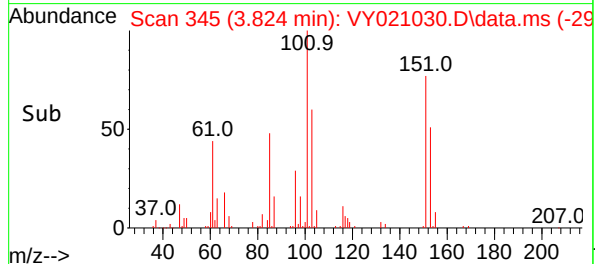
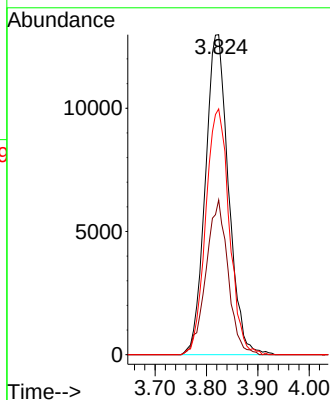
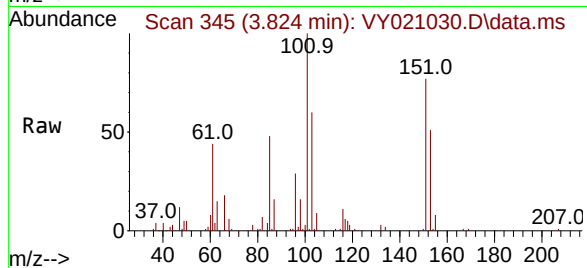
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.740 ug/l
RT: 3.824 min Scan# 345
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Tgt Ion:101 Resp: 4072
Ion Ratio Lower Upper
101 100
85 45.9 35.8 53.6
151 78.0 58.6 88.0

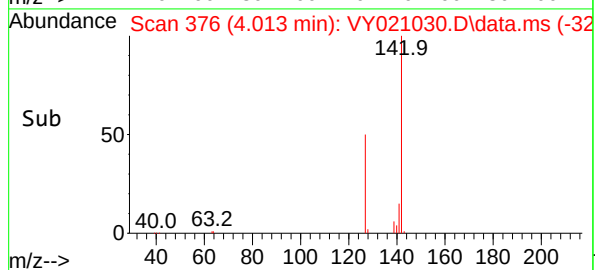
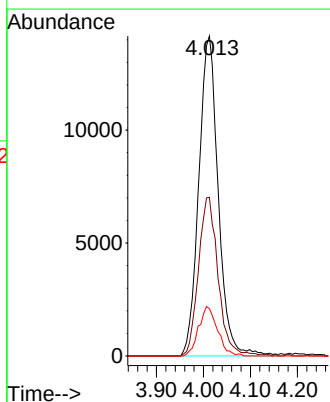
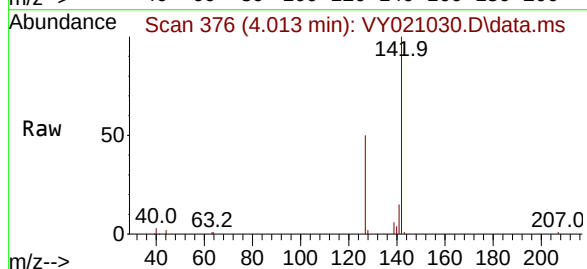
Manual Integrations
APPROVED

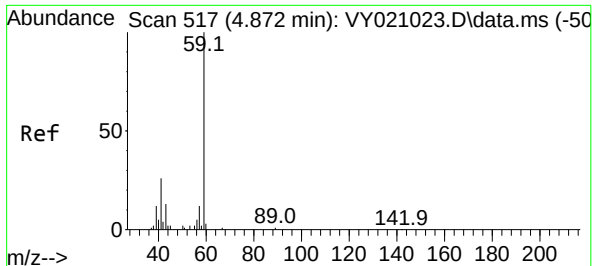
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#10
Methyl Iodide
Concen: 17.772 ug/l
RT: 4.013 min Scan# 376
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion:142 Resp: 40731
Ion Ratio Lower Upper
142 100
127 50.2 35.1 52.7
141 14.9 11.8 17.6





#11

Tert butyl alcohol

Concen: 115.025 ug/l

RT: 4.854 min Scan# 517

Delta R.T. -0.019 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion: 59 Resp: 1627

Ion Ratio Lower Upper

59 100

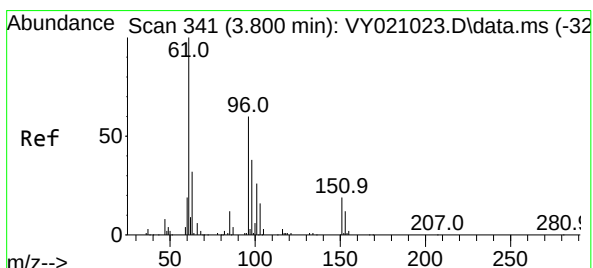
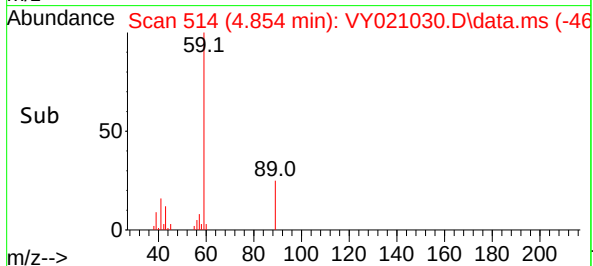
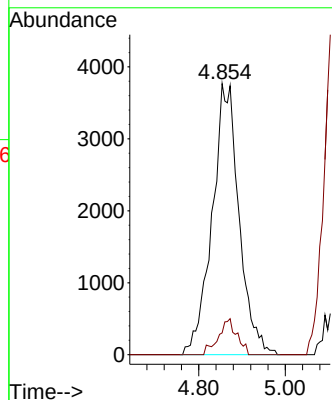
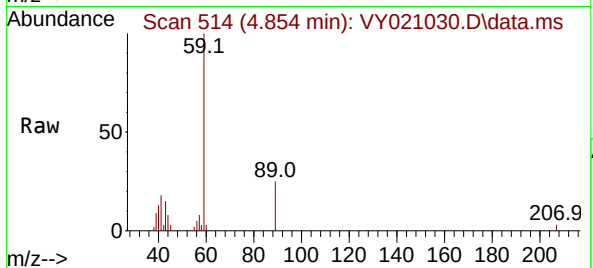
57 9.0 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#12

1,1-Dichloroethene

Concen: 19.583 ug/l

RT: 3.793 min Scan# 340

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

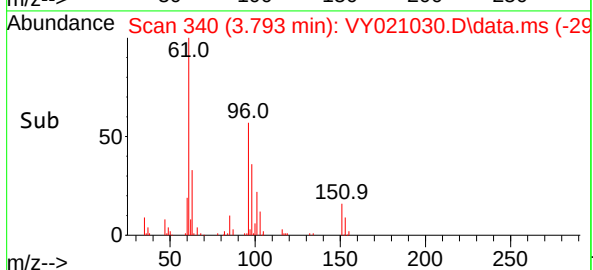
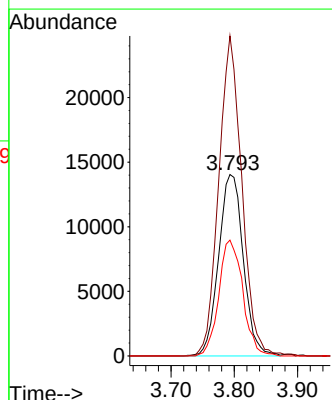
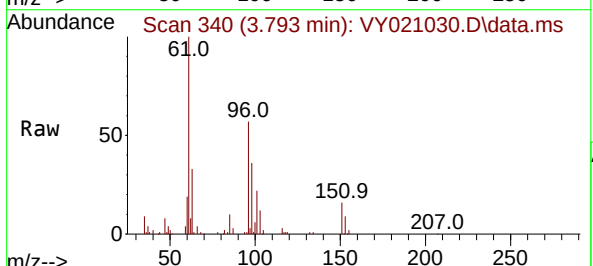
Tgt Ion: 96 Resp: 38055

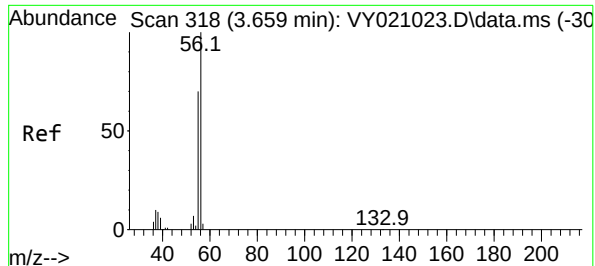
Ion Ratio Lower Upper

96 100

61 176.3 124.2 186.2

98 63.9 52.6 79.0





#13

Acrolein

Concen: 94.495 ug/l

RT: 3.653 min Scan# 317

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion: 56 Resp: 2059

Ion Ratio Lower Upper

56 100

55 70.6 55.4 83.0

Instrument :

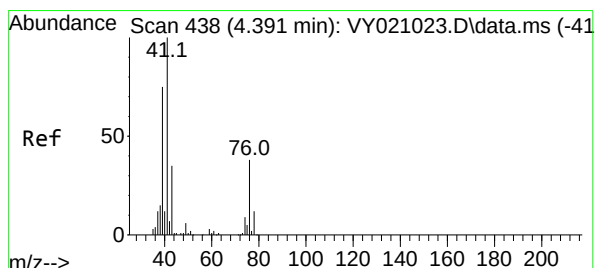
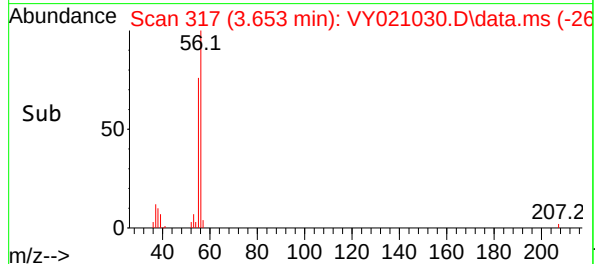
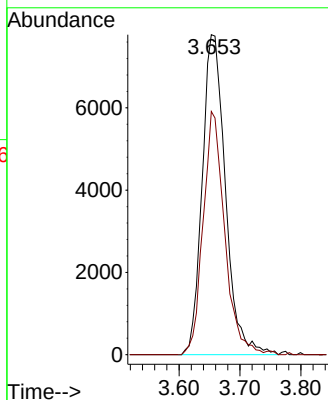
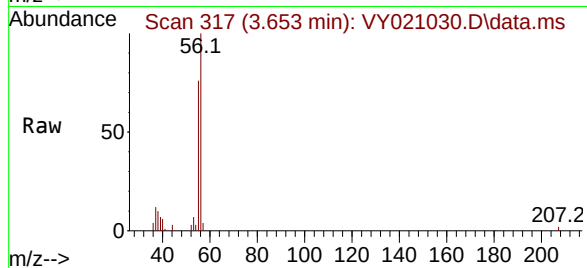
MSVOA_Y

ClientSampleId :

VY0203SBSD01

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#14

Allyl chloride

Concen: 19.229 ug/l

RT: 4.391 min Scan# 438

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

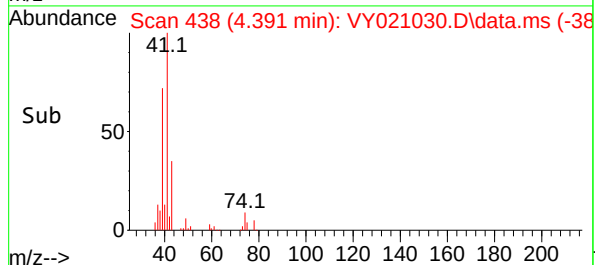
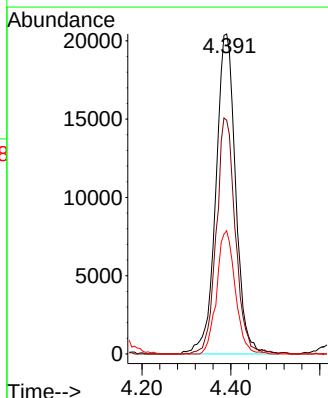
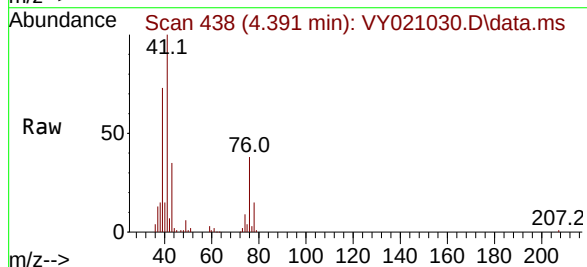
Tgt Ion: 41 Resp: 62978

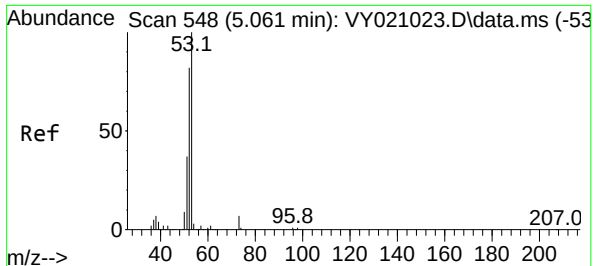
Ion Ratio Lower Upper

41 100

39 71.0 54.7 82.1

76 36.1 31.8 47.6





#15

Acrylonitrile

Concen: 98.991 ug/l

RT: 5.067 min Scan# 54

Delta R.T. 0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

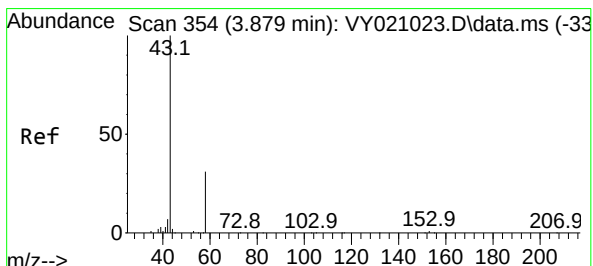
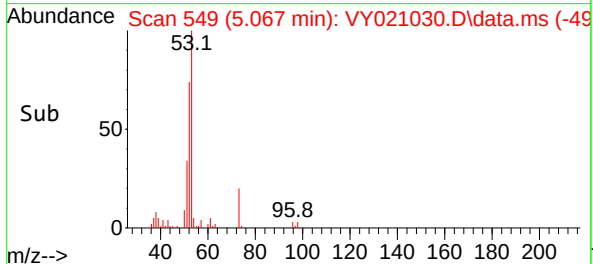
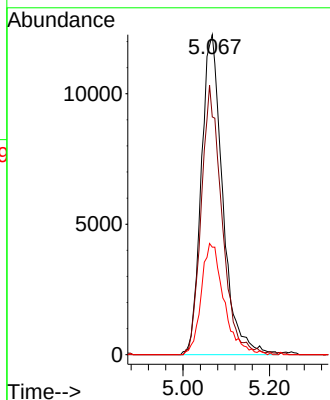
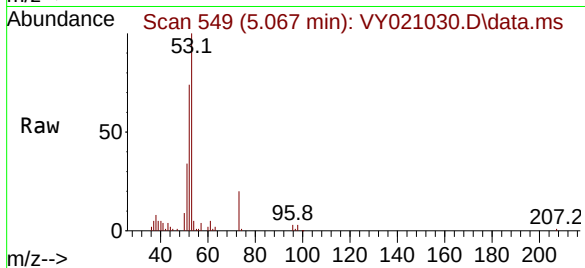
Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion: 53	Resp: 42298
Ion Ratio	Lower Upper
53	100
52	81.0 65.1 97.7
51	36.6 29.0 43.4

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#16

Acetone

Concen: 97.730 ug/l

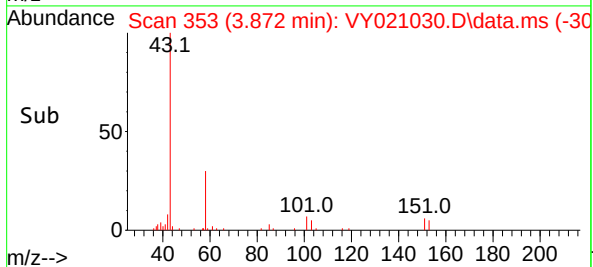
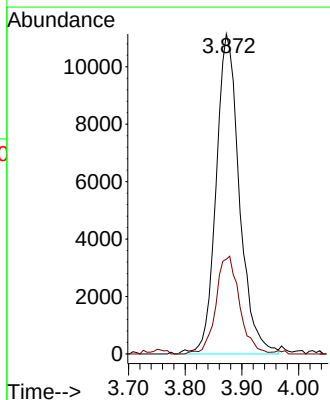
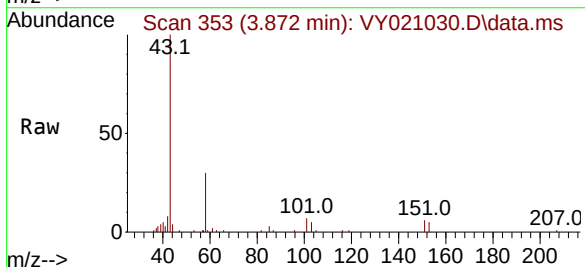
RT: 3.872 min Scan# 353

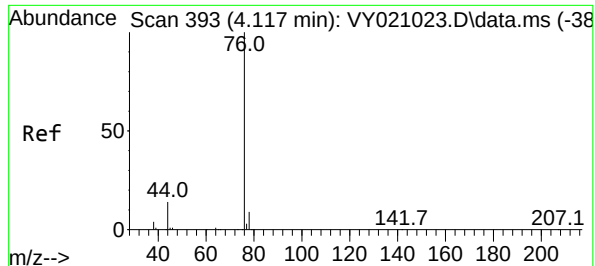
Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion: 43	Resp: 31826
Ion Ratio	Lower Upper
43	100
58	29.6 26.6 39.8





#17

Carbon Disulfide

Concen: 18.912 ug/l

RT: 4.110 min Scan# 392

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 76 Resp: 115240

Ion Ratio Lower Upper

76 100

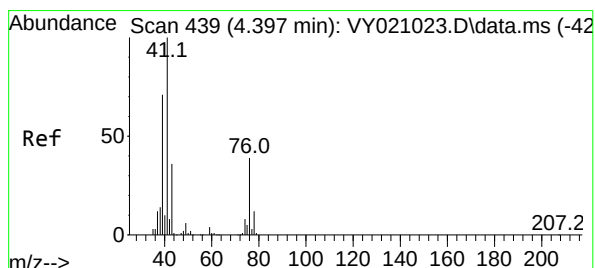
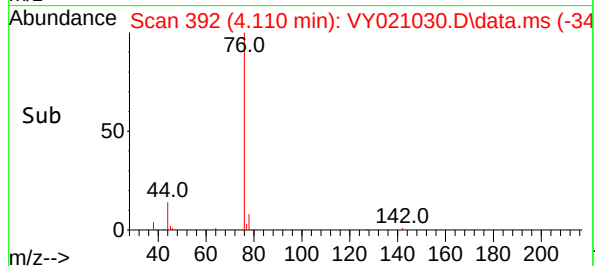
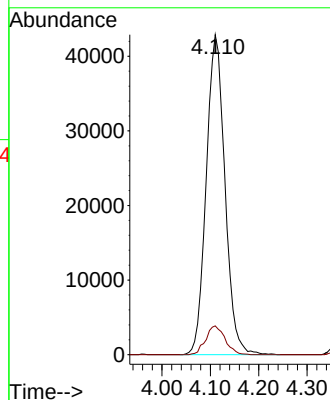
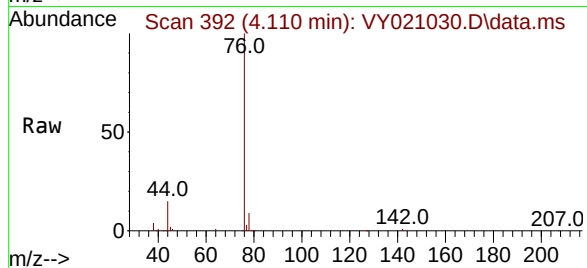
78 9.0 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#18

Methyl Acetate

Concen: 19.338 ug/l

RT: 4.391 min Scan# 438

Delta R.T. -0.006 min

Lab File: VY021030.D

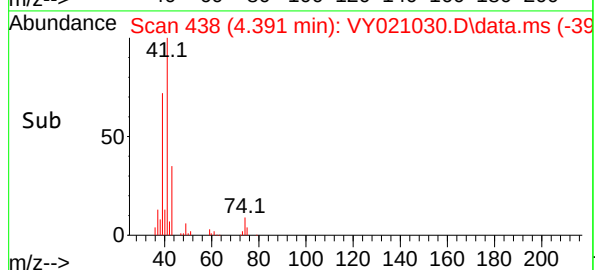
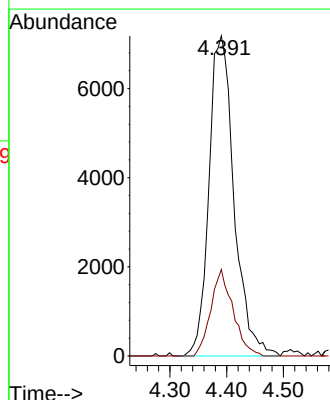
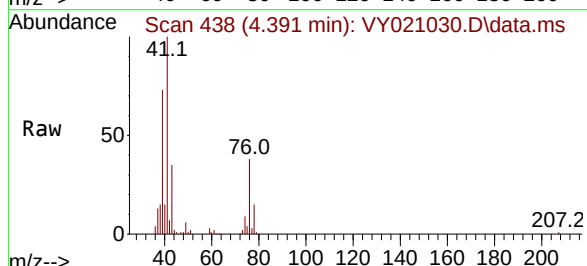
Acq: 03 Feb 2025 15:17

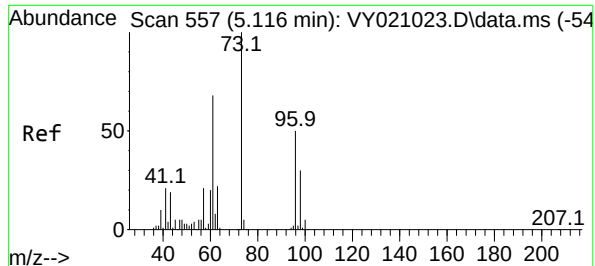
Tgt Ion: 43 Resp: 22107

Ion Ratio Lower Upper

43 100

74 24.0 19.8 29.6





#19

Methyl tert-butyl Ether

Concen: 19.551 ug/l

RT: 5.122 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion: 73 Resp: 9603

Ion Ratio Lower Upper

73 100

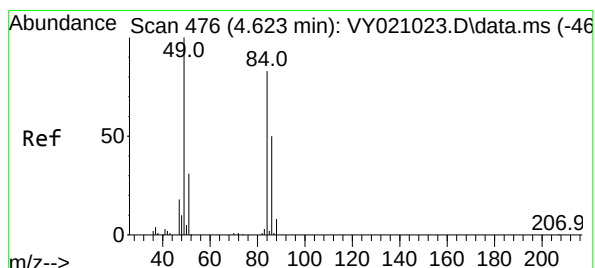
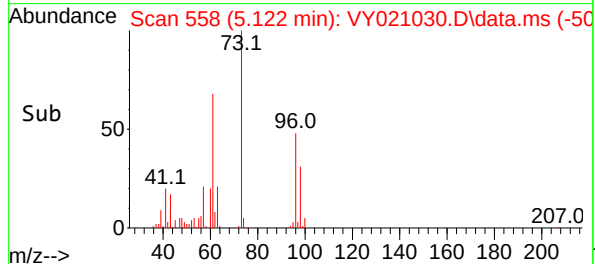
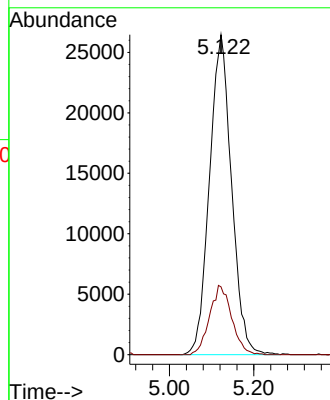
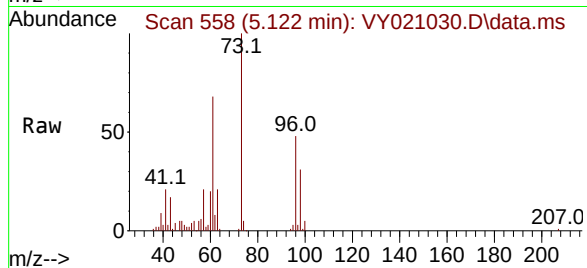
57 21.2 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#20

Methylene Chloride

Concen: 19.260 ug/l

RT: 4.622 min Scan# 476

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion: 84 Resp: 38991

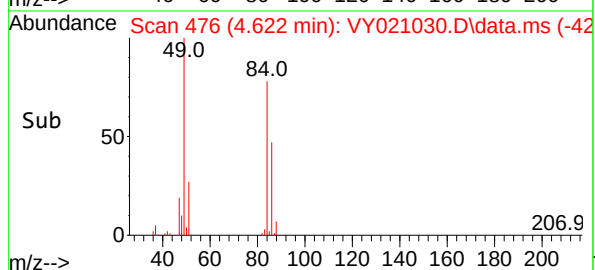
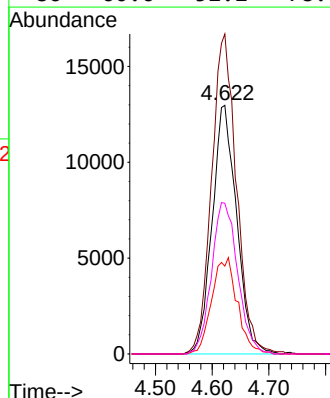
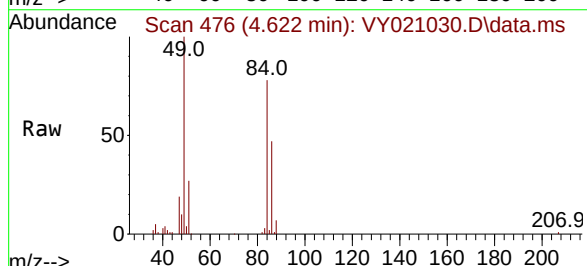
Ion Ratio Lower Upper

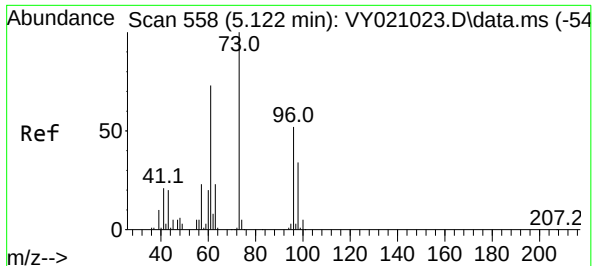
84 100

49 128.7 95.2 142.8

51 35.3 29.9 44.9

86 60.6 52.2 78.4





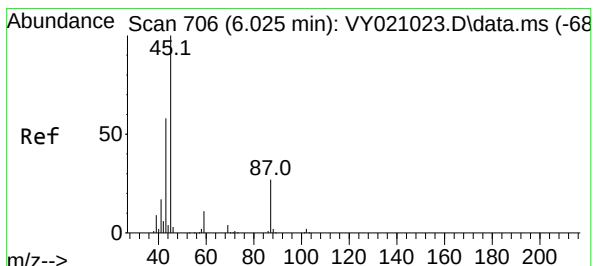
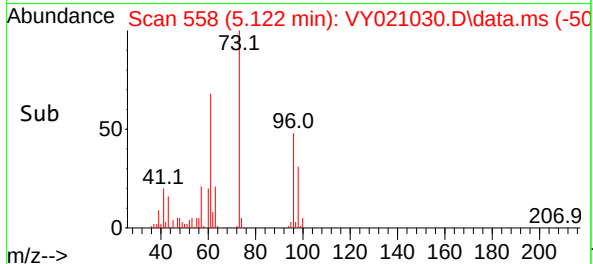
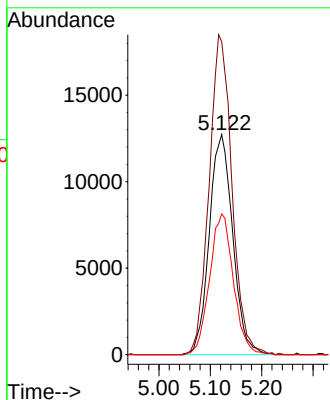
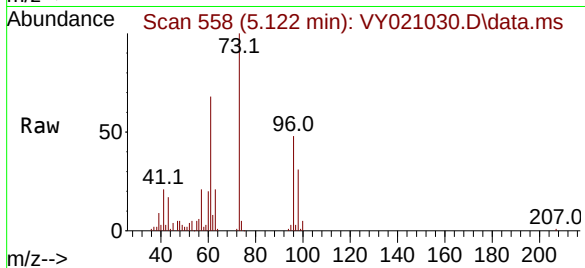
#21
trans-1,2-Dichloroethene
Concen: 18.895 ug/l
RT: 5.122 min Scan# 51
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Tgt Ion: 96 Resp: 4041
Ion Ratio Lower Upper
96 100
61 142.1 104.6 156.8
98 63.9 50.9 76.3

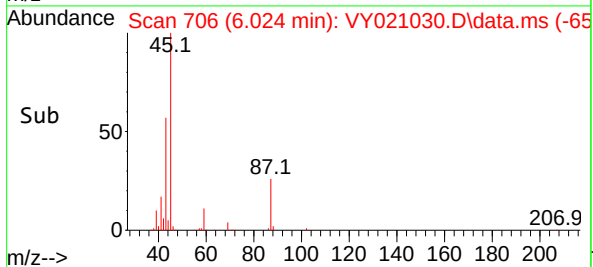
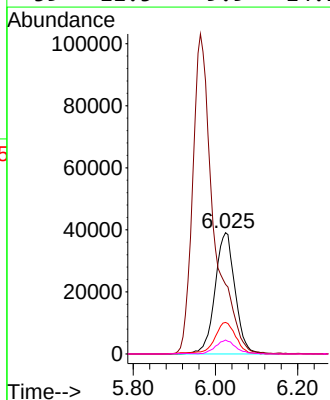
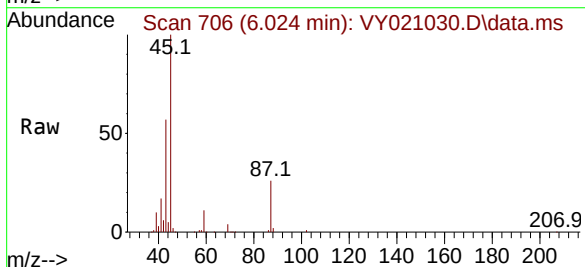
Manual Integrations
APPROVED

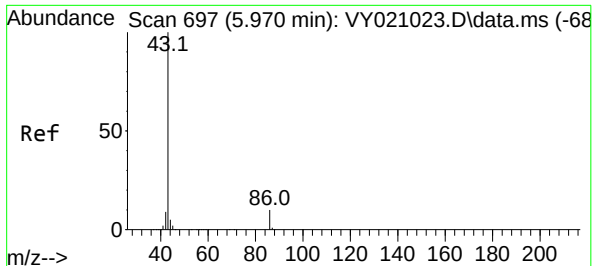
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#22
Diisopropyl ether
Concen: 19.599 ug/l
RT: 6.024 min Scan# 706
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion: 45 Resp: 132308
Ion Ratio Lower Upper
45 100
43 56.7 46.8 70.2
87 26.0 22.2 33.2
59 11.5 9.9 14.9





#23

Vinyl Acetate

Concen: 96.879 ug/l

RT: 5.964 min Scan# 696

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion: 43 Resp: 36458

Ion Ratio Lower Upper

43 100

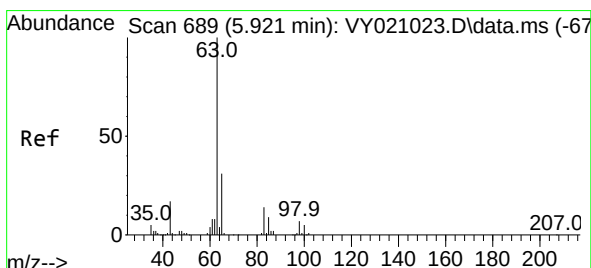
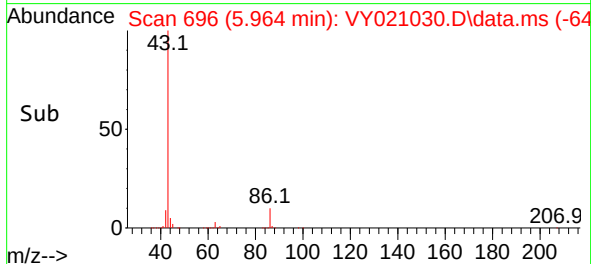
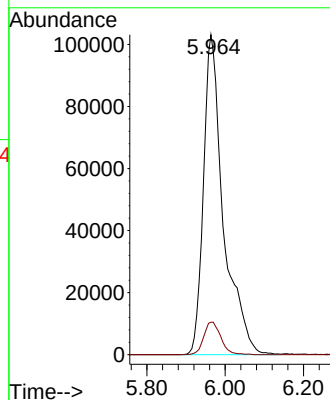
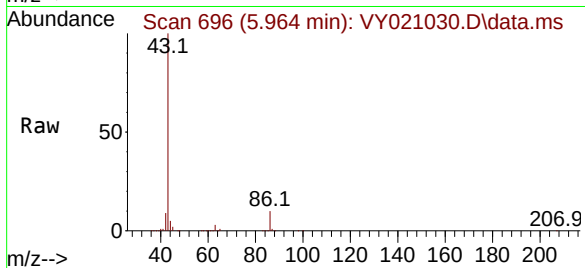
86 10.1 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#24

1,1-Dichloroethane

Concen: 18.742 ug/l

RT: 5.921 min Scan# 689

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

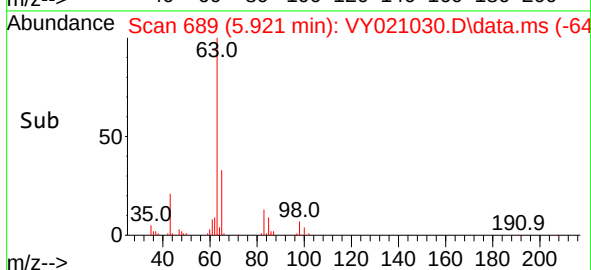
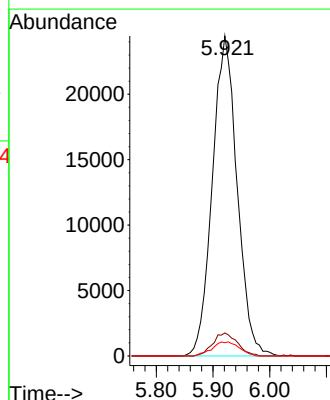
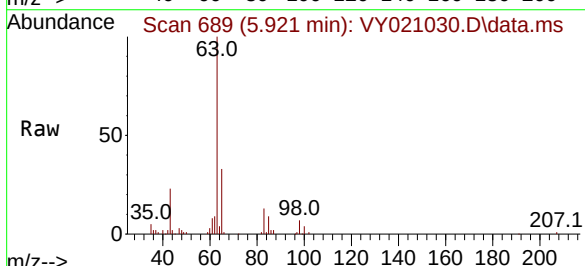
Tgt Ion: 63 Resp: 74128

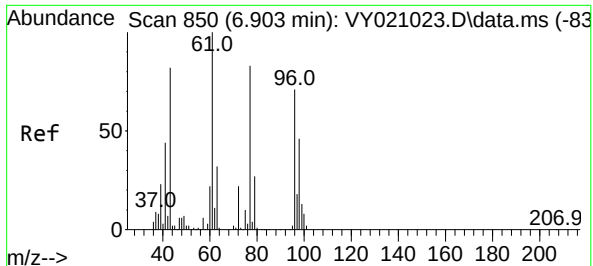
Ion Ratio Lower Upper

63 100

98 7.2 3.8 11.4

100 4.2 2.1 6.2





#25

2-Butanone

Concen: 99.280 ug/l

RT: 6.902 min Scan# 850

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion: 43 Resp: 53128

Ion Ratio Lower Upper

43 100

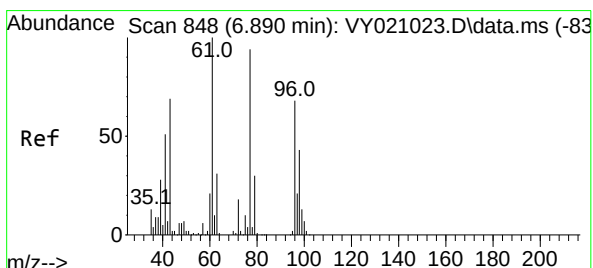
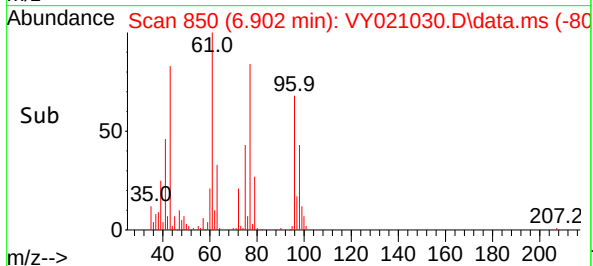
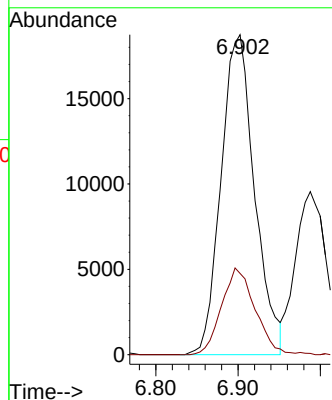
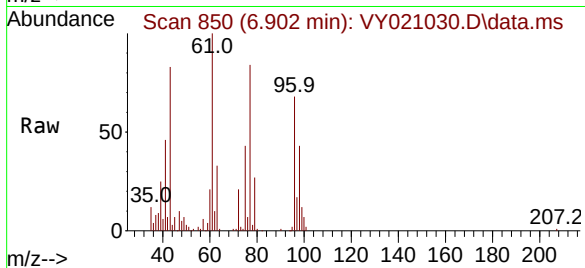
72 25.4 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#26

2,2-Dichloropropane

Concen: 19.634 ug/l

RT: 6.890 min Scan# 848

Delta R.T. -0.000 min

Lab File: VY021030.D

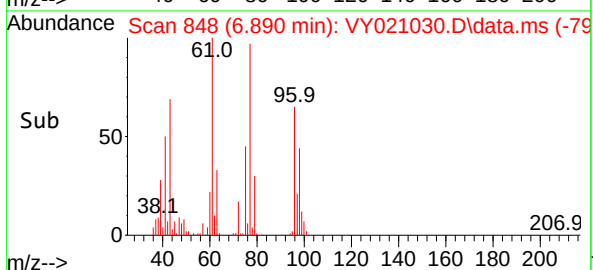
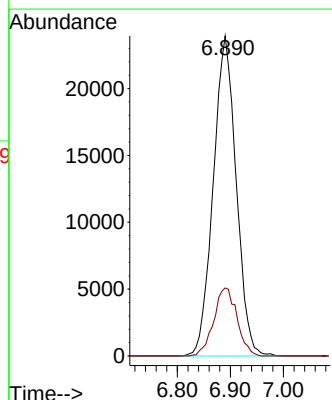
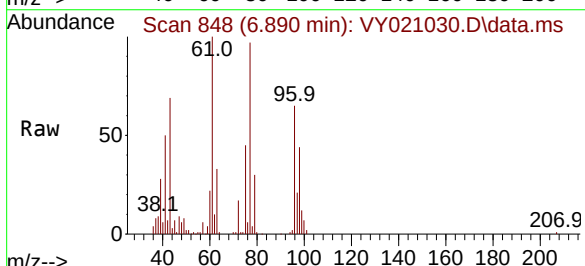
Acq: 03 Feb 2025 15:17

