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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

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

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LAB CHRONICLE

OrderID:	Q3385	**OrderDate:**	10/17/2025 2:02:00 PM
Client:	Ardmore Chemical	**Project:**	PVSC Monthly 2025
Contact:	Michael Sharphouse	**Location:**	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3385-01	**EFF-WW**	**Water**			**10/17/25**			**10/17/25**
			VOC-PP	624.1			10/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3385

Client: Ardmore Chemical

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**EFF-WW**							
Q3385-01	EFF-WW	Water	Chloroform	80.3		2.80	25.0	ug/L
Q3385-01	EFF-WW	Water	Bromodichloromethane	6.70	J	3.20	25.0	ug/L
			Total Voc :	87.0				
			Total Concentration:	87.0				

QC SUMMARY

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Surrogate Summary

SDG No.: Q3385

Client: Ardmore Chemical

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q3385-01	EFF-WW	1,2-Dichloroethane-d4	30	32.3	108		91	110
		Toluene-d8	30	31.1	104		91	112
		4-Bromofluorobenzene	30	28.8	96		63	112
Q3385-02MS	EFF-WWMS	1,2-Dichloroethane-d4	30	32.0	107		91	110
		Toluene-d8	30	31.5	105		91	112
		4-Bromofluorobenzene	30	30.8	103		63	112
Q3385-03MSD	EFF-WWMSD	1,2-Dichloroethane-d4	30	32.9	110		91	110
		Toluene-d8	30	31.4	105		91	112
		4-Bromofluorobenzene	30	29.8	99		63	112
VN1017WBL01	VN1017WBL01	1,2-Dichloroethane-d4	30	32.4	108		91	110
		Toluene-d8	30	31.5	105		91	112
		4-Bromofluorobenzene	30	28.4	95		63	112
VN1017WBS01	VN1017WBS01	1,2-Dichloroethane-d4	30	32.0	107		91	110
		Toluene-d8	30	30.9	103		91	112
		4-Bromofluorobenzene	30	29.9	100		63	112
VN1020WBL01	VN1020WBL01	1,2-Dichloroethane-d4	30	32.5	108		91	110
		Toluene-d8	30	30.8	102		91	112
		4-Bromofluorobenzene	30	28.4	95		63	112
VN1020WBS01	VN1020WBS01	1,2-Dichloroethane-d4	30	32.3	108		91	110
		Toluene-d8	30	30.9	103		91	112
		4-Bromofluorobenzene	30	30.4	101		63	112

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3385 **Analytical Method:** SW624.1

Client: Ardmore Chemical **Datafile :** VN088068.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q3385-02MS		**Client Sample ID : EFF-WWMS**									
Chloromethane	100	0	89.1	ug/L	89				1	273	
Vinyl Chloride	100	0	93.8	ug/L	94				1	251	
Bromomethane	100	0	89.5	ug/L	90				1	242	
Chloroethane	100	0	88.3	ug/L	88				14	230	
Trichlorofluoromethane	100	0	100	ug/L	100				17	181	
1,1-Dichloroethene	100	0	95.6	ug/L	96				1	234	
Acrolein	500	0	490	ug/L	98				40	160	
Acrylonitrile	500	0	430	ug/L	86				40	160	
Methylene Chloride	100	0	89.2	ug/L	89				1	221	
trans-1,2-Dichloroethene	100	0	90.0	ug/L	90				54	156	
1,1-Dichloroethane	100	0	92.1	ug/L	92				59	155	
Carbon Tetrachloride	100	0	96.3	ug/L	96				70	140	
Chloroform	100	99.2	190	ug/L	91				51	138	
1,1,1-Trichloroethane	100	0	94.7	ug/L	95				52	162	
Benzene	100	0	86.7	ug/L	87				37	151	
1,2-Dichloroethane	100	0	92.8	ug/L	93				49	155	
Trichloroethene	100	0	86.5	ug/L	87				70	157	
1,2-Dichloropropane	100	0	89.1	ug/L	89				1	210	
Bromodichloromethane	100	7.40	95.5	ug/L	88				35	155	
Toluene	100	0	89.7	ug/L	90				47	150	
t-1,3-Dichloropropene	100	0	84.7	ug/L	85				17	183	
cis-1,3-Dichloropropene	100	0	85.6	ug/L	86				1	227	
1,1,2-Trichloroethane	100	0	86.4	ug/L	86				52	150	
2-Chloroethyl vinyl ether	500	0	190	ug/L	38				1	305	
Dibromochloromethane	100	0	85.3	ug/L	85				53	149	
Tetrachloroethene	100	0	86.7	ug/L	87				64	148	
Chlorobenzene	100	0	87.9	ug/L	88				37	160	
Ethyl Benzene	100	0	90.2	ug/L	90				37	162	
m/p-Xylenes	200	0	180	ug/L	90				77	116	
o-Xylene	100	0	88.3	ug/L	88				83	113	
Bromoform	100	0	75.4	ug/L	75				45	169	
1,1,2,2-Tetrachloroethane	100	0	89.3	ug/L	89				46	157	
1,3-Dichlorobenzene	100	0	87.0	ug/L	87				59	156	
1,4-Dichlorobenzene	100	0	86.9	ug/L	87				18	190	
1,2-Dichlorobenzene	100	0	86.3	ug/L	86				18	190	

Alliance TECHNICAL GROUP

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3385 **Analytical Method:** SW624.1

Client: Ardmore Chemical **Datafile :** VN088069.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID :	**Q3385-03MSD**	**Client Sample ID :**	**EFF-WWMSD**								
Chloromethane	100	0	97.6	ug/L	98		9		1	273	20
Vinyl Chloride	100	0	110	ug/L	110		16		1	251	20
Bromomethane	100	0	110	ug/L	110		21	*	1	242	20
Chloroethane	100	0	110	ug/L	110		22	*	14	230	20
Trichlorofluoromethane	100	0	120	ug/L	120		18		17	181	20
1,1-Dichloroethene	100	0	110	ug/L	110		14		1	234	20
Acrolein	500	0	480	ug/L	96		2		40	160	20
Acrylonitrile	500	0	490	ug/L	98		13		40	160	20
Methylene Chloride	100	0	99.4	ug/L	99		11		1	221	20
trans-1,2-Dichloroethene	100	0	98.9	ug/L	99		9		54	156	20
1,1-Dichloroethane	100	0	100	ug/L	100		8		59	155	20
Carbon Tetrachloride	100	0	110	ug/L	110		13		70	140	20
Chloroform	100	99.2	190	ug/L	91		0		51	138	20
1,1,1-Trichloroethane	100	0	110	ug/L	110		15		52	162	20
Benzene	100	0	95.6	ug/L	96		10		37	151	20
1,2-Dichloroethane	100	0	99.4	ug/L	99		7		49	155	20
Trichloroethene	100	0	93.6	ug/L	94		8		70	157	20
1,2-Dichloropropane	100	0	96.5	ug/L	97		8		1	210	20
Bromodichloromethane	100	7.40	100	ug/L	93		6		35	155	20
Toluene	100	0	97.2	ug/L	97		8		47	150	20
t-1,3-Dichloropropene	100	0	92.2	ug/L	92		8		17	183	20
cis-1,3-Dichloropropene	100	0	92.3	ug/L	92		8		1	227	20
1,1,2-Trichloroethane	100	0	93.6	ug/L	94		8		52	150	20
2-Chloroethyl vinyl ether	500	0	220	ug/L	44		15		1	305	20
Dibromochloromethane	100	0	91.5	ug/L	92		7		53	149	20
Tetrachloroethene	100	0	93.9	ug/L	94		8		64	148	20
Chlorobenzene	100	0	93.7	ug/L	94		6		37	160	20
Ethyl Benzene	100	0	99.9	ug/L	100		10		37	162	20
m/p-Xylenes	200	0	200	ug/L	100		11		77	116	20
o-Xylene	100	0	96.4	ug/L	96		9		83	113	20
Bromoform	100	0	83.9	ug/L	84		11		45	169	20
1,1,2,2-Tetrachloroethane	100	0	98.0	ug/L	98		9		46	157	20
1,3-Dichlorobenzene	100	0	93.7	ug/L	94		7		59	156	20
1,4-Dichlorobenzene	100	0	95.7	ug/L	96		10		18	190	20
1,2-Dichlorobenzene	100	0	91.1	ug/L	91		5		18	190	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3385 **Analytical Method:** SW624.1

Client: Ardmore Chemical **Datafile :** VN088056.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1017WBS01	Chloromethane	20	19.1	ug/L	96			1	205	
	Vinyl Chloride	20	20.2	ug/L	101			5	195	
	Bromomethane	20	20.5	ug/L	103			15	185	
	Chloroethane	20	18.9	ug/L	95			40	160	
	Trichlorofluoromethane	20	21.1	ug/L	106			50	150	
	1,1-Dichloroethene	20	20.3	ug/L	102			50	150	
	Acrolein	100	84.0	ug/L	84			60	140	
	Acrylonitrile	100	91.3	ug/L	91			60	140	
	Methylene Chloride	20	19.1	ug/L	96			60	140	
	trans-1,2-Dichloroethene	20	18.9	ug/L	95			70	130	
	1,1-Dichloroethane	20	20.1	ug/L	101			70	130	
	Carbon Tetrachloride	20	20.2	ug/L	101			70	130	
	Chloroform	20	19.5	ug/L	98			70	135	
	1,1,1-Trichloroethane	20	20.0	ug/L	100			70	130	
	Benzene	20	19.2	ug/L	96			65	135	
	1,2-Dichloroethane	20	19.8	ug/L	99			70	130	
	Trichloroethene	20	18.3	ug/L	92			65	135	
	1,2-Dichloropropane	20	19.2	ug/L	96			35	165	
	Bromodichloromethane	20	19.4	ug/L	97			65	135	
	Toluene	20	19.1	ug/L	96			70	130	
	t-1,3-Dichloropropene	20	18.9	ug/L	95			50	150	
	cis-1,3-Dichloropropene	20	18.7	ug/L	94			25	175	
	1,1,2-Trichloroethane	20	18.9	ug/L	95			70	130	
	2-Chloroethyl vinyl ether	100	80.5	ug/L	81			1	225	
	Dibromochloromethane	20	18.3	ug/L	92			70	135	
	Tetrachloroethene	20	18.2	ug/L	91			70	130	
	Chlorobenzene	20	19.0	ug/L	95			65	135	
	Ethyl Benzene	20	19.5	ug/L	98			60	140	
	m/p-Xylenes	40	38.8	ug/L	97			87	111	
	o-Xylene	20	18.7	ug/L	94			87	111	
	Bromoform	20	17.1	ug/L	86			70	130	
	1,1,2,2-Tetrachloroethane	20	18.4	ug/L	92			60	140	
	1,3-Dichlorobenzene	20	19.0	ug/L	95			70	130	
	1,4-Dichlorobenzene	20	18.3	ug/L	92			65	135	
	1,2-Dichlorobenzene	20	18.6	ug/L	93			65	135	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3385 **Analytical Method:** SW624.1

Client: Ardmore Chemical **Datafile :** VN088073.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1020WBS01	Chloromethane	20	19.0	ug/L	95			1	205	
	Vinyl Chloride	20	20.2	ug/L	101			5	195	
	Bromomethane	20	22.4	ug/L	112			15	185	
	Chloroethane	20	21.9	ug/L	110			40	160	
	Trichlorofluoromethane	20	22.7	ug/L	114			50	150	
	1,1-Dichloroethene	20	20.8	ug/L	104			50	150	
	Acrolein	100	72.0	ug/L	72			60	140	
	Acrylonitrile	100	99.1	ug/L	99			60	140	
	Methylene Chloride	20	19.2	ug/L	96			60	140	
	trans-1,2-Dichloroethene	20	19.7	ug/L	99			70	130	
	1,1-Dichloroethane	20	20.2	ug/L	101			70	130	
	Carbon Tetrachloride	20	21.5	ug/L	108			70	130	
	Chloroform	20	19.9	ug/L	100			70	135	
	1,1,1-Trichloroethane	20	21.2	ug/L	106			70	130	
	Benzene	20	19.8	ug/L	99			65	135	
	1,2-Dichloroethane	20	21.2	ug/L	106			70	130	
	Trichloroethene	20	19.6	ug/L	98			65	135	
	1,2-Dichloropropane	20	20.2	ug/L	101			35	165	
	Bromodichloromethane	20	20.4	ug/L	102			65	135	
	Toluene	20	20.0	ug/L	100			70	130	
	t-1,3-Dichloropropene	20	19.7	ug/L	99			50	150	
	cis-1,3-Dichloropropene	20	19.2	ug/L	96			25	175	
	1,1,2-Trichloroethane	20	20.0	ug/L	100			70	130	
	2-Chloroethyl vinyl ether	100	99.4	ug/L	99			1	225	
	Dibromochloromethane	20	19.4	ug/L	97			70	135	
	Tetrachloroethene	20	19.4	ug/L	97			70	130	
	Chlorobenzene	20	19.6	ug/L	98			65	135	
	Ethyl Benzene	20	20.3	ug/L	102			60	140	
	m/p-Xylenes	40	39.9	ug/L	100			87	111	
	o-Xylene	20	19.4	ug/L	97			87	111	
	Bromoform	20	18.1	ug/L	91			70	130	
	1,1,2,2-Tetrachloroethane	20	20.2	ug/L	101			60	140	
	1,3-Dichlorobenzene	20	19.3	ug/L	97			70	130	
	1,4-Dichlorobenzene	20	19.6	ug/L	98			65	135	
	1,2-Dichlorobenzene	20	19.1	ug/L	96			65	135	

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VOLATILE METHOD BLANK SUMMARY

Client ID

VN1017WBL01

Lab Name: Alliance

Contract: ARDM01

Lab Code: ACE

SDG NO.: Q3385

Lab File ID: VN088058.D

Lab Sample ID: VN1017WBL01

Date Analyzed: 10/17/2025

Time Analyzed: 10:56

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1017WBS01	VN1017WBS01	VN088056.D	10/17/2025
EFF-WWMS	Q3385-02MS	VN088068.D	10/17/2025
EFF-WWMSD	Q3385-03MSD	VN088069.D	10/17/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VN1020WBL01

Lab Name: Alliance

Contract: ARDM01

Lab Code: ACE

SDG NO.: Q3385

Lab File ID: VN088075.D

Lab Sample ID: VN1020WBL01

Date Analyzed: 10/20/2025

Time Analyzed: 10:55

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1020WBS01	VN1020WBS01	VN088073.D	10/20/2025
EFF-WW	Q3385-01	VN088076.D	10/20/2025

COMMENTS:

Raw Data: **VN088029.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ARDM01

Lab Code: ACE

SDG NO.: Q3385

Lab File ID: VN088029.D

BFB Injection Date: 10/08/2025

Instrument ID: MSVOA_N

BFB Injection Time: 09:00

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	72.1
175	5.0 - 9.0% of mass 174	5.6 (7.8) 1
176	95.0 - 101.0% of mass 174	69.5 (96.4) 1
177	5.0 - 9.0% of mass 176	4.7 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VN088030.D	10/08/2025	09:34
VSTDICCC020	VSTDICCC020	VN088031.D	10/08/2025	10:08
VSTDICC050	VSTDICC050	VN088032.D	10/08/2025	10:30
VSTDICC100	VSTDICC100	VN088033.D	10/08/2025	10:51
VSTDICC150	VSTDICC150	VN088034.D	10/08/2025	11:12

Raw Data: **VN088054.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ARDM01

Lab Code: ACE

SDG NO.: Q3385

Lab File ID: VN088054.D

BFB Injection Date: 10/17/2025

Instrument ID: MSVOA_N

BFB Injection Time: 08:56

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.6
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	67.1
175	5.0 - 9.0% of mass 174	5 (7.5) 1
176	95.0 - 101.0% of mass 174	64.1 (95.6) 1
177	5.0 - 9.0% of mass 176	4.3 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VN088055.D	10/17/2025	09:29
VN1017WBS01	VN1017WBS01	VN088056.D	10/17/2025	10:03
VN1017WBL01	VN1017WBL01	VN088058.D	10/17/2025	10:56
EFF-WWMS	Q3385-02MS	VN088068.D	10/17/2025	15:39
EFF-WWMSD	Q3385-03MSD	VN088069.D	10/17/2025	16:00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: ARDM01

Lab Code: ACE | SDG NO.: Q3385

Lab File ID: VN088071.D | BFB Injection Date: 10/20/2025

Instrument ID: MSVOA_N | BFB Injection Time: 08:17

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	55.7
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	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	67.8
175	5.0 - 9.0% of mass 174	5.4 (7.9) 1
176	95.0 - 101.0% of mass 174	65.4 (96.4) 1
177	5.0 - 9.0% of mass 176	4.1 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VN088072.D	10/20/2025	08:52
VN1020WBS01	VN1020WBS01	VN088073.D	10/20/2025	09:26
VN1020WBL01	VN1020WBL01	VN088075.D	10/20/2025	10:55
EFF-WW	Q3385-01	VN088076.D	10/20/2025	11:31

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance **Contract:** ARDM01

Lab Code: ACE **SDG NO.:** Q3385

Lab File ID: VN088055.D **Date Analyzed:** 10/17/2025

Instrument ID: MSVOA_N **Time Analyzed:** 09:29

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	68741	7.79	379209	9.08	339769	11.84
UPPER LIMIT	137482	8.294	758418	9.576	679538	12.341
LOWER LIMIT	34370.5	7.294	189605	8.576	169885	11.341
EPA SAMPLE NO.						
EFF-WWMS	53200	7.80	297248	9.08	260365	11.84
EFF-WWMSD	62360	7.80	360102	9.08	317295	11.84
VN1017WBL01	56868	7.79	316193	9.08	274787	11.84
VN1017WBS01	61010	7.79	345518	9.08	303706	11.84

IS1 = Bromochloromethane
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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance   Contract: ARDM01

Lab Code: ACE   SDG NO.: Q3385

Lab File ID: VN088072.D   Date Analyzed: 10/20/2025

Instrument ID: MSVOA_N   Time Analyzed: 08:52

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	63726	7.79	362466	9.08	325295	11.85
UPPER LIMIT	127452	8.294	724932	9.582	650590	12.347
LOWER LIMIT	31863	7.294	181233	8.582	162648	11.347
EPA SAMPLE NO.						
EFF-WW	63544	7.80	356820	9.08	313448	11.84
VN1020WBL01	56116	7.80	302542	9.08	267258	11.85
VN1020WBS01	62285	7.80	343376	9.08	304684	11.85

IS1 = Bromochloromethane
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.