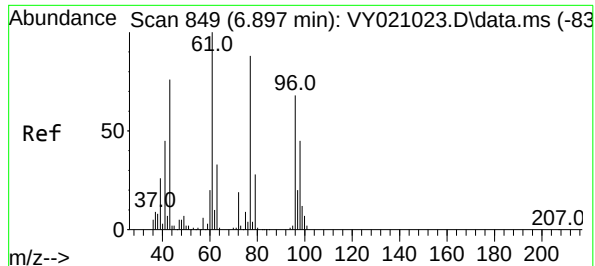
Tgt Ion: 77 Resp: 71853

Ion Ratio Lower Upper

77 100

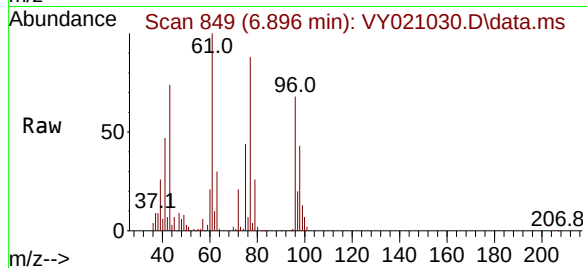
97 21.5 11.7 35.0





#27
 cis-1,2-Dichloroethene
 Concen: 19.026 ug/l
 RT: 6.896 min Scan# 849
 Delta R.T. -0.000 min
 Lab File: VY021030.D
 Acq: 03 Feb 2025 15:17

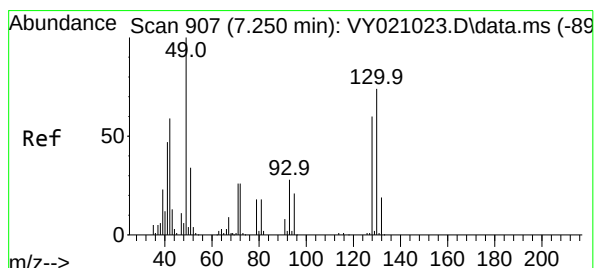
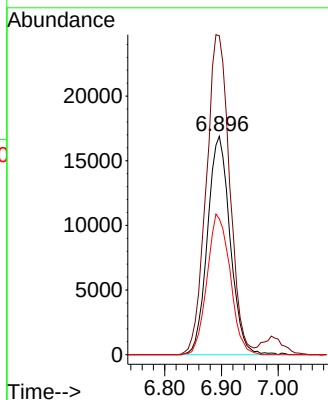
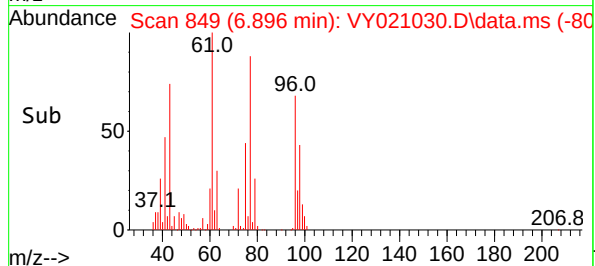
Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0203SBSD01



Tgt Ion: 96 Resp: 4684
 Ion Ratio Lower Upper
 96 100
 61 151.4 0.0 278.8
 98 65.4 0.0 127.0

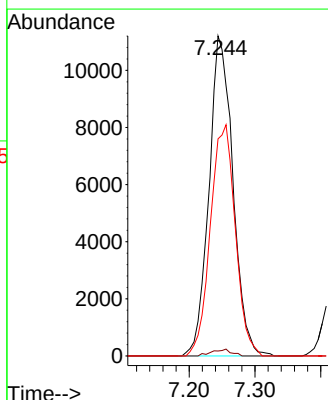
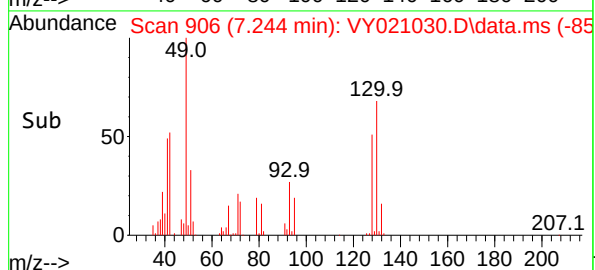
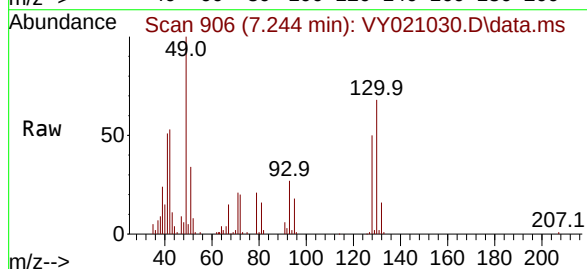
Manual Integrations
 APPROVED

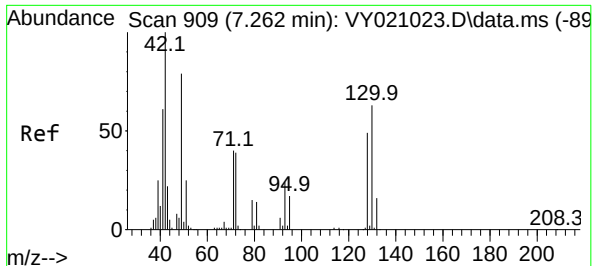
Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025



#28
 Bromochloromethane
 Concen: 18.145 ug/l
 RT: 7.244 min Scan# 906
 Delta R.T. -0.006 min
 Lab File: VY021030.D
 Acq: 03 Feb 2025 15:17

Tgt Ion: 49 Resp: 28378
 Ion Ratio Lower Upper
 49 100
 129 1.7 0.0 3.8
 130 75.3 59.8 89.8





#29

Tetrahydrofuran

Concen: 99.162 ug/l

RT: 7.268 min Scan# 910

Delta R.T. 0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

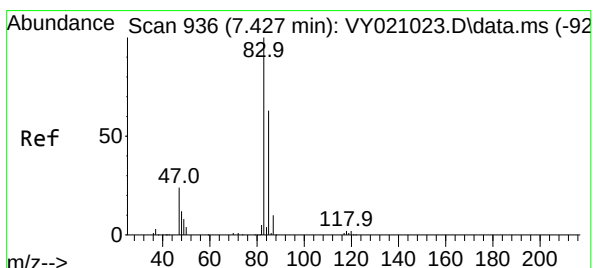
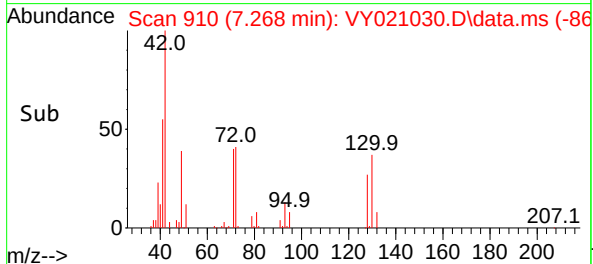
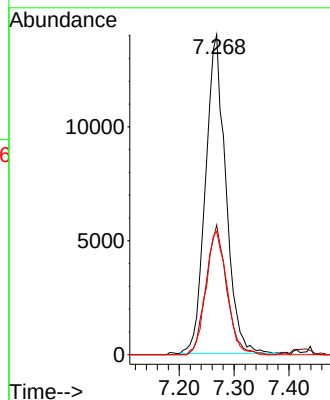
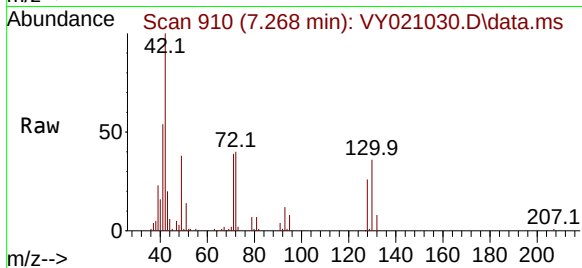
Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion:	42	Resp:	3590
Ion	Ratio	Lower	Upper
42	100		
72	41.1	36.6	54.8
71	40.3	33.8	50.6

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#30

Chloroform

Concen: 19.231 ug/l

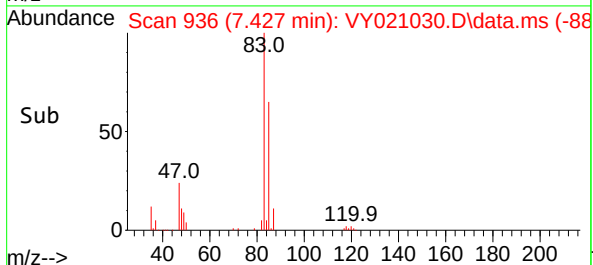
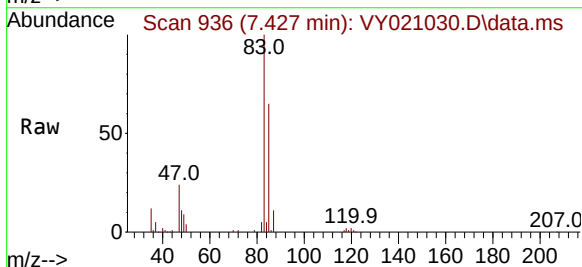
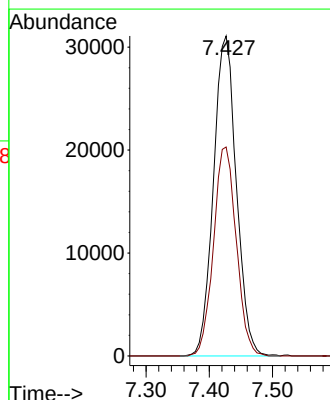
RT: 7.427 min Scan# 936

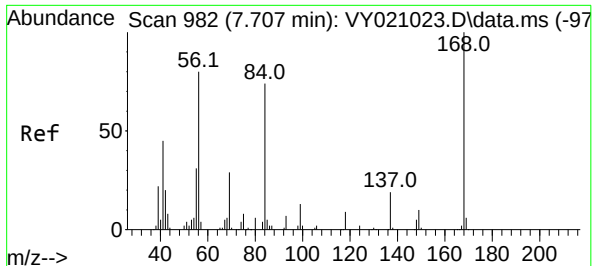
Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:	83	Resp:	78127
Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.2	76.8





#31

Cyclohexane

Concen: 19.518 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion: 56 Resp: 6951

Ion Ratio Lower Upper

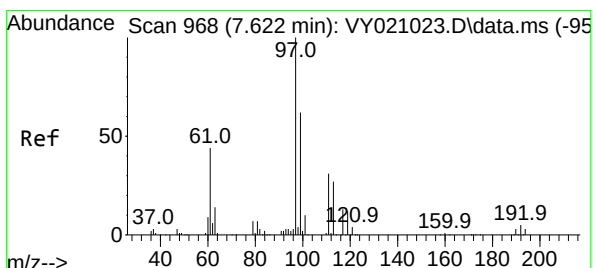
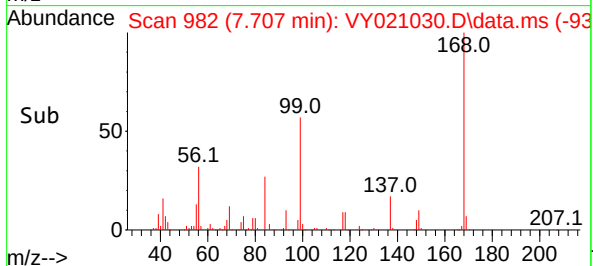
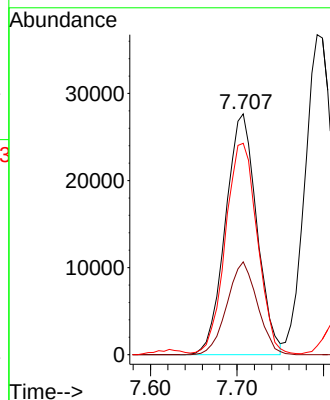
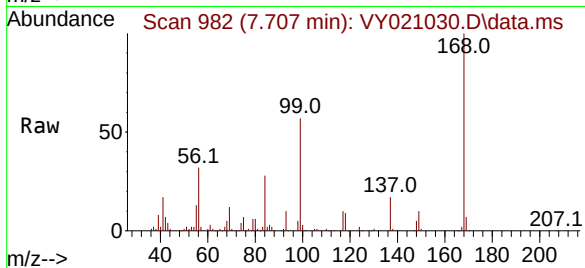
56 100

69 38.5 27.0 40.6

84 86.2 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#32

1,1,1-Trichloroethane

Concen: 19.434 ug/l

RT: 7.622 min Scan# 968

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

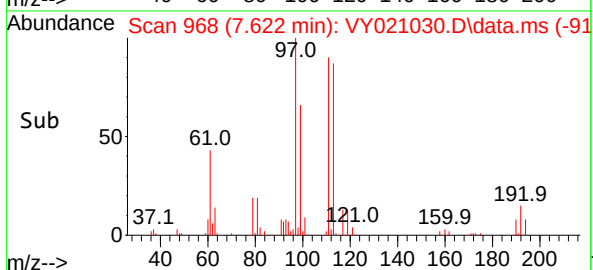
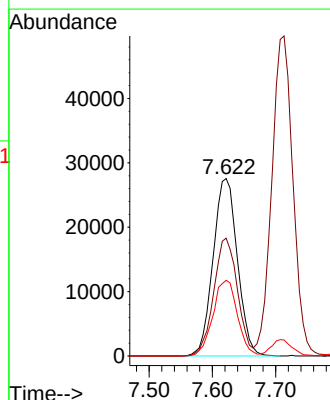
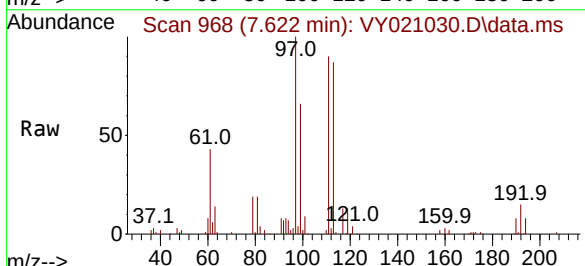
Tgt Ion: 97 Resp: 73405

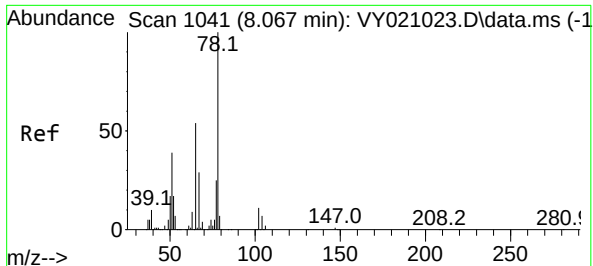
Ion Ratio Lower Upper

97 100

99 64.9 51.2 76.8

61 43.0 35.0 52.6





#33

1,2-Dichloroethane-d4

Concen: 48.977 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion: 65 Resp: 102274

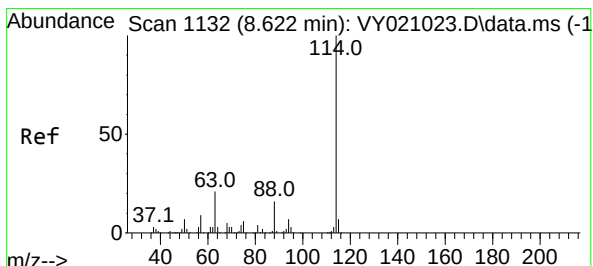
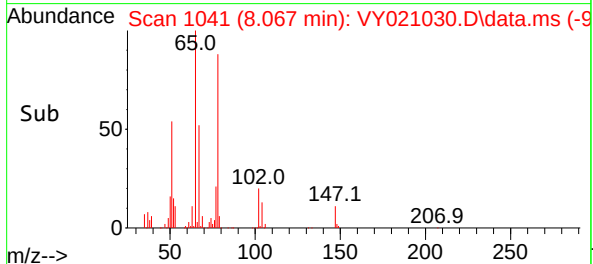
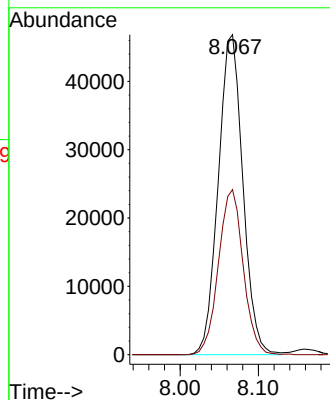
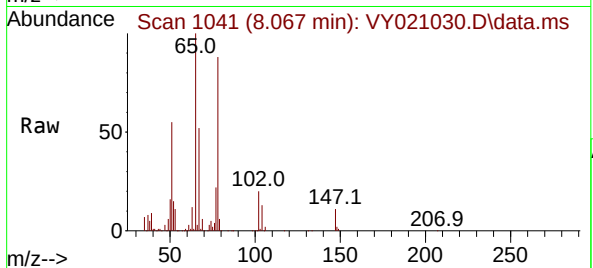
Ion Ratio Lower Upper

65 100

67 51.9 0.0 109.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

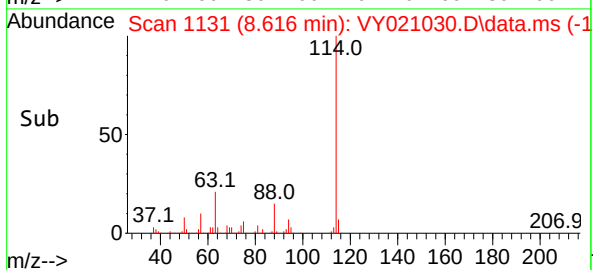
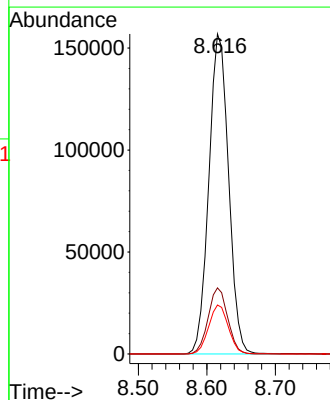
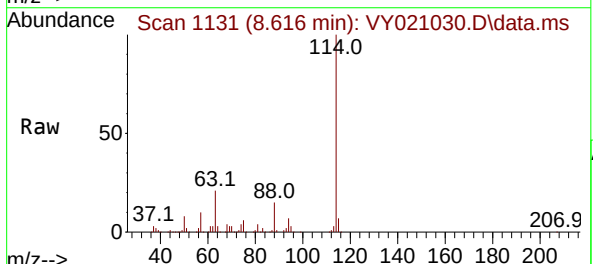
Tgt Ion:114 Resp: 313701

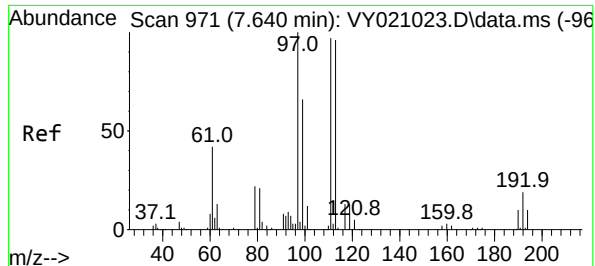
Ion Ratio Lower Upper

114 100

63 20.6 0.0 37.4

88 15.3 0.0 29.0





#35

Dibromofluoromethane

Concen: 48.324 ug/l

RT: 7.640 min Scan# 971

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

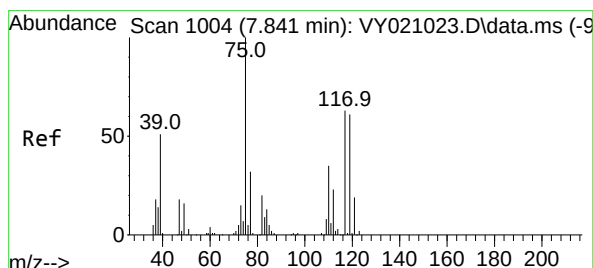
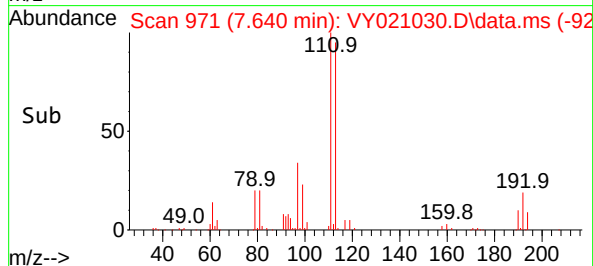
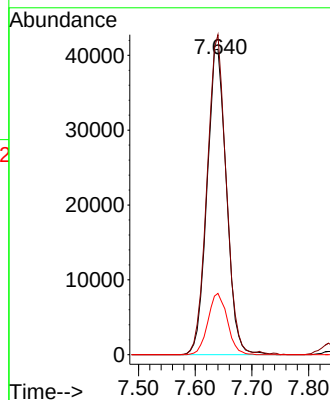
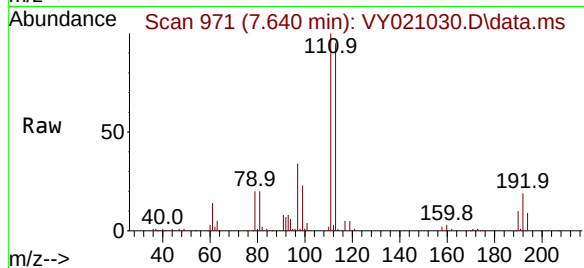
Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBS01

Tgt Ion:	113	Resp:	97150
Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.8	125.6
192	20.0	14.5	21.7

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#36

1,1-Dichloropropene

Concen: 19.335 ug/l

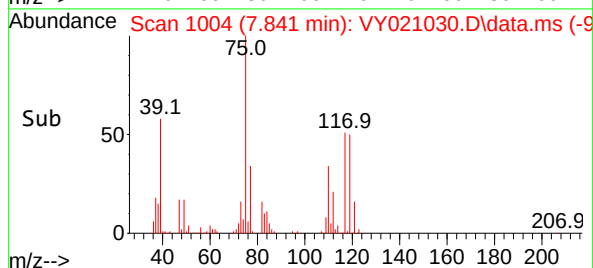
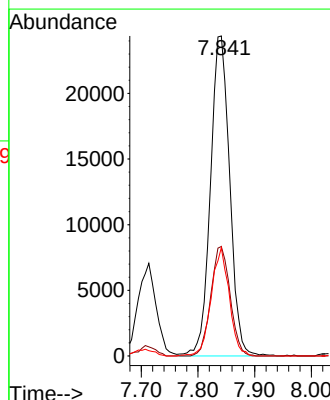
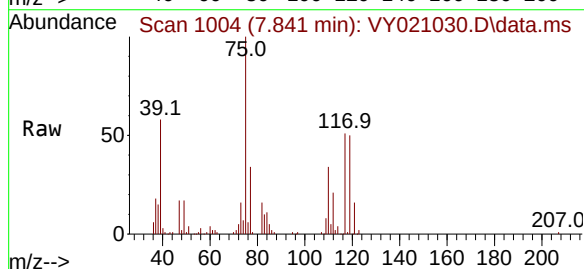
RT: 7.841 min Scan# 1004

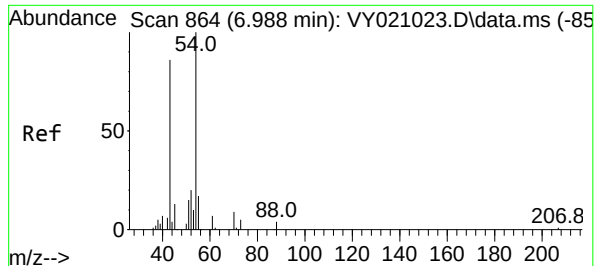
Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:	75	Resp:	57574
Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.4	52.3
77	31.8	24.7	37.1





#37

Ethyl Acetate

Concen: 19.936 ug/l

RT: 6.988 min Scan# 864

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

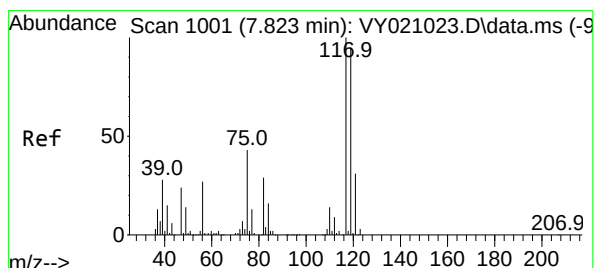
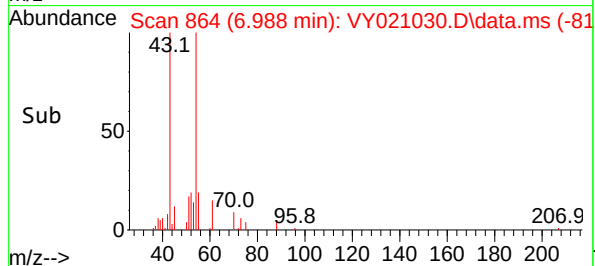
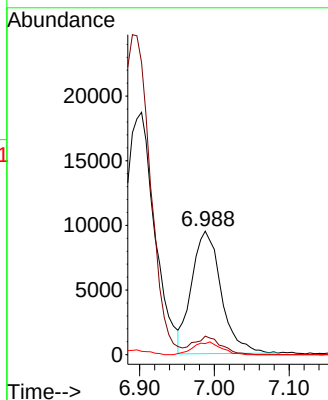
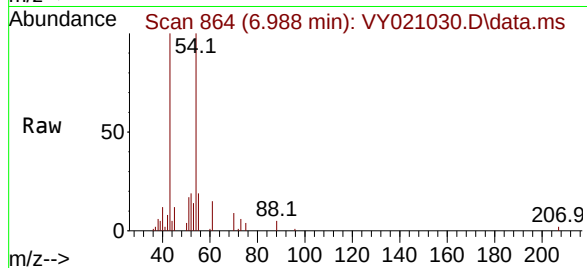
ClientSampleId :

VY0203SBSD01

Tgt Ion:	43	Resp:	2604
Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.0	16.6
70	9.6	8.1	12.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#38

Carbon Tetrachloride

Concen: 19.188 ug/l

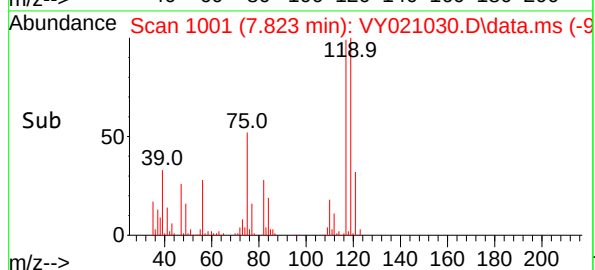
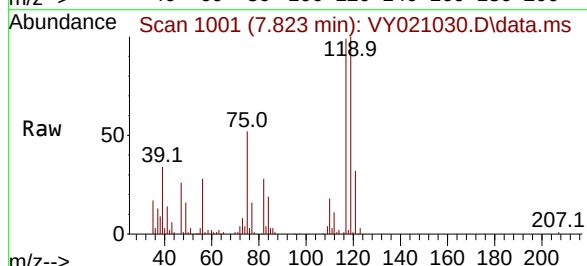
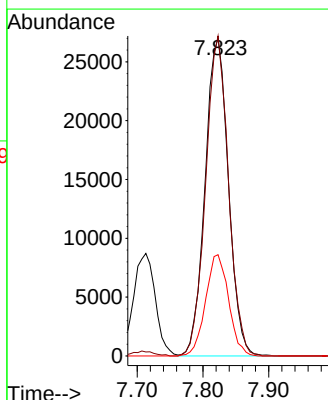
RT: 7.823 min Scan# 1001

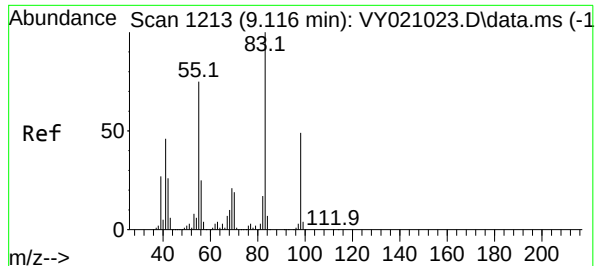
Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:	117	Resp:	66761
Ion	Ratio	Lower	Upper
117	100		
119	100.7	76.0	114.0
121	31.9	24.2	36.2





#39

Methylcyclohexane

Concen: 19.701 ug/l

RT: 9.109 min Scan# 1213

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

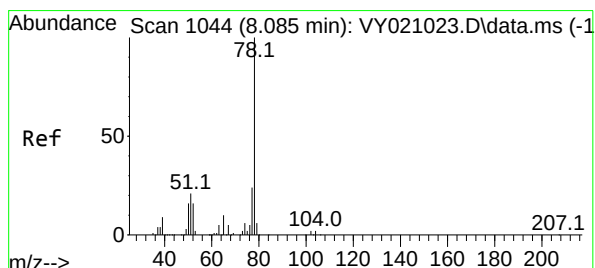
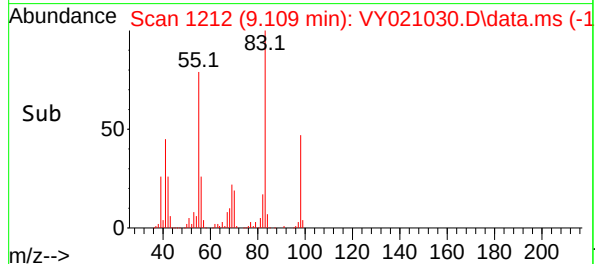
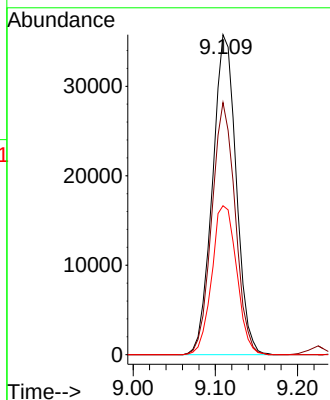
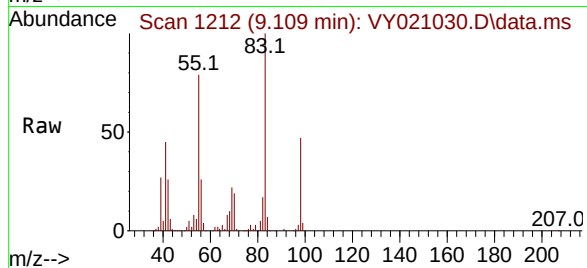
ClientSampleId :

VY0203SBSD01

Tgt Ion:	83	Resp:	7175
Ion	Ratio	Lower	Upper
83	100		
55	78.8	59.7	89.5
98	46.5	38.0	57.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#40

Benzene

Concen: 19.417 ug/l

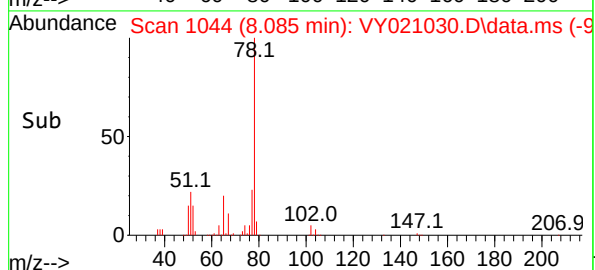
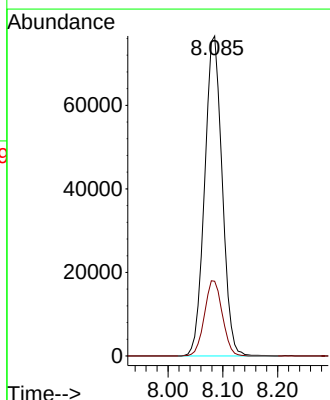
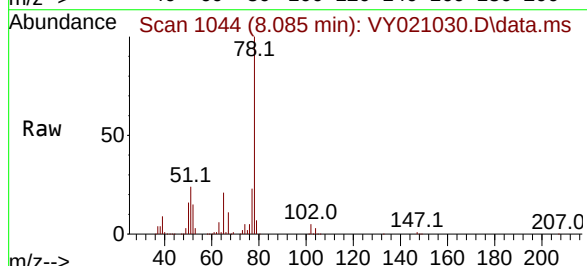
RT: 8.085 min Scan# 1044

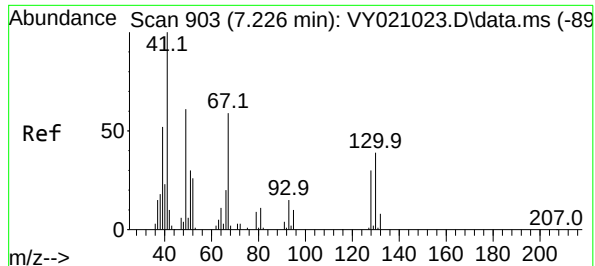
Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:	78	Resp:	169675
Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2





#41

Methacrylonitrile

Concen: 20.879 ug/l m

RT: 7.238 min Scan# 905

Delta R.T. 0.012 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion: 41 Resp: 15779

Ion Ratio Lower Upper

41 100

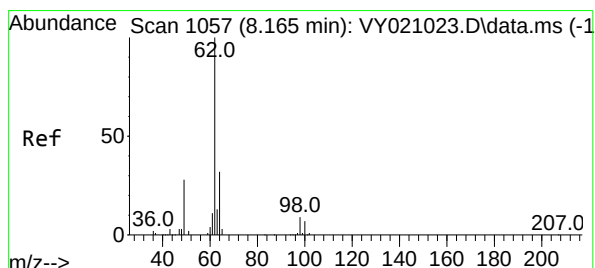
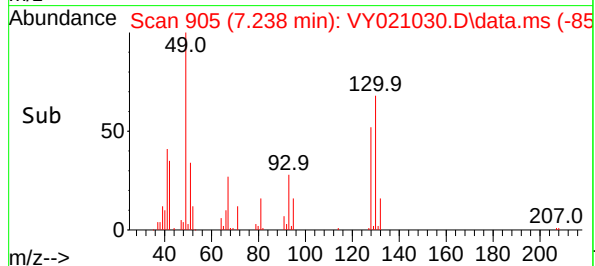
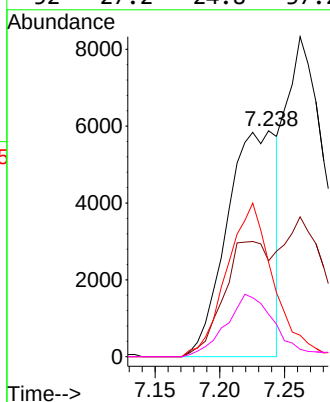
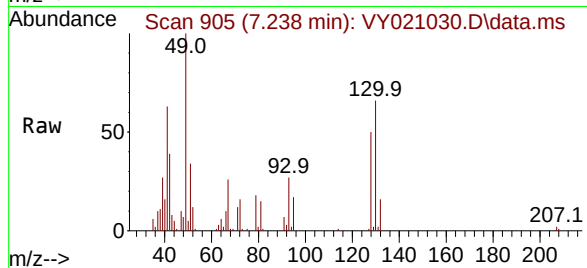
39 45.0 41.9 62.9

67 64.0 59.8 89.6

52 27.2 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#42

1,2-Dichloroethane

Concen: 19.327 ug/l

RT: 8.158 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VY021030.D

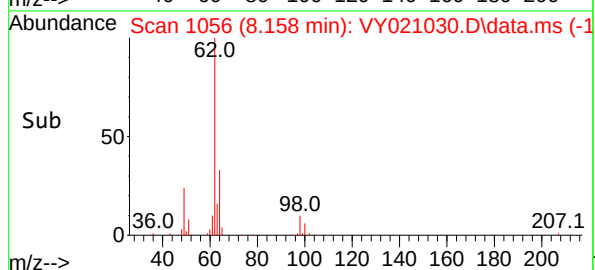
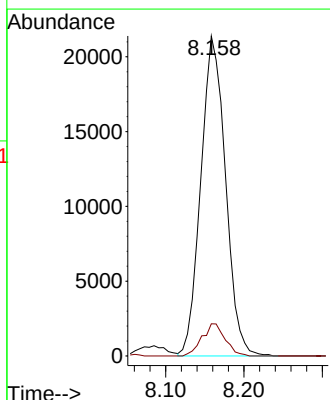
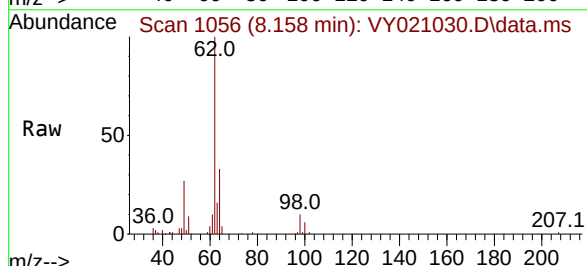
Acq: 03 Feb 2025 15:17

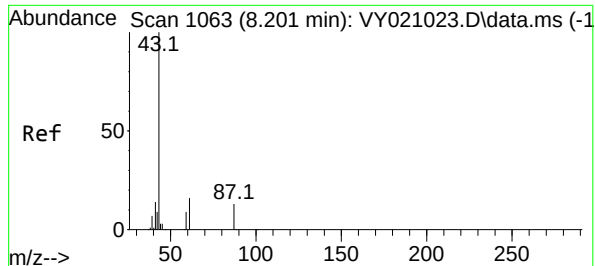
Tgt Ion: 62 Resp: 46850

Ion Ratio Lower Upper

62 100

98 9.4 0.0 20.2





#43

Isopropyl Acetate

Concen: 19.649 ug/l

RT: 8.201 min Scan# 1100

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

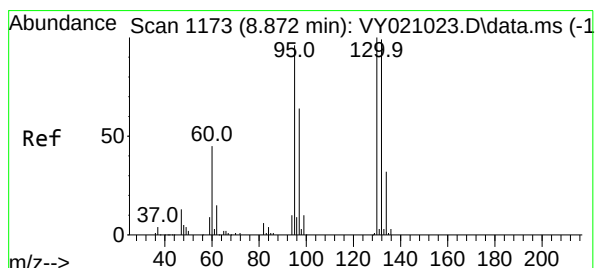
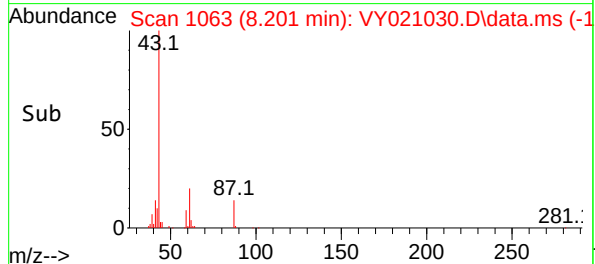
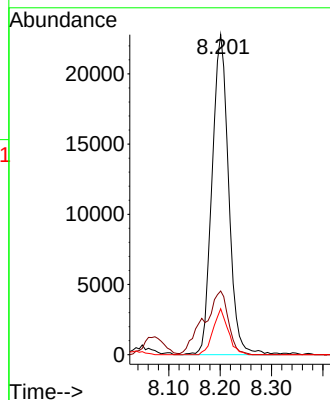
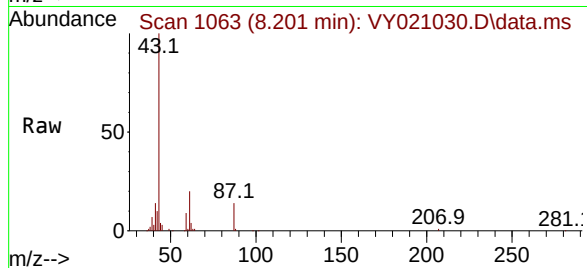
VY0203SBS01