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SAMPLE DATA

Raw Data: **VN088076.D**

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Report of Analysis

Client:	Ardmore Chemical			Date Collected:	10/17/25
Project:	PVSC Monthly 2025			Date Received:	10/17/25
Client Sample ID:	EFF-WW			SDG No.:	Q3385
Lab Sample ID:	Q3385-01			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
74-87-3	Chloromethane	3.20	U	5	3.20	25.0	ug/L	10/20/25 11:31	VN102025
75-01-4	Vinyl Chloride	4.20	U	5	4.20	25.0	ug/L	10/20/25 11:31	VN102025
74-83-9	Bromomethane	4.00	U	5	4.00	25.0	ug/L	10/20/25 11:31	VN102025
75-00-3	Chloroethane	11.6	U	5	11.6	25.0	ug/L	10/20/25 11:31	VN102025
75-69-4	Trichlorofluoromethane	4.00	U	5	4.00	25.0	ug/L	10/20/25 11:31	VN102025
75-35-4	1,1-Dichloroethene	3.80	U	5	3.80	25.0	ug/L	10/20/25 11:31	VN102025
107-02-8	Acrolein	33.1	U	5	33.1	130	ug/L	10/20/25 11:31	VN102025
107-13-1	Acrylonitrile	14.0	U	5	14.0	130	ug/L	10/20/25 11:31	VN102025
75-09-2	Methylene Chloride	4.30	U	5	4.30	25.0	ug/L	10/20/25 11:31	VN102025
156-60-5	trans-1,2-Dichloroethene	4.10	U	5	4.10	25.0	ug/L	10/20/25 11:31	VN102025
75-34-3	1,1-Dichloroethane	3.40	U	5	3.40	25.0	ug/L	10/20/25 11:31	VN102025
56-23-5	Carbon Tetrachloride	3.70	U	5	3.70	25.0	ug/L	10/20/25 11:31	VN102025
67-66-3	Chloroform	80.3		5	2.80	25.0	ug/L	10/20/25 11:31	VN102025
71-55-6	1,1,1-Trichloroethane	3.20	U	5	3.20	25.0	ug/L	10/20/25 11:31	VN102025
71-43-2	Benzene	2.30	U	5	2.30	25.0	ug/L	10/20/25 11:31	VN102025
107-06-2	1,2-Dichloroethane	2.50	U	5	2.50	25.0	ug/L	10/20/25 11:31	VN102025
79-01-6	Trichloroethene	2.50	U	5	2.50	25.0	ug/L	10/20/25 11:31	VN102025
78-87-5	1,2-Dichloropropane	2.30	U	5	2.30	25.0	ug/L	10/20/25 11:31	VN102025
75-27-4	Bromodichloromethane	6.70	J	5	3.20	25.0	ug/L	10/20/25 11:31	VN102025
108-88-3	Toluene	2.30	U	5	2.30	25.0	ug/L	10/20/25 11:31	VN102025
10061-02-6	t-1,3-Dichloropropene	3.60	U	5	3.60	25.0	ug/L	10/20/25 11:31	VN102025
10061-01-5	cis-1,3-Dichloropropene	3.40	U	5	3.40	25.0	ug/L	10/20/25 11:31	VN102025
79-00-5	1,1,2-Trichloroethane	2.30	U	5	2.30	25.0	ug/L	10/20/25 11:31	VN102025
110-75-8	2-Chloroethyl vinyl ether	23.2	U	5	23.2	130	ug/L	10/20/25 11:31	VN102025
124-48-1	Dibromochloromethane	3.30	U	5	3.30	25.0	ug/L	10/20/25 11:31	VN102025
127-18-4	Tetrachloroethene	4.20	U	5	4.20	25.0	ug/L	10/20/25 11:31	VN102025
108-90-7	Chlorobenzene	2.40	U	5	2.40	25.0	ug/L	10/20/25 11:31	VN102025
100-41-4	Ethyl Benzene	2.80	U	5	2.80	25.0	ug/L	10/20/25 11:31	VN102025
179601-23-1	m/p-Xylenes	6.50	U	5	6.50	50.0	ug/L	10/20/25 11:31	VN102025
95-47-6	o-Xylene	3.40	U	5	3.40	25.0	ug/L	10/20/25 11:31	VN102025
75-25-2	Bromoform	4.70	U	5	4.70	25.0	ug/L	10/20/25 11:31	VN102025
79-34-5	1,1,2,2-Tetrachloroethane	2.20	U	5	2.20	25.0	ug/L	10/20/25 11:31	VN102025
541-73-1	1,3-Dichlorobenzene	3.40	U	5	3.40	25.0	ug/L	10/20/25 11:31	VN102025
106-46-7	1,4-Dichlorobenzene	4.10	U	5	4.10	25.0	ug/L	10/20/25 11:31	VN102025
95-50-1	1,2-Dichlorobenzene	3.40	U	5	3.40	25.0	ug/L	10/20/25 11:31	VN102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	32.3			91 - 110	108%	SPK: 30		
2037-26-5	Toluene-d8	31.1			91 - 112	104%	SPK: 30		
460-00-4	4-Bromofluorobenzene	28.8			63 - 112	96%	SPK: 30		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	63500							
540-36-3	1,4-Difluorobenzene	357000							
3114-55-4	Chlorobenzene-d5	313000							

Raw Data: **VN088076.D**

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Report of Analysis

Client:	Ardmore Chemical			Date Collected:	10/17/25
Project:	PVSC Monthly 2025			Date Received:	10/17/25
Client Sample ID:	EFF-WW			SDG No.:	Q3385
Lab Sample ID:	Q3385-01			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088076.D
Acq On : 20 Oct 2025 11:31
Operator : JC\MD
Sample : Q3385-01 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Quant Time: Oct 21 05:37:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	63544	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	356820	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	313448	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	159806	32.297	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.667%			
60) 4-Bromofluorobenzene	12.829	95	148887	28.813	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.033%			
63) Toluene-d8	10.547	98	433757	31.059	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.533%			
Target Compounds						Qvalue
15) Acetone	4.418	58	587860	765.813	ug/l	95
25) Chloroform	7.947	83	123897	16.068	ug/l	95
41) Bromodichloromethane	9.865	83	8427	1.333	ug/l	87

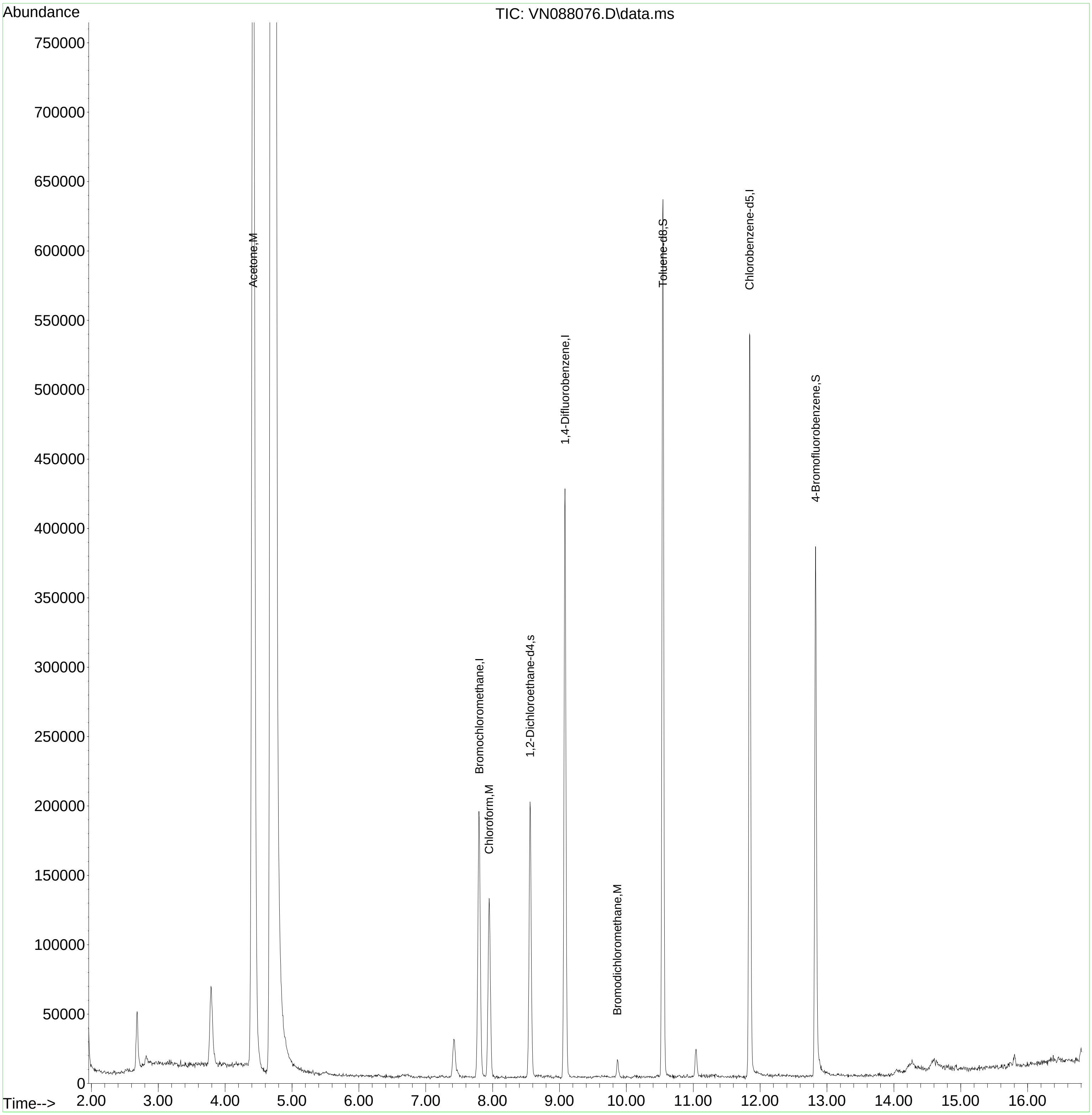
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VN088076.D**

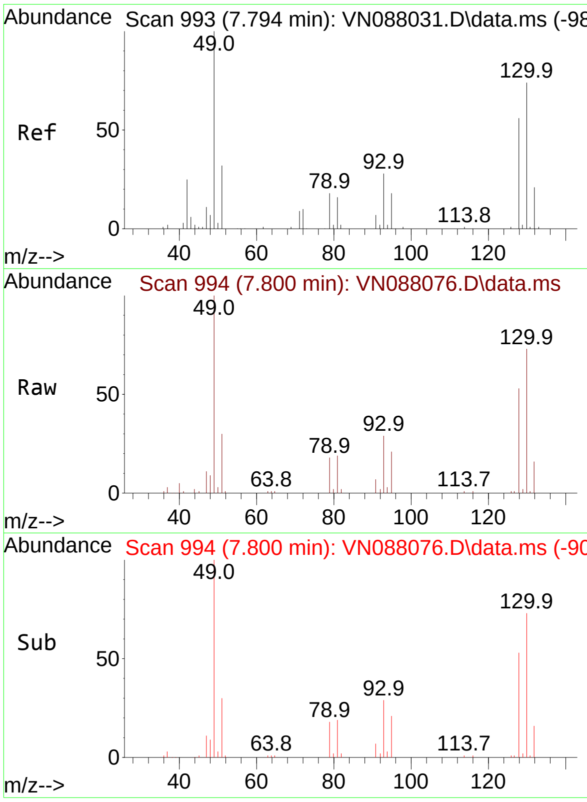
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088076.D
Acq On   : 20 Oct 2025 11:31
Operator : JC\MD
Sample   : Q3385-01 5X
Misc   : 5.0mL/MSVOA_N/WATER
ALS Vial : 6   Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Quant Time: Oct 21 05:37:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration



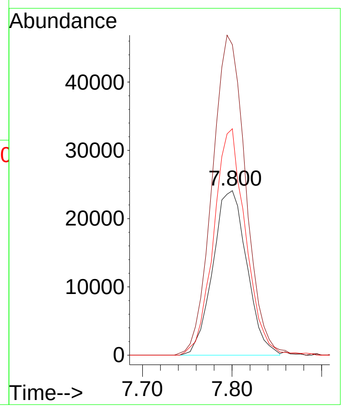
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

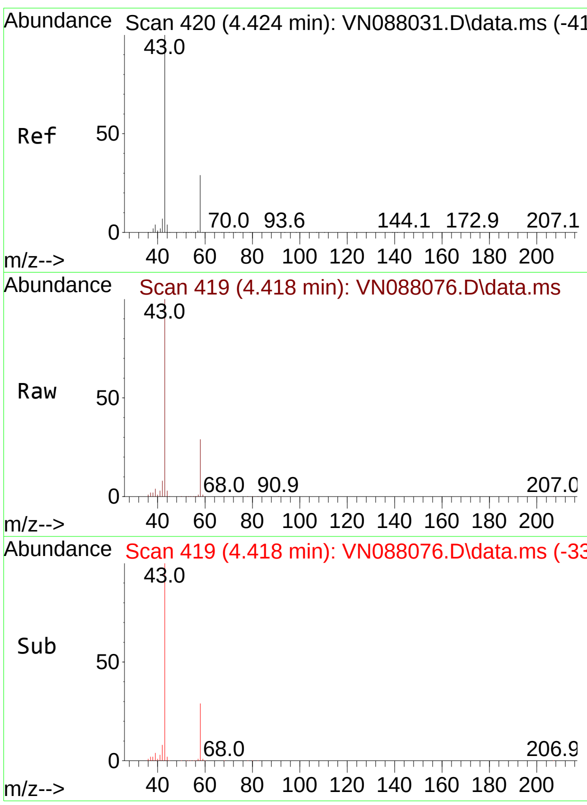


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion:128 Resp: 63544

Ion	Ratio	Lower	Upper
128	100		
49	191.2	0.0	439.8
130	130.0	0.0	325.8

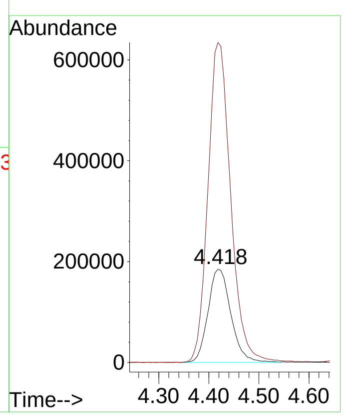




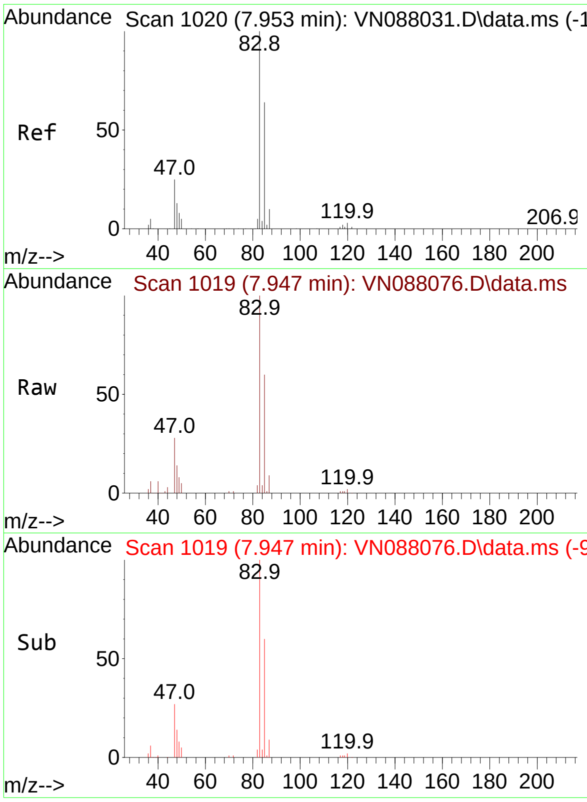
#15
Acetone
Concen: 765.813 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion: 58 Resp: 587860

Ion	Ratio	Lower	Upper
58	100		
43	342.8	282.6	424.0



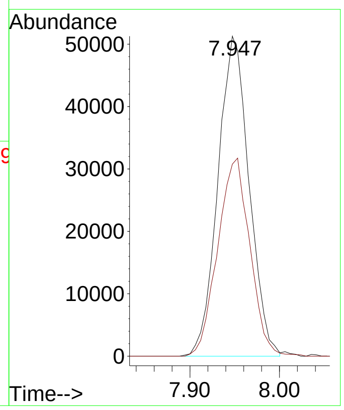
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

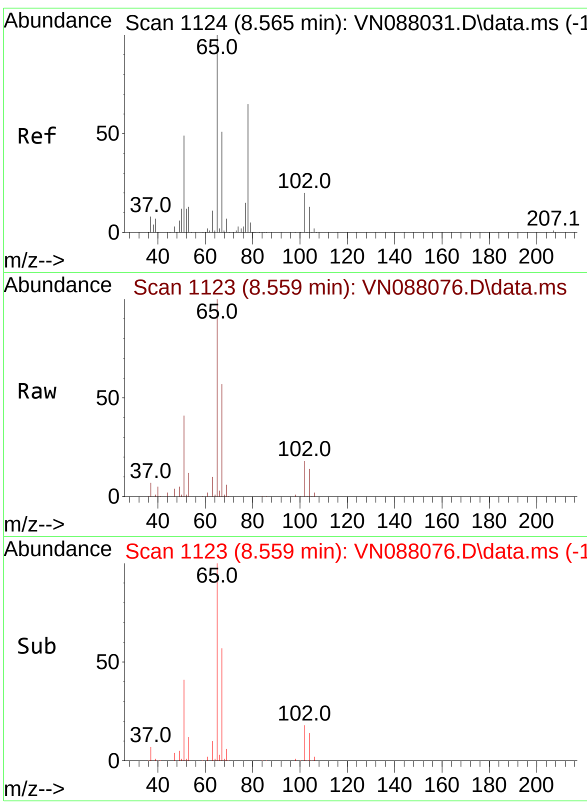


#25
Chloroform
Concen: 16.068 ug/l
RT: 7.947 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion: 83 Resp: 123897

Ion	Ratio	Lower	Upper
83	100		
85	60.0	50.9	76.3

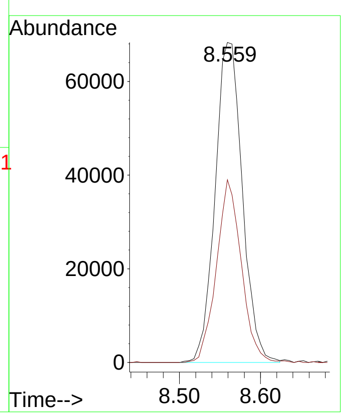




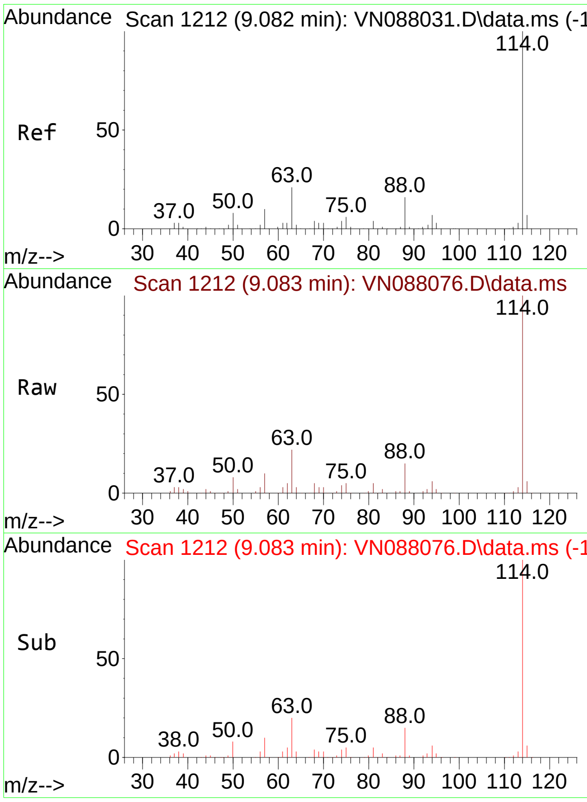
#27
1,2-Dichloroethane-d4
Concen: 32.297 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion: 65 Resp: 159806

Ion	Ratio	Lower	Upper
65	100		
67	52.0	41.9	62.9



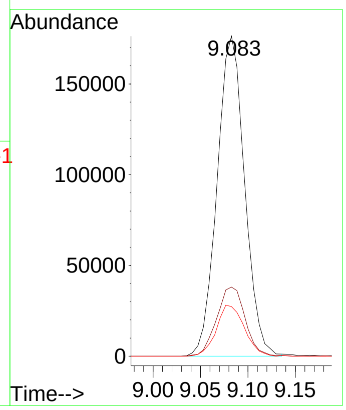
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

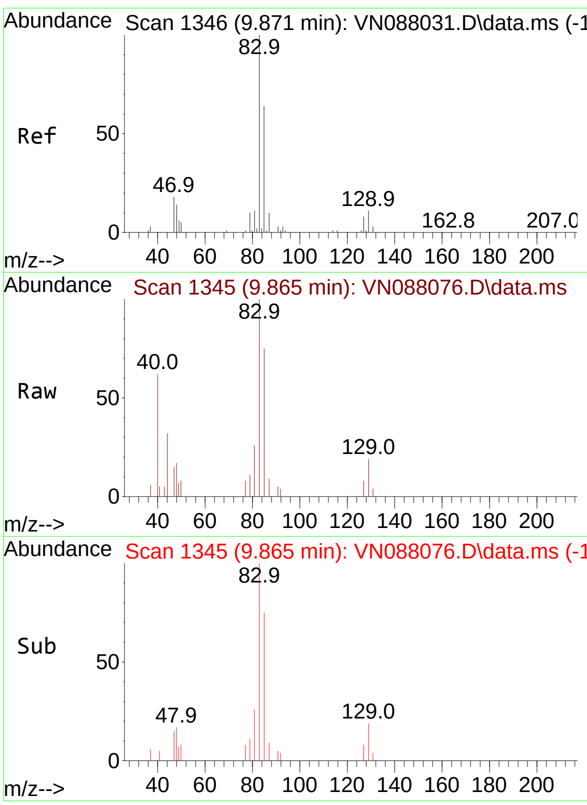


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion:114 Resp: 356820

Ion	Ratio	Lower	Upper
114	100		
63	22.3	16.6	25.0
88	16.2	12.6	18.8

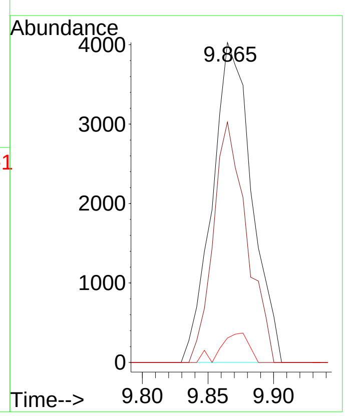




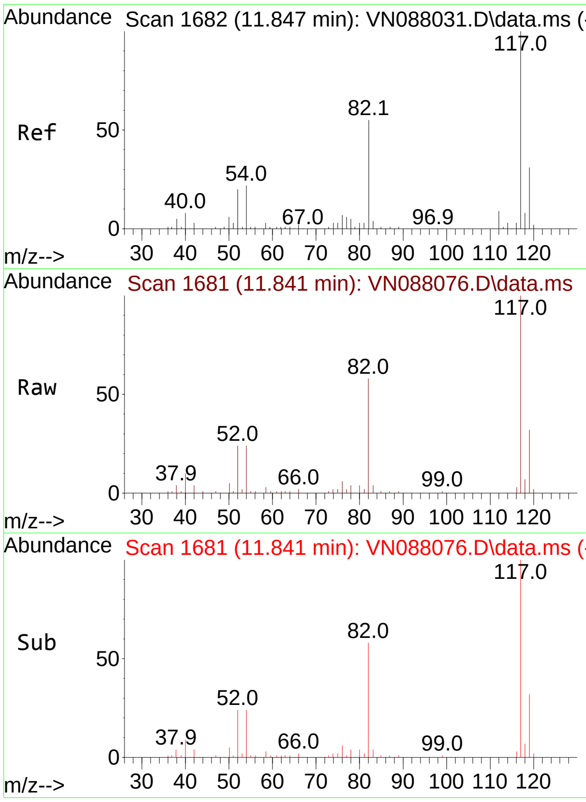
#41
Bromodichloromethane
Concen: 1.333 ug/l
RT: 9.865 min Scan# 1345
Delta R.T. -0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion: 83 Resp: 8427

Ion	Ratio	Lower	Upper
83	100		
85	75.1	51.0	76.4
127	7.6	6.1	9.1



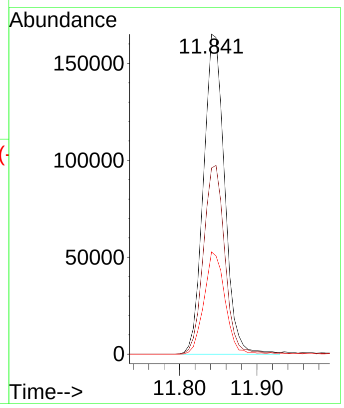
Instrument : MSVOA_N
ClientSampleId : EFF-WW

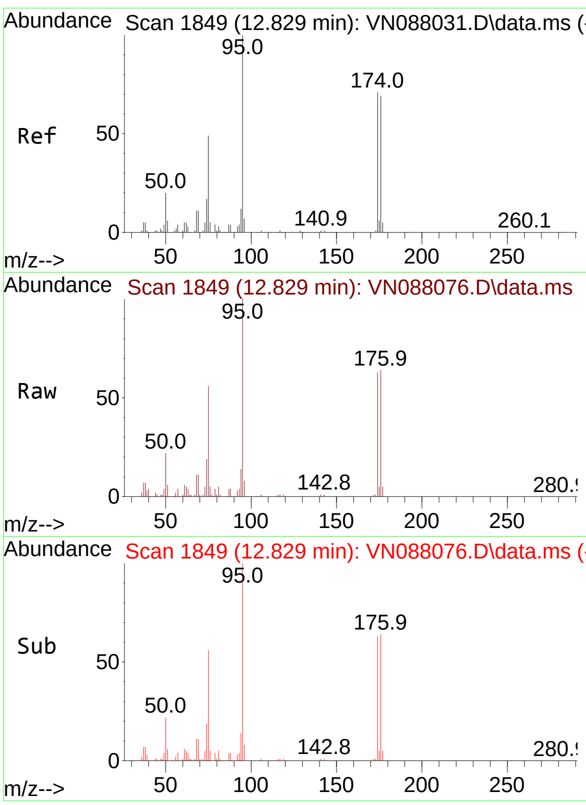


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion:117 Resp: 313448

Ion	Ratio	Lower	Upper
117	100		
82	59.6	45.2	67.8
119	31.7	25.9	38.9

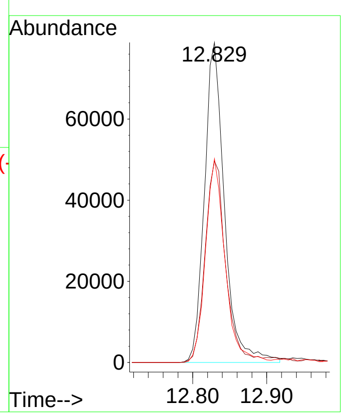


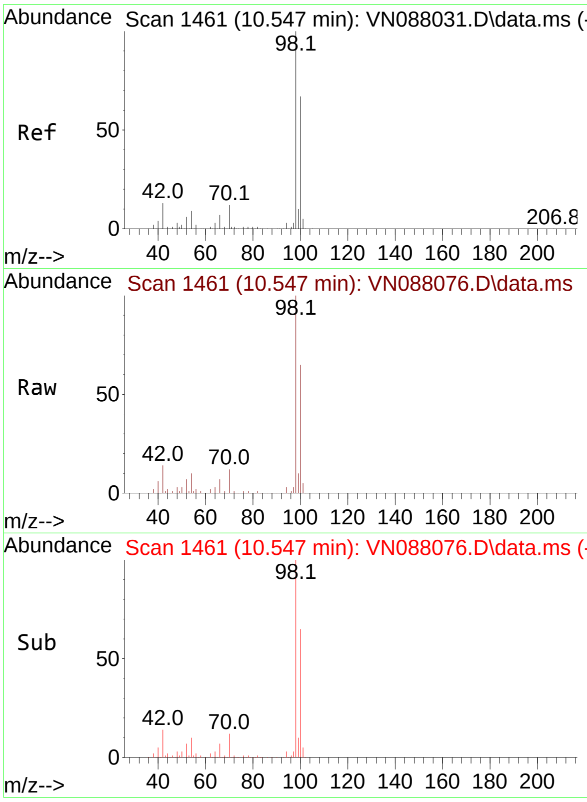


#60
4-Bromofluorobenzene
Concen: 28.813 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion: 95 Resp: 148887

Ion	Ratio	Lower	Upper
95	100		
174	64.3	57.4	86.0
176	62.3	57.0	85.4



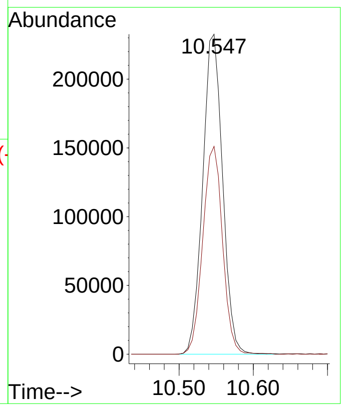


#63
Toluene-d8
Concen: 31.059 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 98 Resp: 433757

Ion	Ratio	Lower	Upper
98	100		
100	64.2	53.1	79.7



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TECHNICAL GROUP

CALIBRATION SUMMARY

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance   Contract: ARDM01

Lab Code: ACE   SDG No.: Q3385

Instrument ID: MSVOA_N   Calibration Date(s): 10/08/2025 10/08/2025

Heated Purge: (Y/N) N   Calibration Time(s): 09:34 11:12

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

LAB FILE ID:	RRF005 = VN088030.D		RRF020 = VN088031.D		RRF050 = VN088032.D		
	RRF100 = VN088033.D		RRF150 = VN088034.D		RRF =		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Chloromethane	1.918	1.942	1.878	2.057	1.945		1.948	3.4
Vinyl Chloride	2.020	2.044	1.970	2.142	1.981		2.031	3.4
Bromomethane	1.037	1.041	1.067	1.211	1.105		1.092	6.6
Chloroethane	1.430	1.330	1.281	1.393	1.265		1.340	5.3
Trichlorofluoromethane	2.820	2.737	2.698	2.902	2.655		2.762	3.6
1,1-Dichloroethene	1.710	1.559	1.529	1.593	1.496		1.577	5.2
Acrolein	0.452	0.353	0.360	0.411	0.408		0.397	10.3
Acrylonitrile	1.269	1.221	1.203	1.302	1.193		1.238	3.7
Methylene Chloride	2.188	1.946	1.946	2.049	1.895		2.005	5.8
trans-1,2-Dichloroethene	1.892	1.826	1.733	1.891	1.776		1.824	3.8
1,1-Dichloroethane	3.634	3.511	3.377	3.682	3.433		3.528	3.7
Carbon Tetrachloride	0.457	0.445	0.435	0.475	0.439		0.450	3.6
Chloroform	3.927	3.583	3.492	3.728	3.472		3.640	5.2
1,1,1-Trichloroethane	0.564	0.539	0.513	0.557	0.514		0.537	4.4
Benzene	1.491	1.402	1.366	1.489	1.384		1.426	4.2
1,2-Dichloroethane	0.517	0.490	0.473	0.514	0.482		0.495	4
Trichloroethene	0.358	0.334	0.322	0.351	0.324		0.338	4.8
1,2-Dichloropropane	0.379	0.350	0.337	0.375	0.347		0.358	5.1
Bromodichloromethane	0.571	0.517	0.502	0.556	0.512		0.532	5.6
Toluene	1.796	1.700	1.645	1.730	1.638		1.702	3.8
t-1,3-Dichloropropene	0.587	0.570	0.571	0.637	0.590		0.591	4.6
cis-1,3-Dichloropropene	0.628	0.604	0.589	0.655	0.607		0.617	4.1
1,1,2-Trichloroethane	0.366	0.338	0.331	0.357	0.332		0.345	4.5
2-Chloroethyl vinyl ether	0.290	0.319	0.313	0.338	0.314		0.315	5.4
Dibromochloromethane	0.415	0.400	0.398	0.443	0.405		0.412	4.6
Tetrachloroethene	0.323	0.306	0.293	0.309	0.287		0.304	4.6
Chlorobenzene	1.118	1.084	1.060	1.124	1.049		1.087	3.1
Ethyl Benzene	1.902	1.839	1.800	1.919	1.792		1.850	3.1
m/p-Xylenes	0.729	0.714	0.693	0.739	0.693		0.713	2.9
o-Xylene	0.746	0.710	0.685	0.732	0.677		0.710	4.2

* 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.