Tgt Ion:	43	Resp:	5100
Ion	Ratio	Lower	Upper
43	100		
61	29.3	24.8	37.2
87	13.0	10.7	16.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#44

Trichloroethene

Concen: 19.340 ug/l

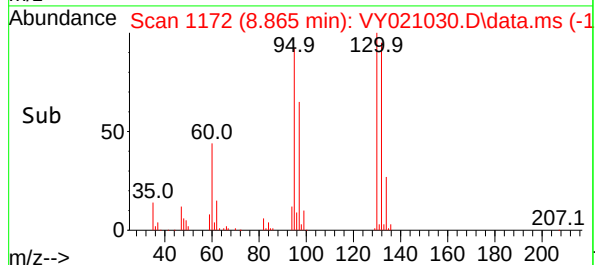
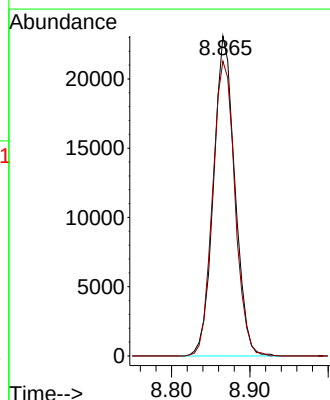
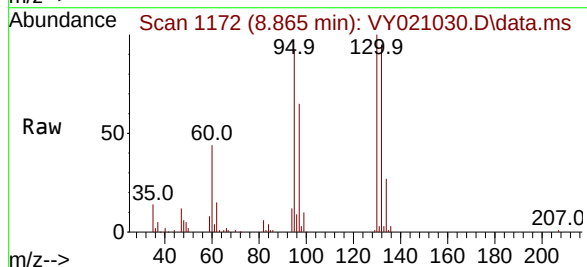
RT: 8.865 min Scan# 1172

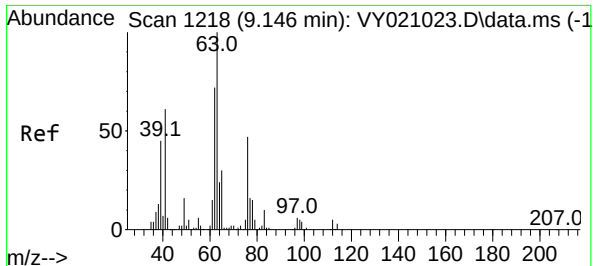
Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:	130	Resp:	43665
Ion	Ratio	Lower	Upper
130	100		
95	92.1	0.0	203.8





#45

1,2-Dichloropropane

Concen: 19.469 ug/l

RT: 9.146 min Scan# 1218

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion: 63 Resp: 4038

Ion Ratio Lower Upper

63 100

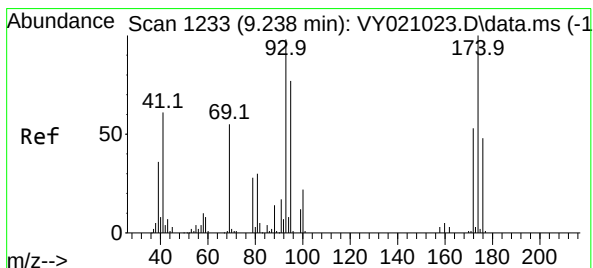
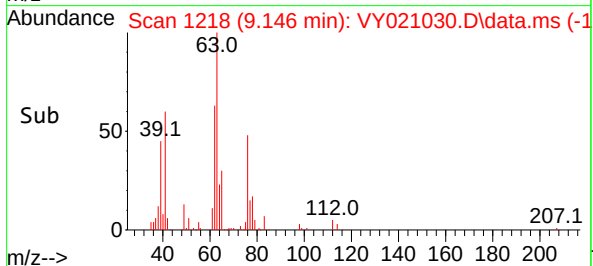
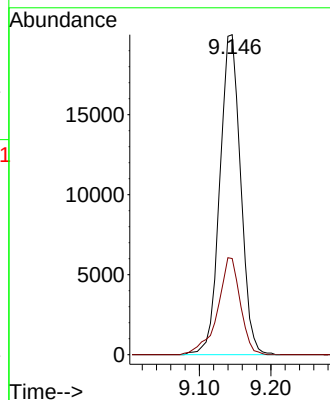
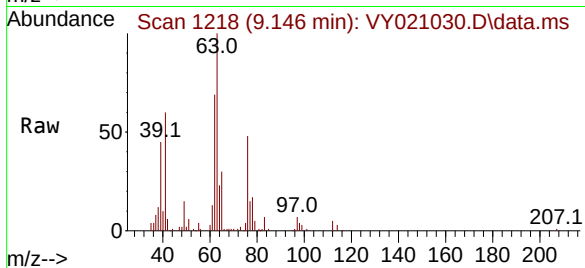
65 30.0 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#46

Dibromomethane

Concen: 18.854 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

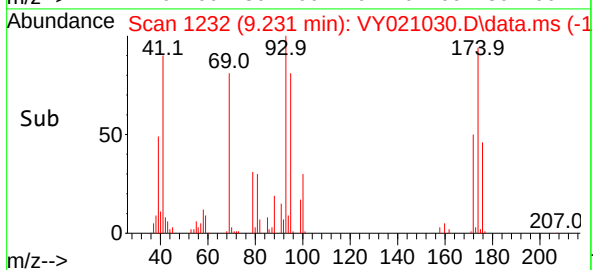
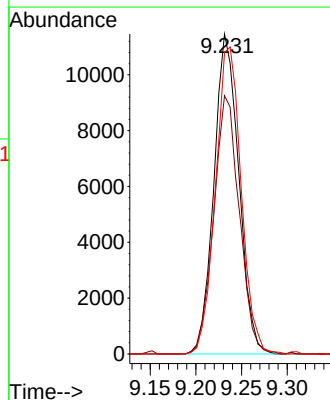
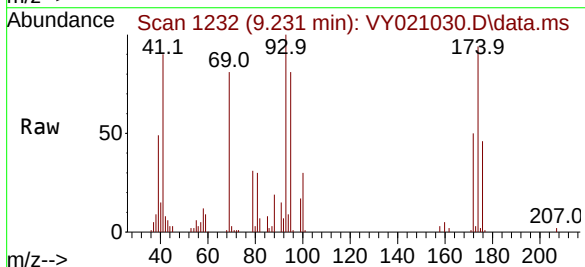
Tgt Ion: 93 Resp: 21652

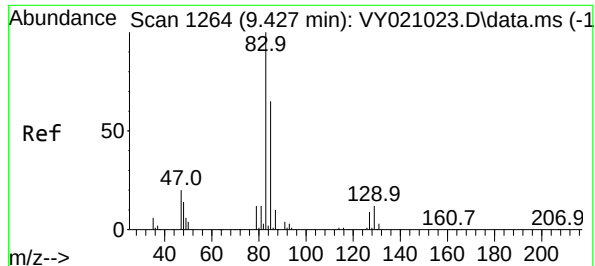
Ion Ratio Lower Upper

93 100

95 83.0 66.6 99.8

174 99.6 73.8 110.6





#47

Bromodichloromethane

Concen: 18.866 ug/l

RT: 9.426 min Scan# 1264

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

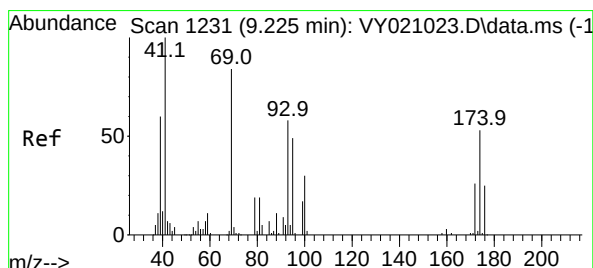
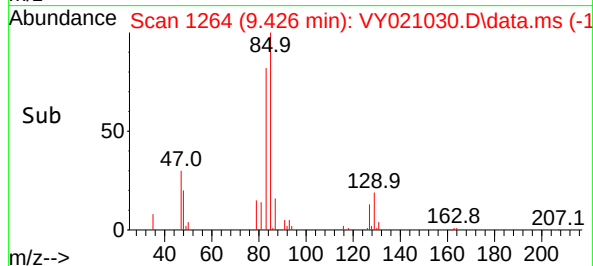
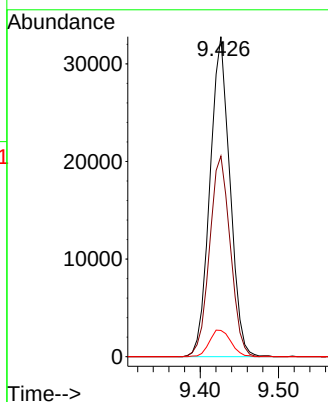
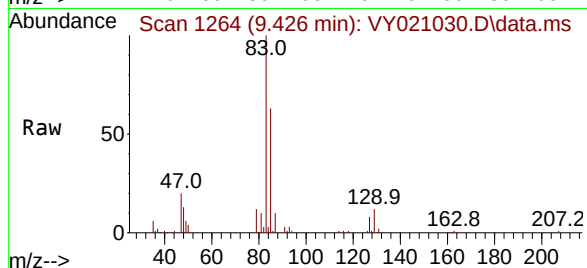
Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion:	83	Resp:	5810
Ion Ratio	Lower	Upper	
83	100		
85	62.7	53.2	79.8
127	8.2	6.4	9.6

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#48

Methyl methacrylate

Concen: 20.221 ug/l

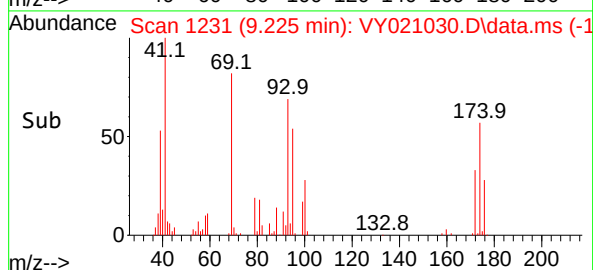
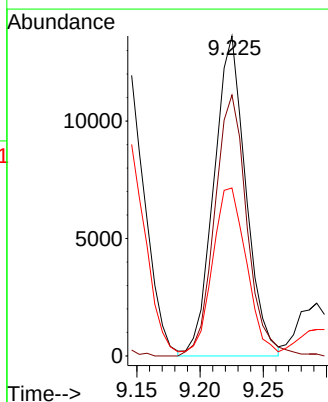
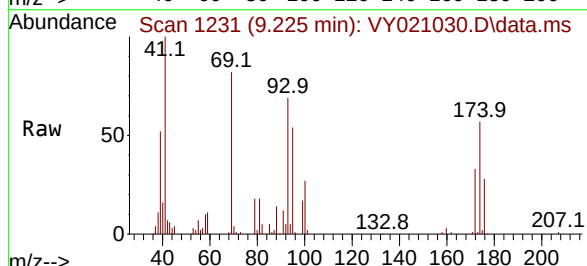
RT: 9.225 min Scan# 1231

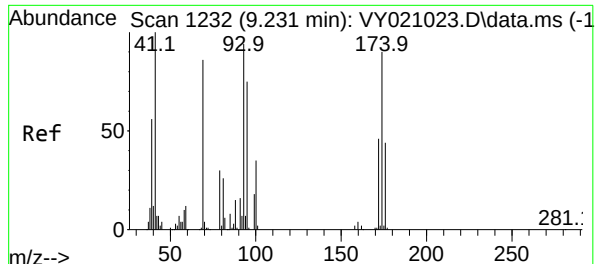
Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:	41	Resp:	23908
Ion Ratio	Lower	Upper	
41	100		
69	82.9	72.1	108.1
39	53.7	42.8	64.2





#49

1,4-Dioxane

Concen: 449.174 ug/l

RT: 9.231 min Scan# 1232

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

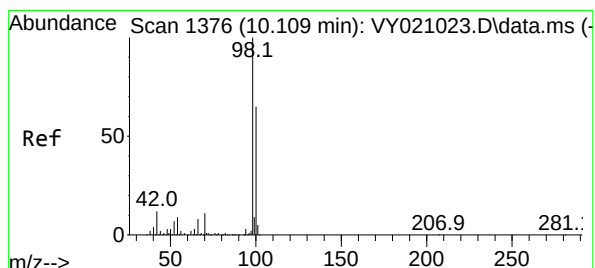
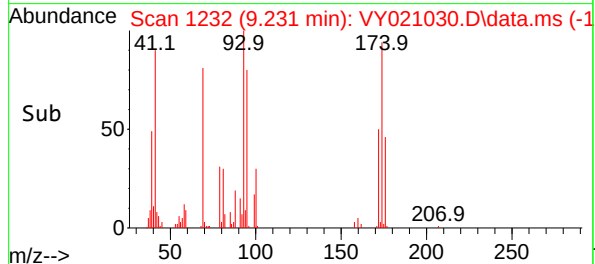
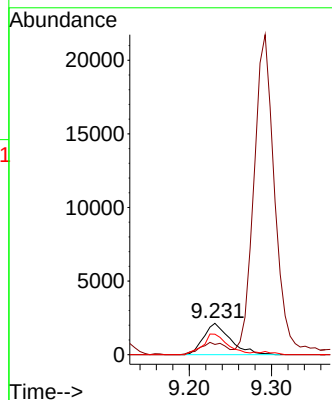
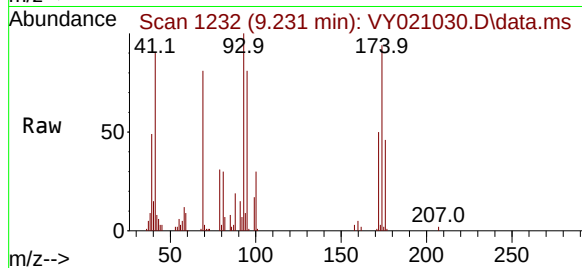
VY0203SBSD01

Tgt Ion:	88	Resp:	480
Ion	Ratio	Lower	Upper
88	100		
43	36.6	28.2	42.4
58	61.1	52.2	78.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#50

Toluene-d8

Concen: 50.244 ug/l

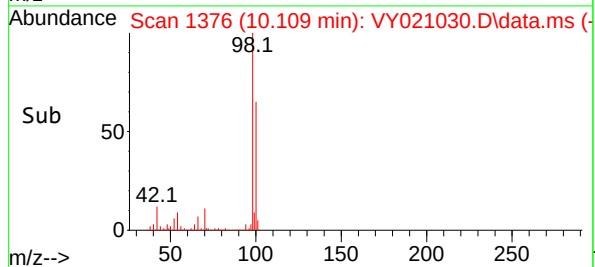
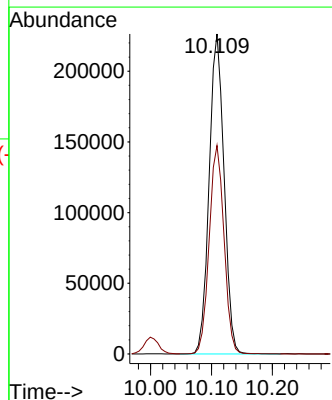
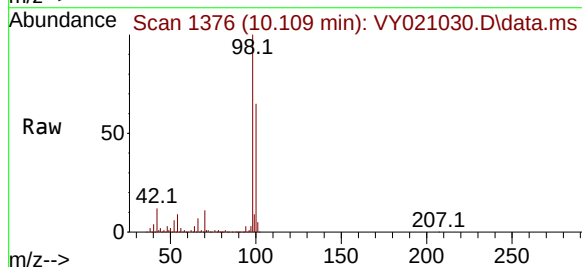
RT: 10.109 min Scan# 1376

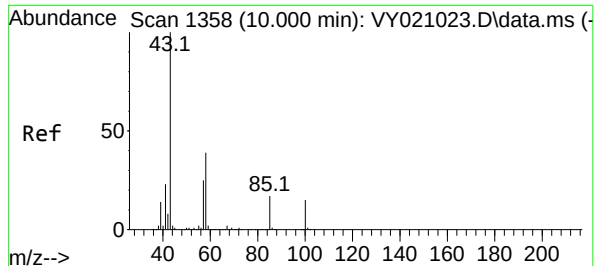
Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

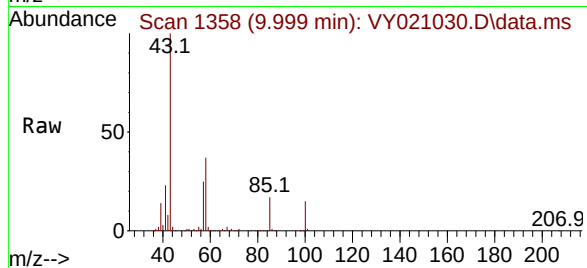
Tgt Ion:	98	Resp:	384555
Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.3	78.5





#51
4-Methyl-2-Pentanone
Concen: 99.907 ug/l
RT: 9.999 min Scan# 1358
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

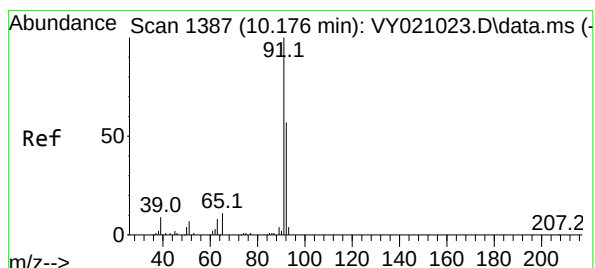
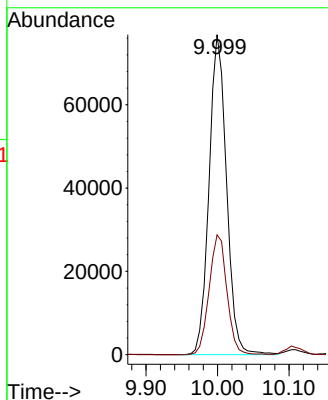
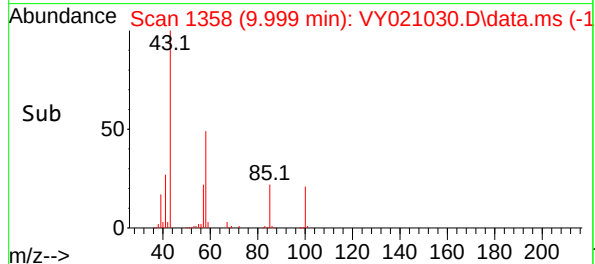
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01



Tgt Ion: 43 Resp: 13040
Ion Ratio Lower Upper
43 100
58 38.1 32.2 48.2

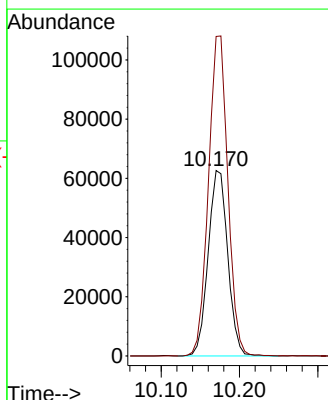
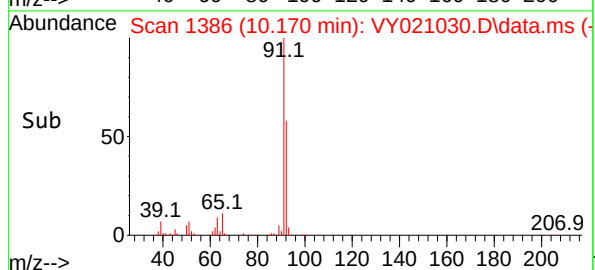
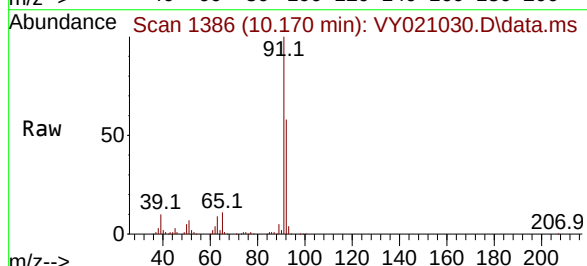
Manual Integrations
APPROVED

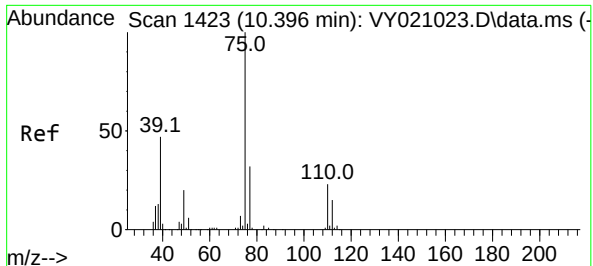
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#52
Toluene
Concen: 19.795 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

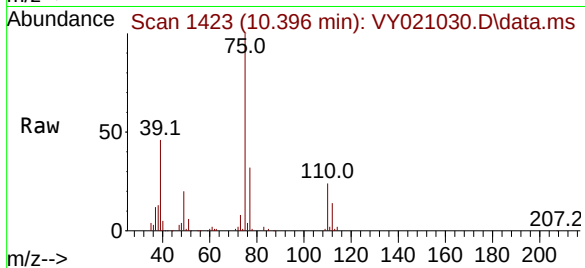
Tgt Ion: 92 Resp: 108618
Ion Ratio Lower Upper
92 100
91 171.0 137.6 206.4





#53
 t-1,3-Dichloropropene
 Concen: 19.474 ug/l
 RT: 10.396 min Scan# 1423
 Delta R.T. -0.000 min
 Lab File: VY021030.D
 Acq: 03 Feb 2025 15:17

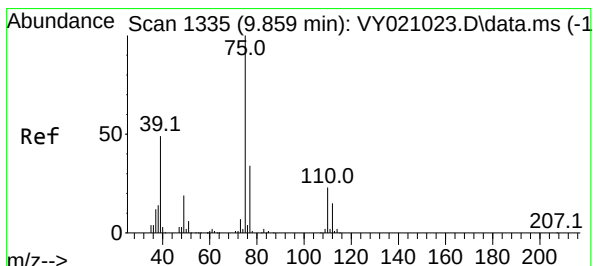
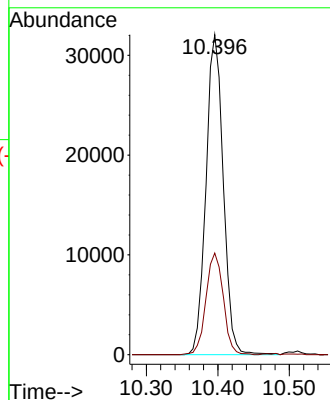
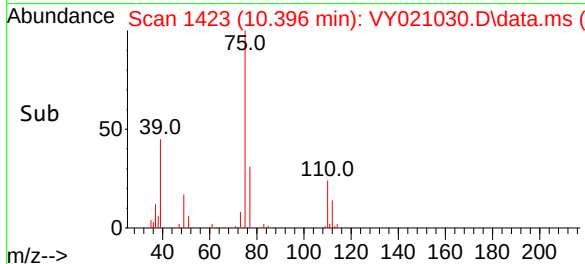
Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0203SBSD01



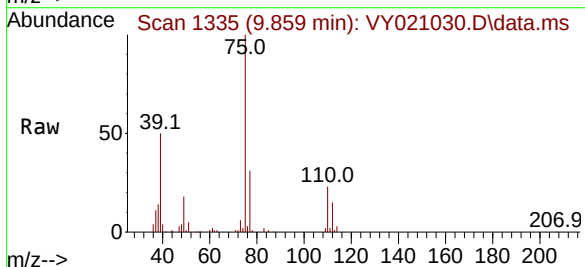
Tgt Ion: 75 Resp: 5385
 Ion Ratio Lower Upper
 75 100
 77 31.8 24.6 36.8

Manual Integrations
 APPROVED

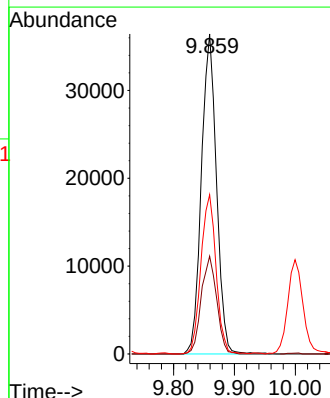
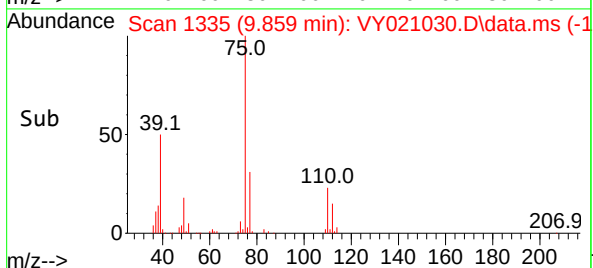
Reviewed By :Mahesh Dadoda 02/04/2025
 Supervised By :Semsettin Yesilyurt 02/04/2025

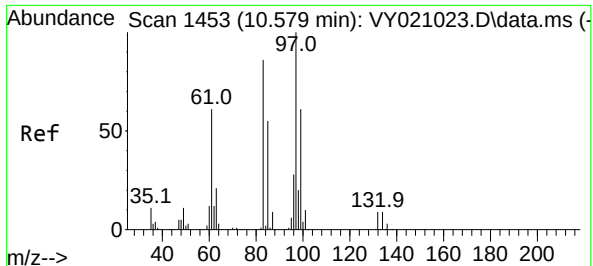


#54
 cis-1,3-Dichloropropene
 Concen: 19.155 ug/l
 RT: 9.859 min Scan# 1335
 Delta R.T. -0.000 min
 Lab File: VY021030.D
 Acq: 03 Feb 2025 15:17



Tgt Ion: 75 Resp: 62722
 Ion Ratio Lower Upper
 75 100
 77 30.6 24.6 36.8
 39 49.7 33.6 50.4





#55

1,1,2-Trichloroethane

Concen: 19.261 ug/l

RT: 10.572 min Scan# 1453

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion: 97 Resp: 2864

Ion Ratio Lower Upper

97 100

83 82.6 69.4 104.2

85 54.7 43.9 65.9

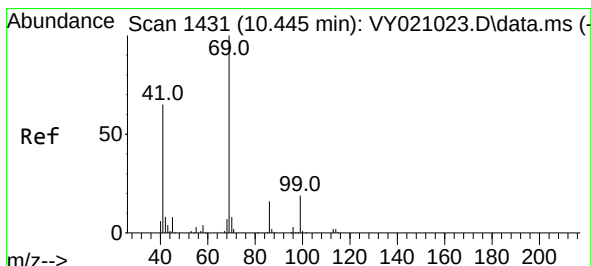
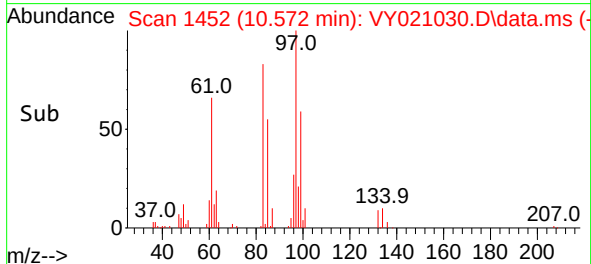
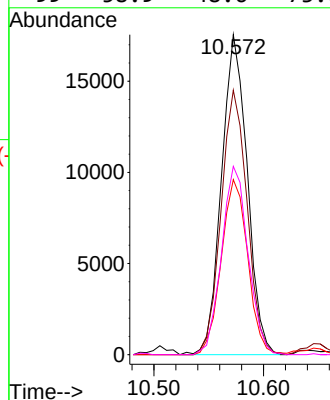
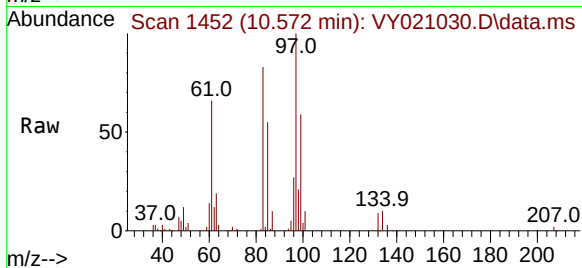
99 58.9 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#56

Ethyl methacrylate

Concen: 19.248 ug/l

RT: 10.438 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

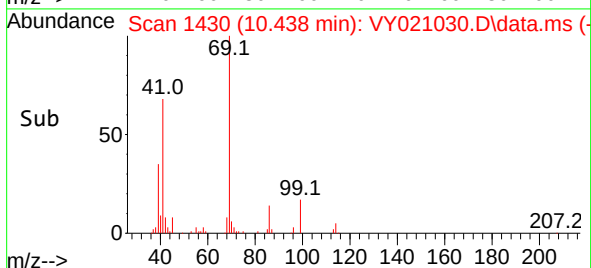
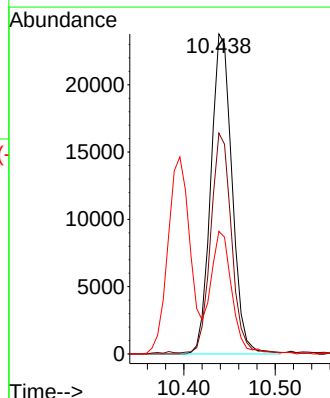
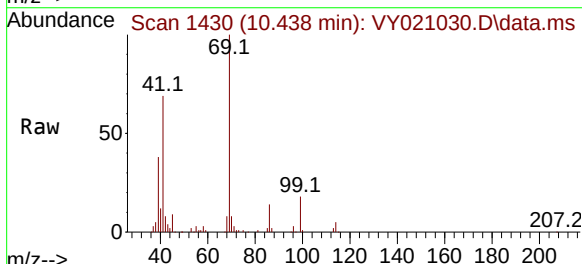
Tgt Ion: 69 Resp: 38293

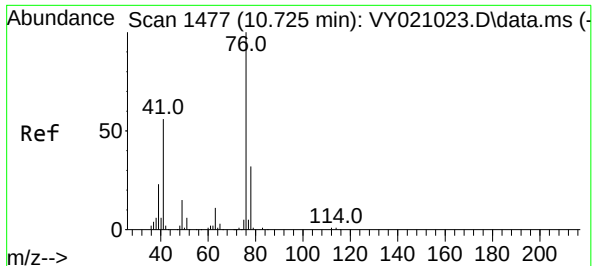
Ion Ratio Lower Upper

69 100

41 66.7 49.2 73.8

39 38.0 26.8 40.2





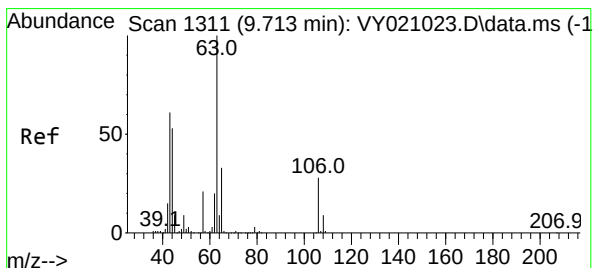
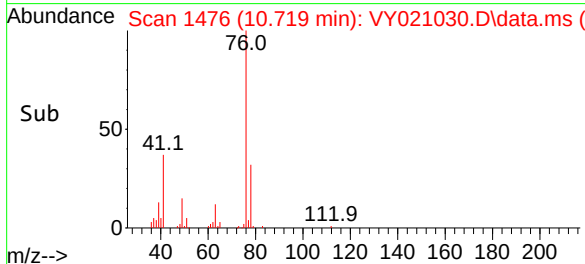
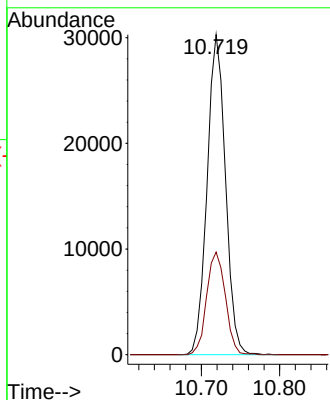
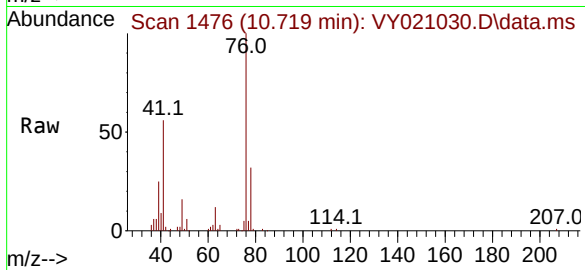
#57
1,3-Dichloropropane
Concen: 19.119 ug/l
RT: 10.719 min Scan# 1476
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Tgt Ion: 76 Resp: 4921
Ion Ratio Lower Upper
76 100
78 32.6 26.1 39.1

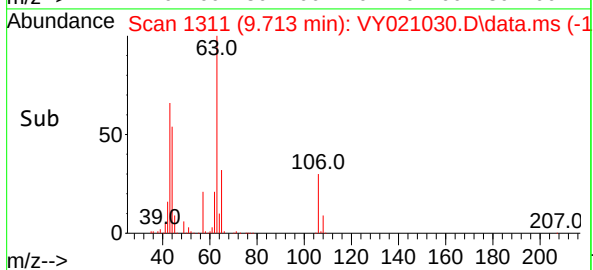
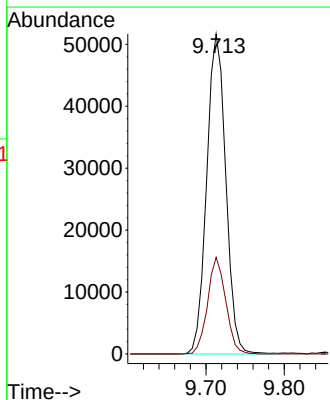
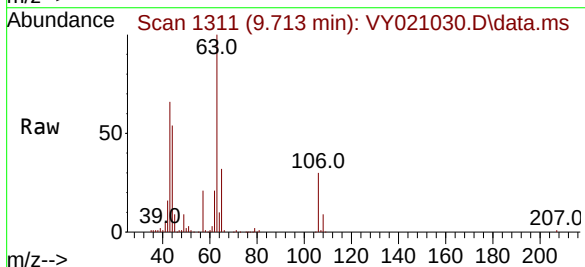
Manual Integrations
APPROVED

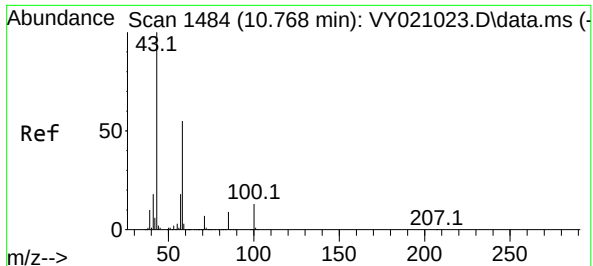
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#58
2-Chloroethyl Vinyl ether
Concen: 92.345 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

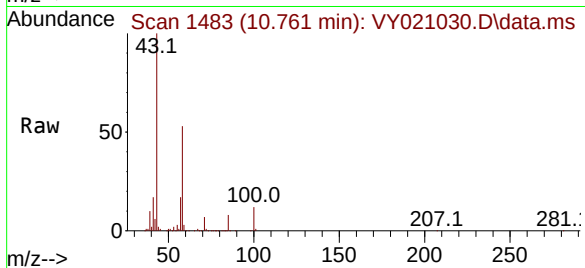
Tgt Ion: 63 Resp: 87401
Ion Ratio Lower Upper
63 100
106 28.7 22.4 33.6





#59
2-Hexanone
Concen: 99.341 ug/l
RT: 10.761 min Scan# 1483
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

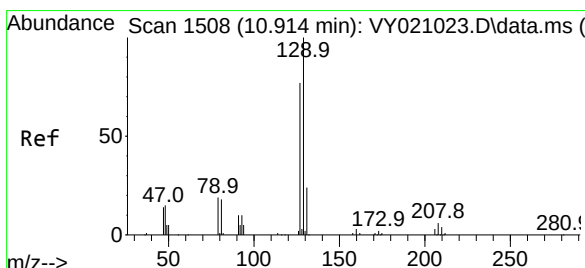
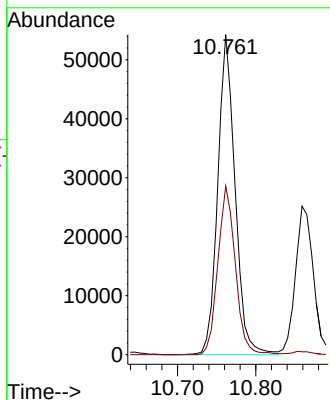
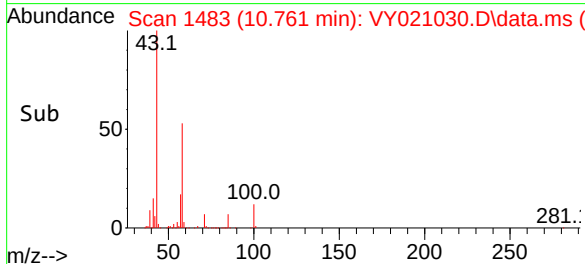
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01



Tgt Ion: 43 Resp: 8348
Ion Ratio Lower Upper
43 100
58 53.3 28.1 84.3

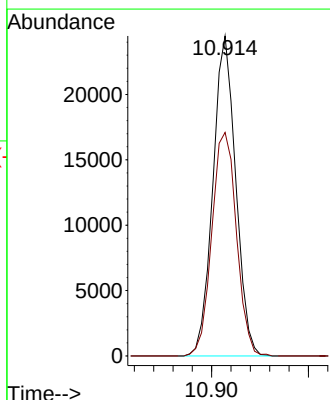
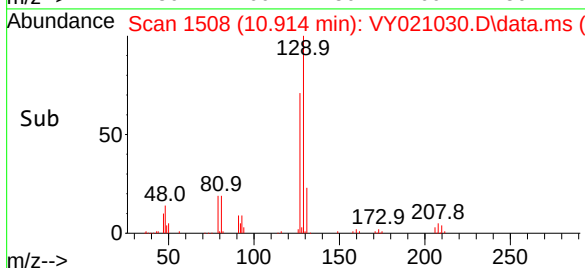
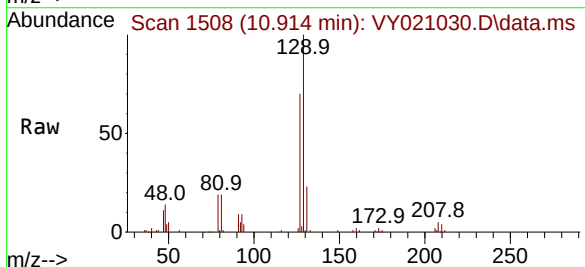
Manual Integrations
APPROVED

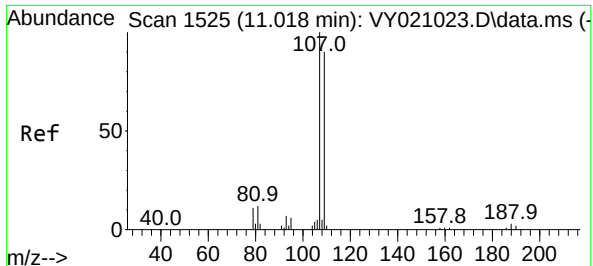
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#60
Dibromochloromethane
Concen: 19.180 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