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance   Contract: ARDM01

Lab Code: ACE   SDG No.: Q3385

Instrument ID: MSVOA_N   Calibration Date(s): 10/08/2025   10/08/2025

Heated Purge: (Y/N) N   Calibration Time(s): 09:34   11:12

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

LAB FILE ID: RRF005 = VN088030.D   RRF020 = VN088031.D   RRF050 = VN088032.D
RRF100 = VN088033.D   RRF150 = VN088034.D   RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Bromoform	0.269	0.265	0.273	0.306	0.281		0.279	5.8
1,1,2,2-Tetrachloroethane	0.620	0.583	0.576	0.612	0.560		0.590	4.2
1,3-Dichlorobenzene	0.810	0.804	0.798	0.835	0.755		0.800	3.6
1,4-Dichlorobenzene	0.855	0.833	0.802	0.848	0.790		0.825	3.5
1,2-Dichlorobenzene	0.821	0.786	0.766	0.819	0.744		0.787	4.3
1,2-Dichloroethane-d4	2.303	2.319	2.360	2.378	2.319		2.336	1.4
Toluene-d8	1.344	1.343	1.333	1.329	1.334		1.337	0.5
4-Bromofluorobenzene	0.488	0.497	0.493	0.507	0.489		0.495	1.5

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 624N100825W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Thu Oct 09 02:36:32 2025
Response Via : Initial Calibration

Calibration Files
5 =VN088030.D 20 =VN088031.D 50 =VN088032.D 100 =VN088033.D 150 =VN088034.D

#		Compound	5	20	50	100	150	Avg	%RSD
1)	I	Bromochloromethane	----------------ISTD--------------------						
2)	M	Dichlorodifluoro...	1.490	1.788	1.711	1.867	1.736	1.718	8.19
3)	M	Chloromethane	1.918	1.942	1.878	2.057	1.945	1.948	3.42
4)	M	Vinyl Chloride	2.020	2.044	1.970	2.142	1.981	2.031	3.38
5)	M	Bromomethane	1.037	1.041	1.067	1.211	1.105	1.092	6.58
6)	M	Chloroethane	1.430	1.330	1.281	1.393	1.265	1.340	5.28
7)	M	Trichlorofluorom...	2.820	2.737	2.698	2.902	2.655	2.762	3.59
8)	T	Diethyl Ether	1.353	1.224	1.198	1.288	1.177	1.248	5.75
9)		1,1,2-Trichlorot...	1.510	1.460	1.453	1.558	1.412	1.479	3.81
10)	M	1,1-Dichloroethene	1.710	1.559	1.529	1.593	1.496	1.577	5.22
11)		Methyl Iodide	0.781	1.201	1.541	1.911	1.834	1.454	32.23
12)		Methyl Acetate	2.679	2.533	2.442	2.697	2.471	2.564	4.60
13)	M	Acrolein	0.452	0.353	0.360	0.411	0.408	0.397	10.34
14)	M	Acrylonitrile	1.269	1.221	1.203	1.302	1.193	1.237	3.72
15)	M	Acetone	0.419	0.365	0.346	0.362	0.320	0.362	10.07
16)	M	Carbon Disulfide	5.111	4.866	4.796	5.172	4.779	4.945	3.72
17)		Allyl chloride	3.248	2.939	2.812	3.033	2.850	2.976	5.85
18)	M	Methylene Chloride	2.188	1.946	1.946	2.049	1.895	2.005	5.82
19)	M	trans-1,2-Dichlo...	1.892	1.826	1.733	1.891	1.776	1.824	3.84
20)	T	Diisopropyl ether	6.682	6.730	6.581	7.169	6.720	6.776	3.35
21)	M	1,1-Dichloroethane	3.634	3.511	3.377	3.682	3.433	3.528	3.67
22)	M	cis-1,2-Dichloro...	2.393	2.264	2.205	2.381	2.172	2.283	4.40
23)	M	tert-Butyl Alcohol	0.549	0.494	0.481	0.511	0.446	0.496	7.68
24)	M	Methyl tert-Buty...	7.020	6.709	6.609	7.119	6.586	6.809	3.60
25)	M	Chloroform	3.927	3.583	3.492	3.728	3.472	3.640	5.20
26)		Cyclohexane	2.967	2.964	2.826	3.030	2.827	2.923	3.13
27)	s	1,2-Dichloroetha...	2.303	2.319	2.360	2.378	2.319	2.336	1.36
28)	I	1,4-Difluorobenzene	----------------ISTD--------------------						
29)		1,1-Dichloropropene	0.443	0.421	0.413	0.452	0.422	0.430	3.84
30)	M	2-Butanone	0.330	0.315	0.305	0.333	0.303	0.317	4.43
31)		2,2-Dichloropropane	0.613	0.550	0.528	0.565	0.514	0.554	6.95
32)	M	1,1,1-Trichloroe...	0.564	0.539	0.513	0.557	0.514	0.537	4.41
33)	M	Carbon Tetrachlo...	0.457	0.445	0.435	0.475	0.439	0.450	3.60
34)	M	Benzene	1.491	1.402	1.366	1.489	1.384	1.426	4.17
35)		Methacrylonitrile	0.349	0.333	0.326	0.343	0.316	0.334	3.89
36)	M	1,2-Dichloroethane	0.517	0.490	0.473	0.514	0.482	0.495	3.97
37)	M	Trichloroethene	0.358	0.334	0.322	0.351	0.324	0.338	4.79
38)		Methylcyclohexane	0.560	0.522	0.513	0.555	0.506	0.531	4.67
39)	M	1,2-Dichloropropane	0.379	0.350	0.337	0.375	0.347	0.358	5.08
40)		Dibromomethane	0.270	0.258	0.251	0.271	0.251	0.260	3.85
41)	M	Bromodichloromet...	0.571	0.517	0.502	0.556	0.512	0.532	5.61
42)	M	Vinyl Acetate	1.073	1.006	1.017	1.195	1.111	1.080	7.13
43)		Ethyl Acetate	0.627	0.609	0.570	0.653	0.590	0.610	5.26
44)		Isopropyl Acetate	0.988	0.978	0.970	1.061	0.982	0.996	3.72
45)	T	1,4-Dioxane	0.007	0.007	0.007	0.007	0.006	0.007	8.01
46)		Methyl methacrylate	0.453	0.385	0.430	0.480	0.443	0.439	7.98
47)		n-amyl Acetate	0.377	0.459	0.444	0.504	0.576	0.472	15.62
48)	M	t-1,3-Dichloropr...	0.587	0.570	0.571	0.637	0.590	0.591	4.63
49)	T	cis-1,3-Dichloro...	0.628	0.604	0.589	0.655	0.607	0.617	4.12
50)	M	1,1,2-Trichloroe...	0.366	0.338	0.331	0.357	0.332	0.345	4.53
51)		Ethyl methacrylate	0.512	0.552	0.583	0.659	0.611	0.583	9.57
52)		1,3-Dichloropropane	0.612	0.593	0.576	0.642	0.585	0.601	4.36
53)	M	Dibromochloromet...	0.415	0.400	0.398	0.443	0.405	0.412	4.56
54)	M	1,2-Dibromoethane	0.381	0.359	0.352	0.391	0.360	0.369	4.55
55)	M	2-Chloroethyl vi...	0.290	0.319	0.313	0.338	0.314	0.315	5.39
56)	M	Bromoform	0.269	0.265	0.273	0.306	0.281	0.279	5.81

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 624N100825W.M

57)	I	Chlorobenzene-d5	----------------ISTD--------------------						
58)	M	4-Methyl-2-Penta...	0.679	0.671	0.657	0.702	0.646	0.671	3.21
59)	M	2-Hexanone	0.360	0.437	0.456	0.500	0.463	0.443	11.67
60)	S	4-Bromofluoroben...	0.488	0.497	0.493	0.507	0.489	0.495	1.54
61)	M	Tetrachloroethene	0.323	0.306	0.293	0.309	0.287	0.304	4.62
62)	M	Toluene	1.796	1.700	1.645	1.730	1.638	1.702	3.81
63)	S	Toluene-d8	1.344	1.343	1.333	1.329	1.334	1.337	0.50
64)	M	Chlorobenzene	1.118	1.084	1.059	1.124	1.049	1.087	3.07
65)		1,1,1,2-Tetrachl...	0.382	0.382	0.369	0.383	0.357	0.375	2.99
66)	M	Ethyl Benzene	1.902	1.839	1.800	1.919	1.792	1.850	3.13
67)	M	m/p-Xylenes	0.729	0.714	0.693	0.739	0.693	0.713	2.89
68)	M	o-Xylene	0.746	0.710	0.685	0.732	0.677	0.710	4.17
69)	M	Styrene	1.155	1.133	1.178	1.245	1.162	1.175	3.63
70)		Isopropylbenzene	1.791	1.721	1.707	1.804	1.679	1.740	3.14
71)	M	1,1,2,2-Tetrachl...	0.620	0.583	0.576	0.612	0.560	0.590	4.22
72)		1,2,3-Trichlorop...	0.580	0.517	0.547	0.571	0.524	0.548	5.03
73)		Bromobenzene	0.431	0.428	0.422	0.439	0.407	0.425	2.88
74)		n-propylbenzene	2.089	2.082	2.067	2.224	2.043	2.101	3.37
75)		2-Chlorotoluene	1.299	1.273	1.252	1.352	1.248	1.285	3.31
76)		1,3,5-Trimethylb...	1.521	1.464	1.453	1.548	1.405	1.478	3.84
77)		t-1,4-Dichloro-2...	0.202	0.196	0.214	0.248	0.232	0.218	9.81
78)		4-Chlorotoluene	1.254	1.296	1.295	1.393	1.288	1.305	3.96
79)		tert-butylbenzene	1.295	1.287	1.268	1.342	1.215	1.282	3.59
80)		1,2,4-Trimethylb...	1.505	1.473	1.453	1.563	1.406	1.480	3.95
81)		sec-Butylbenzene	1.842	1.802	1.770	1.884	1.712	1.802	3.65
82)		p-Isopropyltoluene	1.590	1.540	1.522	1.603	1.437	1.538	4.29
83)	M	1,3-Dichlorobenzene	0.810	0.804	0.798	0.835	0.755	0.800	3.61
84)	M	1,4-Dichlorobenzene	0.855	0.833	0.802	0.848	0.790	0.825	3.48
85)		n-Butylbenzene	1.435	1.433	1.420	1.506	1.362	1.431	3.58
86)	T	Hexachloroethane	0.326	0.303	0.304	0.317	0.291	0.308	4.32
87)	M	1,2-Dichlorobenzene	0.821	0.786	0.766	0.819	0.744	0.787	4.26
88)		1,2-Dibromo-3-Ch...	0.134	0.140	0.133	0.141	0.129	0.136	3.68
89)		1,2,4-Trichlorob...	0.467	0.470	0.455	0.493	0.460	0.469	3.10
90)		Hexachlorobutadiene	0.177	0.160	0.162	0.166	0.152	0.163	5.60
91)	M	Naphthalene	1.691	1.709	1.674	1.820	1.690	1.717	3.44
92)		1,2,3-Trichlorob...	0.467	0.470	0.455	0.493	0.460	0.469	3.10

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088030.D
Acq On : 08 Oct 2025 09:34
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda
10/10/2025

Quant Time: Oct 09 02:00:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.800	128	70500	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.083	114	388491	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.847	117	345679	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.565	65	162371	29.577	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.600%				
60) 4-Bromofluorobenzene	12.829	95	168531	29.574	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.567%				
63) Toluene-d8	10.547	98	464668	30.170	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.567%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.142	85	17512	4.337	ug/l		91
3) Chloromethane	2.383	50	22534	4.922	ug/l		89
4) Vinyl Chloride	2.536	62	23730	4.971	ug/l		100
5) Bromomethane	2.977	94	12182	4.746	ug/l		89
6) Chloroethane	3.136	64	16801	5.336	ug/l		99
7) Trichlorofluoromethane	3.506	101	33130	5.104	ug/l		93
8) Diethyl Ether	3.965	74	15893	5.419	ug/l		56
9) 1,1,2-Trichlorotrifluo...	4.365	101	17744	5.106	ug/l		91
10) 1,1-Dichloroethene	4.336	96	20091	5.420	ug/l		87
11) Methyl Iodide	4.571	142	9178m	2.686	ug/l		
12) Methyl Acetate	5.018	43	31482m	5.370	ug/l		
13) Acrolein	4.171	56	26567	28.489	ug/l	#	1
14) Acrylonitrile	5.706	53	74537	25.631	ug/l	#	89
15) Acetone	4.418	58	24635m	28.837	ug/l		
16) Carbon Disulfide	4.700	76	60049	5.168	ug/l		97
17) Allyl chloride	5.018	41	38166m	5.456	ug/l		
18) Methylene Chloride	5.271	84	25710m	5.457	ug/l		
19) trans-1,2-Dichloroethene	5.777	96	22235	5.188	ug/l	#	91
20) Diisopropyl ether	6.659	45	78511	4.930	ug/l		98
21) 1,1-Dichloroethane	6.553	63	42704	5.151	ug/l		96
22) cis-1,2-Dichloroethene	7.471	96	28117	5.241	ug/l		97
23) tert-Butyl Alcohol	5.524	59	32274	27.671	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	82482	5.155	ug/l		96
25) Chloroform	7.947	83	46137	5.393	ug/l		92
26) Cyclohexane	8.241	56	34857	5.075	ug/l	#	98
29) 1,1-Dichloropropene	8.353	75	28652	5.145	ug/l		95
30) 2-Butanone	7.471	43	106757	25.994	ug/l		100
31) 2,2-Dichloropropane	7.471	77	39713m	5.527	ug/l		
32) 1,1,1-Trichloroethane	8.147	97	36518	5.248	ug/l		98
33) Carbon Tetrachloride	8.347	117	29564	5.072	ug/l		93
34) Benzene	8.583	78	96524	5.226	ug/l	#	81
35) Methacrylonitrile	7.771	41	22614	5.236	ug/l		95
36) 1,2-Dichloroethane	8.659	62	33473	5.220	ug/l		98
37) Trichloroethene	9.335	130	23203	5.302	ug/l		98
38) Methylcyclohexane	9.583	83	36254	5.272	ug/l		97
39) 1,2-Dichloropropane	9.606	63	24526	5.296	ug/l		97
40) Dibromomethane	9.694	93	17510	5.194	ug/l		96
41) Bromodichloromethane	9.871	83	36971	5.370	ug/l	#	97
42) Vinyl Acetate	6.594	43	347500	24.837	ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088030.D
Acq On : 08 Oct 2025 09:34
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda
10/10/2025

Quant Time: Oct 09 02:00:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Ethyl Acetate	7.553	43	40587	5.141	ug/l	#	71
44) Isopropyl Acetate	8.677	43	63965	4.961	ug/l		97
45) 1,4-Dioxane	9.683	88	8538	99.555	ug/l	#	91
46) Methyl methacrylate	9.665	41	29344	5.167	ug/l		87
47) n-amyl Acetate	12.965	43	24408m	4.308	ug/l		
48) t-1,3-Dichloropropene	10.818	75	38023	4.966	ug/l		93
49) cis-1,3-Dichloropropene	10.294	75	40685	5.094	ug/l		90
50) 1,1,2-Trichloroethane	10.994	97	23673	5.302	ug/l	#	91
51) Ethyl methacrylate	10.859	69	33154	4.388	ug/l		94
52) 1,3-Dichloropropane	11.141	76	39602	5.084	ug/l		98
53) Dibromochloromethane	11.335	129	26900	5.040	ug/l		100
54) 1,2-Dibromoethane	11.453	107	24696	5.174	ug/l		97
55) 2-Chloroethyl vinyl ether	10.141	63	93982	23.044	ug/l		98
56) Bromoform	12.559	173	17392	4.820	ug/l		92
58) 4-Methyl-2-Pentanone	10.430	43	195537	25.289	ug/l		99
59) 2-Hexanone	11.182	43	103702	20.314	ug/l		99
61) Tetrachloroethene	11.088	164	18609	5.316	ug/l		94
62) Toluene	10.612	91	103446	5.276	ug/l		98
64) Chlorobenzene	11.871	112	64403	5.142	ug/l		92
65) 1,1,1,2-Tetrachloroethane	11.941	131	21997	5.096	ug/l		93
66) Ethyl Benzene	11.941	91	109599	5.140	ug/l		92
67) m/p-Xylenes	12.053	106	83946	10.213	ug/l		100
68) o-Xylene	12.376	106	42988	5.254	ug/l		98
69) Styrene	12.394	104	66556	4.917	ug/l		99
70) Isopropylbenzene	12.676	105	103205	5.146	ug/l		97
71) 1,1,2,2-Tetrachloroethane	12.918	83	35698	5.250	ug/l		100
72) 1,2,3-Trichloropropane	12.976	75	33421m	5.064	ug/l		
73) Bromobenzene	12.959	156	24839	5.068	ug/l		99
74) n-propylbenzene	13.018	91	120356	4.971	ug/l		100
75) 2-Chlorotoluene	13.106	91	74825	5.055	ug/l		98
76) 1,3,5-Trimethylbenzene	13.153	105	87631	5.144	ug/l		97
77) t-1,4-Dichloro-2-butene	12.723	75	11665m	4.776	ug/l		
78) 4-Chlorotoluene	13.206	91	72267	4.805	ug/l		100
79) tert-butylbenzene	13.418	119	74615	5.053	ug/l		97
80) 1,2,4-Trimethylbenzene	13.459	105	86692	5.084	ug/l		99
81) sec-Butylbenzene	13.594	105	106110	5.111	ug/l		100
82) p-Isopropyltoluene	13.712	119	91611	5.168	ug/l		98
83) 1,3-Dichlorobenzene	13.712	146	46688	5.062	ug/l		97
84) 1,4-Dichlorobenzene	13.794	146	49265	5.180	ug/l		99
85) n-Butylbenzene	14.035	91	82683	5.013	ug/l		99
86) Hexachloroethane	14.306	117	18772	5.286	ug/l		91
87) 1,2-Dichlorobenzene	14.088	146	47327	5.217	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	7710	4.938	ug/l		95
89) 1,2,4-Trichlorobenzene	15.817	180	26899	4.978	ug/l		92
90) Hexachlorobutadiene	15.470	225	10187	5.417	ug/l		96
91) Naphthalene	15.617	128	97405	4.924	ug/l		98
92) 1,2,3-Trichlorobenzene	15.817	180	26899	4.978	ug/l		92

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

Quantitation Report (QT Reviewed)

ICAL Form

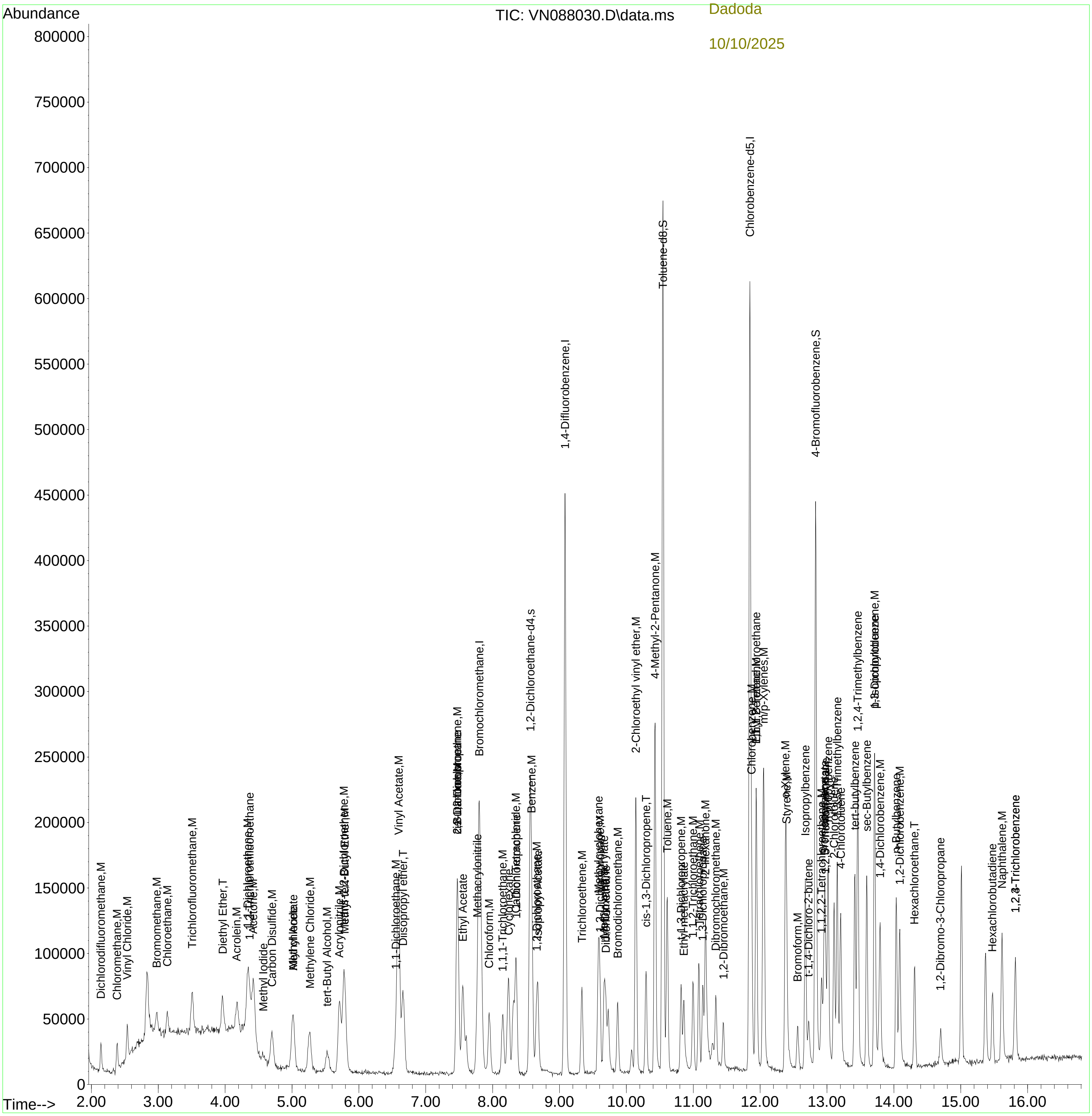
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088030.D
Acq On : 08 Oct 2025 09:34
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 02:00:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda
10/10/2025



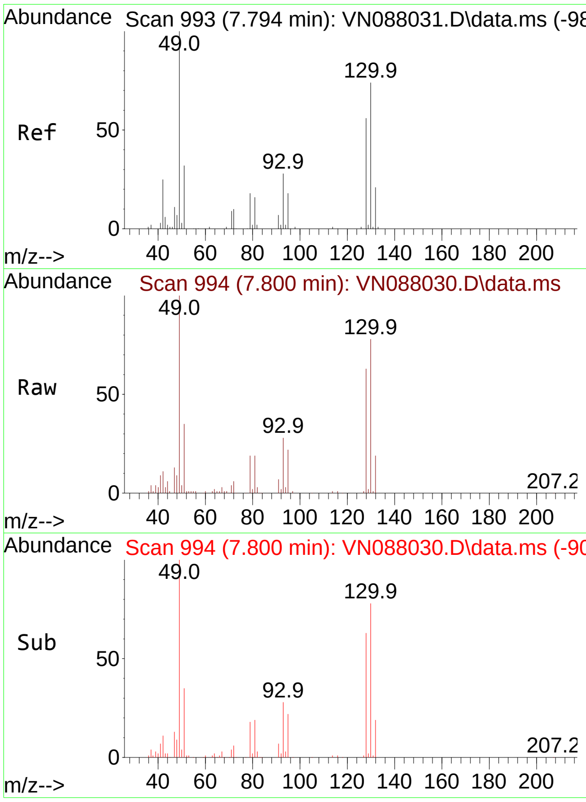
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone

10/09/2025
Supervised By :Mahesh Dadoda

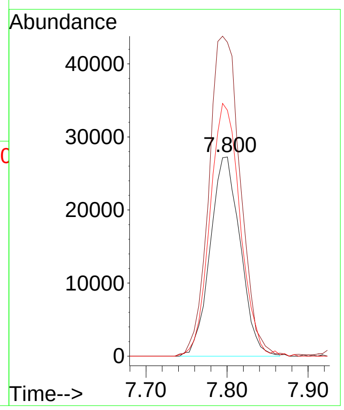
10/10/2025

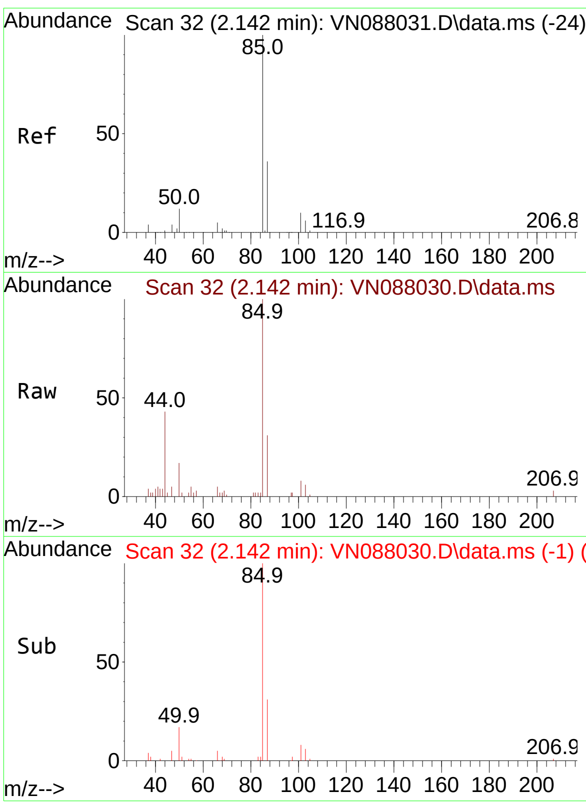


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:128 Resp: 7050

Ion	Ratio	Lower	Upper
128	100		
49	168.1	0.0	439.8
130	127.2	0.0	325.8

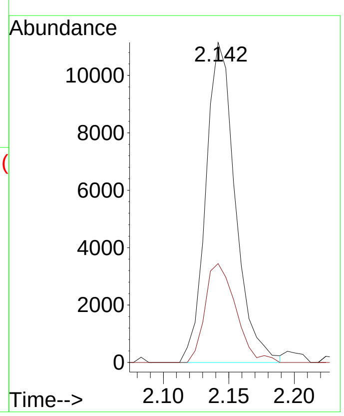




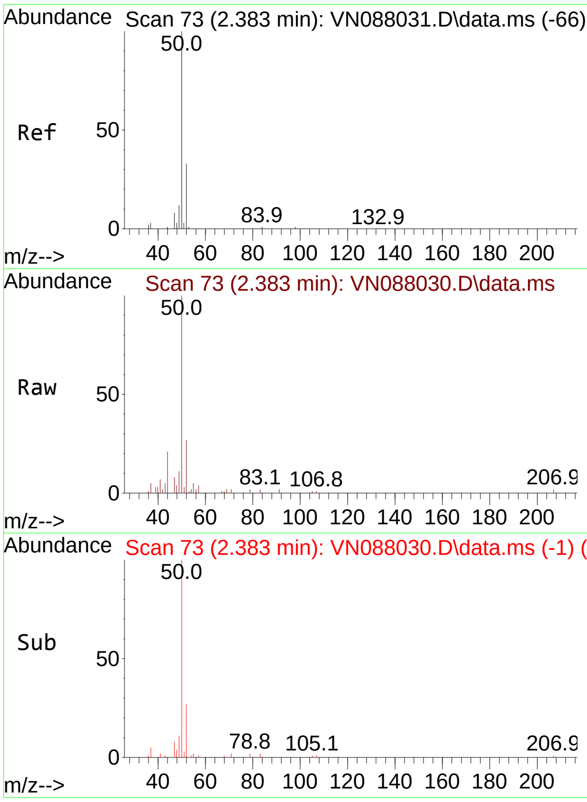
#2
Dichlorodifluoromethane
Concen: 4.337 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 85 Resp: 17512

Ion	Ratio	Lower	Upper
85	100		
87	30.9	17.9	53.8



ICAL Form



#3
Chloromethane
Concen: 4.922 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 50 Resp: 2253

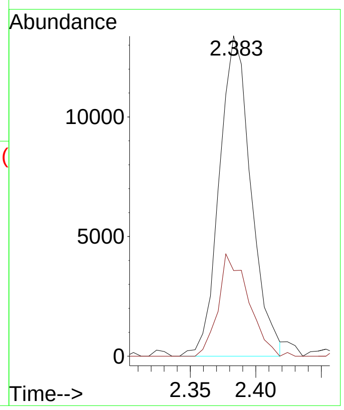
Ion	Ratio	Lower	Upper
50	100		
52	26.8	26.3	39.5

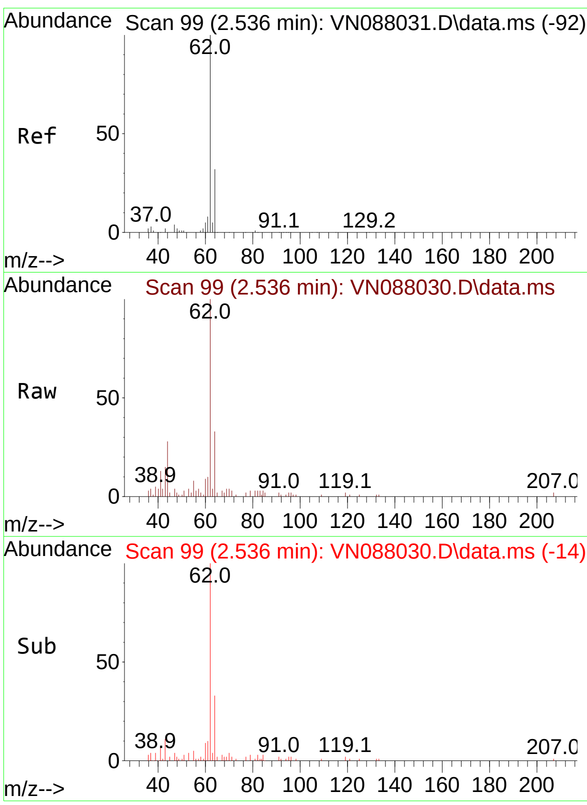
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda

10/10/2025

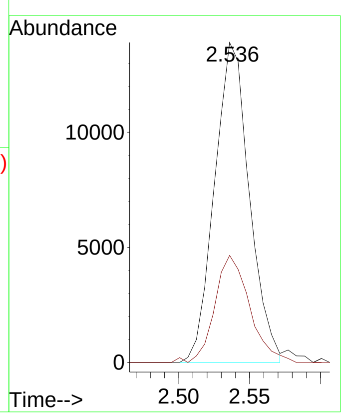




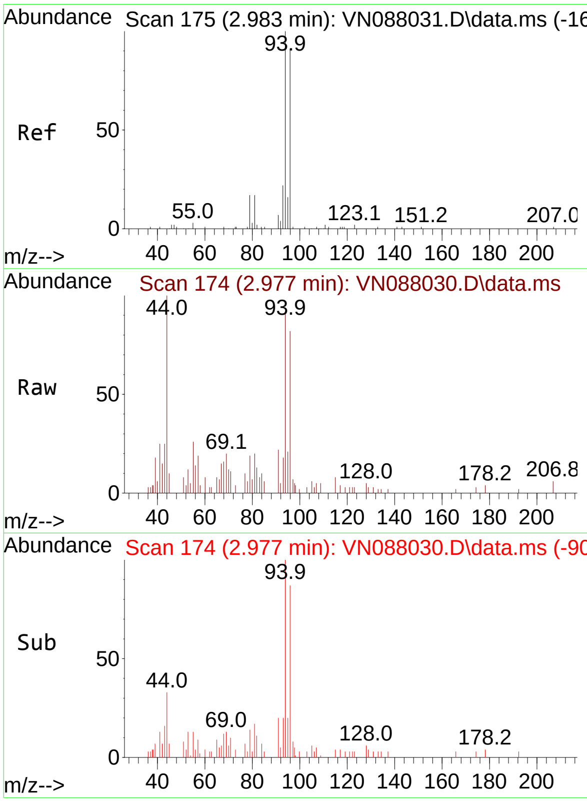
#4
Vinyl Chloride
Concen: 4.971 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 62 Resp: 23730

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.7	38.5



ICAL Form



#5
Bromomethane
Concen: 4.746 ug/l
RT: 2.977 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 94 Resp: 1218

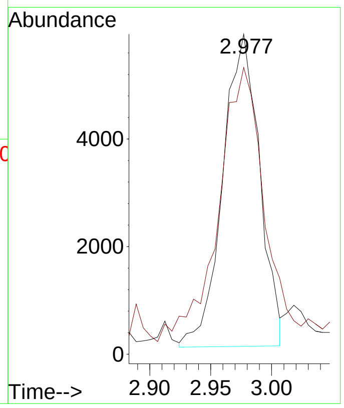
Ion	Ratio	Lower	Upper
94	100		
96	80.5	73.0	109.4

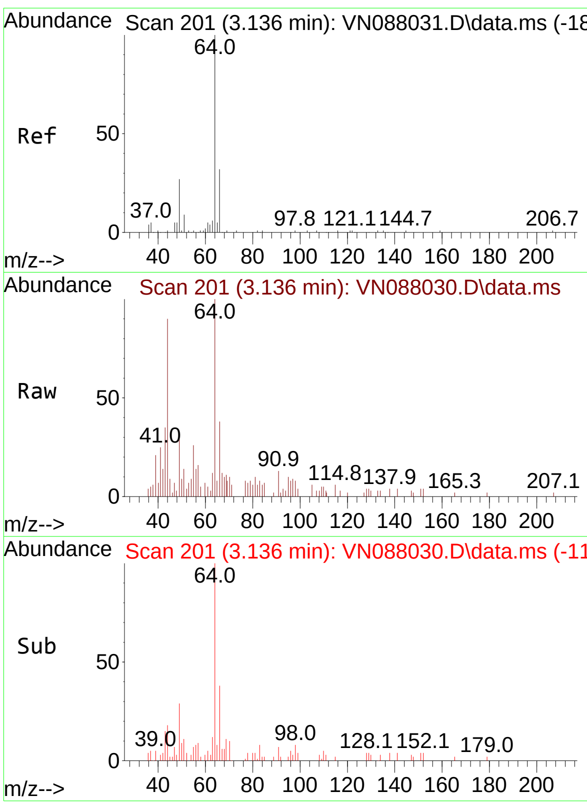
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda