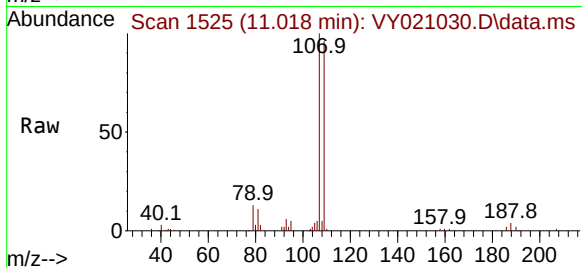
Tgt Ion:129 Resp: 40055
Ion Ratio Lower Upper
129 100
127 75.3 39.2 117.6





#61
1,2-Dibromoethane
Concen: 19.022 ug/l
RT: 11.018 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

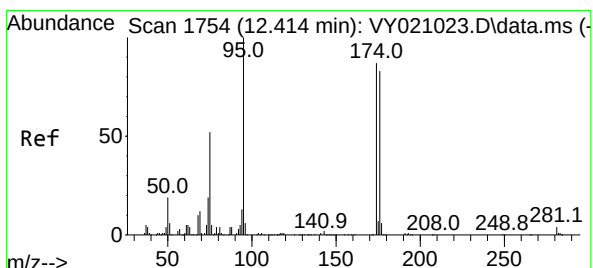
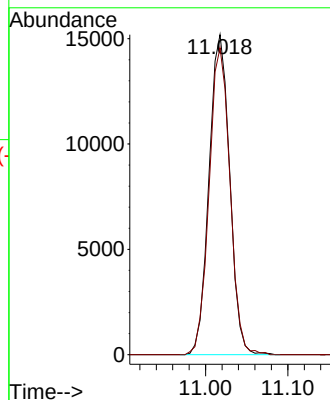
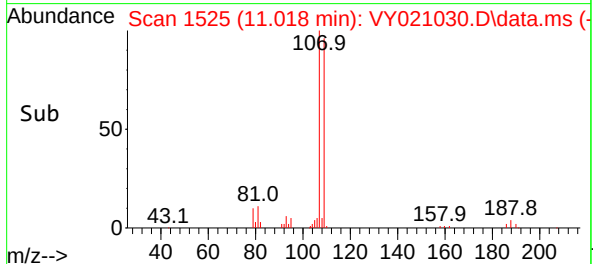
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01



Tgt Ion:107 Resp: 2649
Ion Ratio Lower Upper
107 100
109 96.8 75.4 113.2

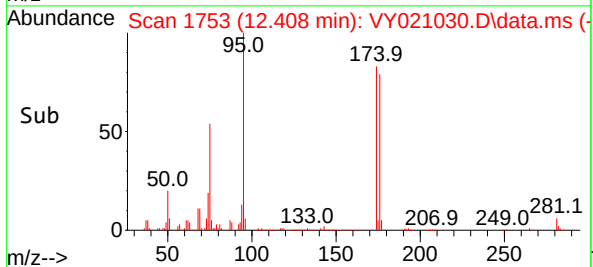
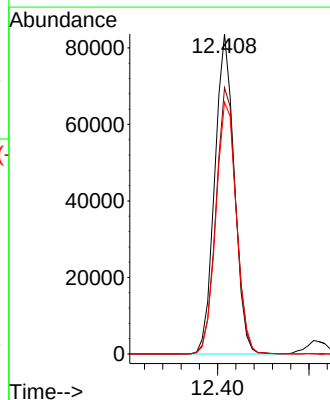
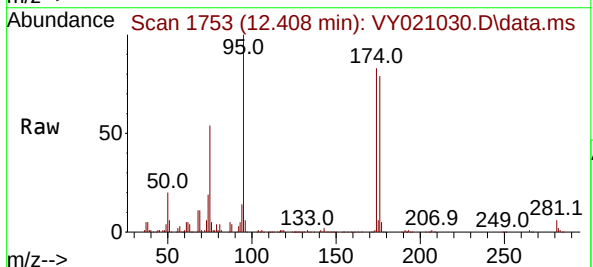
Manual Integrations
APPROVED

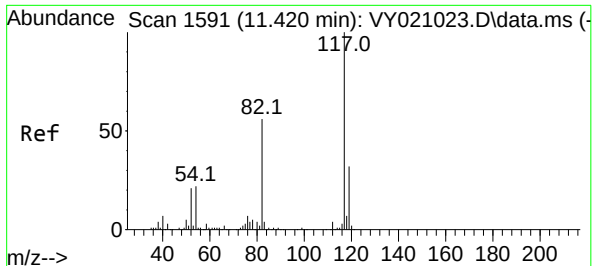
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#62
4-Bromofluorobenzene
Concen: 49.655 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion: 95 Resp: 124160
Ion Ratio Lower Upper
95 100
174 85.7 0.0 160.0
176 82.6 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion:117 Resp: 262239

Ion Ratio Lower Upper

117 100

82 55.2 43.8 65.8

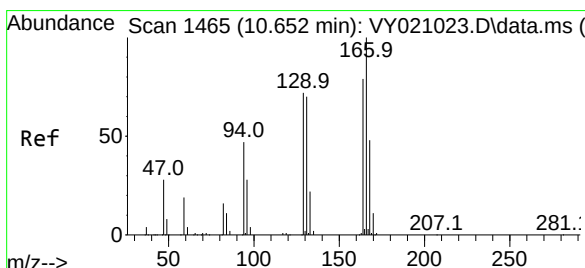
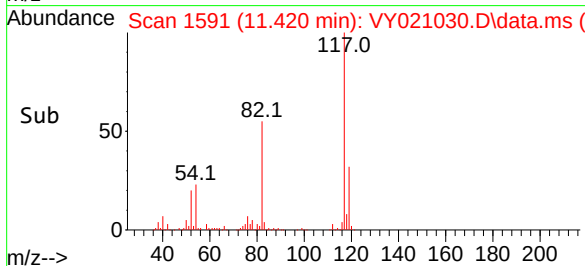
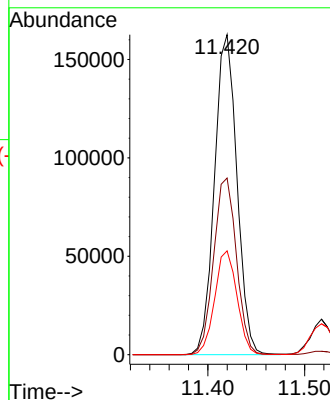
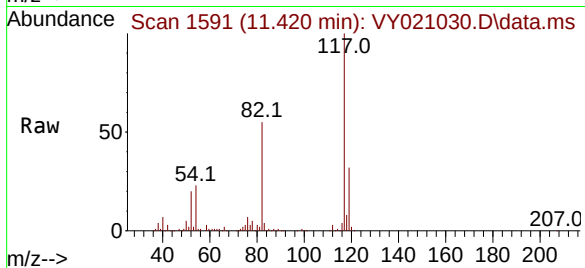
119 32.4 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#64

Tetrachloroethene

Concen: 19.925 ug/l

RT: 10.646 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:164 Resp: 38789

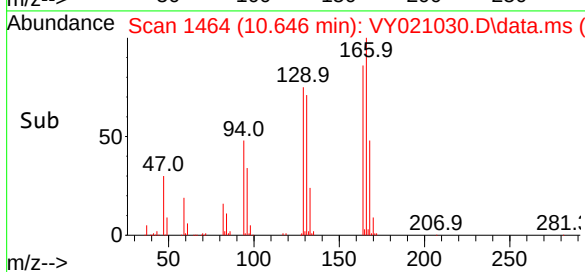
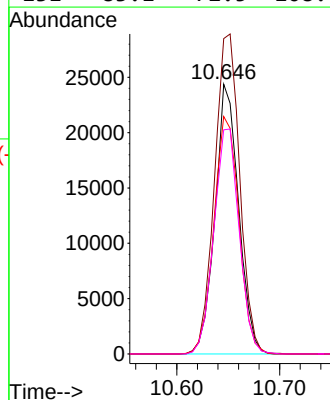
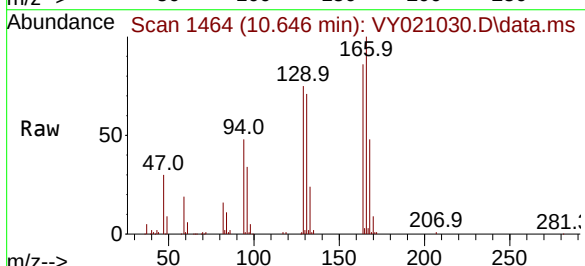
Ion Ratio Lower Upper

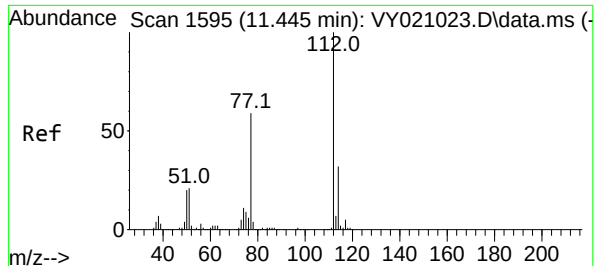
164 100

166 116.9 98.8 148.2

129 88.1 78.9 118.3

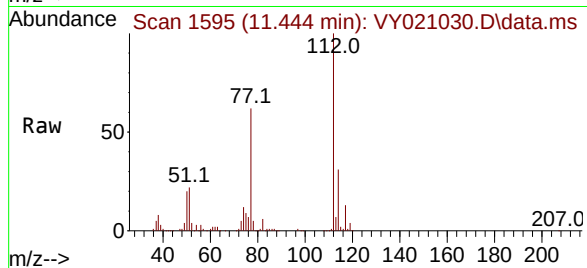
131 83.1 72.5 108.7





#65
Chlorobenzene
Concen: 19.673 ug/l
RT: 11.444 min Scan# 11487
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

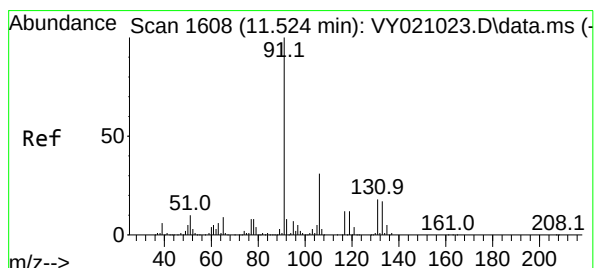
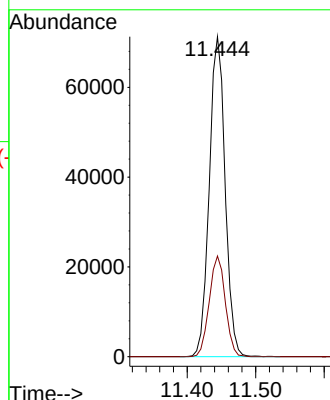
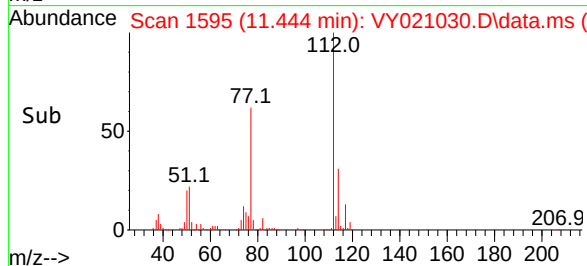
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01



Tgt Ion:112 Resp: 11487
Ion Ratio Lower Upper
112 100
114 31.5 26.1 39.1

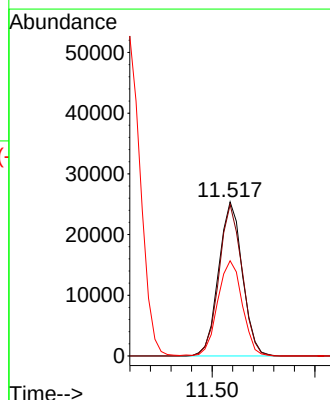
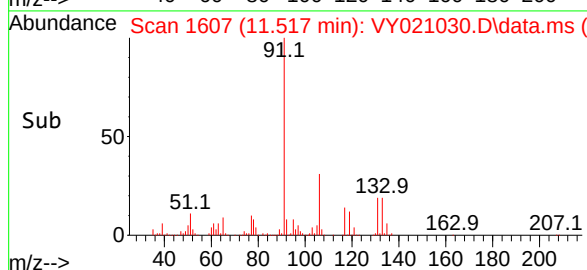
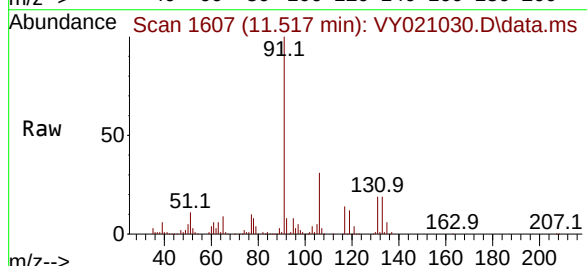
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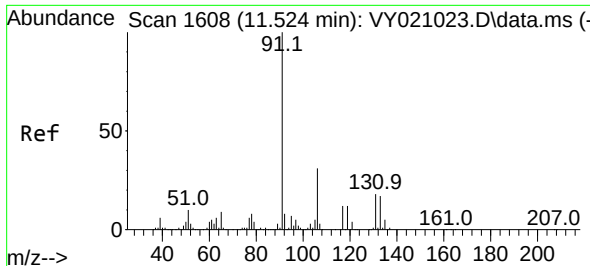
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.591 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion:131 Resp: 40654
Ion Ratio Lower Upper
131 100
133 96.1 47.0 141.0
119 63.9 33.3 99.9





#67

Ethyl Benzene

Concen: 19.937 ug/l

RT: 11.517 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion: 91 Resp: 20591

Ion Ratio Lower Upper

91 100

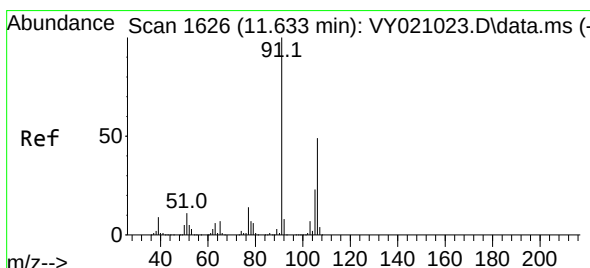
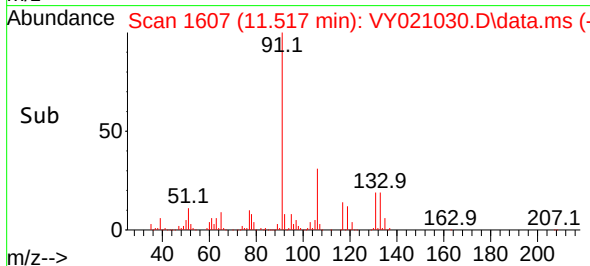
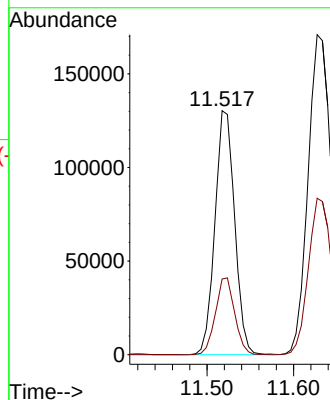
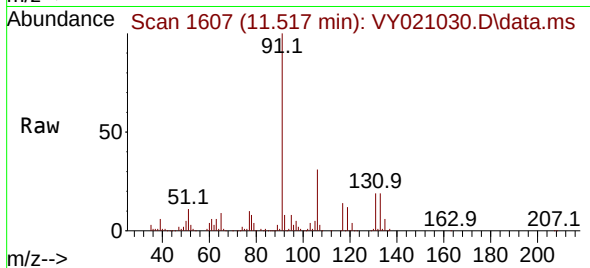
106 31.0 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#68

m/p-Xylenes

Concen: 40.235 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.006 min

Lab File: VY021030.D

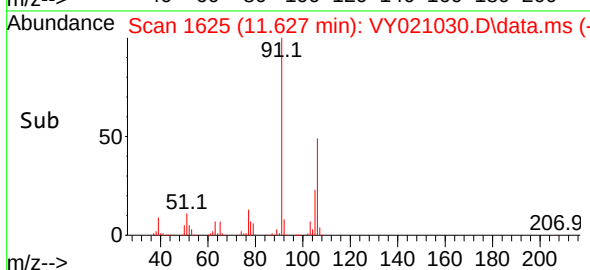
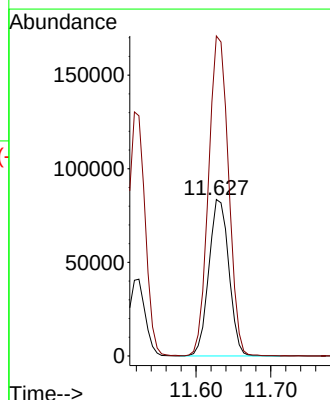
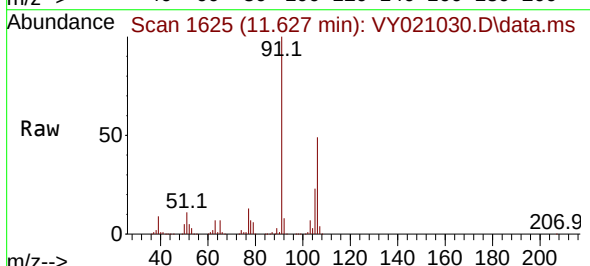
Acq: 03 Feb 2025 15:17

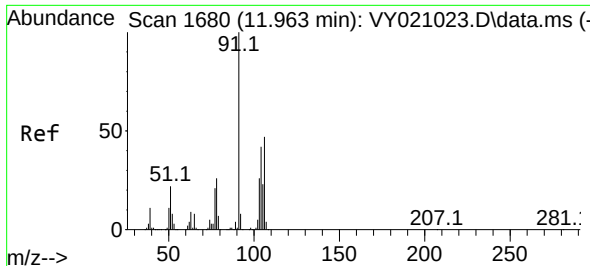
Tgt Ion:106 Resp: 155455

Ion Ratio Lower Upper

106 100

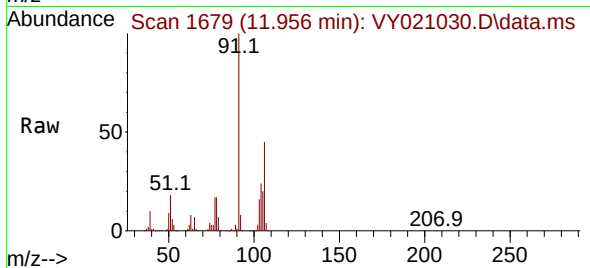
91 204.5 160.7 241.1





#69
o-Xylene
Concen: 19.760 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

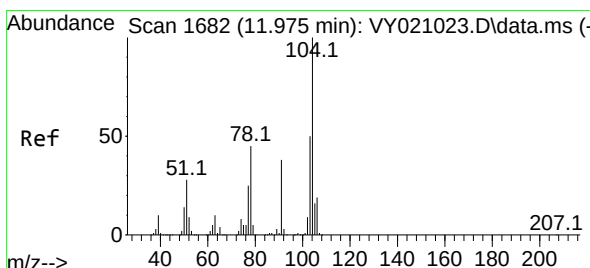
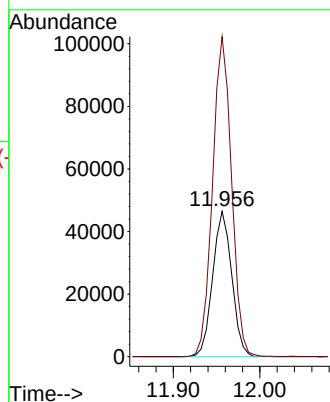
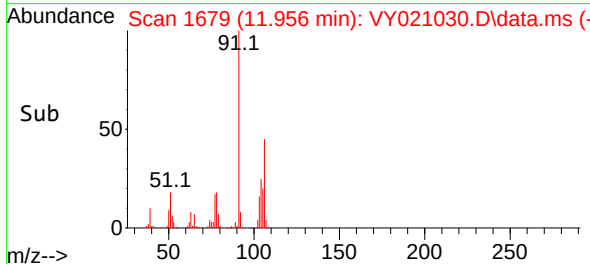
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01



Tgt Ion:106 Resp: 7118
Ion Ratio Lower Upper
106 100
91 219.1 106.5 319.5

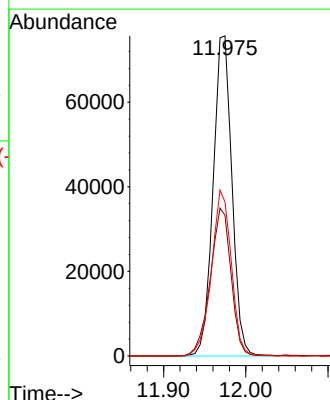
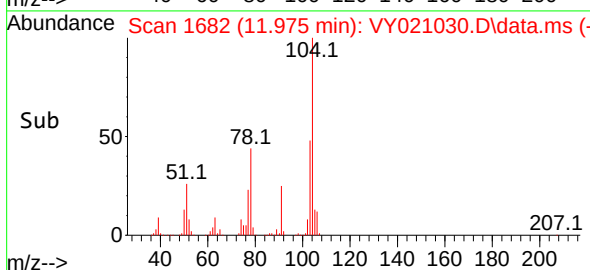
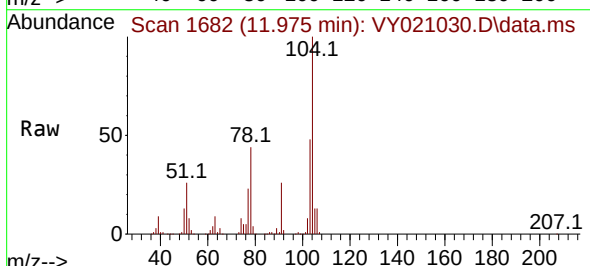
Manual Integrations
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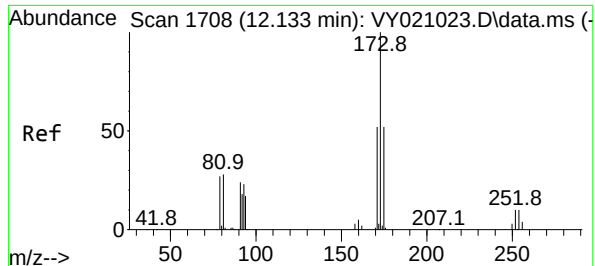
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#70
Styrene
Concen: 20.050 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

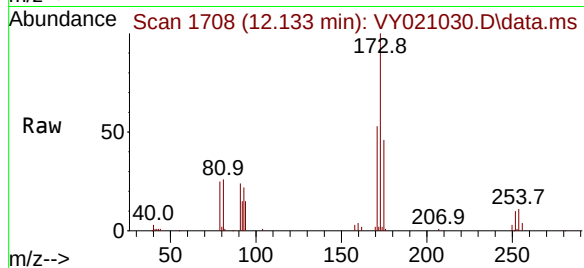
Tgt Ion:104 Resp: 120377
Ion Ratio Lower Upper
104 100
78 51.1 39.2 58.8
103 54.9 43.8 65.6





#71
Bromoform
Concen: 19.978 ug/l
RT: 12.133 min Scan# 1708
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

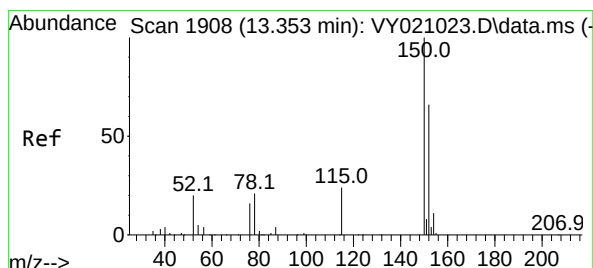
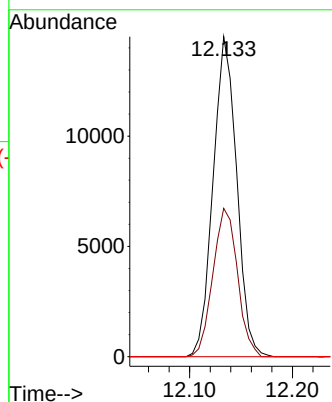
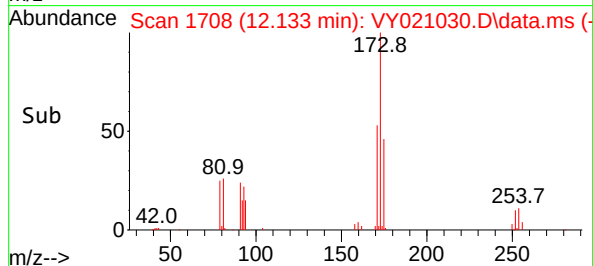
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01



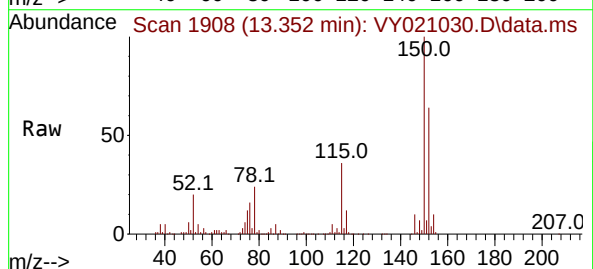
Tgt Ion:173 Resp: 23075
Ion Ratio Lower Upper
173 100
175 48.4 23.5 70.6
254 0.0 0.0 0.0

Manual Integrations
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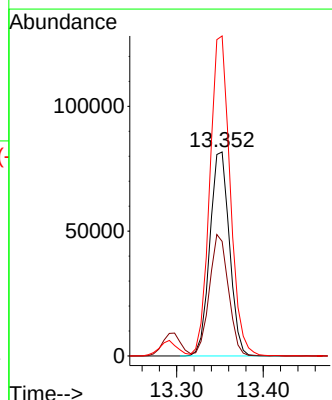
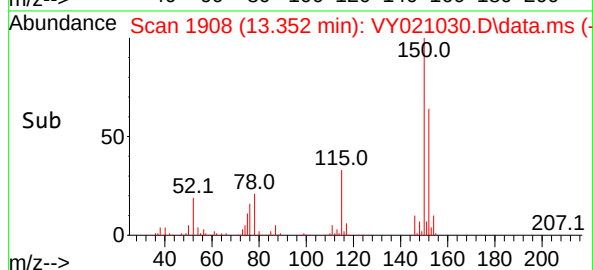
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

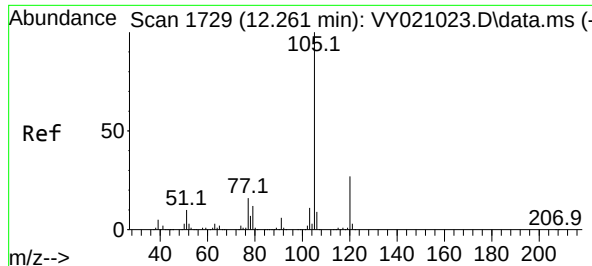


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17



Tgt Ion:152 Resp: 128240
Ion Ratio Lower Upper
152 100
115 57.9 30.0 90.0
150 162.5 0.0 344.6





#73

Isopropylbenzene

Concen: 19.522 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion:105 Resp: 19556

Ion Ratio Lower Upper

105 100

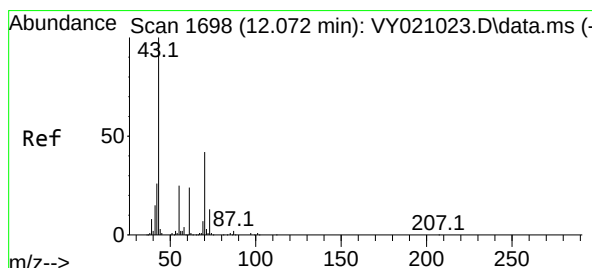
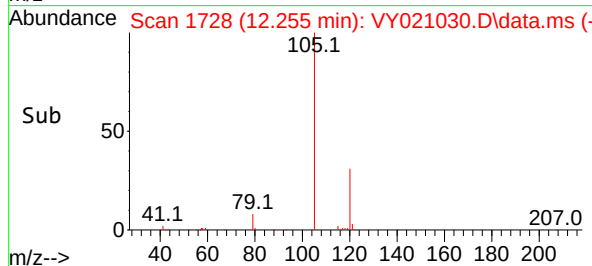
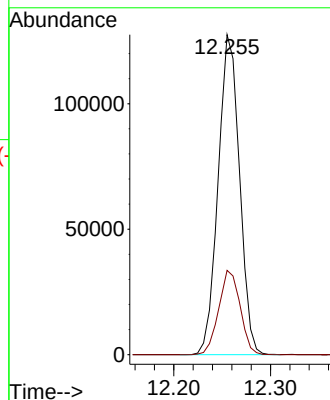
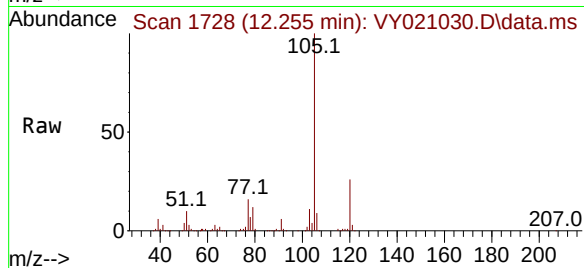
120 26.4 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#74

N-ethyl acetate

Concen: 19.327 ug/l

RT: 12.072 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion: 43 Resp: 42327

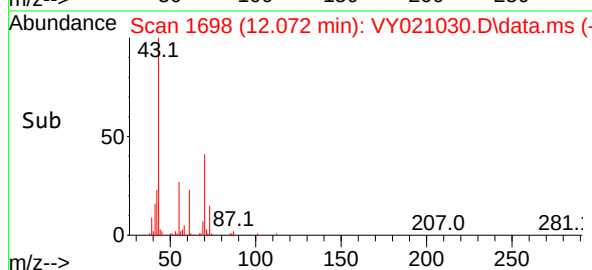
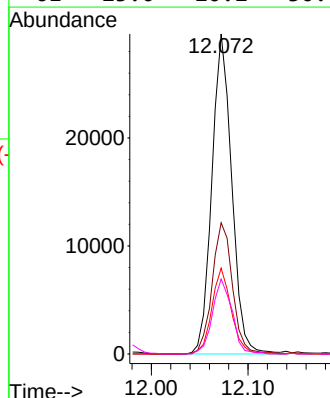
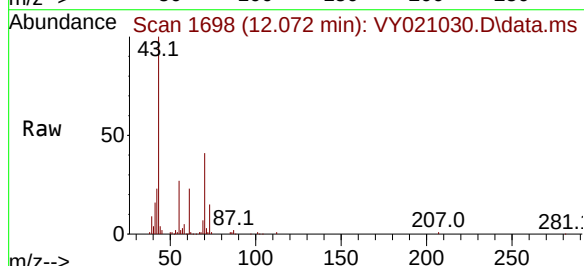
Ion Ratio Lower Upper

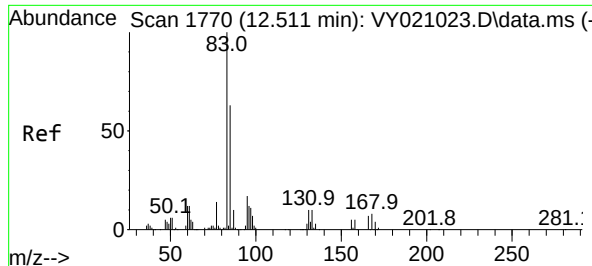
43 100

70 41.9 36.6 55.0

55 26.4 22.2 33.4

61 23.0 20.2 30.4





#75

1,1,2,2-Tetrachloroethane

Concen: 19.184 ug/l

RT: 12.511 min Scan# 1770

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

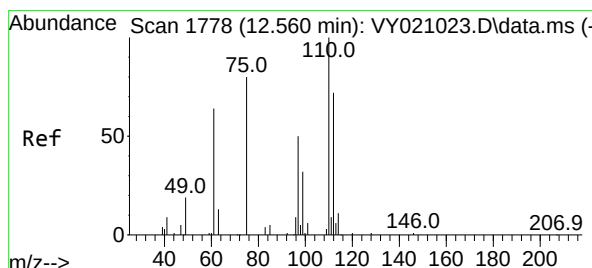
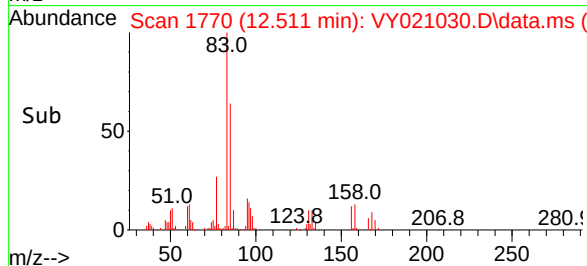
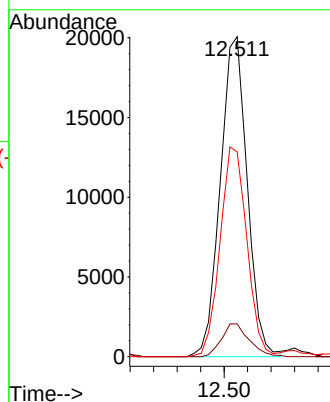
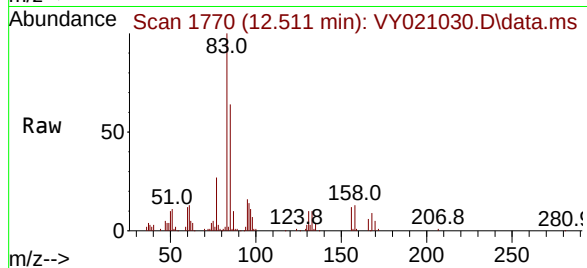
Tgt Ion: 83	Resp: 31960
Ion Ratio	Lower Upper
83 100	
131 10.6	4.9 14.6
85 65.2	32.6 98.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#76

1,2,3-Trichloropropane

Concen: 17.619 ug/l m

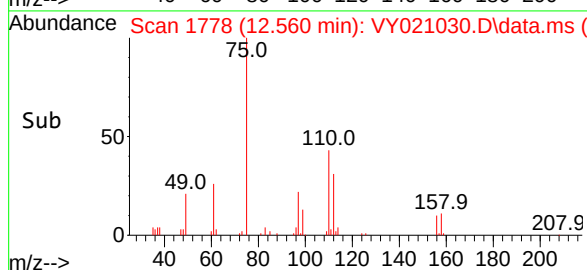
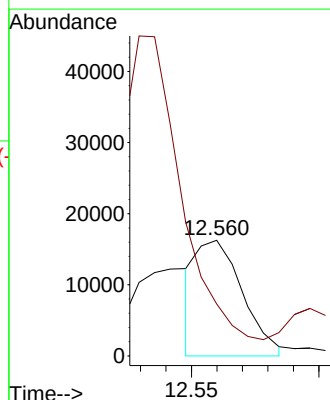
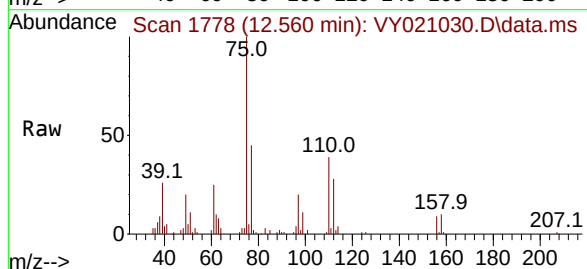
RT: 12.560 min Scan# 1778

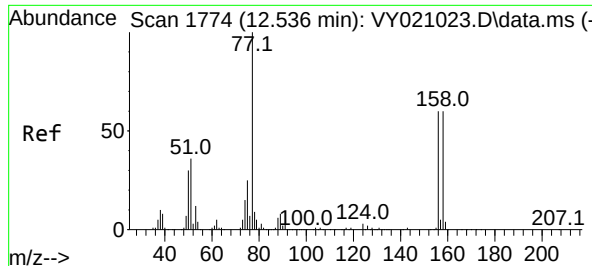
Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion: 75	Resp: 20496
Ion Ratio	Lower Upper
75 100	
77 0.0	0.0 0.0





#77

Bromobenzene

Concen: 19.481 ug/l

RT: 12.536 min Scan# 1774

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

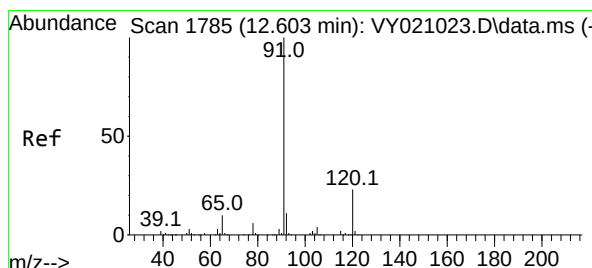
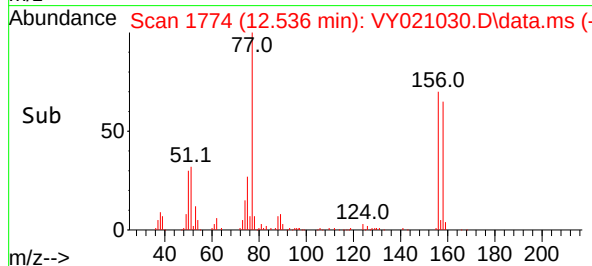
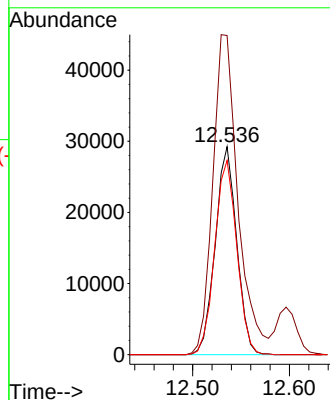
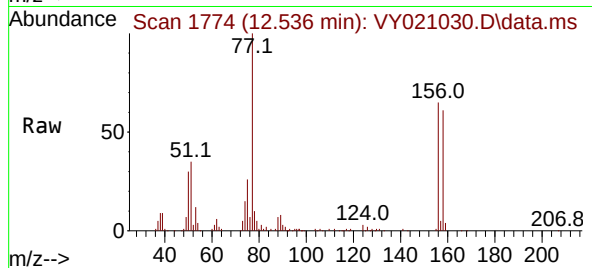
VY0203SBSD01

Tgt Ion:	156	Resp:	4503
Ion Ratio	Lower	Upper	
156	100		
77	181.1	97.3	291.8
158	96.1	48.4	145.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#78

n-propylbenzene

Concen: 19.777 ug/l

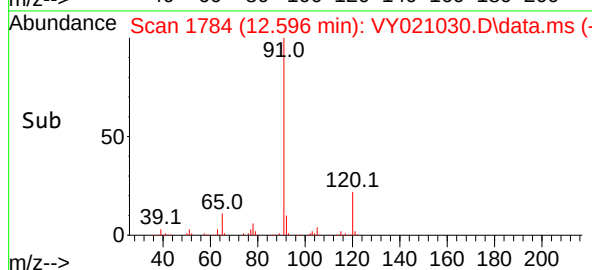
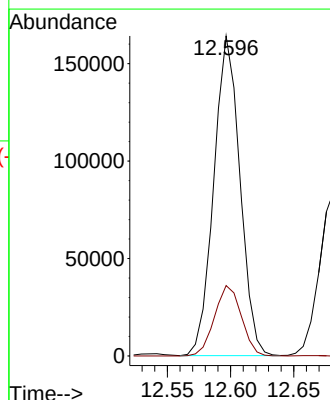
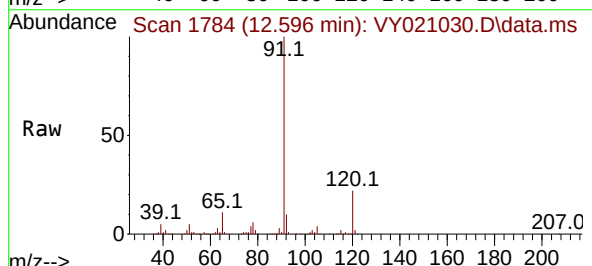
RT: 12.596 min Scan# 1784