10/10/2025

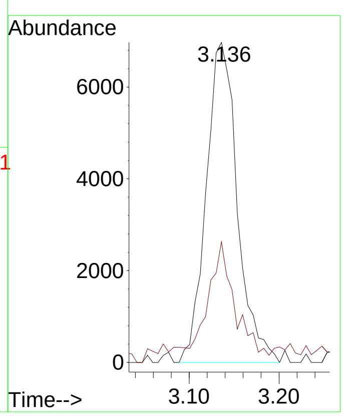


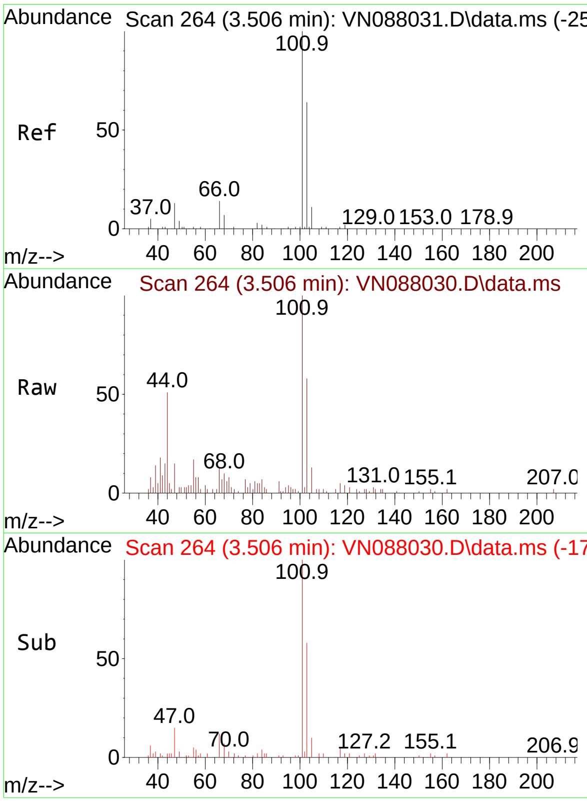


#6
Chloroethane
Concen: 5.336 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 64 Resp: 16801

Ion	Ratio	Lower	Upper
64	100		
66	33.0	26.8	40.2

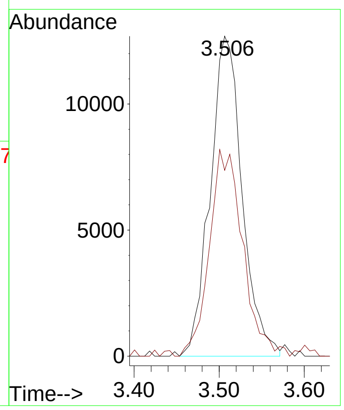




#7
Trichlorofluoromethane
Concen: 5.104 ug/l
RT: 3.506 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:101 Resp: 3313(

Ion	Ratio	Lower	Upper
101	100		
103	58.1	51.0	76.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone
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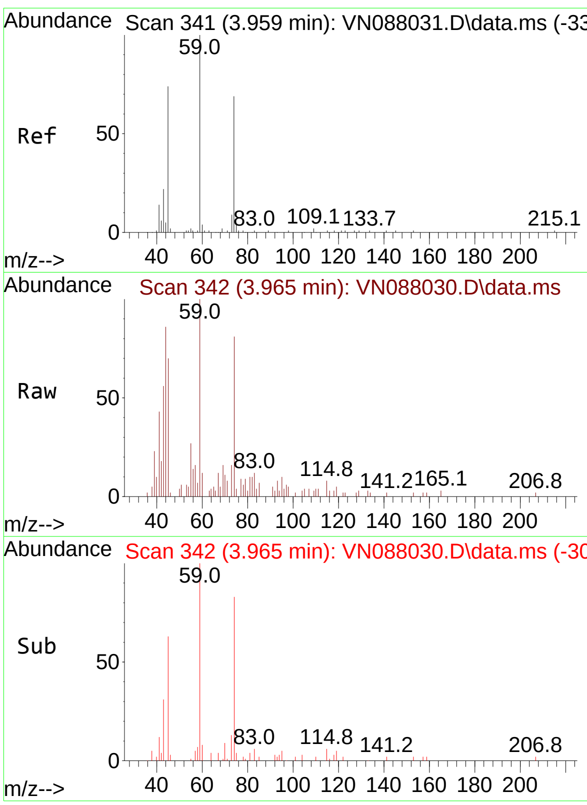
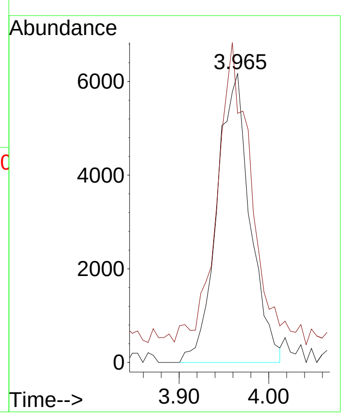
10/10/2025

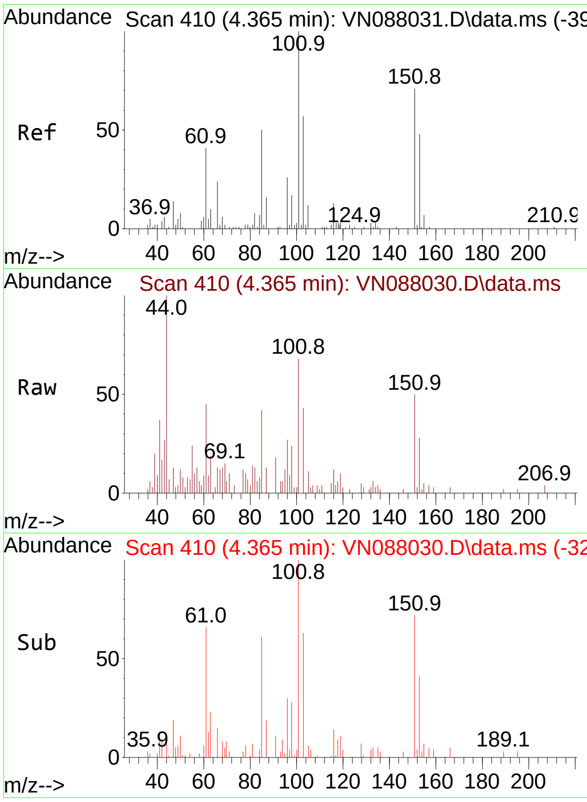


#8
Diethyl Ether
Concen: 5.419 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 74 Resp: 15893

Ion	Ratio	Lower	Upper
74	100		
45	57.6	20.4	183.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.106 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

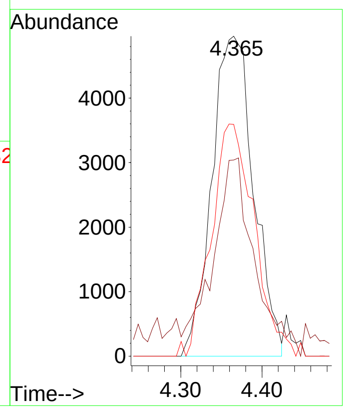
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

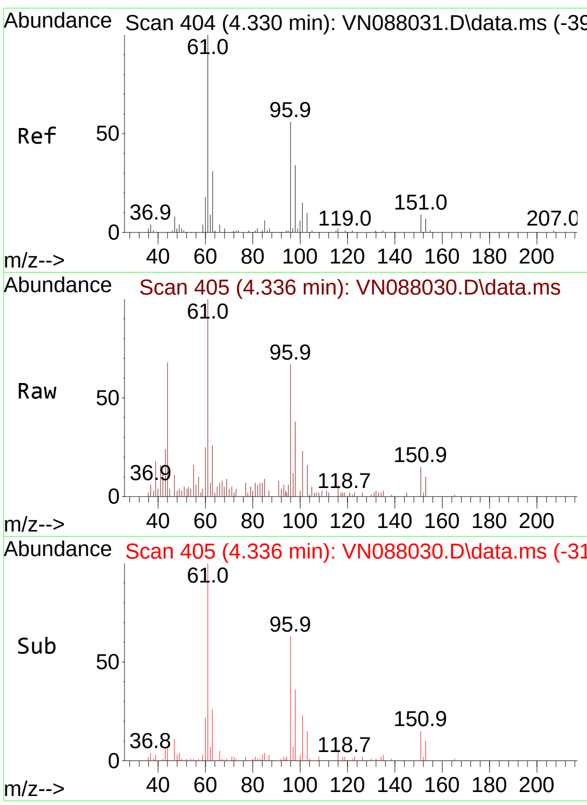
Tgt Ion:101 Resp: 1774

Ion	Ratio	Lower	Upper
101	100		
85	61.7	0.0	103.2
151	74.4	0.0	141.4

Manual Integrations APPROVED

Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda
10/10/2025

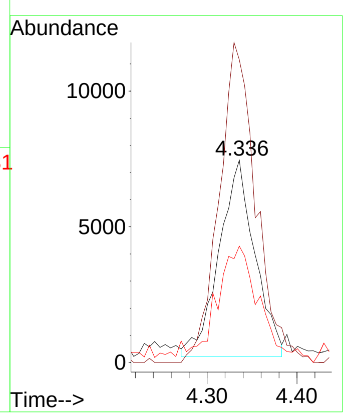




#10
1,1-Dichloroethene
Concen: 5.420 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 96 Resp: 20091

Ion	Ratio	Lower	Upper
96	100		
61	160.4	144.1	216.1
98	53.7	49.0	73.6



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda

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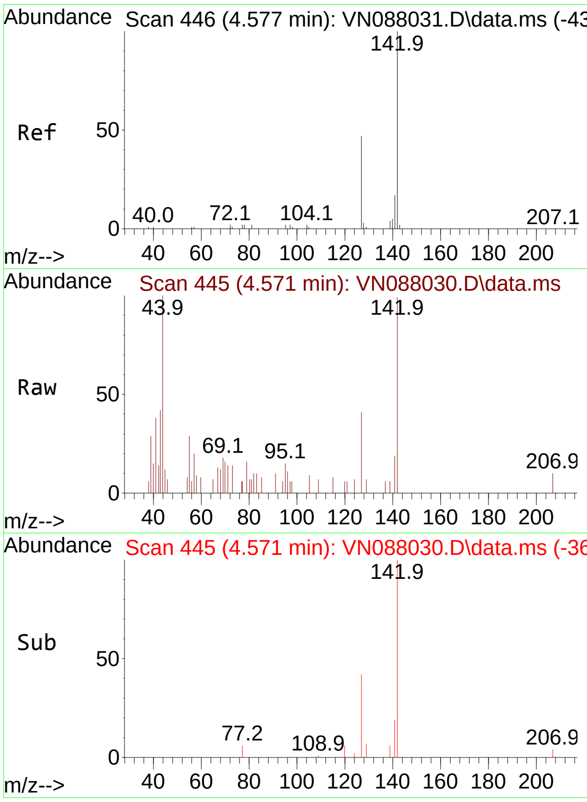
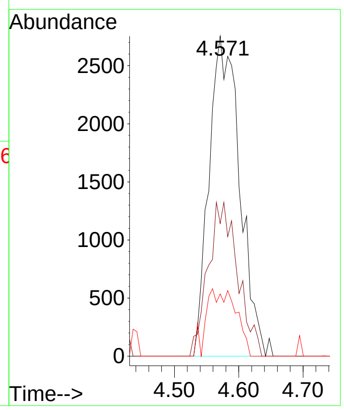
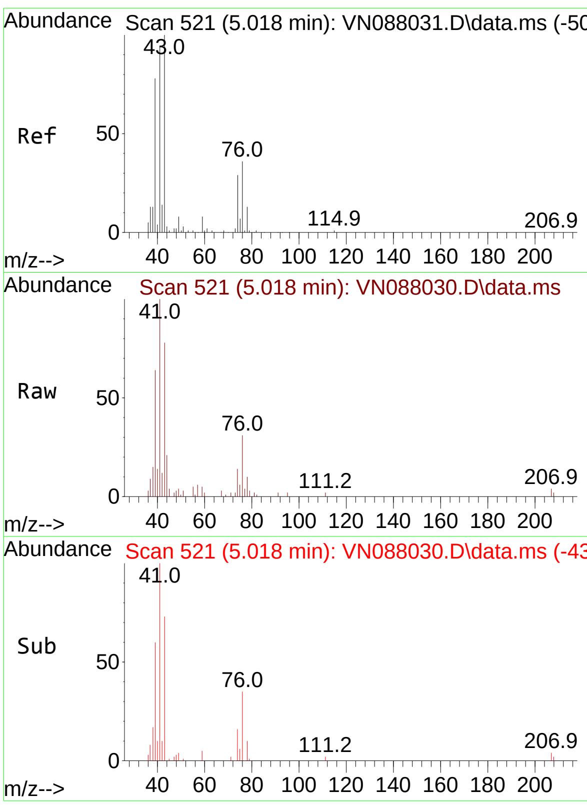


#11
Methyl Iodide
Concen: 2.686 ug/l m
RT: 4.571 min Scan# 44
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:142 Resp: 917

Ion	Ratio	Lower	Upper
142	100		
127	41.5	23.4	70.3
141	19.4	8.8	26.2

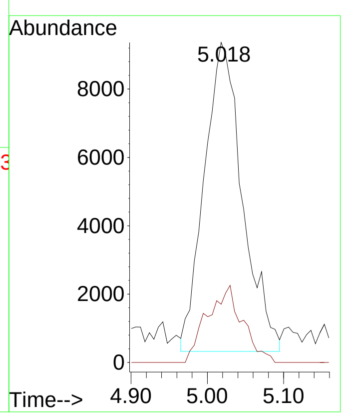




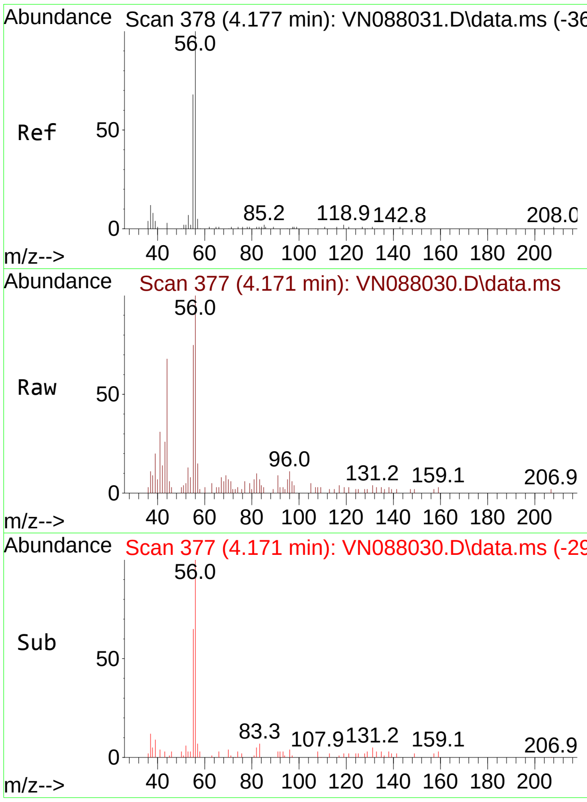
#12
Methyl Acetate
Concen: 5.370 ug/l m
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 43 Resp: 31482

Ion	Ratio	Lower	Upper
43	100		
74	18.2	23.3	34.9#



ICAL Form



#13
Acrolein
Concen: 28.489 ug/l
RT: 4.171 min   Scan# 3
Delta R.T.   -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025   09:34

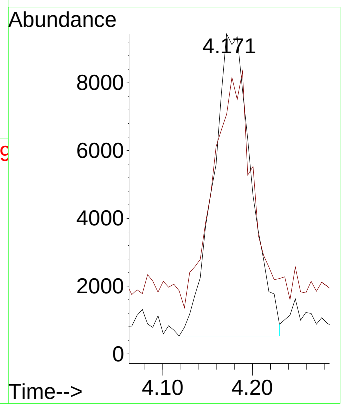
Tgt Ion: 56 Resp: 2656

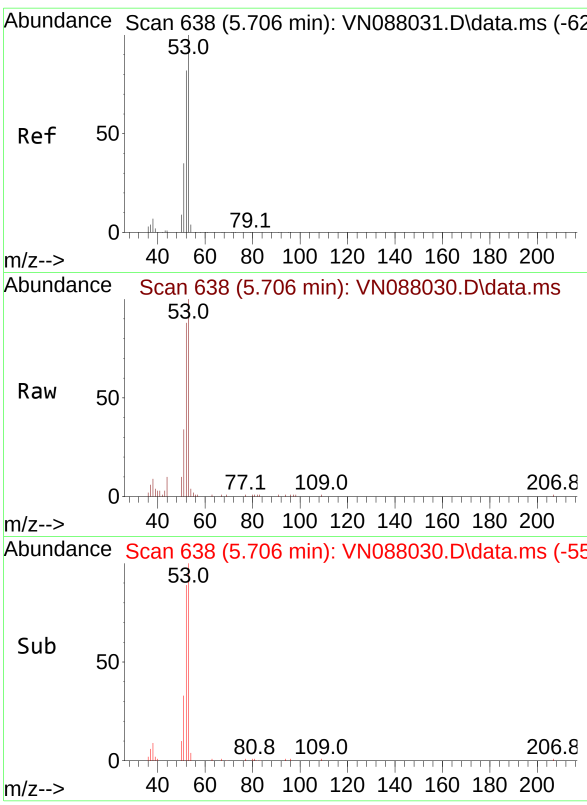
Ion	Ratio	Lower	Upper
56	100		
55	80.4	0.3	0.5#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda
10/10/2025

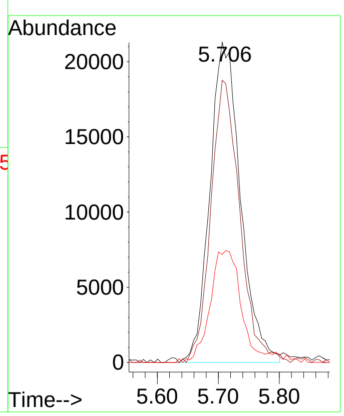




#14
Acrylonitrile
Concen: 25.631 ug/l
RT: 5.706 min   Scan# 638
Delta R.T.   0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025   09:34

Tgt Ion: 53 Resp: 74537

Ion	Ratio	Lower	Upper
53	100		
52	81.8	41.3	124.1
51	15.7	18.0	54.0#

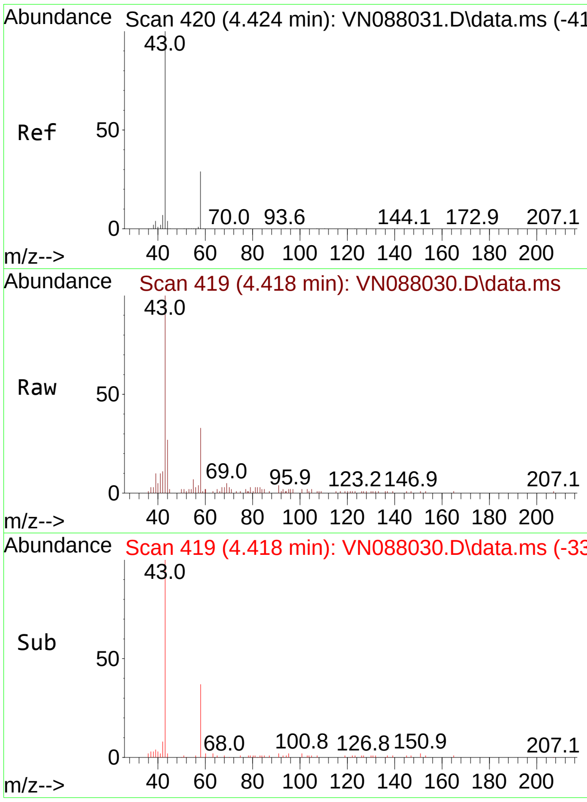


Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

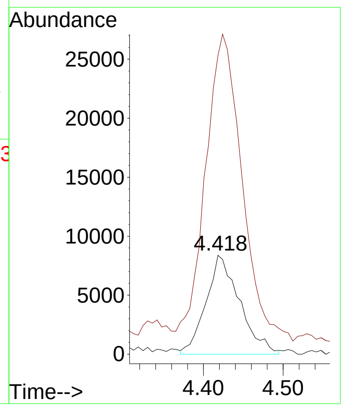
Reviewed By :John
Carlone
10/09/2025
Supervised By :Mahesh
Dadoda

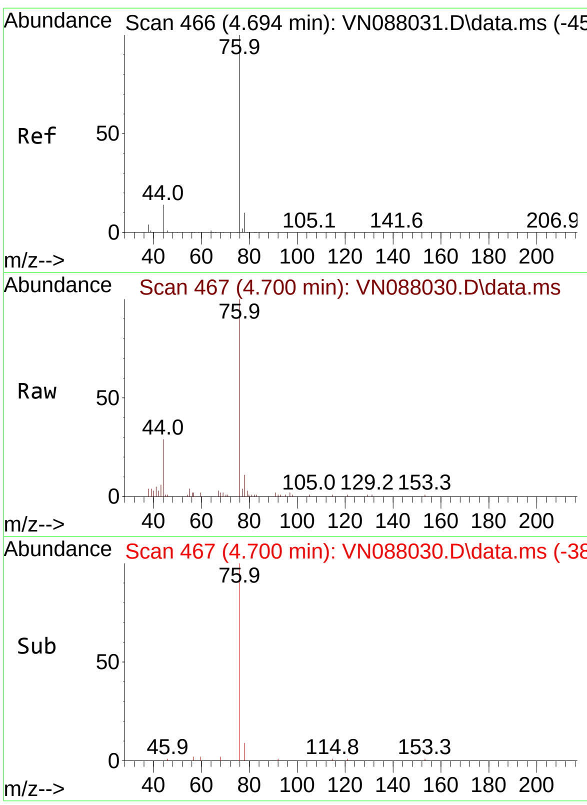
10/10/2025



#15
Acetone
Concen: 28.837 ug/l m
RT: 4.418 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

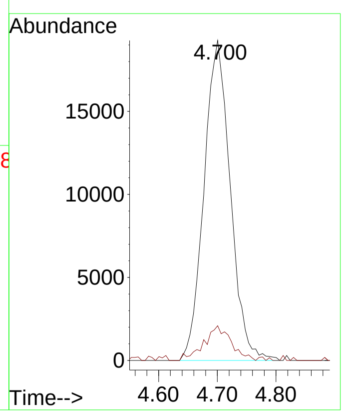
Tgt Ion: 58 Resp: 24635
Ion Ratio Lower Upper
58 100
43 302.1 282.6 424.0





#16
Carbon Disulfide
Concen: 5.168 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 76 Resp: 60049
Ion Ratio Lower Upper
76 100
78 10.8 7.8 11.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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10/09/2025
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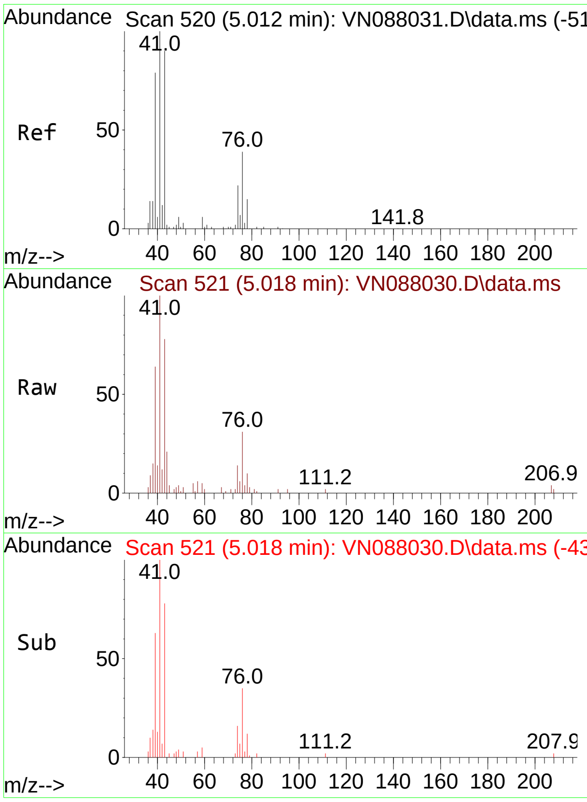
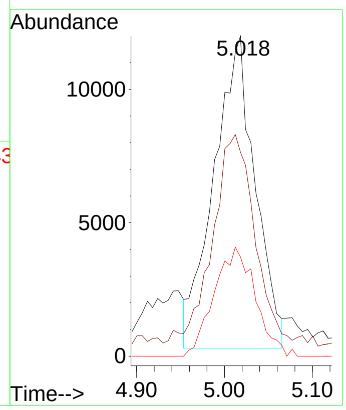
10/10/2025

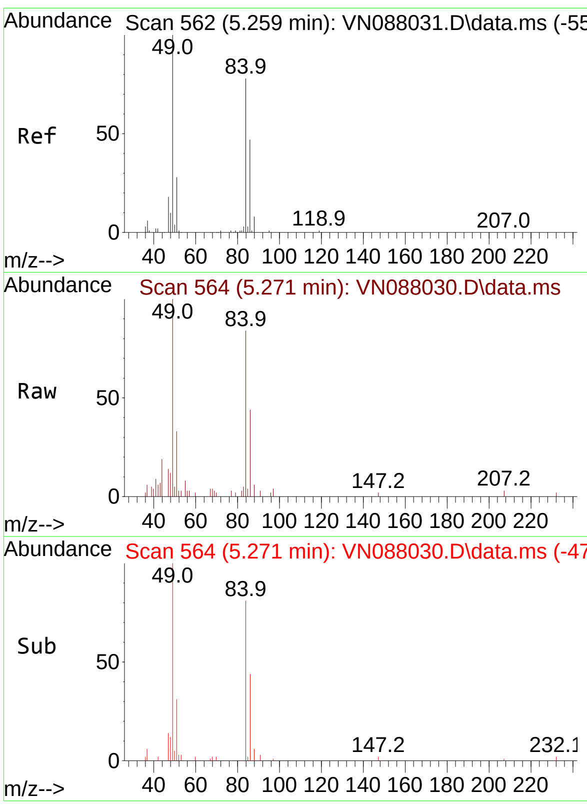


#17
Allyl chloride
Concen: 5.456 ug/l m
RT: 5.018 min   Scan# 5
Delta R.T.   0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025   09:34

Tgt Ion: 41 Resp: 3816

Ion	Ratio	Lower	Upper
41	100		
39	63.8	36.4	109.2
76	31.1	18.1	54.1

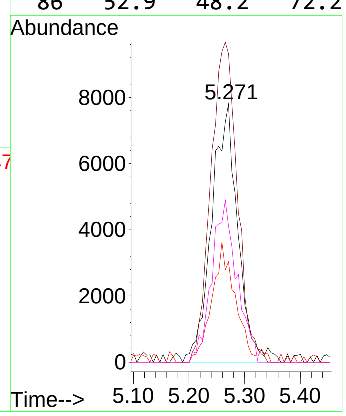




#18
Methylene Chloride
Concen: 5.457 ug/l m
RT: 5.271 min   Scan# 564
Delta R.T.   0.012 min
Lab File: VN088030.D
Acq: 08 Oct 2025   09:34

Tgt Ion: 84 Resp: 25710

Ion	Ratio	Lower	Upper
84	100		
49	119.6	102.6	153.8
51	38.9	28.6	42.8
86	52.9	48.2	72.2

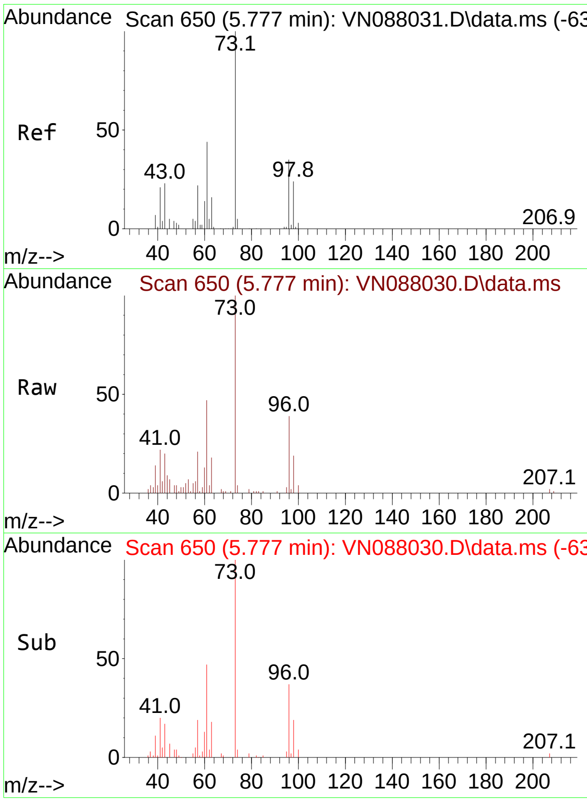


ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda

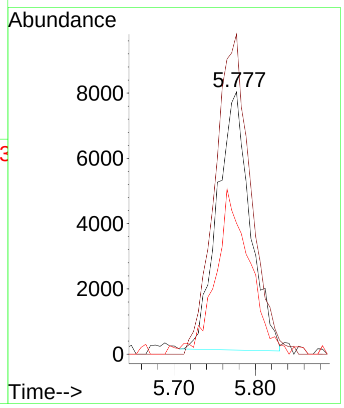
10/10/2025

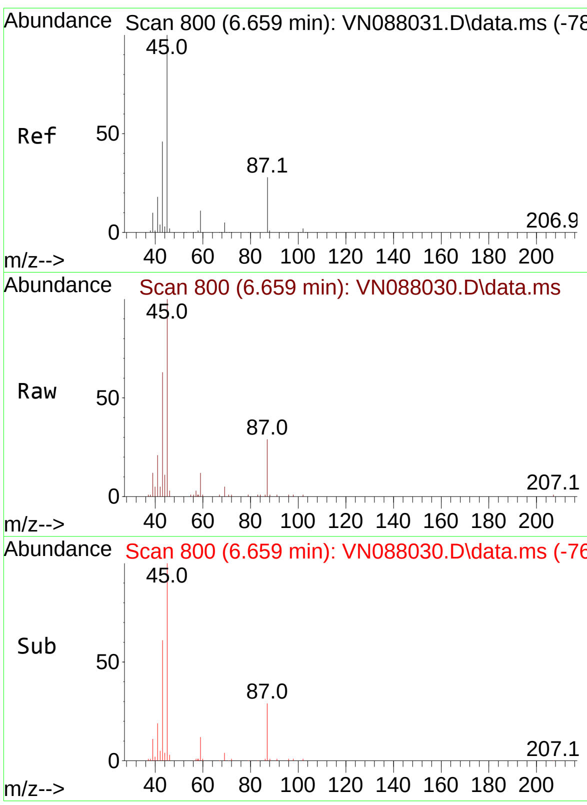


#19
trans-1,2-Dichloroethene
Concen: 5.188 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 96 Resp: 2223

Ion	Ratio	Lower	Upper
96	100		
61	124.5	100.6	151.0
98	48.8	54.0	81.0#

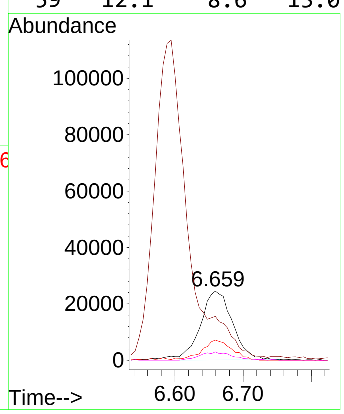




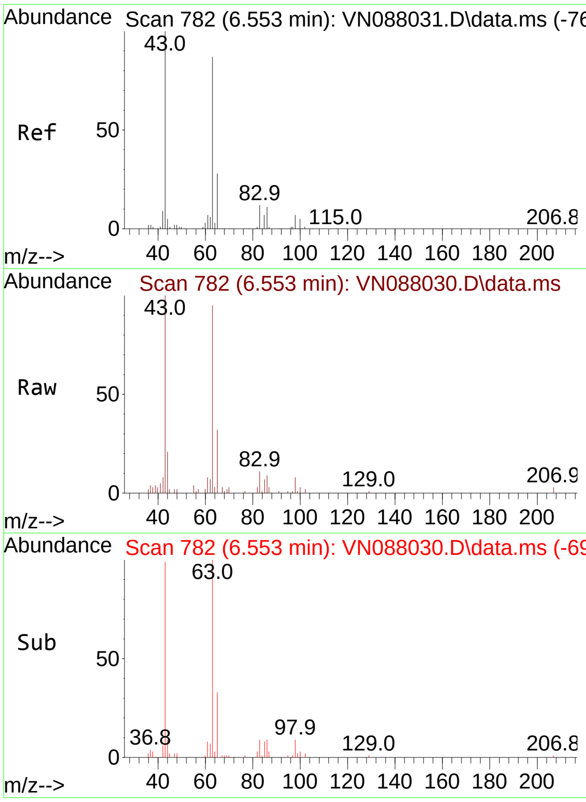
#20
Diisopropyl ether
Concen: 4.930 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 45 Resp: 78511

Ion	Ratio	Lower	Upper
45	100		
43	58.4	46.1	69.1
87	29.4	22.3	33.5
59	12.1	8.6	13.0



ICAL Form



#21
1,1-Dichloroethane
Concen: 5.151 ug/l
RT: 6.553 min   Scan# 78
Delta R.T.   0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025   09:34