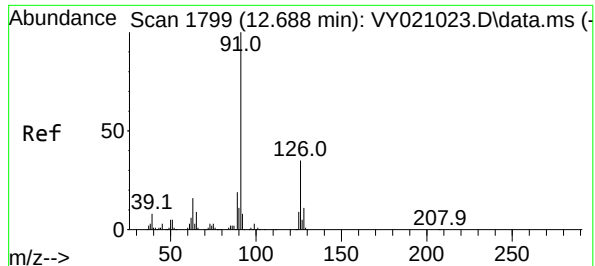
Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:	91	Resp:	236000
Ion Ratio	Lower	Upper	
91	100		
120	22.6	11.0	33.0





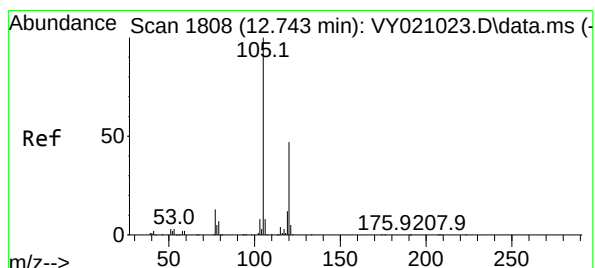
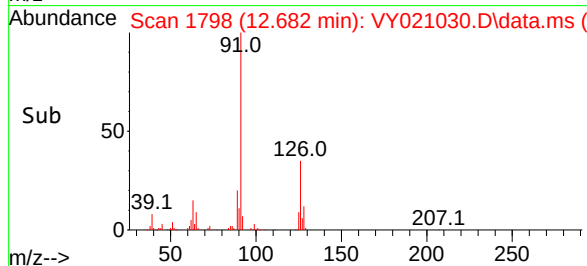
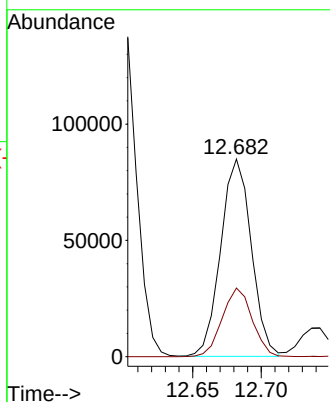
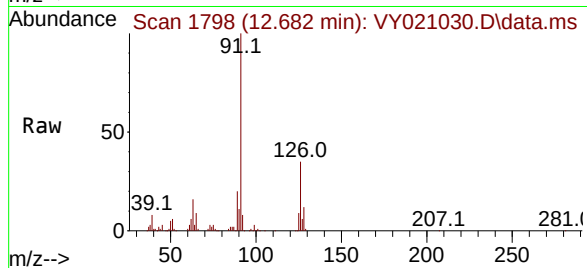
#79
2-Chlorotoluene
Concen: 19.293 ug/l
RT: 12.682 min Scan# 1799
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Tgt Ion: 91 Resp: 131850
Ion Ratio Lower Upper
91 100
126 34.1 17.0 51.0

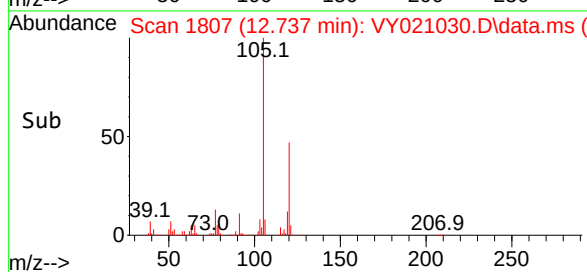
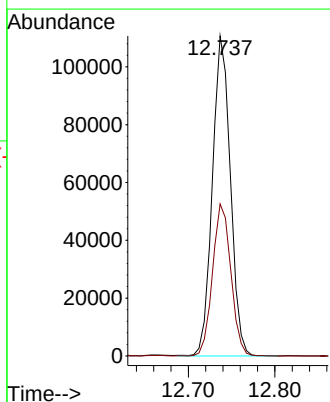
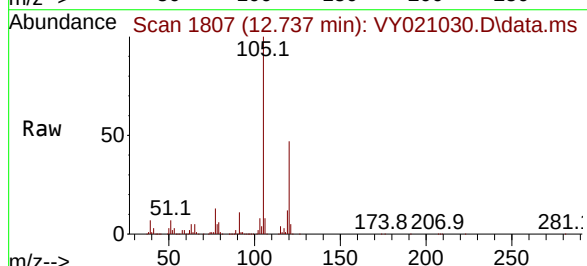
Manual Integrations
APPROVED

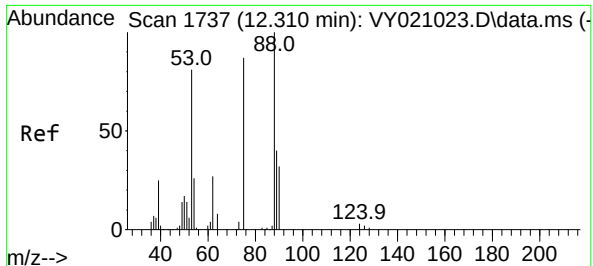
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#80
1,3,5-Trimethylbenzene
Concen: 19.658 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

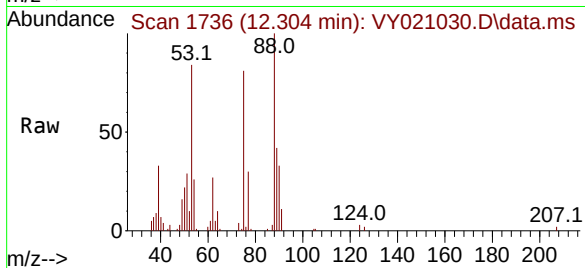
Tgt Ion:105 Resp: 159660
Ion Ratio Lower Upper
105 100
120 48.4 24.3 72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 18.267 ug/l
RT: 12.304 min Scan# 1736
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

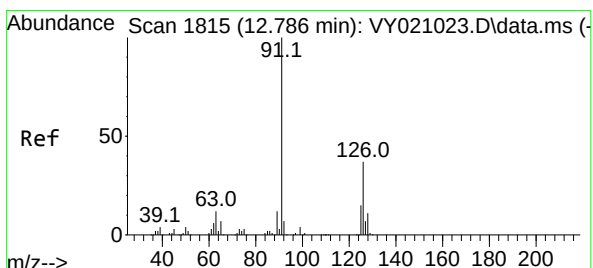
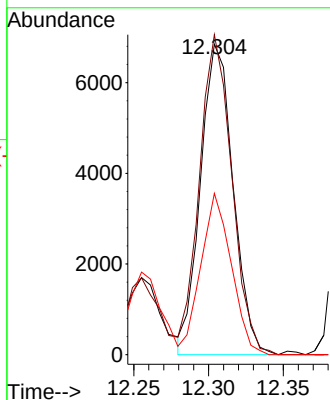
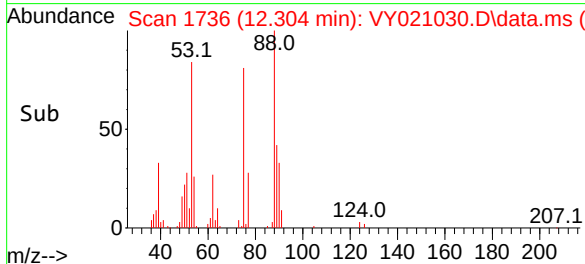
Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01



Tgt Ion: 75 Resp: 10414
Ion Ratio Lower Upper
75 100
53 101.9 74.0 111.0
89 48.4 36.5 54.7

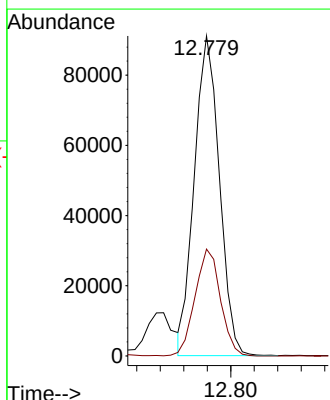
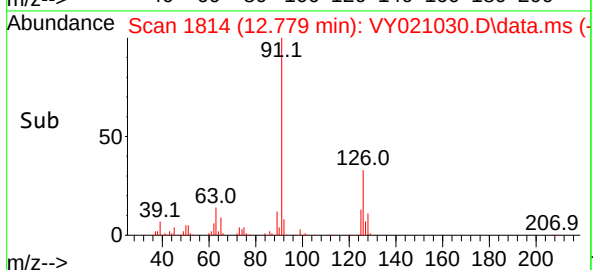
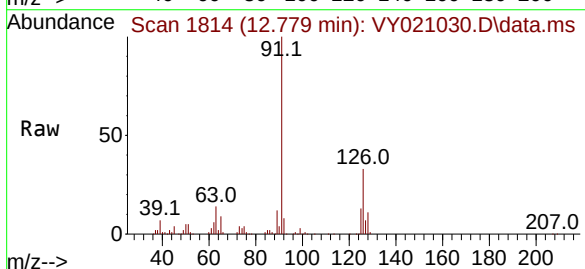
Manual Integrations
APPROVED

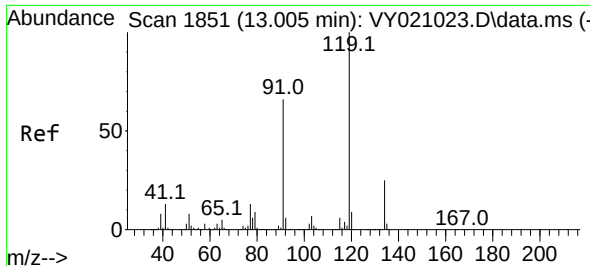
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#82
4-Chlorotoluene
Concen: 19.337 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion: 91 Resp: 134650
Ion Ratio Lower Upper
91 100
126 34.0 17.1 51.2





#83

tert-Butylbenzene

Concen: 19.349 ug/l

RT: 12.999 min Scan# 1850

Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion:119 Resp: 142840

Ion Ratio Lower Upper

119 100

91 67.0 31.5 94.5

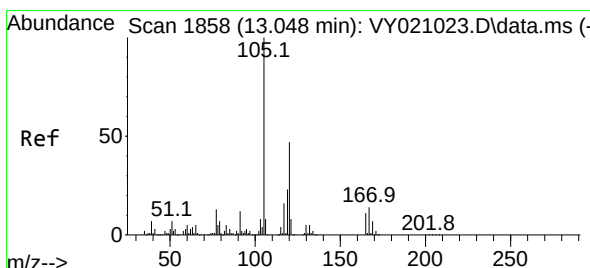
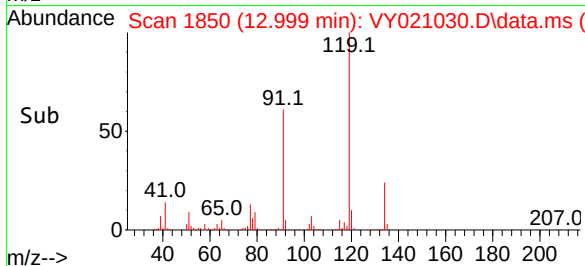
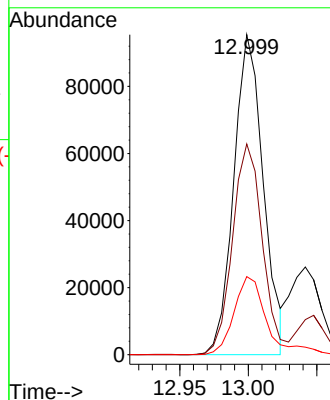
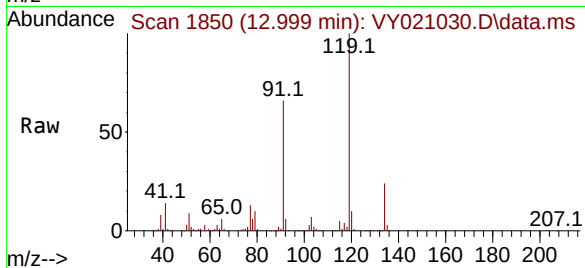
134 27.1 13.1 39.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#84

1,2,4-Trimethylbenzene

Concen: 19.776 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. -0.000 min

Lab File: VY021030.D

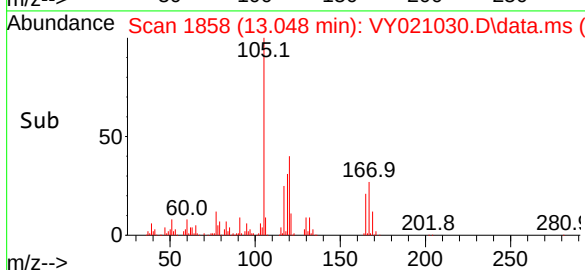
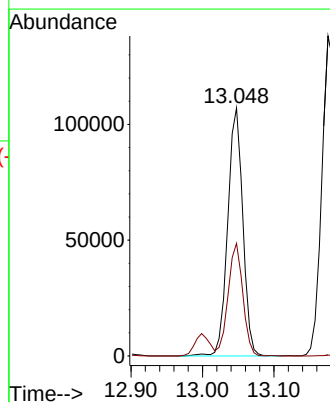
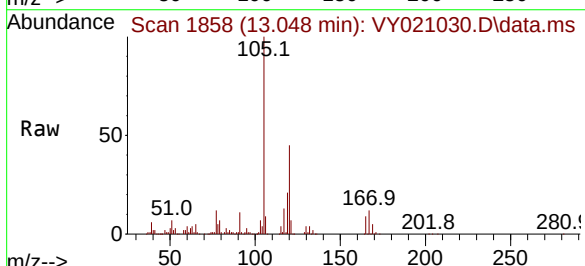
Acq: 03 Feb 2025 15:17

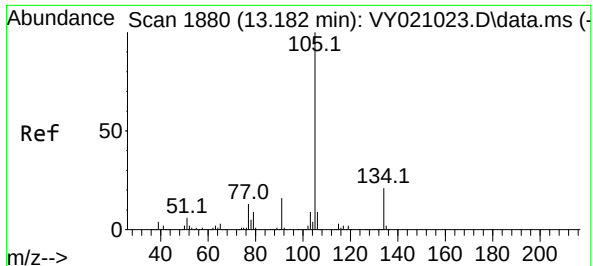
Tgt Ion:105 Resp: 157049

Ion Ratio Lower Upper

105 100

120 44.3 22.1 66.3





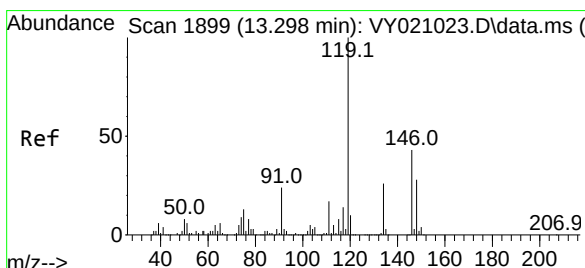
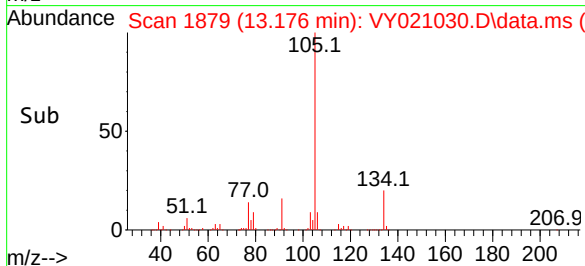
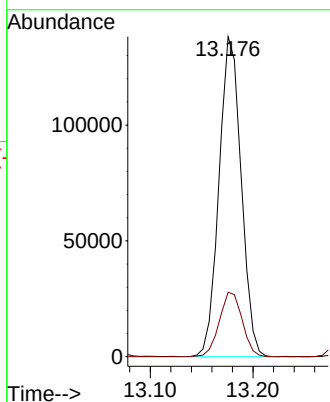
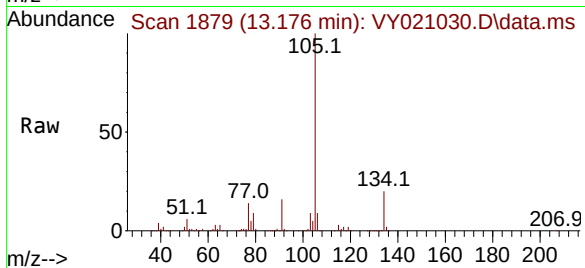
#85
sec-Butylbenzene
Concen: 19.461 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Tgt Ion:105 Resp: 20680
Ion Ratio Lower Upper
105 100
134 20.8 9.7 28.9

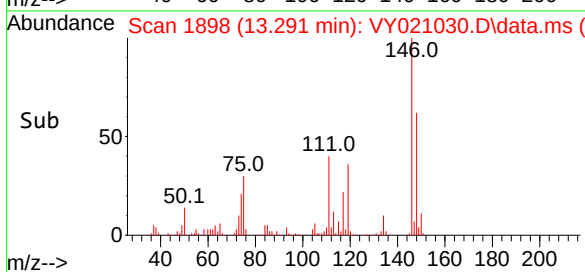
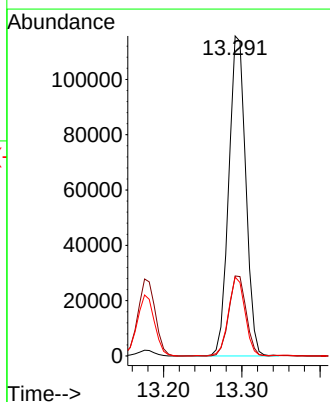
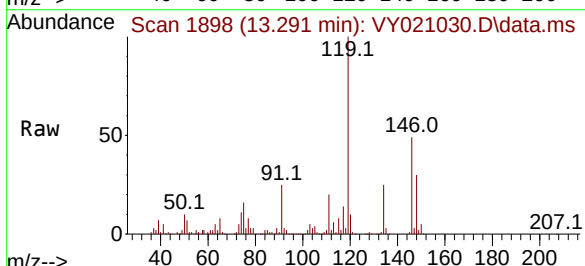
Manual Integrations
APPROVED

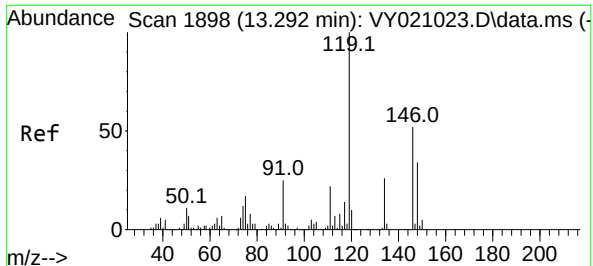
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#86
p-Isopropyltoluene
Concen: 19.693 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.006 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion:119 Resp: 173840
Ion Ratio Lower Upper
119 100
134 25.4 13.1 39.1
91 24.2 11.7 35.0





#87

1,3-Dichlorobenzene

Concen: 19.479 ug/l

RT: 13.291 min Scan# 1898

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

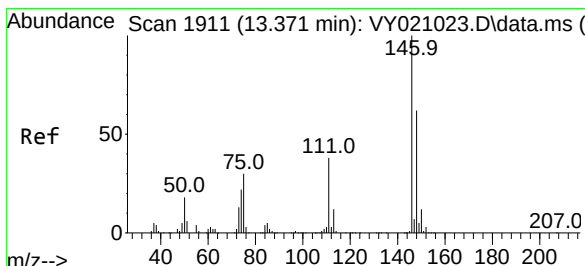
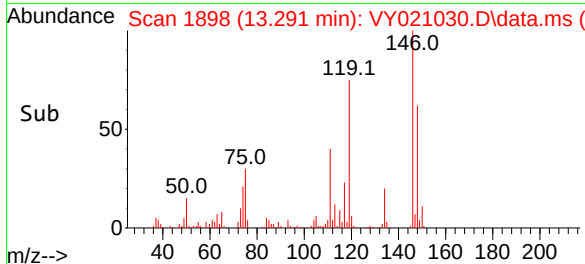
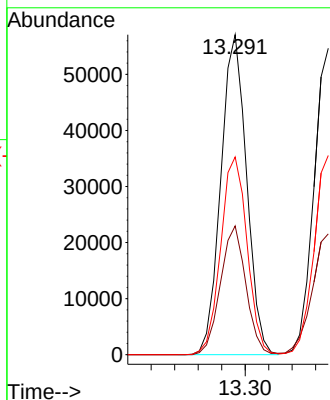
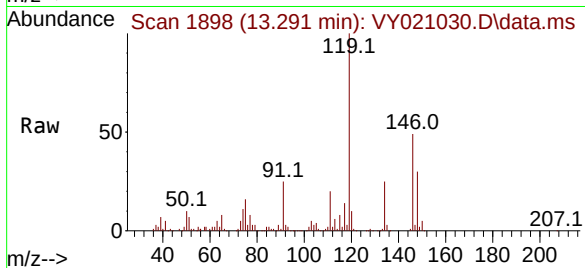
VY0203SBSD01

Tgt Ion:	146	Resp:	8694
Ion Ratio	Lower	Upper	
146	100		
111	39.6	20.2	60.5
148	63.3	31.9	95.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 19.285 ug/l

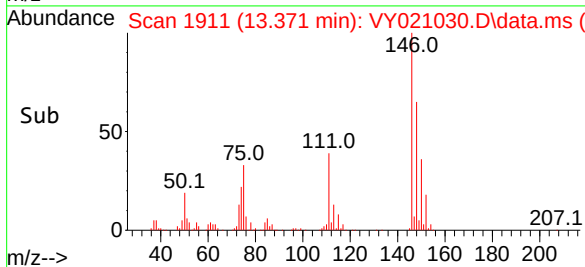
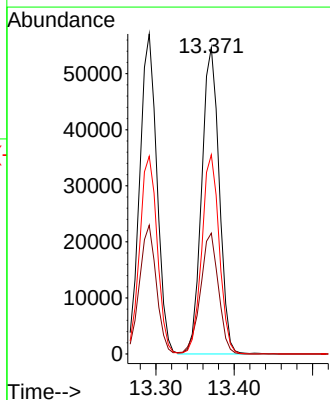
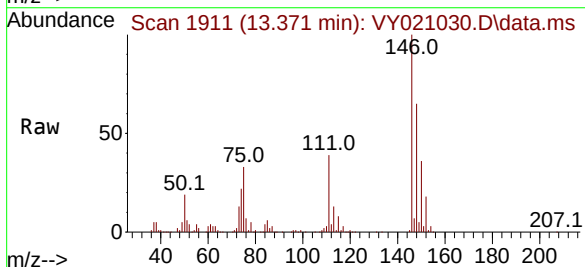
RT: 13.371 min Scan# 1911

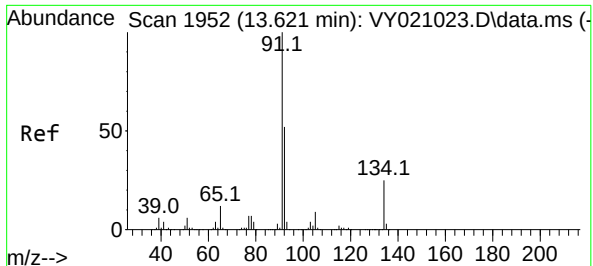
Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:	146	Resp:	84756
Ion Ratio	Lower	Upper	
146	100		
111	40.4	19.3	57.9
148	64.8	31.6	94.7





#89

n-Butylbenzene

Concen: 19.560 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

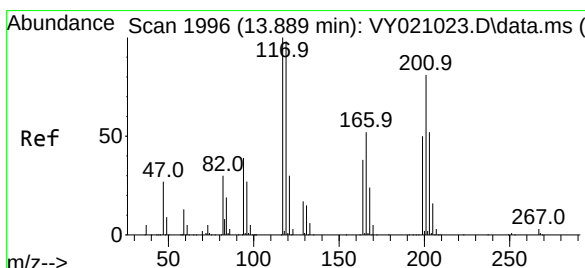
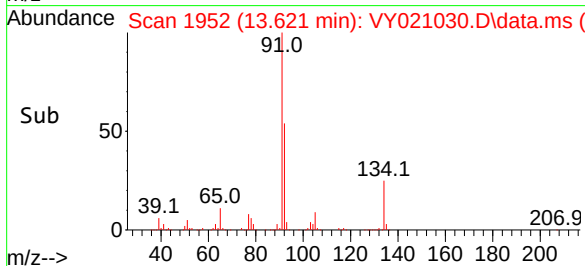
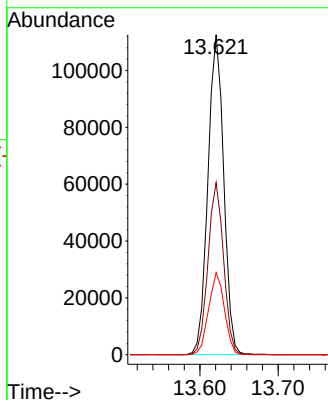
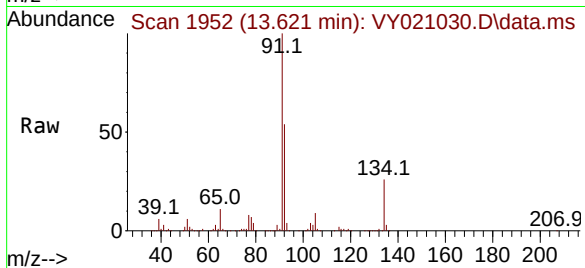
VY0203SBSD01

Tgt Ion:	91	Resp:	157518
Ion Ratio	Lower	Upper	
91	100		
92	53.1	26.4	79.2
134	25.7	12.3	36.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#90

Hexachloroethane

Concen: 19.216 ug/l

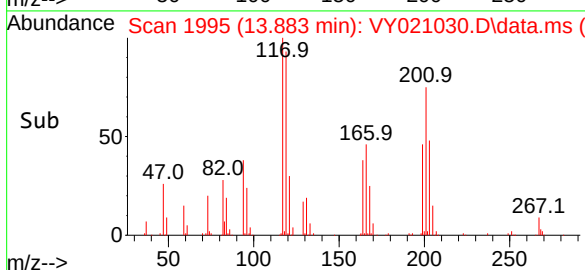
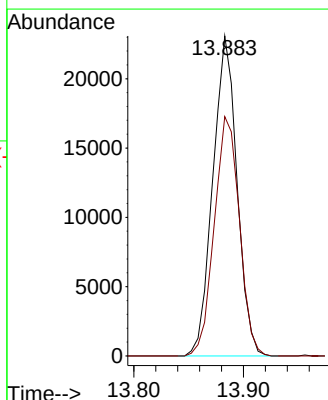
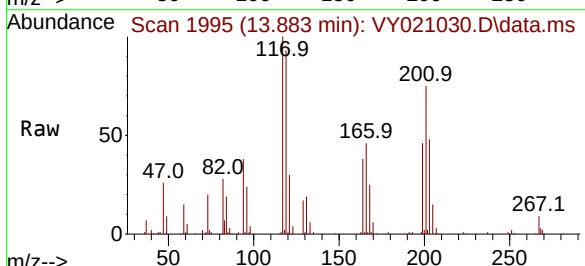
RT: 13.883 min Scan# 1995

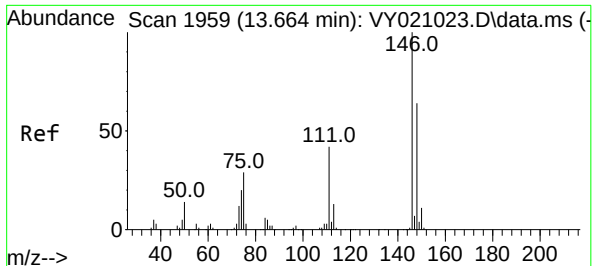
Delta R.T. -0.006 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:	117	Resp:	35386
Ion Ratio	Lower	Upper	
117	100		
201	77.7	33.4	100.1





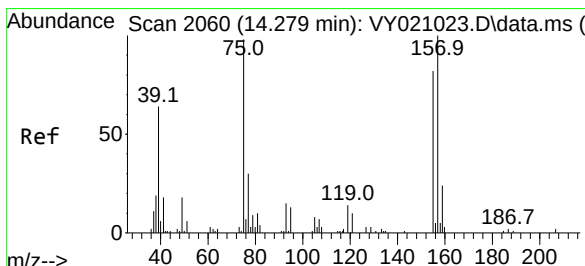
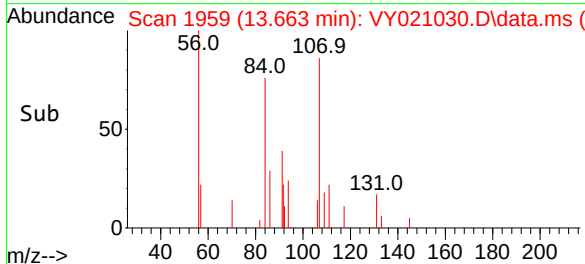
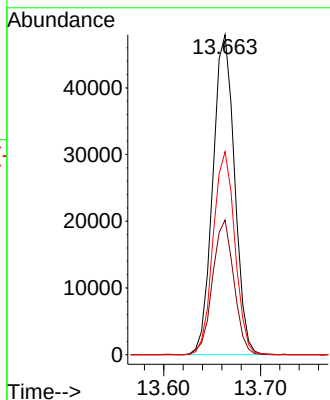
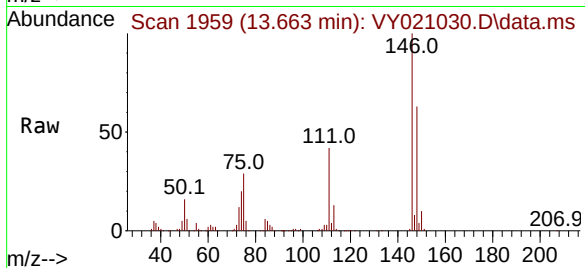
#91
1,2-Dichlorobenzene
Concen: 19.309 ug/l
RT: 13.663 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VY0203SBSD01

Tgt Ion:146 Resp: 74800
Ion Ratio Lower Upper
146 100
111 41.5 20.5 61.6
148 63.6 31.4 94.3

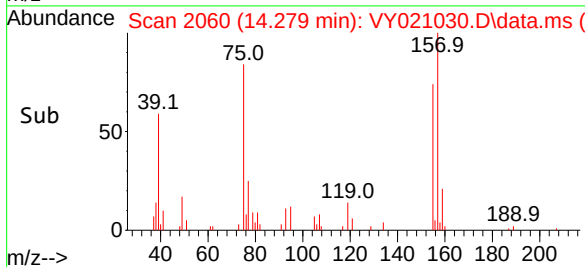
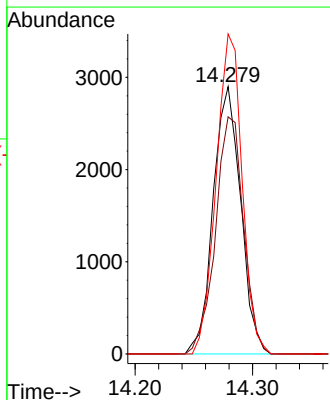
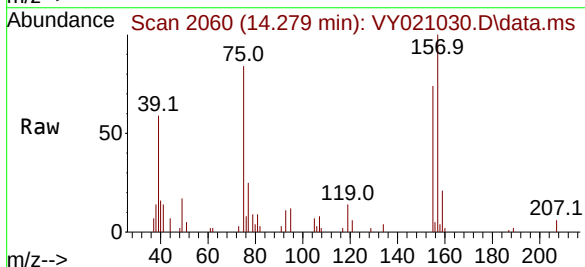
Manual Integrations
APPROVED

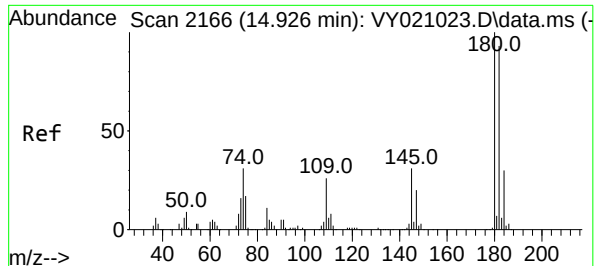
Reviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.915 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. -0.000 min
Lab File: VY021030.D
Acq: 03 Feb 2025 15:17

Tgt Ion: 75 Resp: 4709
Ion Ratio Lower Upper
75 100
155 90.7 42.1 126.3
157 113.2 55.8 167.4





#93

1,2,4-Trichlorobenzene

Concen: 18.922 ug/l

RT: 14.925 min Scan# 2166

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

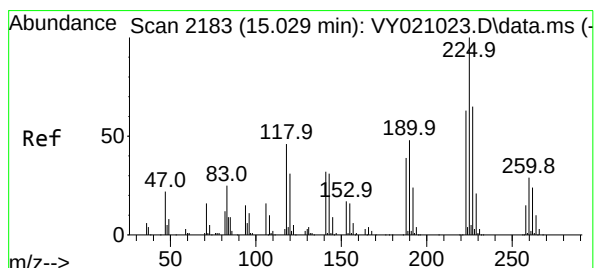
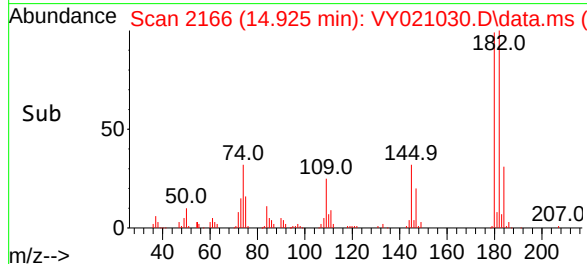
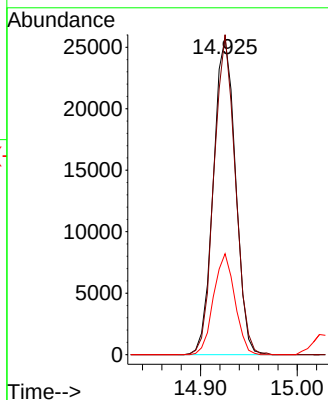
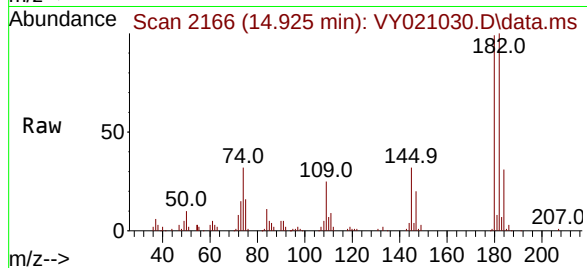
Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion:180	Resp:	40804
Ion Ratio	Lower	Upper
180	100	
182	97.4	47.9 143.7
145	30.7	15.9 47.7

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 02/04/2025
Supervised By :Semsettin Yesilyurt 02/04/2025

#94

Hexachlorobutadiene

Concen: 18.952 ug/l

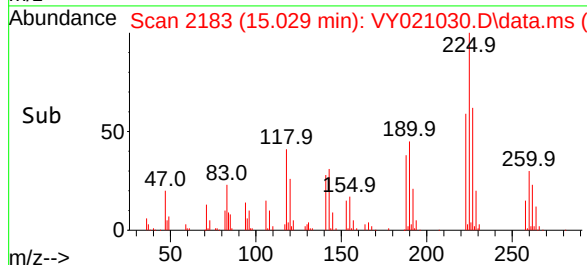
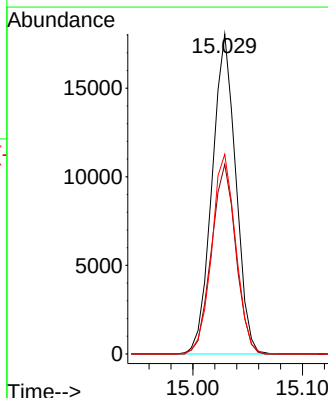
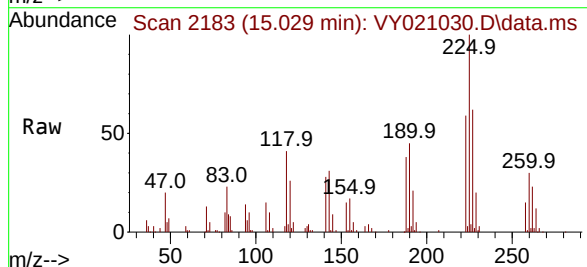
RT: 15.029 min Scan# 2183

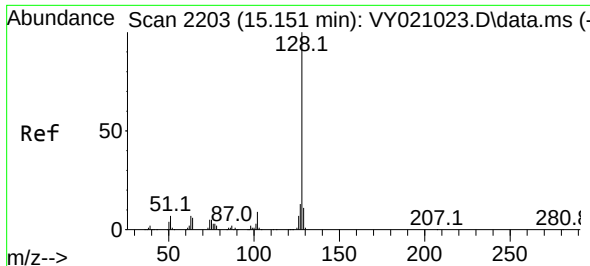
Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Tgt Ion:225	Resp:	27082
Ion Ratio	Lower	Upper
225	100	
223	61.1	31.4 94.3
227	63.2	32.3 96.8





#95

Naphthalene

Concen: 18.763 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

Instrument :

MSVOA_Y

ClientSampleId :

VY0203SBSD01

Tgt Ion:128 Resp: 64732

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

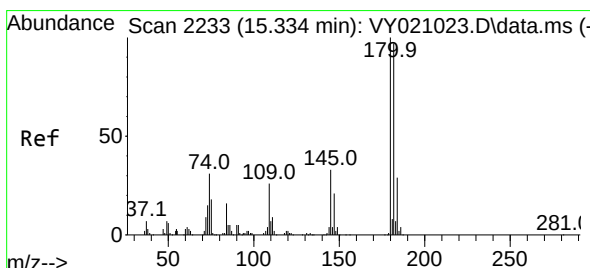
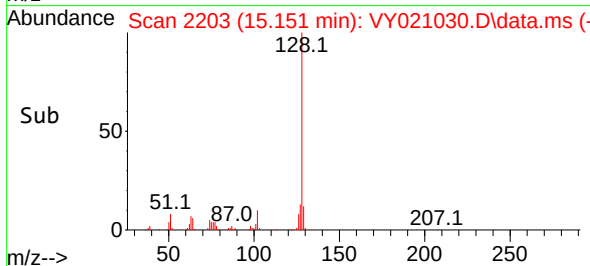
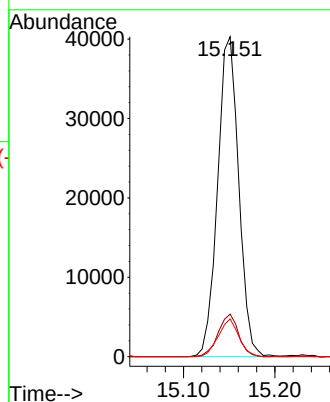
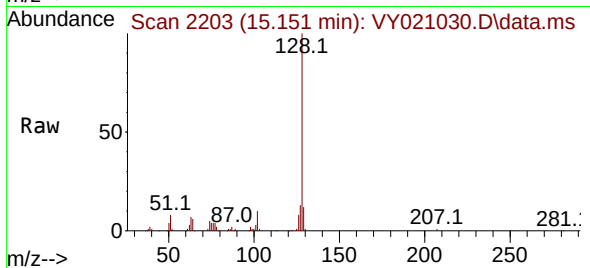
129 11.4 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 02/04/2025

Supervised By :Semsettin Yesilyurt 02/04/2025



#96

1,2,3-Trichlorobenzene

Concen: 19.274 ug/l

RT: 15.334 min Scan# 2233

Delta R.T. -0.000 min

Lab File: VY021030.D

Acq: 03 Feb 2025 15:17

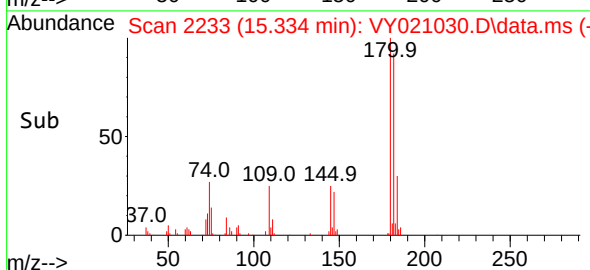
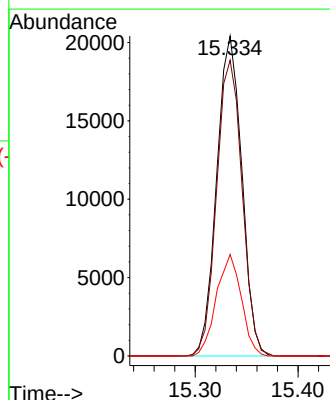
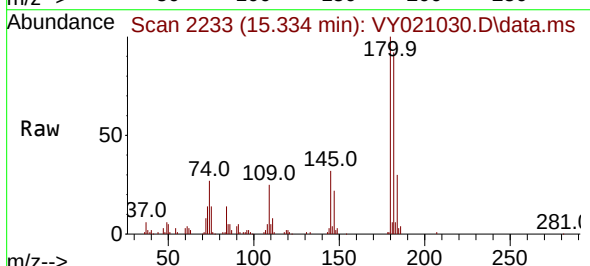
Tgt Ion:180 Resp: 34588

Ion Ratio Lower Upper

180 100

182 93.8 46.3 138.8

145 31.6 16.1 48.2



Manual Integration Report

Sequence:	VY020325	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VY021020.D	1,2,3-Trichloropropane	MMDadoda	2/4/2025 3:47:43 PM	SAM	2/4/2025 3:52:46 PM	Peak Integrated by Software
VSTDIC005	VY021020.D	Methacrylonitrile	MMDadoda	2/4/2025 3:47:43 PM	SAM	2/4/2025 3:52:46 PM	Peak Integrated by Software
VSTDIC010	VY021021.D	1,2,3-Trichloropropane	MMDadoda	2/4/2025 3:47:41 PM	SAM	2/4/2025 3:52:44 PM	Peak Integrated by Software
VSTDIC010	VY021021.D	Methacrylonitrile	MMDadoda	2/4/2025 3:47:41 PM	SAM	2/4/2025 3:52:44 PM	Peak Integrated by Software
VSTDIC010	VY021021.D	Tert butyl alcohol	MMDadoda	2/4/2025 3:47:41 PM	SAM	2/4/2025 3:52:44 PM	Peak Integrated by Software
VSTDIC020	VY021022.D	1,2,3-Trichloropropane	MMDadoda	2/4/2025 3:47:39 PM	SAM	2/4/2025 3:52:43 PM	Peak Integrated by Software
VSTDIC020	VY021022.D	Methacrylonitrile	MMDadoda	2/4/2025 3:47:39 PM	SAM	2/4/2025 3:52:43 PM	Peak Integrated by Software
VSTDICCC050	VY021023.D	1,2,3-Trichloropropane	MMDadoda	2/4/2025 3:47:37 PM	SAM	2/4/2025 3:52:39 PM	Peak Integrated by Software
VSTDIC100	VY021024.D	1,2,3-Trichloropropane	MMDadoda	2/4/2025 3:47:36 PM	SAM	2/4/2025 3:53:02 PM	Peak Integrated by Software
VSTDIC150	VY021025.D	1,2,3-Trichloropropane	MMDadoda	2/4/2025 3:47:34 PM	SAM	2/4/2025 3:53:04 PM	Peak Integrated by Software
VSTDICV050	VY021027.D	1,2,3-Trichloropropane	MMDadoda	2/4/2025 3:47:32 PM	SAM	2/4/2025 3:53:10 PM	Peak Integrated by Software
VY0203SBS01	VY021029.D	1,2,3-Trichloropropane	MMDadoda	2/4/2025 3:47:30 PM	SAM	2/4/2025 3:53:07 PM	Peak Integrated by Software
VY0203SBS01	VY021029.D	Methacrylonitrile	MMDadoda	2/4/2025 3:47:30 PM	SAM	2/4/2025 3:53:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY020325	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VY0203SBSD0 1	VY021030.D	1,2,3-Trichloropropane	MMDadod a	2/4/2025 3:47:28 PM	SAM	2/4/2025 3:53:13 PM	Peak Integrated by Software
VY0203SBSD0 1	VY021030.D	Methacrylonitrile	MMDadod a	2/4/2025 3:47:28 PM	SAM	2/4/2025 3:53:13 PM	Peak Integrated by Software
VSTDCCC050	VY021044.D	1,2,3-Trichloropropane	MMDadod a	2/4/2025 3:47:27 PM	SAM	2/4/2025 3:53:15 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY020425

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021046.D	1,2,3-Trichloropropane	Romaben	2/5/2025 10:21:54 AM	MMDadoda	2/6/2025 11:05:10 AM	Peak Integrated by Software
VY0204SBS01	VY021048.D	1,2,3-Trichloropropane	Romaben	2/5/2025 10:21:49 AM	MMDadoda	2/6/2025 11:05:11 AM	Peak Integrated by Software
VSTDCCC050	VY021072.D	1,2,3-Trichloropropane	Romaben	2/5/2025 10:21:40 AM	MMDadoda	2/6/2025 11:05:14 AM	Peak Integrated by Software

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY020325

Review By	Maresh Dadoda	Review On	2/4/2025 3:47:24 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/4/2025 3:53:22 PM		
SubDirectory	VY020325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y020325s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP132839			
Initial Calibration Stds		VP132837,VP132841,VP132843,VP132845,VP132847,VP132849			
CCC		VP132853			
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP132851			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021019.D	03 Feb 2025 09:51	SY/MD	Ok
2	VSTDICC005	VY021020.D	03 Feb 2025 10:35	SY/MD	Ok,M
3	VSTDICC010	VY021021.D	03 Feb 2025 10:57	SY/MD	Ok,M
4	VSTDICC020	VY021022.D	03 Feb 2025 11:20	SY/MD	Ok,M
5	VSTDICCC050	VY021023.D	03 Feb 2025 11:43	SY/MD	Ok,M
6	VSTDICC100	VY021024.D	03 Feb 2025 12:21	SY/MD	Ok,M
7	VSTDICC150	VY021025.D	03 Feb 2025 12:44	SY/MD	Ok,M
8	VIBLK	VY021026.D	03 Feb 2025 13:11	SY/MD	Ok
9	VSTDICV050	VY021027.D	03 Feb 2025 13:37	SY/MD	Ok,M
10	VY0203SBL01	VY021028.D	03 Feb 2025 14:13	SY/MD	Ok
11	VY0203SBS01	VY021029.D	03 Feb 2025 14:55	SY/MD	Ok,M
12	VY0203SBSD01	VY021030.D	03 Feb 2025 15:17	SY/MD	Ok,M
13	Q1239-10	VY021031.D	03 Feb 2025 15:50	SY/MD	Not Ok
14	Q1215-01	VY021032.D	03 Feb 2025 16:14	SY/MD	Ok
15	Q1215-05	VY021033.D	03 Feb 2025 16:37	SY/MD	Not Ok
16	Q1216-01	VY021034.D	03 Feb 2025 17:01	SY/MD	ReRun
17	Q1216-05	VY021035.D	03 Feb 2025 17:24	SY/MD	Ok
18	IBLK	VY021036.D	03 Feb 2025 17:47	SY/MD	Not Ok
19	IBLK	VY021037.D	03 Feb 2025 18:11	SY/MD	Not Ok
20	Q1216-17	VY021038.D	03 Feb 2025 18:34	SY/MD	Ok
21	Q1206-01	VY021039.D	03 Feb 2025 18:58	SY/MD	Ok

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY020325

Review By	Maresh Dadoda	Review On	2/4/2025 3:47:24 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/4/2025 3:53:22 PM		
SubDirectory	VY020325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y020325s.m
STD. NAME	STD REF.#				
Tune/Reschk	VP132839				
Initial Calibration Stds	VP132837,VP132841,VP132843,VP132845,VP132847,VP132849				
CCC	VP132853				
Internal Standard/PEM	VP131783				
ICV/I.BLK	VP132851				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1206-05	VY021040.D	03 Feb 2025 19:21	SY/MD	Ok
23	Q1207-01	VY021041.D	03 Feb 2025 19:44	SY/MD	Ok
24	Q1207-05	VY021042.D	03 Feb 2025 20:08	SY/MD	Ok
25	Q1207-09	VY021043.D	03 Feb 2025 20:31	SY/MD	Ok
26	VSTDCCC050	VY021044.D	03 Feb 2025 20:54	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY020425

Review By	Mahesh Dadoda	Review On	2/6/2025 11:05:18 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/6/2025 11:07:34 AM
SubDirectory	VY020425	HP Acquire Method	HP Processing Method 82y020325s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132861		
CCC	VP132865,VP132866		
Internal Standard/PEM	VP131783		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021045.D	04 Feb 2025 09:16	SY/MD	Ok
2	VSTDCCC050	VY021046.D	04 Feb 2025 09:47	SY/MD	Ok,M
3	VY0204SBL01	VY021047.D	04 Feb 2025 10:15	SY/MD	Ok
4	VY0204SBS01	VY021048.D	04 Feb 2025 10:52	SY/MD	Ok,M
5	VY0204SBSD01	VY021049.D	04 Feb 2025 11:15	SY/MD	Ok,M
6	Q1243-01	VY021050.D	04 Feb 2025 11:55	SY/MD	Ok
7	Q1207-17	VY021051.D	04 Feb 2025 12:19	SY/MD	Ok
8	Q1207-13	VY021052.D	04 Feb 2025 12:42	SY/MD	Ok
9	Q1216-01	VY021053.D	04 Feb 2025 13:06	SY/MD	Ok
10	Q1215-01	VY021054.D	04 Feb 2025 13:29	SY/MD	Not Ok
11	Q1215-05	VY021055.D	04 Feb 2025 13:52	SY/MD	Ok
12	Q1232-01	VY021056.D	04 Feb 2025 14:16	SY/MD	Ok
13	Q1232-05	VY021057.D	04 Feb 2025 14:39	SY/MD	Ok
14	Q1232-09	VY021058.D	04 Feb 2025 15:03	SY/MD	Ok
15	Q1232-13	VY021059.D	04 Feb 2025 15:26	SY/MD	Ok
16	Q1232-17	VY021060.D	04 Feb 2025 15:50	SY/MD	Ok
17	Q1235-01	VY021061.D	04 Feb 2025 16:13	SY/MD	Ok
18	Q1235-05	VY021062.D	04 Feb 2025 16:36	SY/MD	Ok
19	Q1241-01	VY021063.D	04 Feb 2025 17:00	SY/MD	Ok
20	Q1241-05	VY021064.D	04 Feb 2025 17:23	SY/MD	ReRun
21	Q1241-09	VY021065.D	04 Feb 2025 17:47	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY020425

Review By	Mahesh Dadoda	Review On	2/6/2025 11:05:18 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/6/2025 11:07:34 AM
SubDirectory	VY020425	HP Acquire Method	HP Processing Method 82y020325s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132861		
CCC	VP132865,VP132866		
Internal Standard/PEM	VP131783		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1241-13	VY021066.D	04 Feb 2025 18:10	SY/MD	Ok
23	Q1241-17	VY021067.D	04 Feb 2025 18:33	SY/MD	Ok
24	Q1242-01	VY021068.D	04 Feb 2025 18:57	SY/MD	Ok
25	Q1271-01	VY021069.D	04 Feb 2025 19:20	SY/MD	Ok
26	Q1216-09	VY021070.D	04 Feb 2025 19:44	SY/MD	Ok
27	Q1216-13	VY021071.D	04 Feb 2025 20:07	SY/MD	Ok
28	VSTDCCC050	VY021072.D	04 Feb 2025 20:30	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY020325

Review By	Mahesh Dadoda	Review On	2/4/2025 3:47:24 PM
Supervise By	Semsettin Yesilyurt	Supervise On	2/4/2025 3:53:22 PM
SubDirectory	VY020325	HP Acquire Method	MSVOA_Y
		HP Processing Method	82y020325s.m

STD. NAME	STD REF.#
Tune/Reschk	VP132839
Initial Calibration Stds	VP132837,VP132841,VP132843,VP132845,VP132847,VP132849
CCC	VP132853
Internal Standard/PEM	VP131783
ICV/I.BLK	VP132851
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021019.D	03 Feb 2025 09:51		SY/MD	Ok
2	VSTDIC005	VSTDIC005	VY021020.D	03 Feb 2025 10:35	Good for DOD	SY/MD	Ok,M
3	VSTDIC010	VSTDIC010	VY021021.D	03 Feb 2025 10:57		SY/MD	Ok,M
4	VSTDIC020	VSTDIC020	VY021022.D	03 Feb 2025 11:20		SY/MD	Ok,M
5	VSTDIC050	VSTDIC050	VY021023.D	03 Feb 2025 11:43		SY/MD	Ok,M
6	VSTDIC100	VSTDIC100	VY021024.D	03 Feb 2025 12:21		SY/MD	Ok,M
7	VSTDIC150	VSTDIC150	VY021025.D	03 Feb 2025 12:44		SY/MD	Ok,M
8	VIBLK	VIBLK	VY021026.D	03 Feb 2025 13:11		SY/MD	Ok
9	VSTDICV050	ICVVY020325	VY021027.D	03 Feb 2025 13:37		SY/MD	Ok,M
10	VY0203SBL01	VY0203SBL01	VY021028.D	03 Feb 2025 14:13		SY/MD	Ok
11	VY0203SBS01	VY0203SBS01	VY021029.D	03 Feb 2025 14:55		SY/MD	Ok,M
12	VY0203SBSD01	VY0203SBSD01	VY021030.D	03 Feb 2025 15:17		SY/MD	Ok,M
13	Q1239-10	357	VY021031.D	03 Feb 2025 15:50	vial B Not purged	SY/MD	Not Ok
14	Q1215-01	JPP-29.1-012825	VY021032.D	03 Feb 2025 16:14	vial A ISTD Fail	SY/MD	Ok
15	Q1215-05	JPP-29.2-012825	VY021033.D	03 Feb 2025 16:37	Not purged vial-A	SY/MD	Not Ok
16	Q1216-01	JPP-18.1-012825	VY021034.D	03 Feb 2025 17:01	vial A Internal Standard Fail	SY/MD	ReRun
17	Q1216-05	JPP-21.1-012825	VY021035.D	03 Feb 2025 17:24	vial B ISTD Fail	SY/MD	Ok
18	IBLK	IBLK	VY021036.D	03 Feb 2025 17:47	Not purged	SY/MD	Not Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY020325

Review By	Mahesh Dadoda	Review On	2/4/2025 3:47:24 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/4/2025 3:53:22 PM		
SubDirectory	VY020325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y020325s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP132839			
Initial Calibration Stds		VP132837,VP132841,VP132843,VP132845,VP132847,VP132849			
CCC		VP132853			
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP132851			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	IBLK	IBLK	VY021037.D	03 Feb 2025 18:11	Not purged	SY/MD	Not Ok
20	Q1216-17	JPP-26.2-012825	VY021038.D	03 Feb 2025 18:34	vial B Internal Standard Fail	SY/MD	Ok
21	Q1206-01	JPP-20.1-012725	VY021039.D	03 Feb 2025 18:58	vial B	SY/MD	Ok
22	Q1206-05	JPP-16.3-012725	VY021040.D	03 Feb 2025 19:21	vial B	SY/MD	Ok
23	Q1207-01	JPP-2.1-012725	VY021041.D	03 Feb 2025 19:44	vial-B	SY/MD	Ok
24	Q1207-05	JPP-5.1-012725	VY021042.D	03 Feb 2025 20:08	vial-B	SY/MD	Ok
25	Q1207-09	JPP-4.5-012725	VY021043.D	03 Feb 2025 20:31	vial-B	SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY021044.D	03 Feb 2025 20:54		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY020425

Review By	Mahesh Dadoda	Review On	2/6/2025 11:05:18 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/6/2025 11:07:34 AM
SubDirectory	VY020425	HP Acquire Method	HP Processing Method 82y020325s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP132861
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132865,VP132866 VP131783

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021045.D	04 Feb 2025 09:16		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021046.D	04 Feb 2025 09:47		SY/MD	Ok,M
3	VY0204SBL01	VY0204SBL01	VY021047.D	04 Feb 2025 10:15		SY/MD	Ok
4	VY0204SBS01	VY0204SBS01	VY021048.D	04 Feb 2025 10:52		SY/MD	Ok,M
5	VY0204SBSD01	VY0204SBSD01	VY021049.D	04 Feb 2025 11:15		SY/MD	Ok,M
6	Q1243-01	CL-01-01302025	VY021050.D	04 Feb 2025 11:55	vial-A	SY/MD	Ok
7	Q1207-17	JPP-20.2-012725	VY021051.D	04 Feb 2025 12:19	vial-B	SY/MD	Ok
8	Q1207-13	JPP-16.2-012725	VY021052.D	04 Feb 2025 12:42	vial-B	SY/MD	Ok
9	Q1216-01	JPP-18.1-012825	VY021053.D	04 Feb 2025 13:06	vial-B	SY/MD	Ok
10	Q1215-01	JPP-29.1-012825	VY021054.D	04 Feb 2025 13:29	NOT PURGE vial-B	SY/MD	Not Ok
11	Q1215-05	JPP-29.2-012825	VY021055.D	04 Feb 2025 13:52	Internal Standard Fail vial-B	SY/MD	Ok
12	Q1232-01	JPP-46.2-012925	VY021056.D	04 Feb 2025 14:16	vial-A	SY/MD	Ok
13	Q1232-05	JPP-46.1-012925	VY021057.D	04 Feb 2025 14:39	vial-A	SY/MD	Ok
14	Q1232-09	JPP-42.1-012925	VY021058.D	04 Feb 2025 15:03	vial-A	SY/MD	Ok
15	Q1232-13	JPP-42.2-012925	VY021059.D	04 Feb 2025 15:26	vial-A	SY/MD	Ok
16	Q1232-17	JPP-51.1-012925	VY021060.D	04 Feb 2025 15:50	vial-A	SY/MD	Ok
17	Q1235-01	JPP-51.2-012925	VY021061.D	04 Feb 2025 16:13	vial-A	SY/MD	Ok
18	Q1235-05	JPP-16.1-012925	VY021062.D	04 Feb 2025 16:36	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY020425

Review By	Maresh Dadoda	Review On	2/6/2025 11:05:18 AM
Supervise By	Semsettin Yesilyurt	Supervise On	2/6/2025 11:07:34 AM
SubDirectory	VY020425	HP Acquire Method	HP Processing Method 82y020325s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132861		
CCC	VP132865,VP132866		
Internal Standard/PEM	VP131783		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1241-01	JPP-3.5-013025	VY021063.D	04 Feb 2025 17:00	vial-A	SY/MD	Ok
20	Q1241-05	JPP-5.3-013025	VY021064.D	04 Feb 2025 17:23	vial-A Internal Standard Fail	SY/MD	ReRun
21	Q1241-09	JPP-5.2-013025	VY021065.D	04 Feb 2025 17:47	vial-A	SY/MD	Ok
22	Q1241-13	JPP-5.4-013025	VY021066.D	04 Feb 2025 18:10	vial-A	SY/MD	Ok
23	Q1241-17	JPP-5.1.4-013025	VY021067.D	04 Feb 2025 18:33	vial-A	SY/MD	Ok
24	Q1242-01	JPP-6.2-013025	VY021068.D	04 Feb 2025 18:57	vial-A	SY/MD	Ok
25	Q1271-01	RBR200030	VY021069.D	04 Feb 2025 19:20	vial-B	SY/MD	Ok
26	Q1216-09	JPP-21.2-012825	VY021070.D	04 Feb 2025 19:44	vial-B	SY/MD	Ok
27	Q1216-13	JPP-26.1-012825	VY021071.D	04 Feb 2025 20:07	vial-B	SY/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VY021072.D	04 Feb 2025 20:30		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 01/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:10
Out Date: 01/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134456

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1191-03	A44Y0	1	1.00	1.00	2.00	2.00	100.0	FB solids
Q1191-04	A44Y1	2	1.00	1.00	2.00	2.00	100.0	FB solids
Q1191-09	VHBLK002	3	1.00	1.00	2.00	2.00	100.0	vhblk
Q1205-01	VNJ-236	4	1.15	8.64	9.79	8.68	87.2	
Q1206-01	JPP-20.1-012725	5	1.18	8.42	9.6	8.38	85.5	
Q1206-03	JPP-20.1-012725	6	1.19	8.50	9.69	8.46	85.5	
Q1206-05	JPP-16.3-012725	7	1.16	8.80	9.96	8.72	85.9	
Q1206-07	JPP-16.3-012725	8	1.19	8.51	9.7	8.38	84.5	
Q1207-01	JPP-2.1-012725	9	1.15	8.51	9.66	8.54	86.8	
Q1207-04	JPP-2.1-012725	10	1.16	8.61	9.77	8.7	87.6	
Q1207-05	JPP-5.1-012725	11	1.15	8.59	9.74	8.98	91.2	
Q1207-07	JPP-5.1-012725	12	1.18	8.60	9.78	9.00	90.9	
Q1207-08	JPP-5.1-012725	13	1.18	8.60	9.78	9.00	90.9	
Q1207-09	JPP-4.5-012725	14	1.17	8.82	9.99	8.49	83.0	
Q1207-11	JPP-4.5-012725	15	1.19	8.80	9.99	8.37	81.6	
Q1207-12	JPP-4.5-012725	16	1.19	8.80	9.99	8.37	81.6	
Q1207-13	JPP-16.2-012725	17	1.13	8.80	9.93	9.02	89.7	
Q1207-15	JPP-16.2-012725	18	1.15	8.67	9.82	8.85	88.8	
Q1207-16	JPP-16.2-012725	19	1.15	8.67	9.82	8.85	88.8	
Q1207-17	JPP-20.2-012725	20	1.12	8.77	9.89	8.85	88.1	
Q1207-19	JPP-20.2-012725	21	1.17	8.53	9.7	8.66	87.8	
Q1207-20	JPP-20.2-012725	22	1.17	8.53	9.7	8.66	87.8	
Q1208-01	60304	23	1.00	1.00	2.00	2.00	100.0	oil sample
Q1209-01	WC-4	24	1.17	8.80	9.97	8.5	83.3	
Q1209-02	WC-4-EPH	25	1.15	8.64	9.79	8.39	83.8	
Q1209-03	WC-4-VOC	26	1.14	8.82	9.96	8.56	84.1	
Q1209-05	WC-5	27	1.15	8.82	9.97	8.95	88.4	
Q1209-06	WC-5-EPH	28	1.13	8.85	9.98	8.55	83.8	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 01/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:10
Out Date: 01/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134456

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1209-07	WC-5-VOC	29	1.15	8.74	9.89	8.27	81.5	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

124456

WorkList Name : %1-012825

WorkList ID : 187196

Department : Wet-Chemistry

Date : 01-28-2025 07:59:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1206-01	JPP-20.1-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1206-03	JPP-20.1-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1206-05	JPP-16.3-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1206-07	JPP-16.3-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-01	JPP-2.1-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-04	JPP-2.1-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-13	JPP-16.2-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-15	JPP-16.2-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-16	JPP-16.2-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-17	JPP-20.2-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-19	JPP-20.2-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-20	JPP-20.2-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-05	JPP-5.1-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-07	JPP-5.1-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-08	JPP-5.1-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-09	JPP-4.5-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-11	JPP-4.5-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1207-12	JPP-4.5-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1205-01	VNUJ-236	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1208-01	60304	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/28/2025	Chemtech -SO
Q1209-01	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/28/2025	Chemtech -SO

Date/Time 01/28/25 15:30
 Raw Sample Received by: 10 WWC
 Raw Sample Relinquished by: CFSR

Date/Time

01/28/25

Raw Sample Received by:

CFSR

Raw Sample Relinquished by:

10 WWC

WORKLIST(Hardcopy Internal Chain)

134456

WorkList Name : %1-012825

WorkList ID : 187196

Department : Wet-Chemistry

Date : 01-28-2025 07:59:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1209-02	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/28/2025	Chemtech -SO
Q1209-03	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/28/2025	Chemtech -SO
Q1209-05	WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/28/2025	Chemtech -SO
Q1209-06	WC-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/28/2025	Chemtech -SO
Q1209-07	WC-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/28/2025	Chemtech -SO
Q1191-03	A44Y0	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/28/2025	Chemtech -SO
Q1191-04	A44Y1	Solid	Percent Solids	Cool 4 deg C	USEP04	B21	01/24/2025	Chemtech -SO
Q1191-09	VHBLK002	Solid	Percent Solids	Cool 4 deg C	USEP04	B21	01/24/2025	Chemtech -SO
					USEP04	B21	01/25/2025	Chemtech -SO

Date/Time 01/28/25 15:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 01/28/25 17:10
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/30/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 16:40
In Date: 01/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 01/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134472

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1207-03	JPP-2.1-012725	1	1.16	8.61	9.77	8.7	87.6	
Q1218-01	BELL-25-002	2	1.00	1.00	2.00	2.00	100.0	oily-debris
Q1219-01	LAW-25-0015	3	1.00	1.00	2.00	2.00	100.0	oily-debris
Q1220-01	TR-06-01292025	4	1.15	8.40	9.55	8.98	93.2	
Q1220-02	TR-06-01292025-E2	5	1.17	8.58	9.75	8.87	89.7	
Q1221-01	CHESTNUT-CONCRETE	6	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

13442

WorkList Name : %1-012925 WorkList ID : 187236 Department : Wet-Chemistry Date : 01-29-2025 07:55:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1207-03	JPP-2.1-012725	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/27/2025	Chemtech -SO
Q1218-01	BELL-25-002	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/29/2025	Chemtech -SO
Q1219-01	LAW-25-0015	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/29/2025	Chemtech -SO
Q1221-01	CHESTNUT-CONCRETE	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/29/2025	Chemtech -SO
Q1220-01	TR-06-01292025	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	01/29/2025	Chemtech -SO
Q1220-02	TR-06-01292025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	01/29/2025	Chemtech -SO

Date/Time 01/29/25 15:40
Raw Sample Received by: 28609C
Raw Sample Relinquished by: CSM

Date/Time 01/29/25 17:10
Raw Sample Received by: CSM
Raw Sample Relinquished by: 28609C

- 1
- 2
- 3
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- 5
- 6
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- 8
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- 14
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- 17
- 18

Prep Standard - Chemical Standard Summary

Order ID : Q1207

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VY020325,VY020425,

Standard ID :

VP130432,VP130434,VP130435,VP131767,VP131783,VP132035,VP132036,VP132037,VP132038,VP132097,VP132098,VP132099,VP132101,VP132102,VP132468,VP132469,VP132470,VP132471,VP132472,VP132473,VP132543,VP132546,VP132613,VP132614,VP132615,VP132616,VP132678,VP132837,VP132839,VP132841,VP132843,VP132845,VP132847,VP132849,VP132851,VP132853,VP132861,VP132865,VP132866,

Chemical ID :

V12967,V13391,V13446,V13449,V13465,V13466,V13582,V13707,V13809,V13919,V14126,V14145,V14154,V14175,V14176,V14179,V14289,V14425,V14433,V14439,V14521,V14522,V14614,V14624,V14627,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14754,V14756,V14801,V14814,V14830,V14831,V14832,V14835,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>
249	8260 Surrogate, 100PPM	VP130432	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
09/26/2024								

FROM 0.10000ml of V13707 + 24.90000ml of V14145 = 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	VP130434	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
10/02/2024								

FROM 0.02000ml of V13707 + 24.99000ml of V14145 = 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>
250	8260 Surrogate, 10PPM	VP130435	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
10/02/2024								

FROM 9.00000ml of V14145 + 1.00000ml of VP130432 = 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>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/27/2024								

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1917	8260 Internal standard 50 ppm	VP131783	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/27/2024

FROM 0.02000ml of V14289 + 9.98000ml of V14154 = 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>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

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>
1811	8260 Working Std(2-CVE)-500ppm	VP132036	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 7.50000ml of V14614 + 12.50000ml of VP132035 = 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>
1812	8260 Working Std(2-CVE)-100ppm	VP132037	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 0.25000ml of V14633 + 24.75000ml of V14614 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1813	8260 Working Std(2-CVE)-50ppm	VP132038	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 20.00000ml of V14614 + 1.25000ml of VP132035 = 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	VP132097	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 0.50000ml of V13466 + 49.50000ml of V14614 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
252	8260 Working STD (BCM)-First source, 100PPM	VP132098	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
12/19/2024								

FROM 1.25000ml of V13466 + 23.75000ml of V14614 = 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>
254	8260 Working STD (BCM)-First source, 10PPM	VP132099	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
12/19/2024								

FROM 0.05000ml of V13465 + 9.95000ml of V14614 = 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>
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP132101	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
12/19/2024								

FROM 0.80000ml of V13582 + 9.20000ml of V14614 = 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>
1819	8260 Working Std(2-CVE)-SS, 500ppm	VP132102	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
12/19/2024								

FROM 1.87500ml of V14614 + 3.12500ml of VP132101 = Final Quantity: 5.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP132468	01/08/2025	02/07/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								01/17/2025

FROM 1.00000ml of V14832 + 1.50000ml of V14830 + 1.50000ml of V14831 + 21.00000ml of V14627 = Final Quantity: 25.000 ml

<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>
56	8260 Working STD (Acrolein) -first source, 500PPM	VP132469	01/08/2025	02/07/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								01/17/2025

FROM 5.62500ml of V14627 + 9.37500ml of VP132468 = Final Quantity: 15.000 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	VP132470	01/08/2025	02/07/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								01/17/2025

FROM 17.50000ml of V14627 + 2.50000ml of VP132468 = 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>
181	8260 Working STD (Acrolein)-First source, 50PPM	VP132471	01/08/2025	02/07/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								01/17/2025

FROM 9.37500ml of V14627 + 0.62500ml of VP132468 = 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>
263	8260 Working STD (Acrolein)-Second source,	VP132472	01/08/2025	02/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
FROM 800PPM 1.60000ml of V14835 + 8.40000ml of V14627 = 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>
264	8260 Working STD (Acrolein)-Second source,	VP132473	01/08/2025	02/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
FROM 500PPM 1.87500ml of V14627 + 3.12500ml of VP132472 = Final Quantity: 5.000 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>
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP132543	01/14/2025	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
FROM 0.16000ml of V13449 + 0.80000ml of V13809 + 0.80000ml of V14126 + 0.80000ml of V14179 + 0.80000ml of V14425 + 0.80000ml of V14801 + 1.60000ml of V13919 + 4.24000ml of V14624 = 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>
260	8260 Calibration Working STD Mix-Second source, 100PPM	VP132546	01/14/2025	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
FROM 1.87500ml of V14624 + 3.12500ml of VP132543 = Final Quantity: 5.000 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>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132613	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 01/29/2025

FROM 0.40000ml of V13446 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14722 + 1.00000ml of V14754 + 1.00000ml of V14756 + 1.00000ml of V14801 + 1.00000ml of V14814 + 1.50000ml of V14723 + 1.50000ml of V14724 + 10.60000ml of V14624 = 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>
244	8260 Calibration Working STD Mix-First source, 100PPM	VP132614	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 01/29/2025

FROM 5.62500ml of V14624 + 9.37500ml of VP132613 = Final Quantity: 15.000 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>
245	8260 Calibration Working STD Mix-First source, 20PPM	VP132615	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 01/29/2025

FROM 17.50000ml of V14624 + 2.50000ml of VP132613 = 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>
246	8260 Calibration Working STD Mix-First source, 10PPM	VP132616	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 01/29/2025

FROM 9.37500ml of V14624 + 0.62500ml of VP132613 = 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>
262	8260 Working STD (BCM)-Second source, 100PPM	VP132678	01/24/2025	07/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								01/29/2025

FROM 1.00000ml of V12967 + 9.00000ml of V14624 = 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>
267	5 PPB ICC, 8260-SOIL	VP132837	02/03/2025	02/04/2025	Romaben Patel	None	None	Semsettin Yesilyurt
								02/05/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP130435 + 0.00250ml of VP132038 + 0.00250ml of VP132099 + 0.00250ml of VP132471
+ 0.00250ml of VP132616 + 0.00500ml of VP131783 = Final Quantity: 5.000 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>
732	BFB TUNE CHECK - SOIL	VP132839	02/03/2025	02/04/2025	Romaben Patel	None	None	Semsettin Yesilyurt
								02/05/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP131767 = Final Quantity: 5.000 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>
269	10 PPB ICC, 8260-SOIL	VP132841	02/03/2025	02/04/2025	Romaben Patel	None	None	Semsettin Yesilyurt
								02/05/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP130434 + 0.00250ml of VP132037 + 0.00250ml of VP132097 + 0.00250ml of VP132470
+ 0.00250ml of VP132615 + 0.00500ml of VP131783 = Final Quantity: 5.000 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>
270	20 PPB ICC, 8260-SOIL	VP132843	02/03/2025	02/04/2025	Romaben Patel	None	None	Semsettin Yesilyurt
								02/05/2025

FROM 4.98000ml of W3112 + 0.00500ml of VP130434 + 0.00500ml of VP131783 + 0.00500ml of VP132037 + 0.00500ml of VP132097 + 0.00500ml of VP132470 + 0.00500ml of VP132615 = Final Quantity: 5.000 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>
273	50 PPB ICC, 8260-SOIL	VP132845	02/03/2025	02/04/2025	Romaben Patel	None	None	Semsettin Yesilyurt
								02/05/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP132469 + 0.00250ml of VP132614 + 0.00500ml of VP131783 = Final Quantity: 5.000 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>
280	100 PPB ICC, 8260-SOIL	VP132847	02/03/2025	02/04/2025	Romaben Patel	None	None	Semsettin Yesilyurt
02/05/2025								

FROM 4.98000ml of W3112 + 0.00500ml of VP130432 + 0.00500ml of VP131783 + 0.00500ml of VP132036 + 0.00500ml of VP132098
+ 0.00500ml of VP132469 + 0.00500ml of VP132614 = Final Quantity: 5.000 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>
1653	150 PPB ICC,8260-SOIL	VP132849	02/03/2025	02/04/2025	Romaben Patel	None	None	Semsettin Yesilyurt
02/05/2025								

FROM 4.98000ml of W3112 + 0.00500ml of VP131783 + 0.00750ml of VP130432 + 0.00750ml of VP132036 + 0.00750ml of VP132098
+ 0.00750ml of VP132469 + 0.00750ml of VP132614 = Final Quantity: 5.000 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>
287	50 PPB ICV, 8260-SOIL	VP132851	02/03/2025	02/04/2025	Romaben Patel	None	None	Semsettin Yesilyurt
02/05/2025								

FROM 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP132102 + 0.00250ml of VP132473 + 0.00250ml of VP132546
+ 0.00250ml of VP132678 + 0.00500ml of VP131783 = Final Quantity: 5.000 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>
773	50 PPB CCC, 8260-SOIL	VP132853	02/03/2025	02/04/2025	Romaben Patel	None	None	Semsettin Yesilyurt
02/05/2025								

FROM 4.95000ml of W3112 + 0.00250ml of VP131783 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP132469
+ 0.00250ml of VP132614 + 0.00500ml of VP130432 = Final Quantity: 5.000 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>
732	BFB TUNE CHECK - SOIL	VP132861	02/04/2025	02/05/2025	Romaben Patel	None	None	Semsettin Yesilyurt
02/06/2025								

FROM 4.99800ml of W3112 + 0.00200ml of VP131767 = Final Quantity: 5.000 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>
773	50 PPB CCC, 8260-SOIL	VP132865	02/04/2025	02/05/2025	Romaben Patel	None	None	Semsettin Yesilyurt
02/06/2025								

FROM 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP132469
+ 0.00250ml of VP132614 + 0.00500ml of VP131783 = Final Quantity: 5.000 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>
773	50 PPB CCC, 8260-SOIL	VP132866	02/04/2025	02/05/2025	Romaben Patel	None	None	Semsettin Yesilyurt
FROM 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP132469 + 0.00250ml of VP132614 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml								

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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	07/24/2025	01/24/2025 / SAM	07/06/2022 / SAM	V12967

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	01/10/2025 / SAM	01/23/2023 / SAM	V13446

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	06/02/2025	12/02/2024 / SAM	01/23/2023 / SAM	V13449

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	12/12/2024 / SAM	01/30/2023 / SAM	V13582

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	10/31/2029	01/07/2025 / SAM	05/31/2023 / SAM	V13809

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0193887	07/10/2025	01/10/2025 / SAM	07/24/2023 / SAM	V13919

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	07/10/2025	01/10/2025 / SAM	01/17/2024 / SAM	V14126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14179

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0205013	06/30/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14425

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/06/2025	01/06/2025 / SAM	11/26/2024 / SAM	V14627

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14756

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	06/30/2026	01/10/2025 / SAM	01/08/2025 / SAM	V14801

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

LOTS

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14830

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010625	02/06/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14835

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

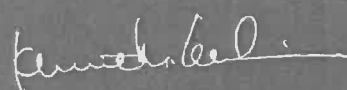
Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

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

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

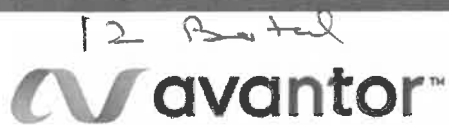
For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



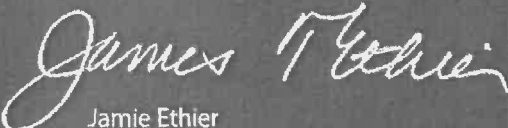
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



Certified Reference Material CRM

see 01/08/25

2 vials

Solvent(s): Water Lot# 072324Q

U14828-29



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010625
Description: Acrolein

Expiration Date: 020625

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

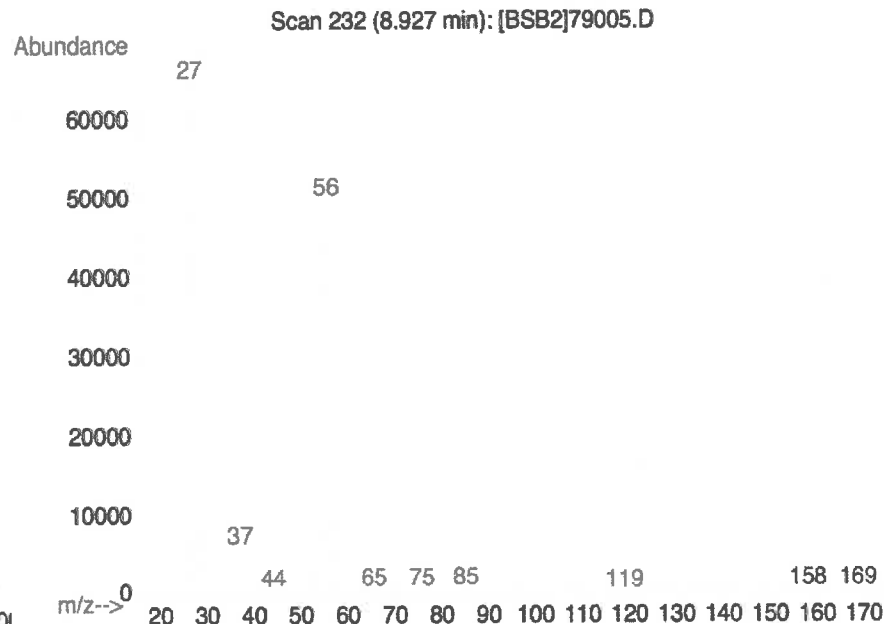
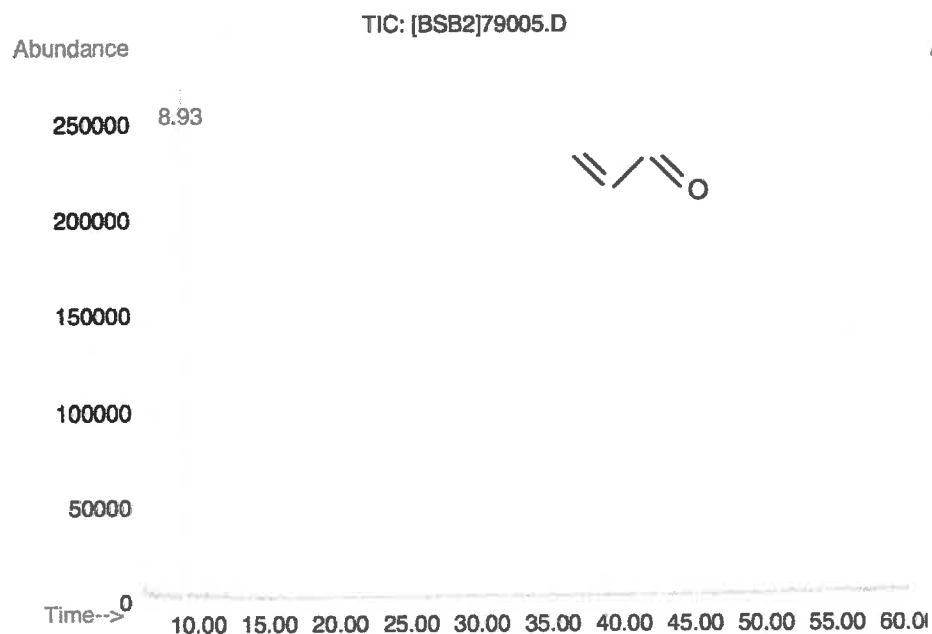
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		010625
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		010625
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	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 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: **91980**
Lot Number: **010725**
Description: **Acrolein**

Expiration Date: **020725**Recommended Storage: **Refrigerate (4 °C)**Nominal Concentration (µg/mL): **5000**NIST Test ID#: **6UTB**

Solvent(s): **Water** Lot# **072324Q**

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

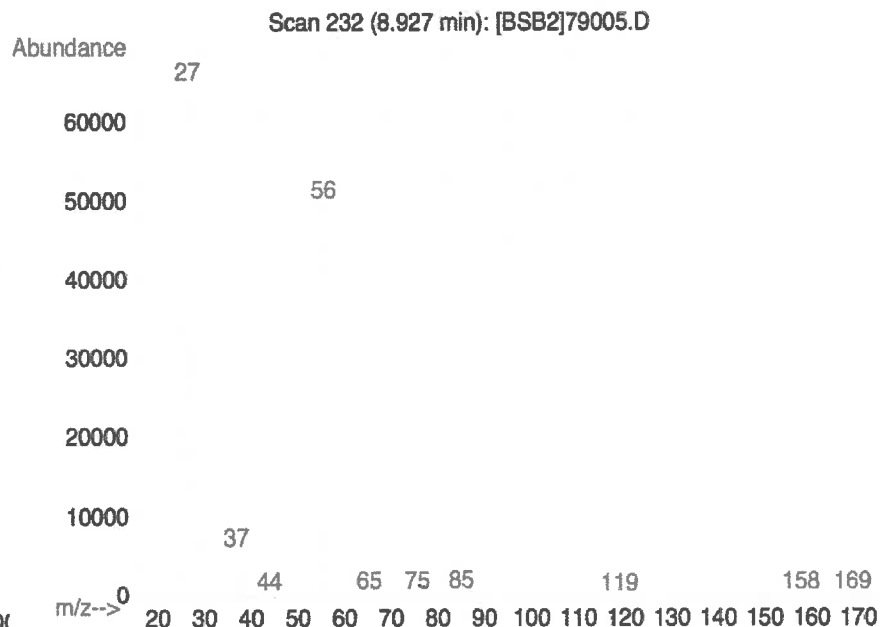
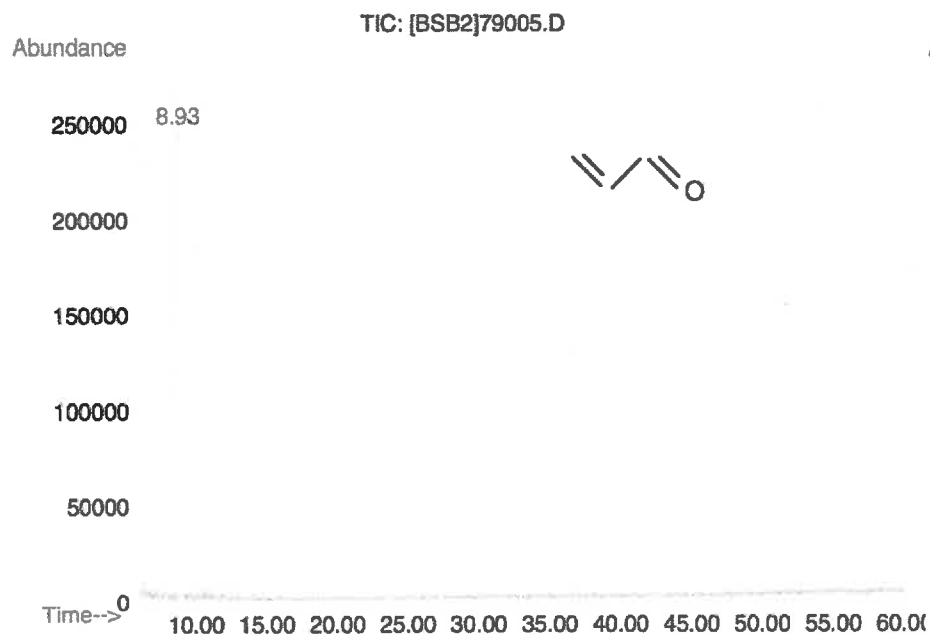
Weight(s) shown below were combined and diluted to (mL): **10.0**

<i>Anthony Mahoney</i>		010725
Formulated By:	Anthony Mahoney	DATE
<i>Pedro L. Rentas</i>		010725
Reviewed By:	Pedro L. Rentas	DATE

5 vial
V 14823 to
V 14829 *V 14827*

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **010725**
Description: **Acrolein**

Expiration Date: **020725**Recommended Storage: **Refrigerate (4 °C)**Nominal Concentration (µg/mL): **5000**NIST Test ID#: **6UTB**

Solvent(s): **Water** Lot# **072324Q**

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

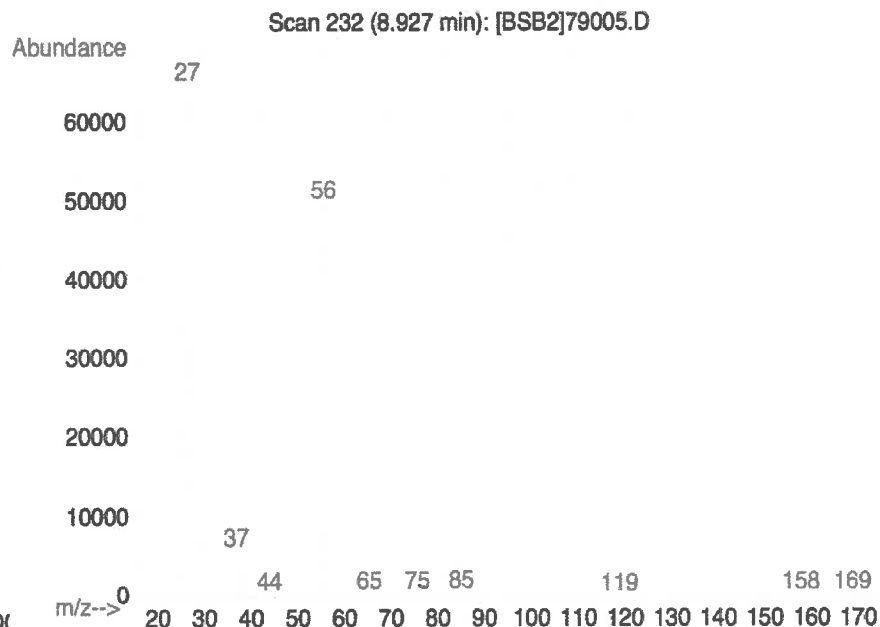
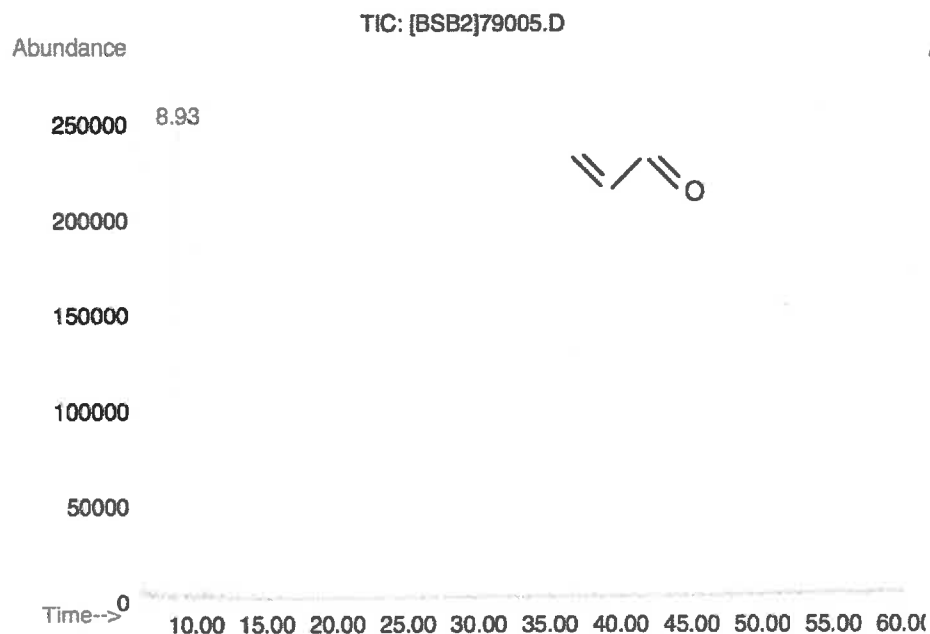
Weight(s) shown below were combined and diluted to (mL): **10.0**

<i>Anthony Mahoney</i>		010725
Formulated By:	Anthony Mahoney	DATE
<i>Pedro L. Rentas</i>		010725
Reviewed By:	Pedro L. Rentas	DATE

5 vial
V 14823 to
V 14829

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **010725**
Description: **Acrolein**

Expiration Date: **020725**Recommended Storage: **Refrigerate (4 °C)**Nominal Concentration (µg/mL): **5000**NIST Test ID#: **6UTB**

Solvent(s): **Water** Lot# **072324Q**

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

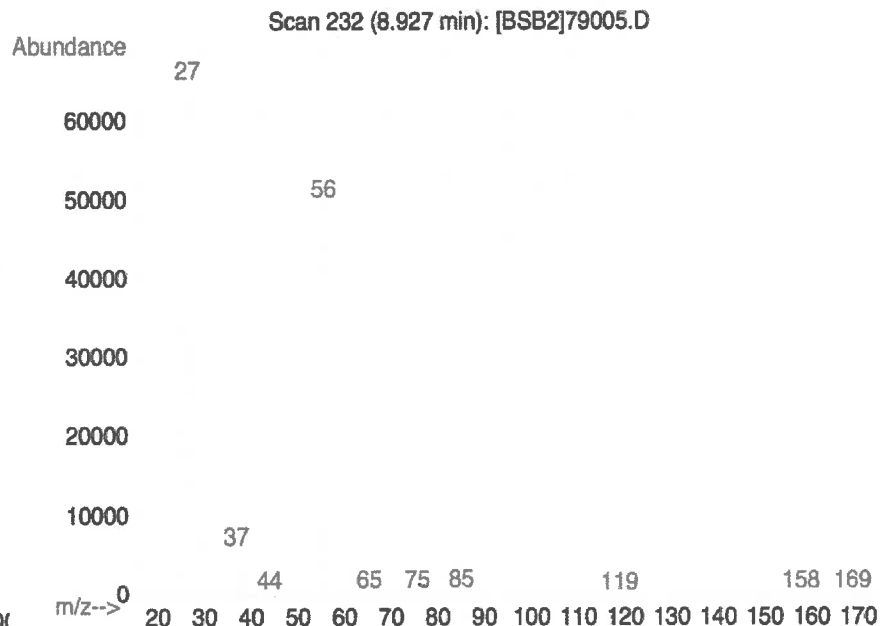
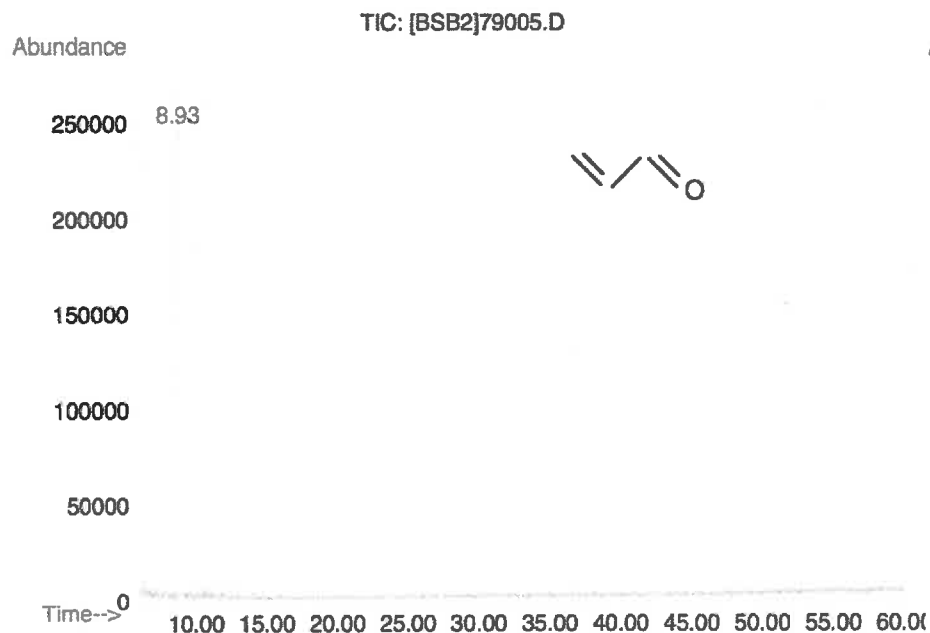
Weight(s) shown below were combined and diluted to (mL): **10.0**

<i>Anthony Mahoney</i>		010725
Formulated By:	Anthony Mahoney	DATE
<i>Pedro L. Rentas</i>		010725
Reviewed By:	Pedro L. Rentas	DATE

5 vial
V 14823 to
V 14829 *V 14827*

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



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CERTIFIED WEIGHT REPORT

Part Number: **95319**
Lot Number: **011624**
Description: **Revised Additions Mix**

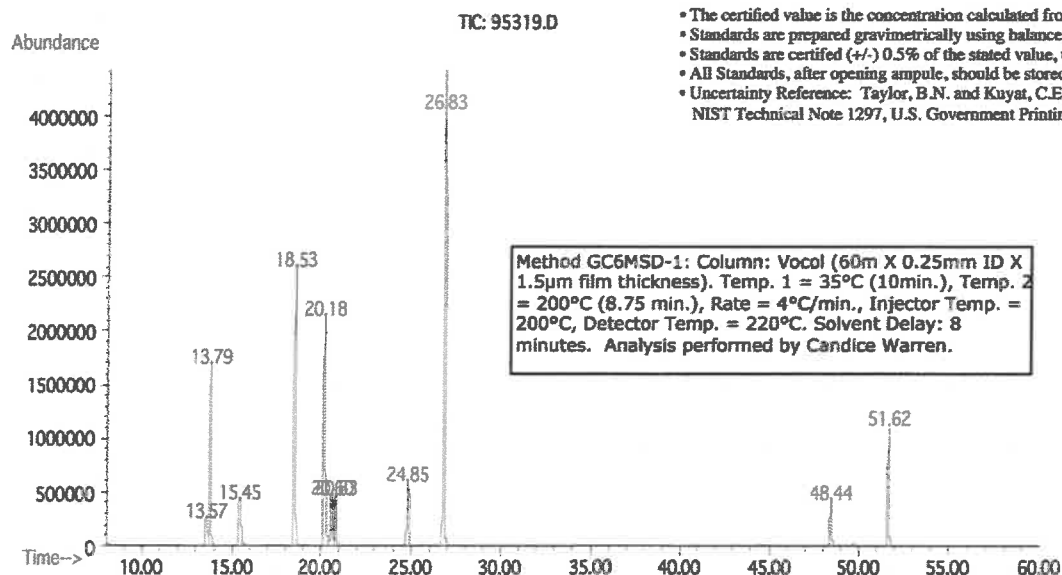
Solvent(s): **Methanol**
Lot#: **EH471-US**

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

Weight(s) shown below were combined and diluted to (mL):														100.0		0.021		Flask Uncertainty												SDS Information		
Compound	(RM#)	Lot	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)																		
														CAS#	OSHA PEL (TWA)	LD50																
1. Acetonitrile	(0324)	021844	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	98.99	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	0.21060	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	110-57-6	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)	06126PX	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)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm(28mg/m3/8h)(skin)	or-rat 75mg/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 9450mg/kg																
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	128-96-7	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	79-45-9	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	79-13-1	1000 ppm (7600mg/m3/8h)	or-rat 43mg/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	156-58-2	N/A	N/A																
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg																
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg																
22. 1,1-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 (12.8mg/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	74-85-3	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	20.5	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. Tetrachloroethane	95321	020724	0.10	10.00	20001.1	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	96-12-9	0.001 ppm	or-rat 170mg/kg																
32. 1,2-Dibromooethane	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	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	40029.0	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	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	78-01-8	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 684mg/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 2999mg/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	120-62-1	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 50mg/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 50mg/kg																
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A																
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	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	NA	1999.7	22.9	105-43-4	N/A	or-rat 2100mg/kg																
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	85-50-1	50 ppm (200mg/m3) (CL)	or-rat																

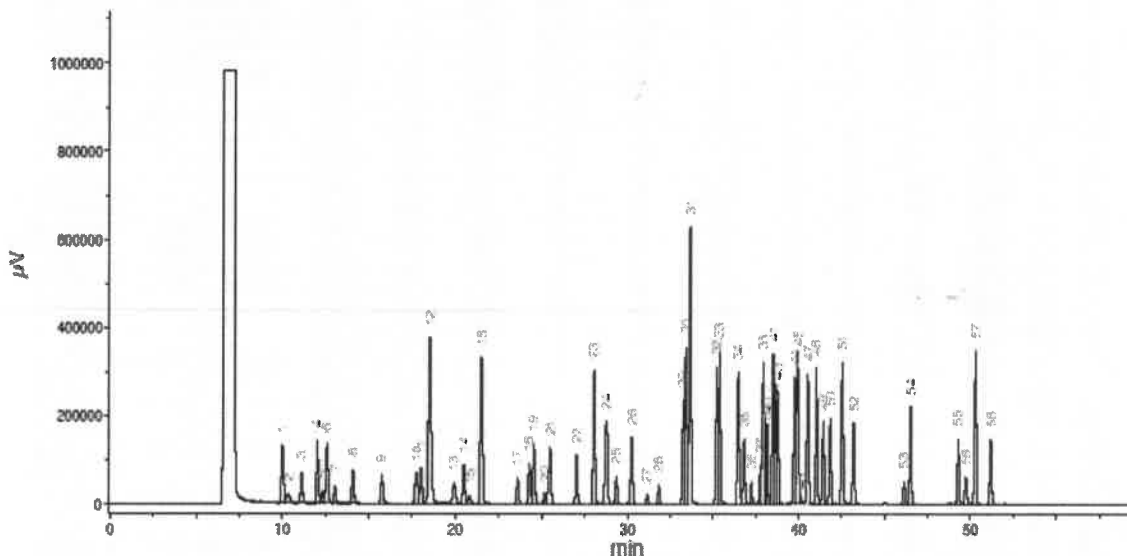


Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

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-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.18
28	1,2-Dibromopropane	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	33.99
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

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CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

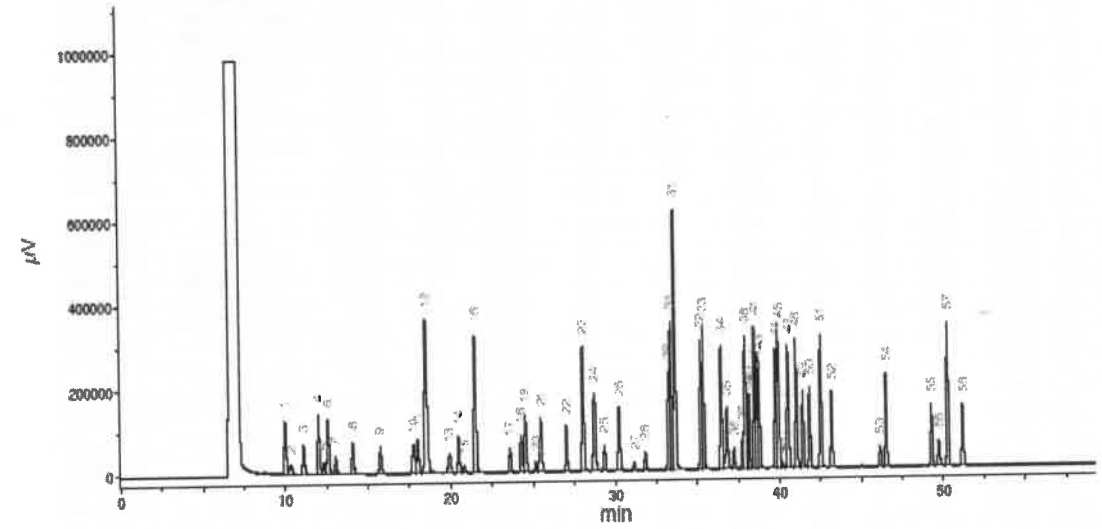
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	5HBF6718V	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 240mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-30-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0481)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.8	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 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	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 1235mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	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 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 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	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	107-06-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	67-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 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 (50mg/m3/8H)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	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	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-98-3	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	or-rat 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	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	106-57-8	N/A	or-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	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	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	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	1999.5	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000</										

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.48
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromochlorine	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

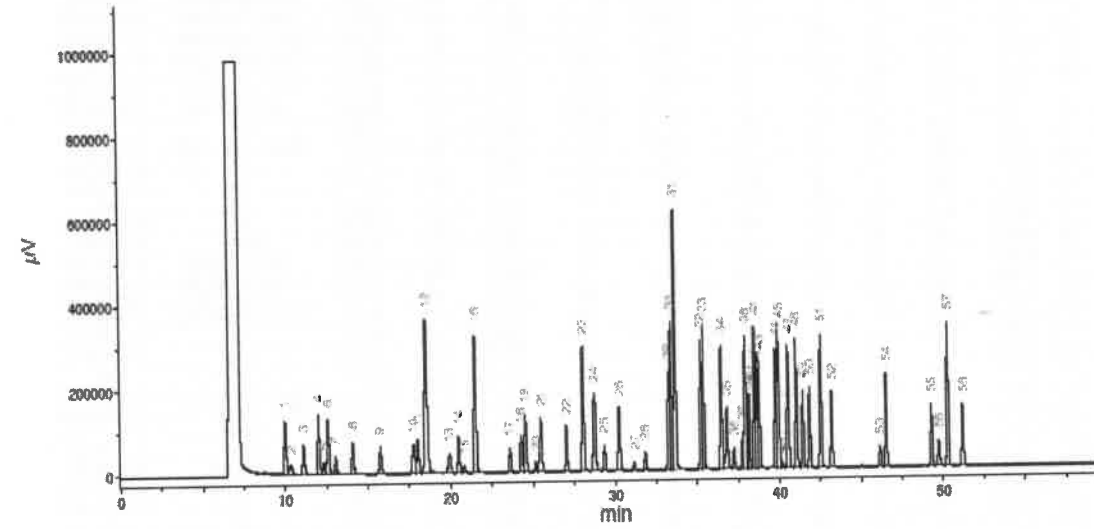
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8h)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	6.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8h) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8h)	or-rat 70mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8h) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK6579	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8h) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8h)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8h) (skin)	or-rat 700mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8h)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8h)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8h)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8h) (linal)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8h)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	106-93-4	20 ppm (8h)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2002.0	22.9	107-08-2	50 ppm (8h)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-57-5	75 ppm (350mg/m3/8h)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	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	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8h) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8h) (skin)	or-rat 636mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8h)	or-rat 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8h)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 4900mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	87-61-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-88-3	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	1999.8	22.9	97-81-6	N/A	or-rat 1390mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5000mg/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 5g/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	99-06-6	N/A	N/A
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8h)	or-rat 2290mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1		

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.28
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromochlorine	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-Butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified 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#
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>	
Formulated By: Justin Dippold	091424 DATE
<i>Pedro L. Rentas</i>	
Reviewed By: Pedro L. Rentas	091424 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

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>	
Formulated By:	Justin Dippold
091424 DATE	
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
091424 DATE	

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
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): Lot#
Methanol EB679-US

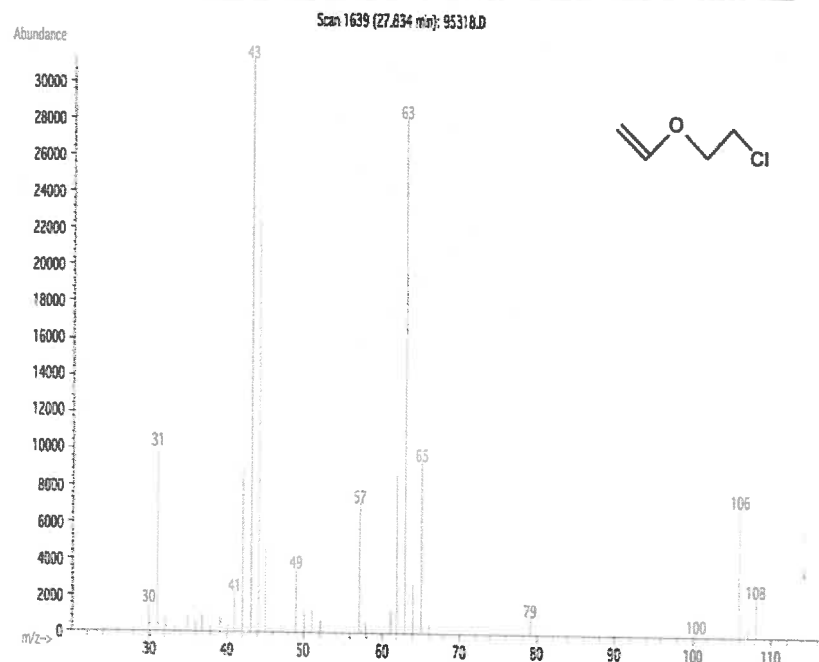
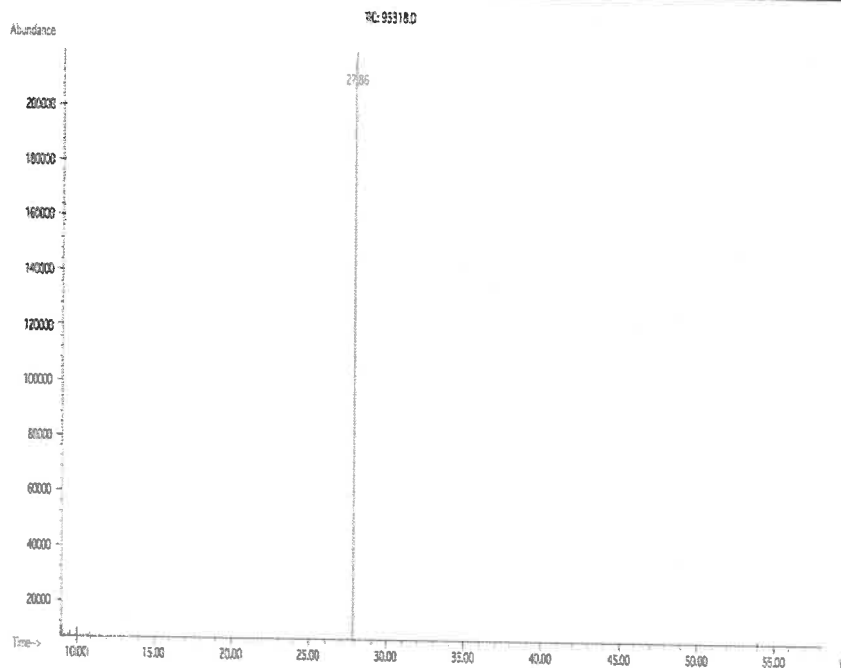
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

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**

Weight(s) shown below were combined and diluted to (mL): **50.0**

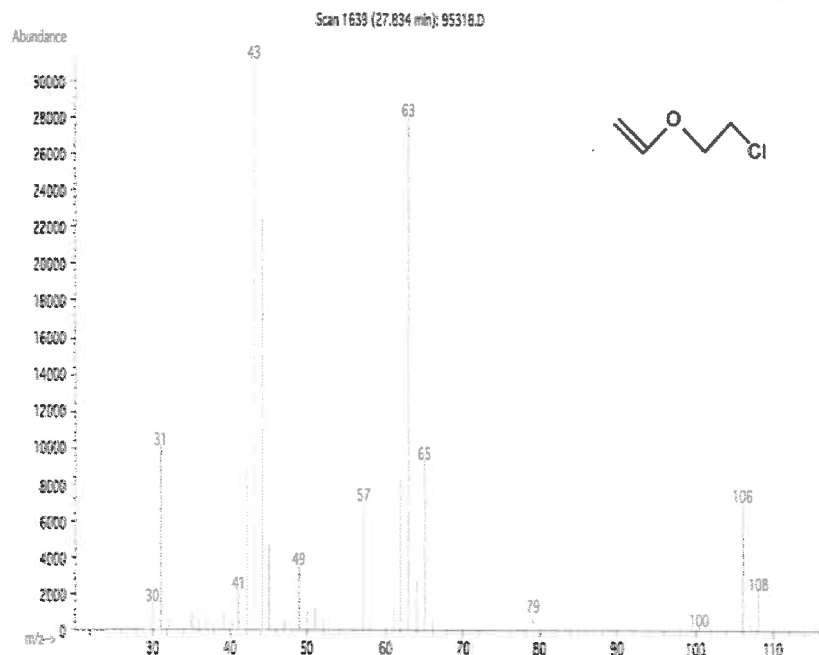
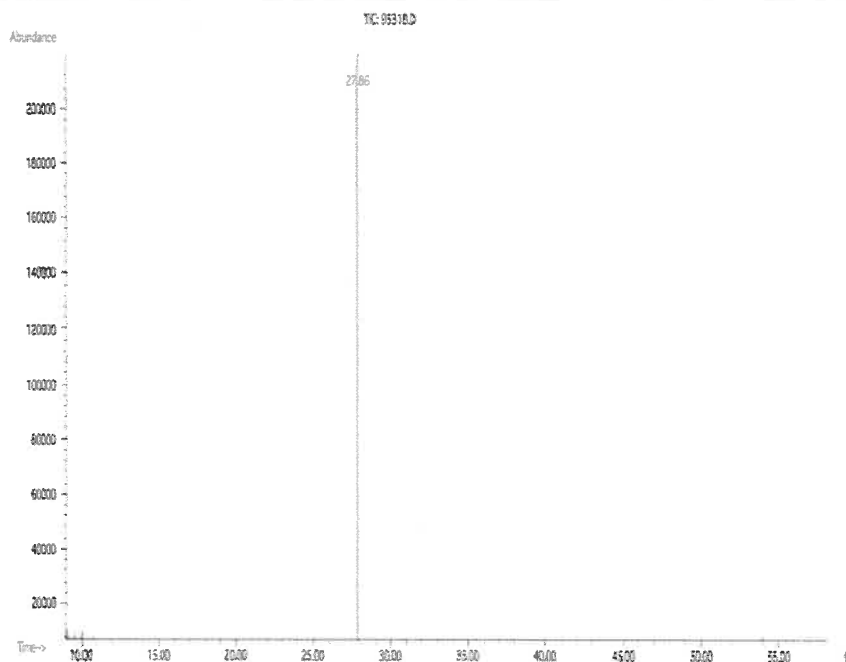
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97
	CAS#: 67-56-1	

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

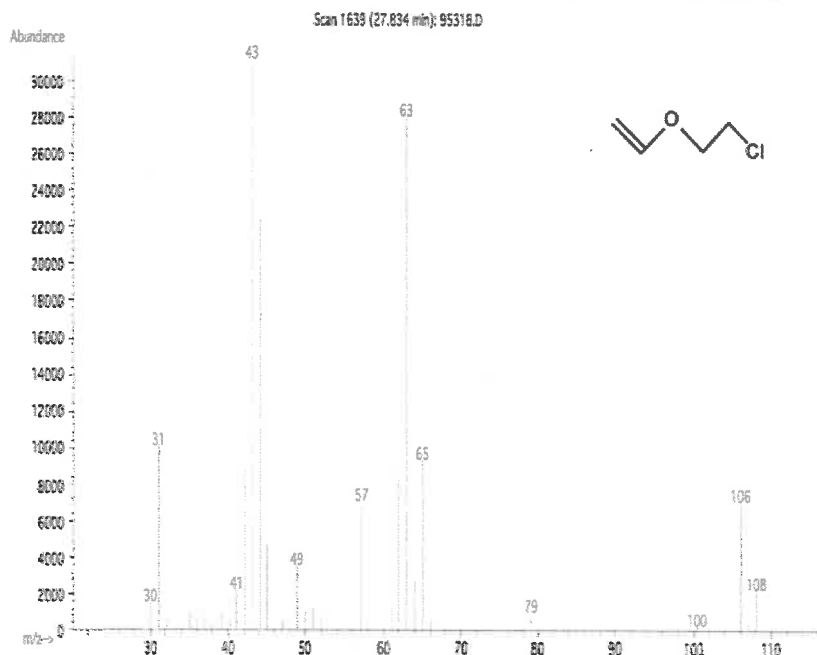
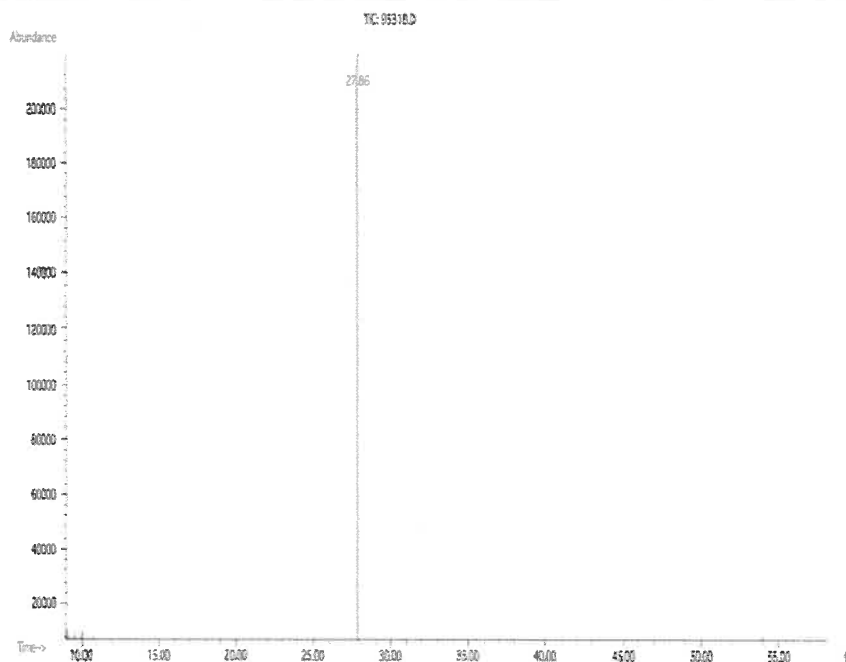
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

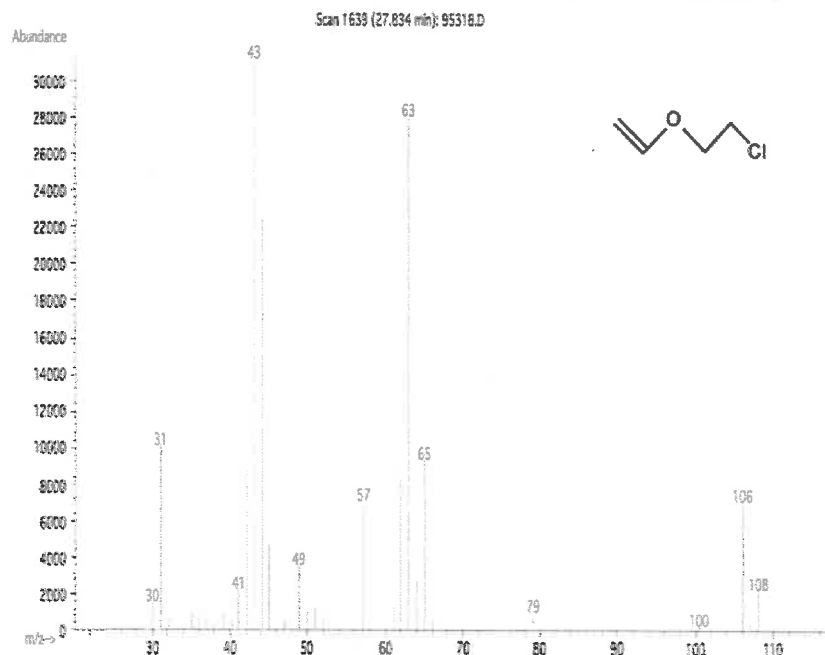
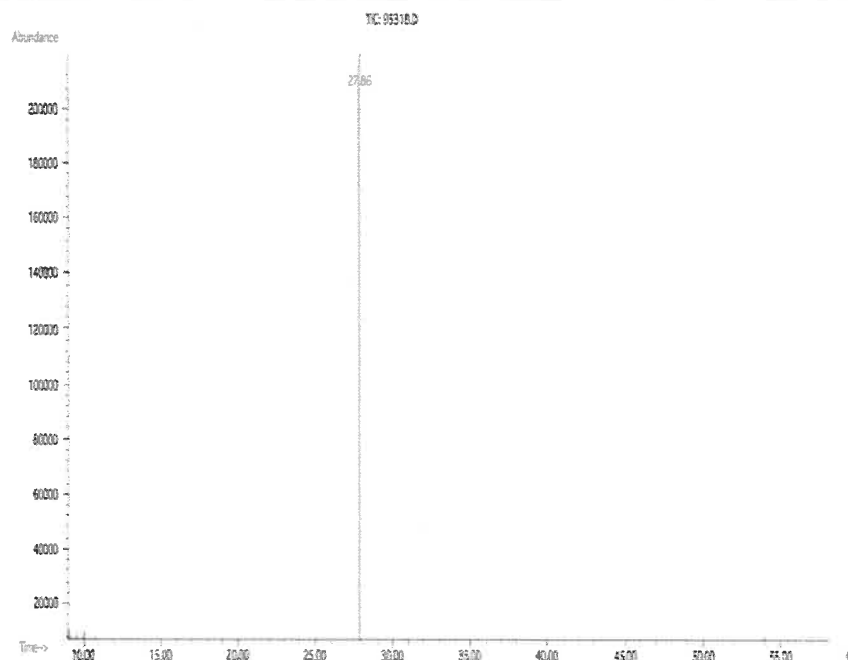
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

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Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
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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.
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Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
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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.		

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Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
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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.
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Toxic if absorbed through skin. Causes skin irritation.
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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
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Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

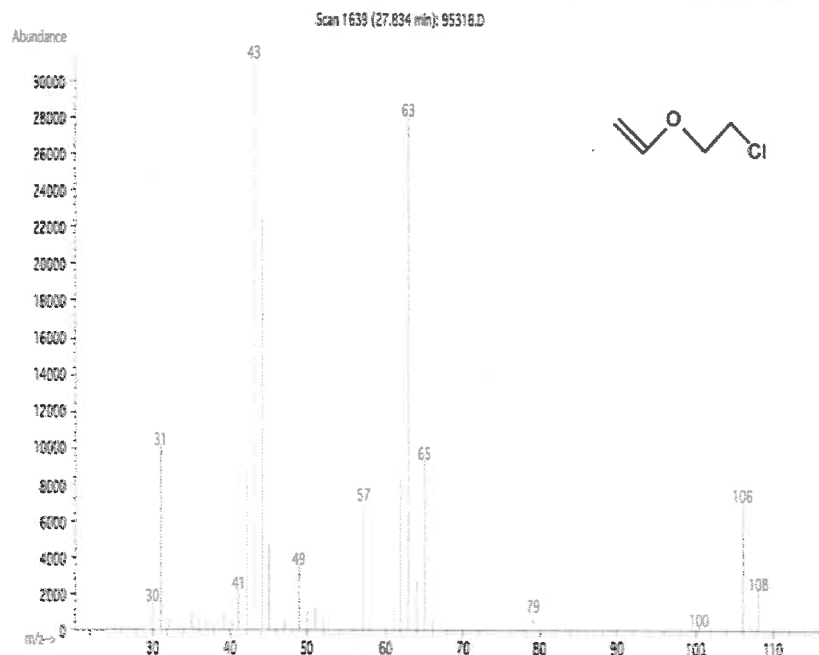
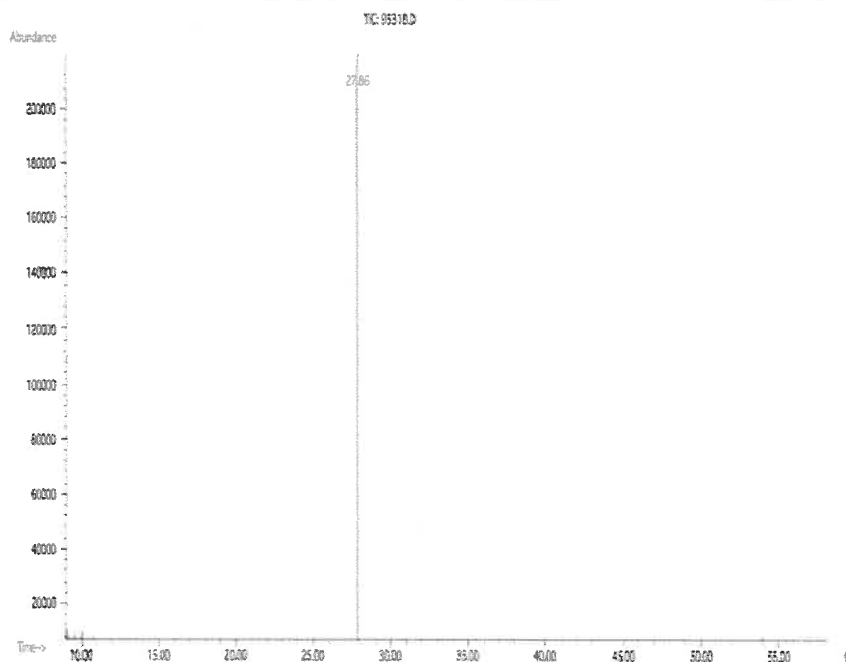
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Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
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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
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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.
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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.
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Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



110 Benner Circle
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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.:** A0181905
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 28, 2025 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)												
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot SHBM7694)	50,126.0 µg/mL	<table><tr><td>+/-</td><td>293.4988</td><td>µg/mL</td><td>Gravimetric</td></tr><tr><td>+/-</td><td>1,073.7654</td><td>µg/mL</td><td>Unstressed</td></tr><tr><td>+/-</td><td>1,104.9494</td><td>µg/mL</td><td>Stressed</td></tr></table>	+/-	293.4988	µg/mL	Gravimetric	+/-	1,073.7654	µg/mL	Unstressed	+/-	1,104.9494	µg/mL	Stressed
+/-	293.4988	µg/mL	Gravimetric												
+/-	1,073.7654	µg/mL	Unstressed												
+/-	1,104.9494	µg/mL	Stressed												

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

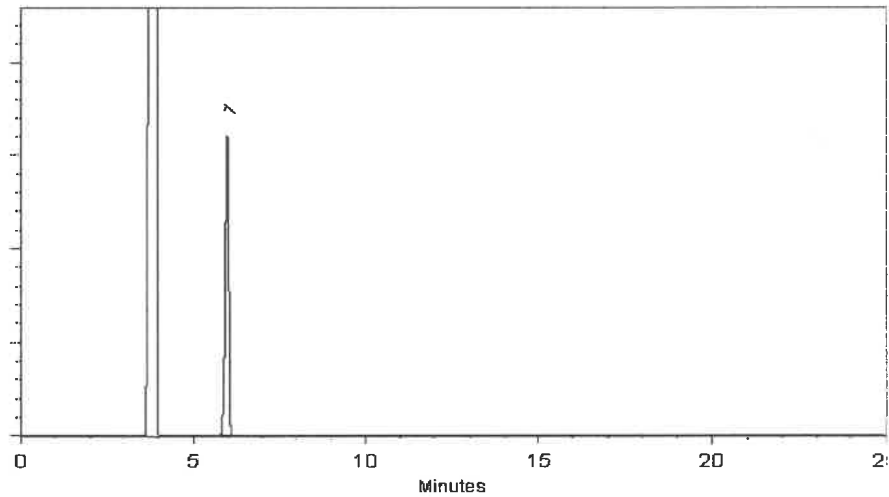
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

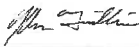
Inj. Temp:
200°C

Det. Temp:
250°C

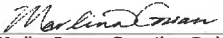
Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 Balance: B442140311


Marlene Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

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.



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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:

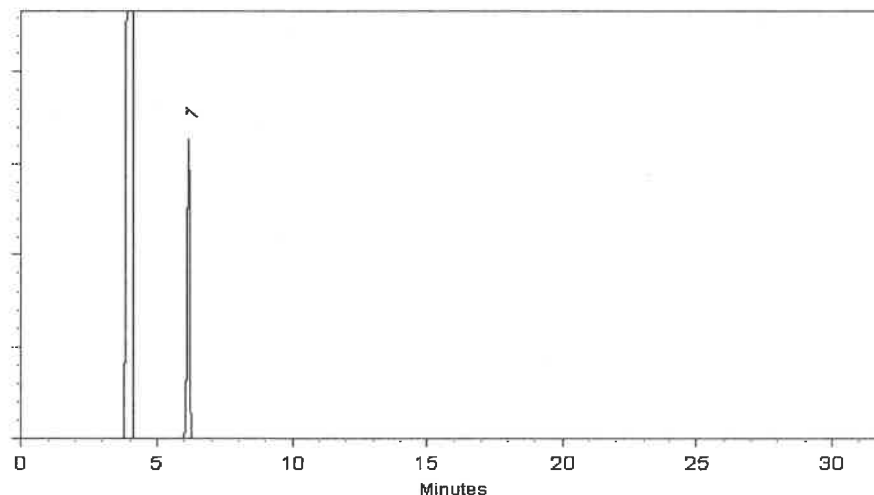
200°C

Det. Temp:

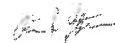
250°C

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/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

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.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

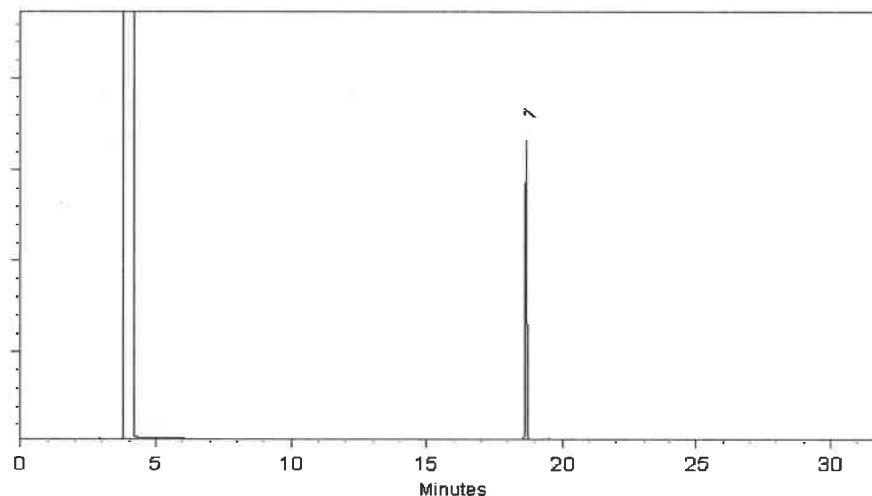
FID

Split Vent:

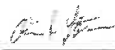
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

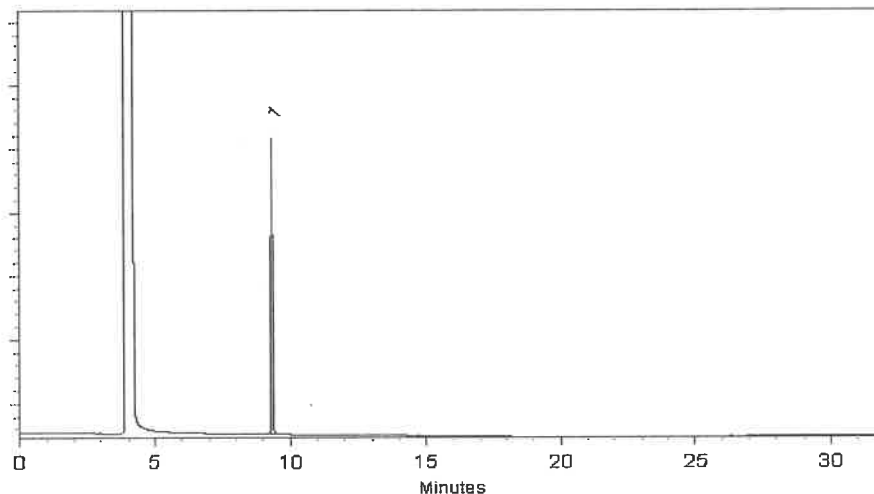
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

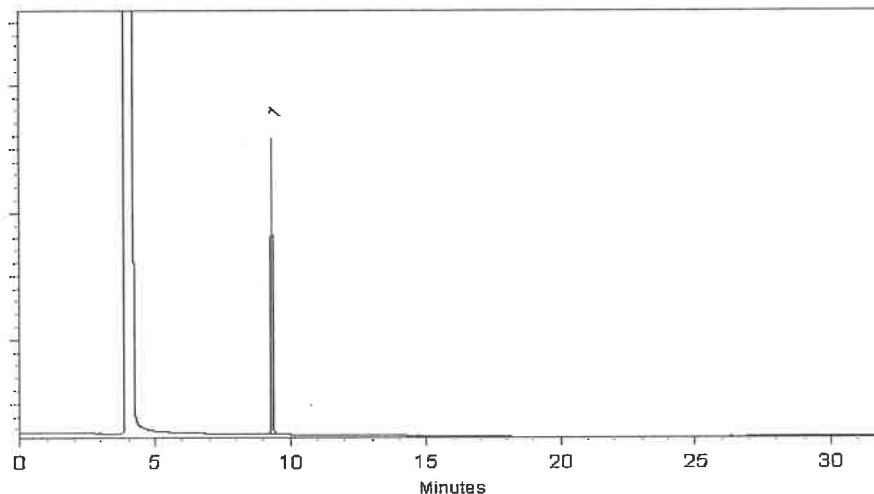
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 Lot No.: A0193887
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : April 30, 2026 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

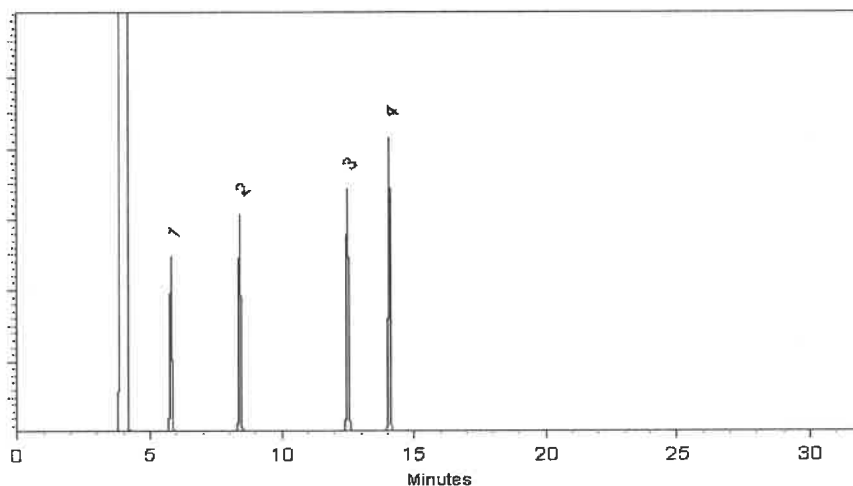
FID

Split Vent:

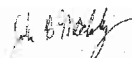
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

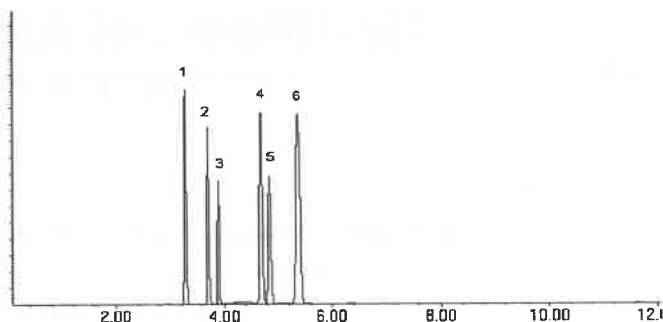
MSD

Split Vent:

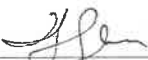
Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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- 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:

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Handling Notes:

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0205013
Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2025 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,012.7 µg/mL	+/- 69.5670
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,017.5 µg/mL	+/- 69.7338
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,020.0 µg/mL	+/- 69.8205
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,018.7 µg/mL	+/- 69.7744
5	Propyl acetate	109-60-4	KLOBM	99%	2,012.0 µg/mL	+/- 69.5439
6	Butyl acetate	123-86-4	SHBP6314	99%	2,020.0 µg/mL	+/- 69.8205
7	Amyl acetate	628-63-7	41325/1	97%	2,019.5 µg/mL	+/- 69.8046

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

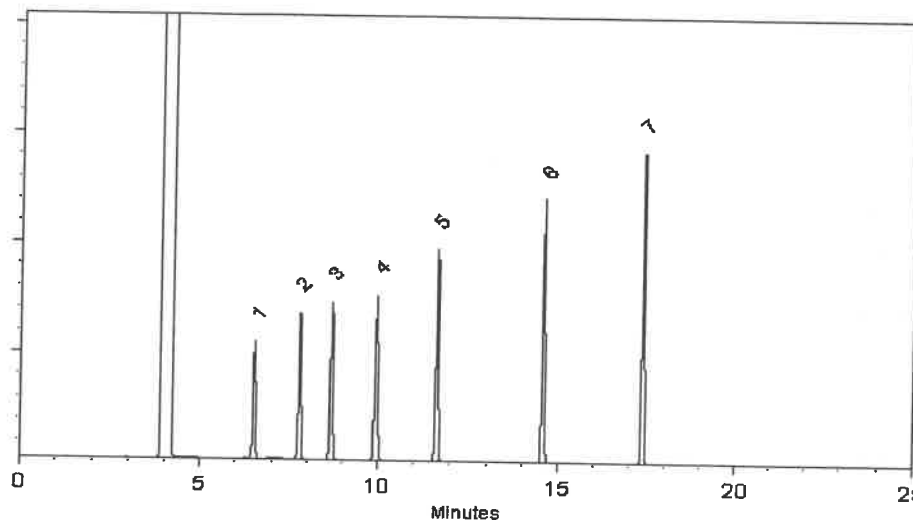
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Brittany Federinko - Operations Tech I

Date Mixed: 04-Dec-2023 Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

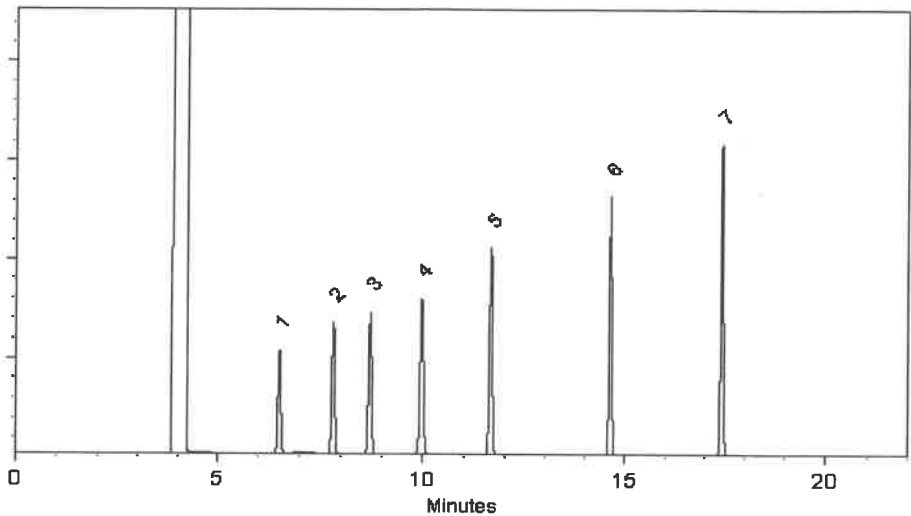
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

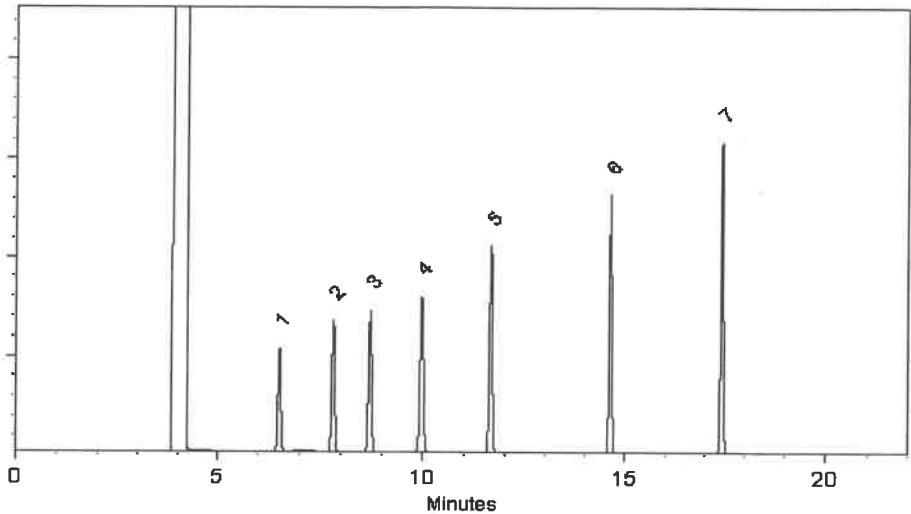
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ 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.



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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

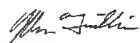
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

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 11-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/ 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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

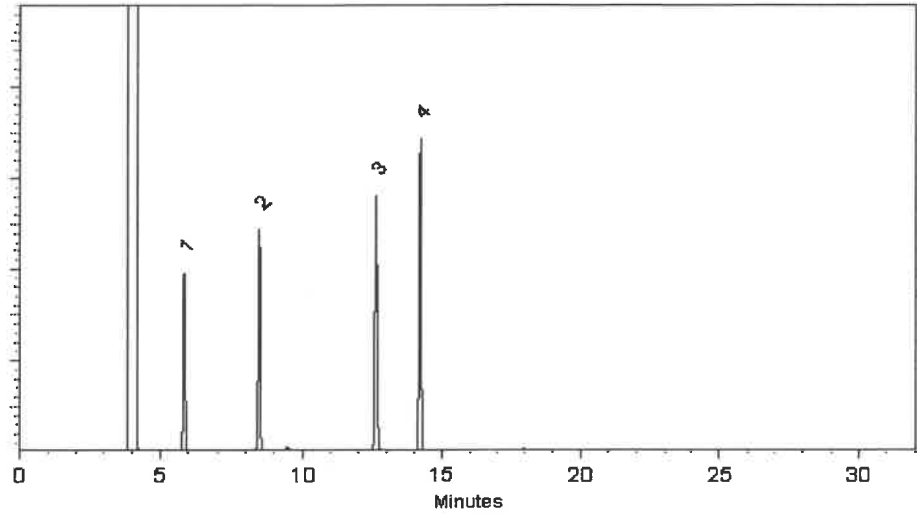
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

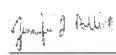


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

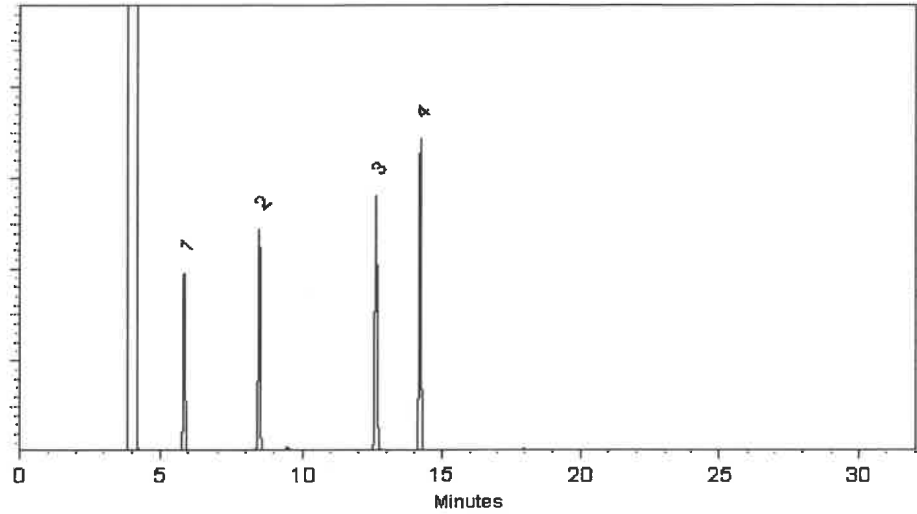
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

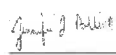


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Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

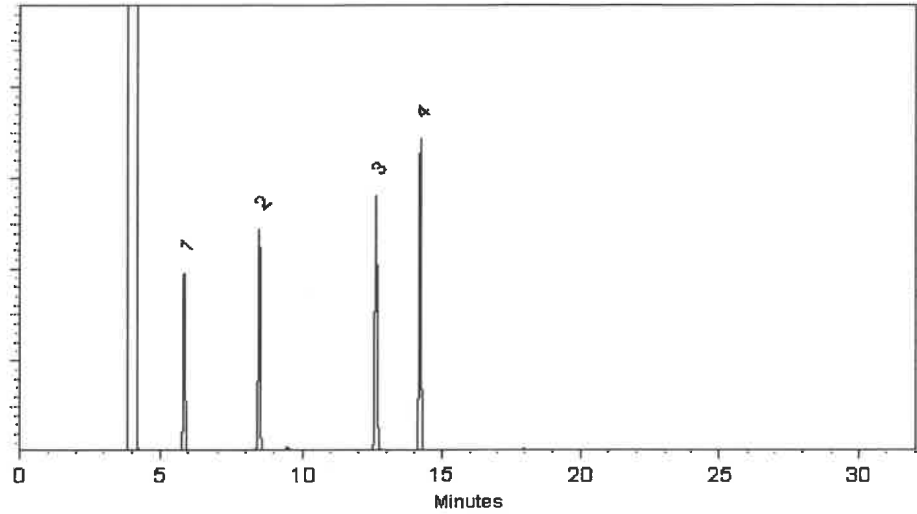
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

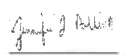


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

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Manufacturing Notes:

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Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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V14756



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

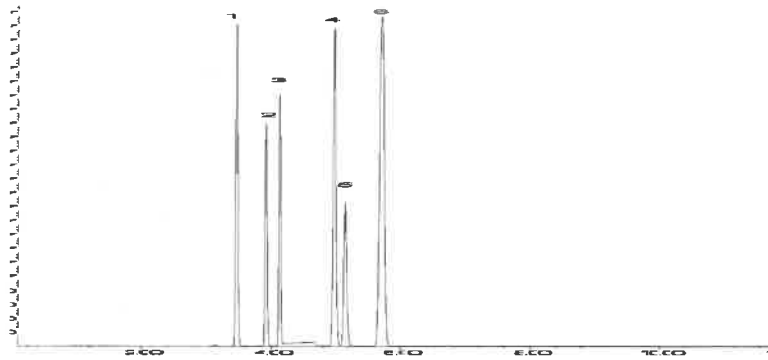
MSD

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.



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Rec 12/17/24
30 ml
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

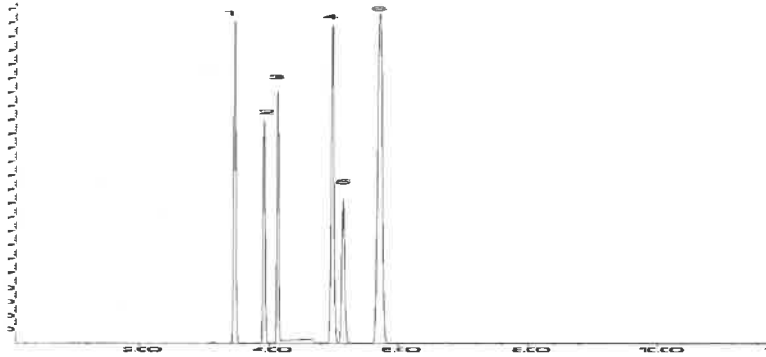
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

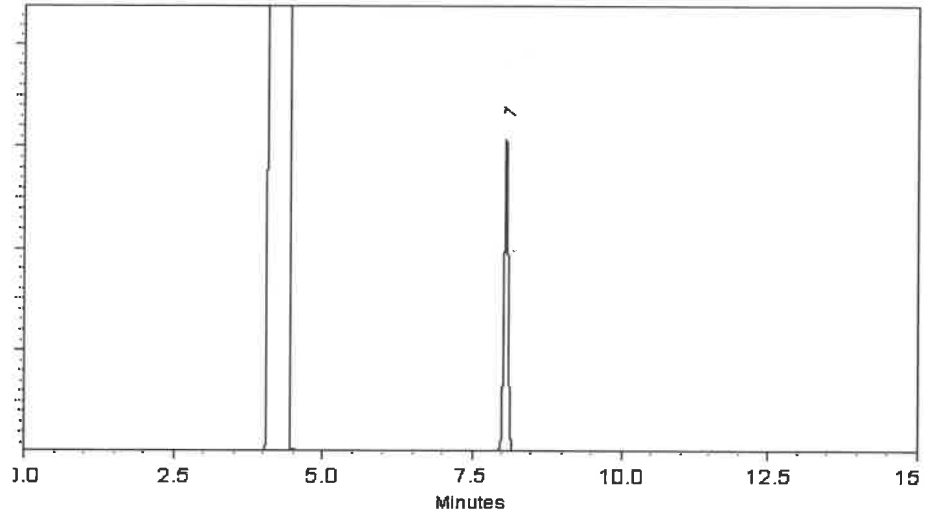
FID

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/ 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.



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10 vol Rec 01/08/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14793 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:

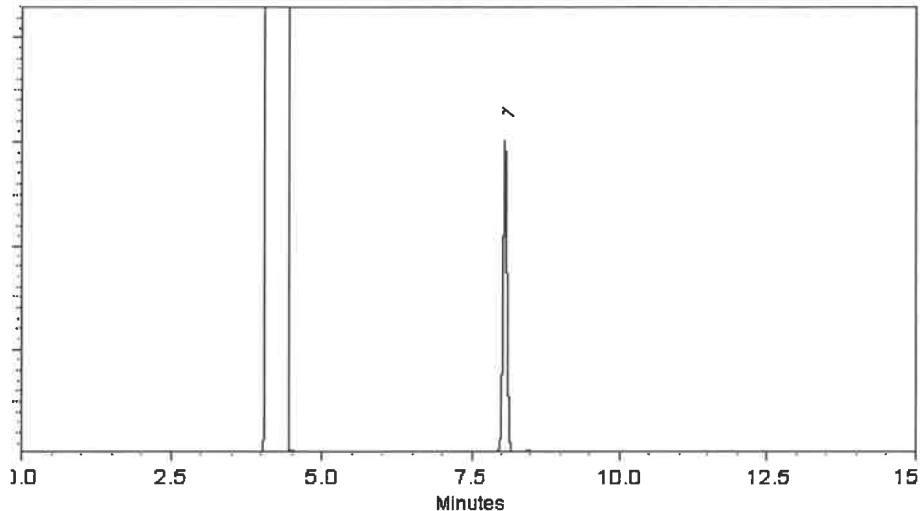
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

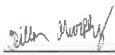


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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 Pothos 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.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

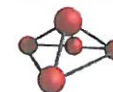
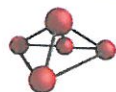
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

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**

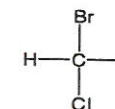
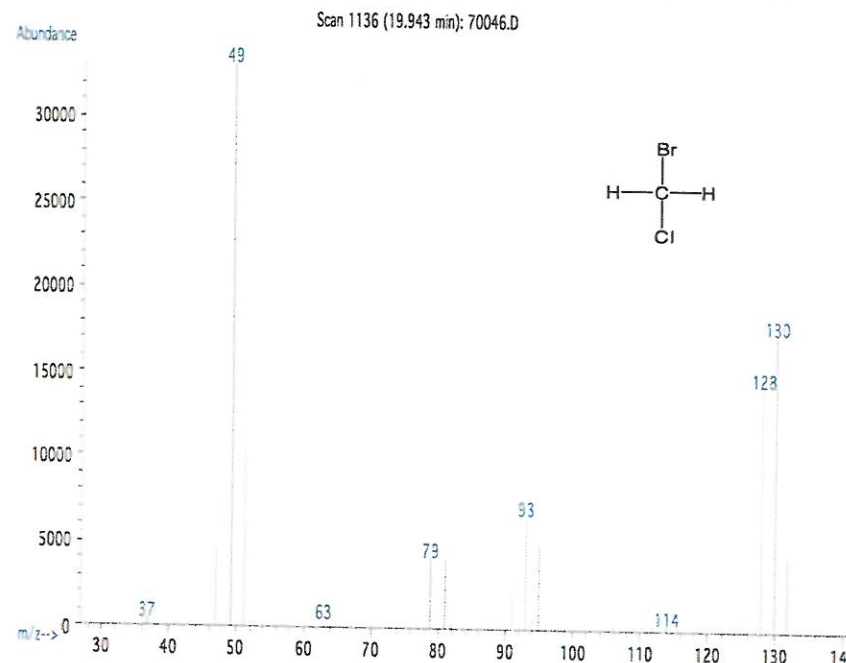
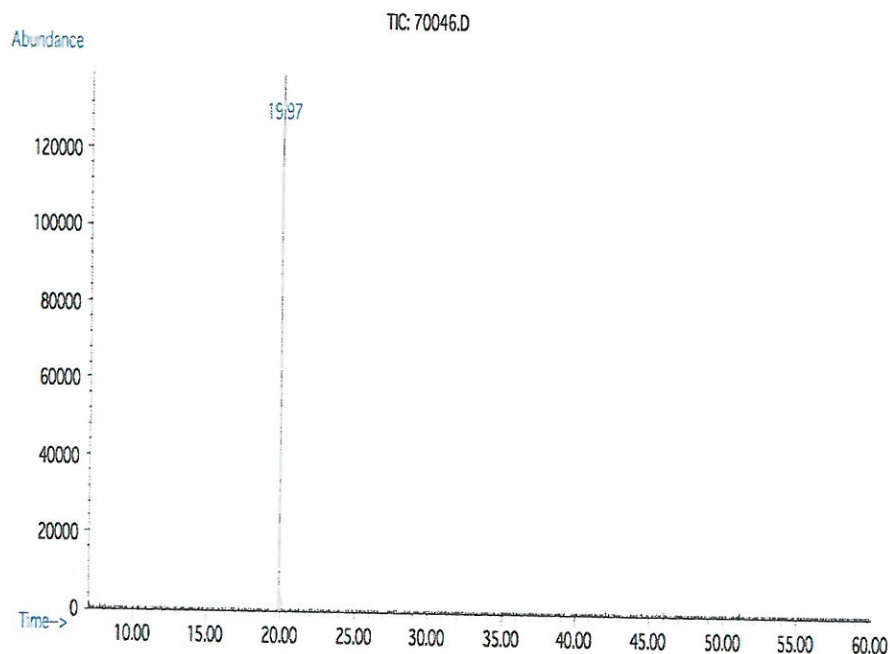
Solvent: **Methanol**
Lot#: **EC592-US**

<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
Weight(s) shown below were combined and diluted to (mL): 25.0
5E-05 Balance Uncertainty
0.0002 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. 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



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Preservation Log

BalanceID: VOA-SC-2

Review By: pedro

Supervise By: MMDadoda

Seq	LabID	Vial A Weight (g)	Vial A Time	Vial B Weight (g)	Vial B Time	Vial C Weight(g) with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	Q1207-01	4.99	09:10	5.02	09:11	5.04	09:12	V14143	01/29/2025	8260 JAR SAMPLE SAMPLE
2	Q1207-05	5.03	09:13	5.08	09:14	5.10	09:15	V14143	01/29/2025	
3	Q1207-09	5.00	09:16	5.03	09:17	5.11	09:18	V14143	01/29/2025	
4	Q1207-13	5.08	09:19	5.02	09:20	5.09	09:21	V14143	01/29/2025	
5	Q1207-17	5.05	09:22	5.10	09:23	5.04	09:24	V14143	01/29/2025	

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Control # A3041177



SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

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(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. **Q1207**
QUOTE NO.
COC Number **2038583**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **RU2 Engineering LLC**
ADDRESS: **2 Melinda Drive**
Monroe Twp, NJ 08831
CITY: _____ STATE: _____ ZIP: _____
ATTENTION: **Rutu Manani**
PHONE: **609-409-4564** FAX: _____

CLIENT PROJECT INFORMATION

PROJECT NAME: **SANDTWOOR BMLR Project**
PROJECT NO.: _____ LOCATION: **Brooklyn, NY**
PROJECT MANAGER: **Rutu Manani**
e-mail: **Rmanani@RU2eng.com**
PHONE: _____ FAX: _____

CLIENT BILLING INFORMATION

BILL TO: **Same as company address** PO#: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
ATTENTION: _____ PHONE: _____

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) **Standard 10 days** DAYS*
HARDCOPY (DATA PACKAGE): **Standard 10 days** DAYS*
EDD: **Standard 10 days** DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☒ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1. TEL VOCs+TICS+TBA
2. TEL VOCs
3. TPH
4. TEL GRO-DRO
5. TAL SVOCs+TICS
6. Pesticides, PCBs
7. ELCA Characterization
8. Paint Filter
9. Full TELP

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9		
1.	JPP-2.1-012725	Soil		G	1/27/25	9:05	3	X	X	X								
2.	JPP-2.1-012725	Soil	C		1/27/25	9:08	7			X	X	X	X	X	X	X		
3.	JPP-5.1-012725	Soil		G	1/27/25	10:10	3	X	X	X								
4.	JPP-5.1-012725	Soil	C		1/27/25	10:10	7			X	X	X	X	X	X	X		
5.	JPP-4.5-012725	Soil		G	1/27/25	10:50	3	X	X	X								
6.	JPP-4.5-012725	Soil	C		1/27/25	10:50	7			X	X	X	X	X	X	X		
7.	JPP-16.2-012725	Soil		G	1/27/25	12:07	3	X	X	X								
8.	JPP-16.2-012725	Soil	C		1/27/25	12:09	7			X	X	X	X	X	X	X		
9.	JPP-20.2-012725	Soil		G	1/27/25	13:40	3	X	X	X								
10.	JPP-20.2-012725	Soil	C		1/27/25	13:40	7			X	X	X	X	X	X	X		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. RVM	DATE/TIME: 1/28/2025	RECEIVED BY: [Signature] 1-28-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3-7 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY:	Comments: Preserve extra sample jar if additional analysis is required.
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 1-28-25	RECEIVED BY:	Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1207	RUTW01	Order Date : 1/28/2025 11:40:00 AM	YG	Project Mgr :
Client Name : RU2 Engineering, LLC		Project Name : SANDTWOBR-BMCR Bro 02/03/25		Report Type : NYS ASP B
Client Contact : Rutu Manani		Receive DateTime : 1/28/2025 12:59:00 PM		EDD Type : Excel NY
Invoice Name : RU2 Engineering, LLC		Purchase Order :		Hard Copy Date :
Invoice Contact : Rutu Manani				Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1207-01	JPP-2.1-012725	Solid	01/27/2025	09:05					
					VOCMS Group1		8260D	10 Bus. Days	
Q1207-05	JPP-5.1-012725	Solid	01/27/2025	10:10					
					VOCMS Group1		8260D	10 Bus. Days	
Q1207-09	JPP-4.5-012725	Solid	01/27/2025	10:50					
					VOCMS Group1		8260D	10 Bus. Days	
Q1207-13	JPP-16.2-012725	Solid	01/27/2025	12:07					
					VOCMS Group1		8260D	10 Bus. Days	
Q1207-17	JPP-20.2-012725	Solid	01/27/2025	13:40					
					VOCMS Group1		8260D	10 Bus. Days	

Relinquished By:

Date / Time :

[Signature]
1-28-25 1447

Received By:

Date / Time :

[Signature]
1/28/25 1447

Storage Area : VOA Refridgerator Room

[Signature]
1-28-25