Tgt Ion: 63 Resp: 4270

Ion	Ratio	Lower	Upper
63	100		
98	7.5	4.3	12.8
100	3.0	2.6	8.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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10/09/2025
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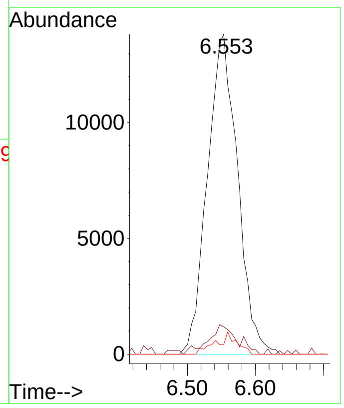
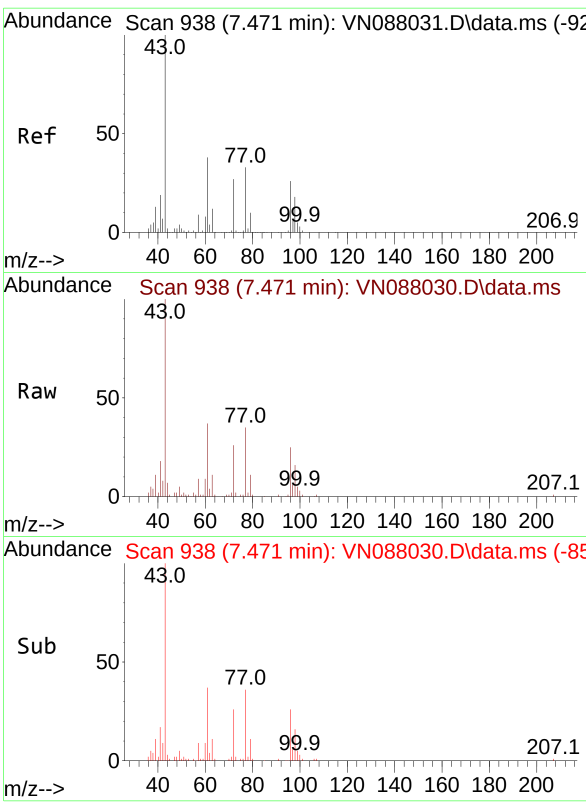
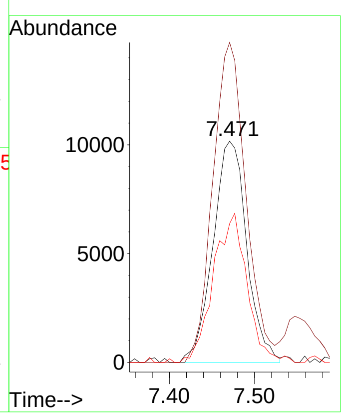


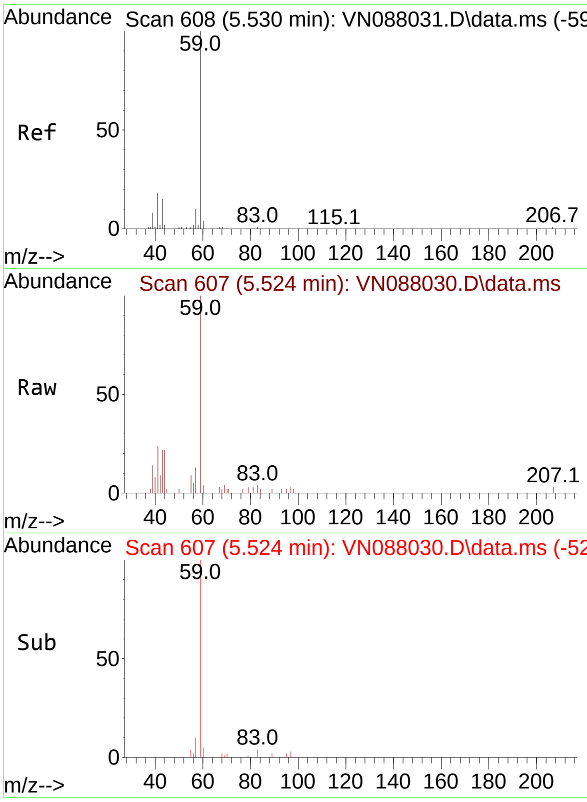


#22
cis-1,2-Dichloroethene
Concen: 5.241 ug/l
RT: 7.471 min   Scan# 938
Delta R.T.   0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025   09:34

Tgt Ion: 96 Resp: 28117

Ion	Ratio	Lower	Upper
96	100		
61	141.2	117.0	175.6
98	66.7	52.6	79.0





#23
tert-Butyl Alcohol
Concen: 27.671 ug/l
RT: 5.524 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 59 Resp: 3227

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

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Reviewed By :John Carlone 10/09/2025
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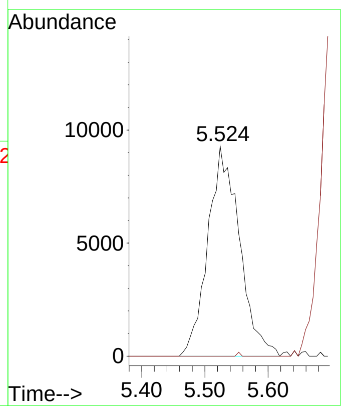
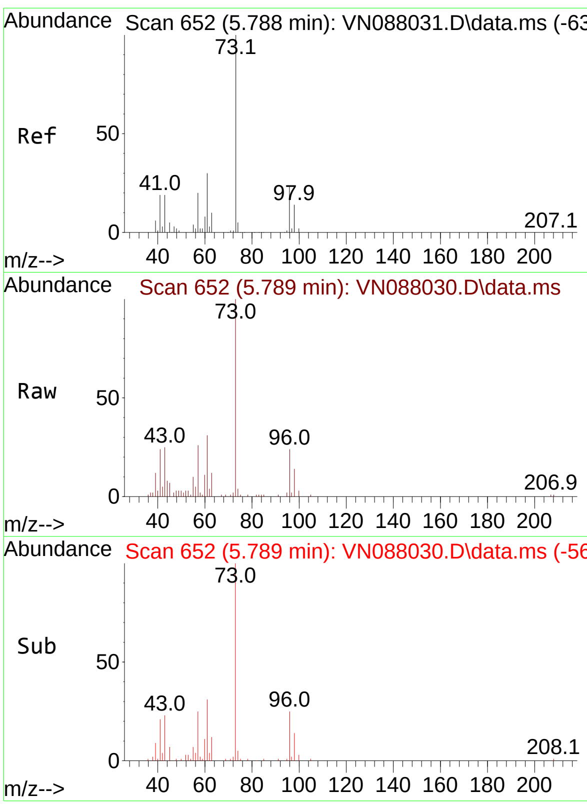
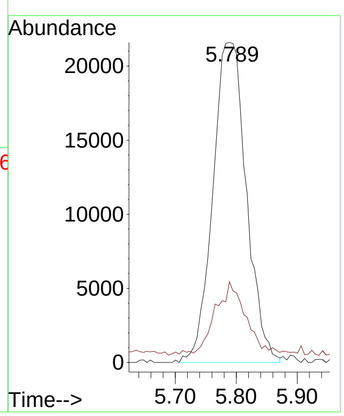




#24
Methyl tert-Butyl Ether
Concen: 5.155 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 73 Resp: 82482

Ion	Ratio	Lower	Upper
73	100		
43	19.2	17.0	25.4



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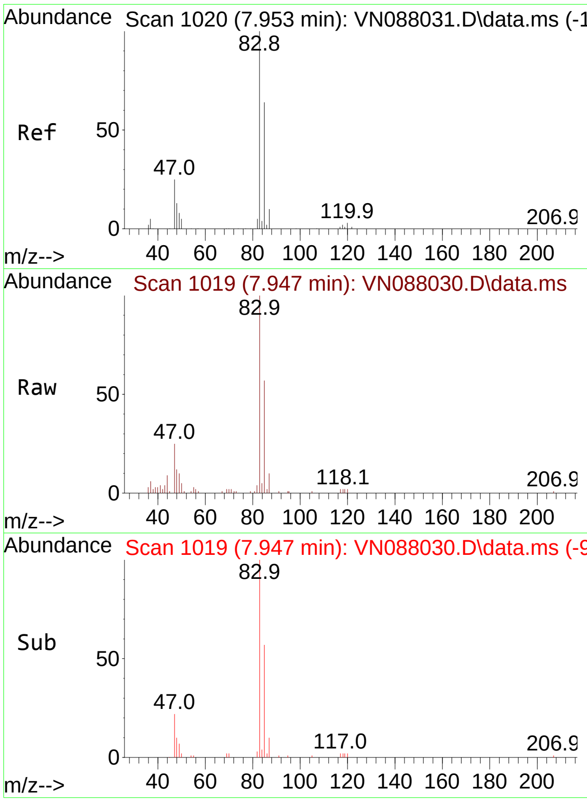

#25
Chloroform
Concen: 5.393 ug/l
RT: 7.947 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 83 Resp: 4613

Ion	Ratio	Lower	Upper
83	100		
85	57.4	50.9	76.3

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

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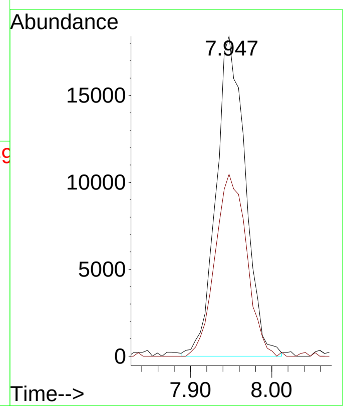
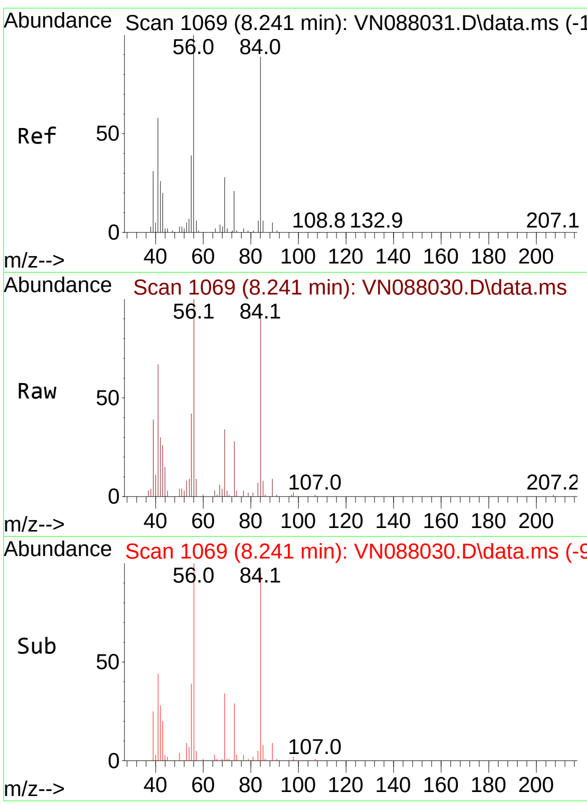
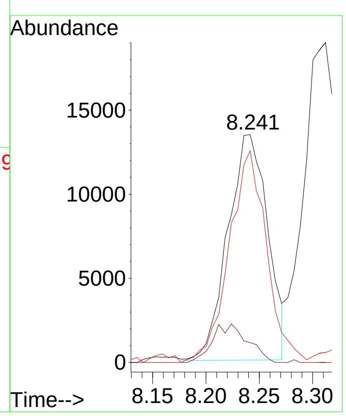




#26
Cyclohexane
Concen: 5.075 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 56 Resp: 34857

Ion	Ratio	Lower	Upper
56	100		
89	6.6	8.6	12.8#
84	88.0	69.6	104.4



ICAL Form

Instrument : MSVOA_N
ClientSampleId : VSTDICC005

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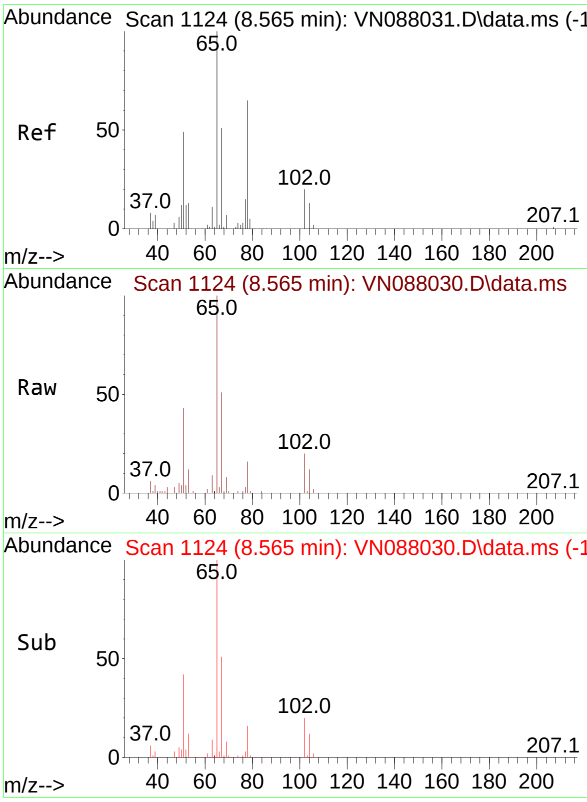
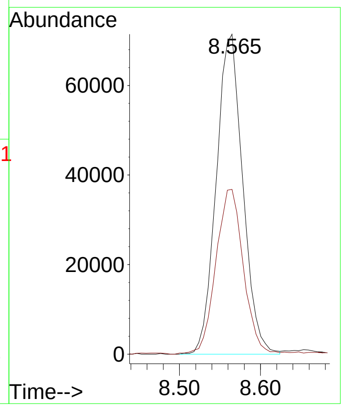
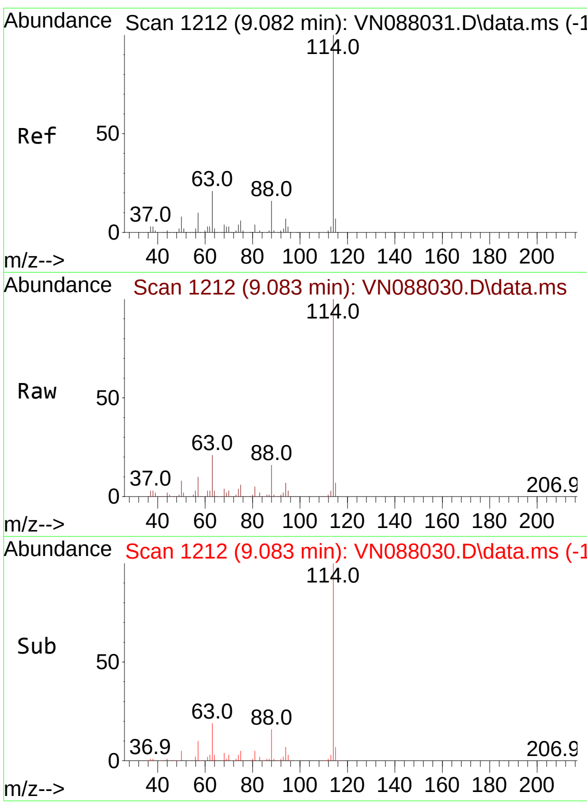


#27
1,2-Dichloroethane-d4
Concen: 29.577 ug/l
RT: 8.565 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 65 Resp: 16237

Ion	Ratio	Lower	Upper
65	100		
67	53.4	41.9	62.9

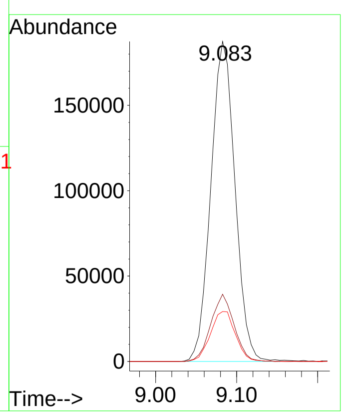




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:114 Resp: 388491

Ion	Ratio	Lower	Upper
114	100		
63	20.2	16.6	25.0
88	16.2	12.6	18.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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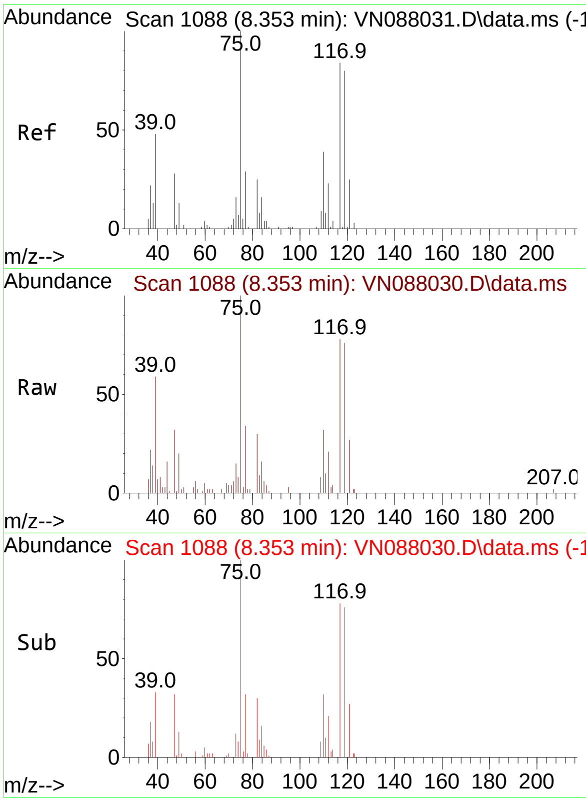
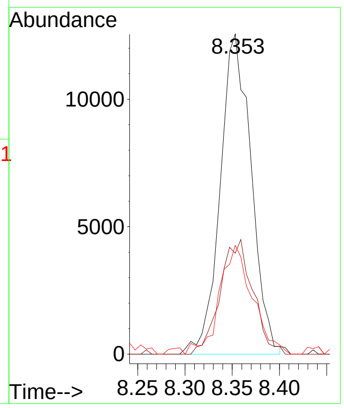
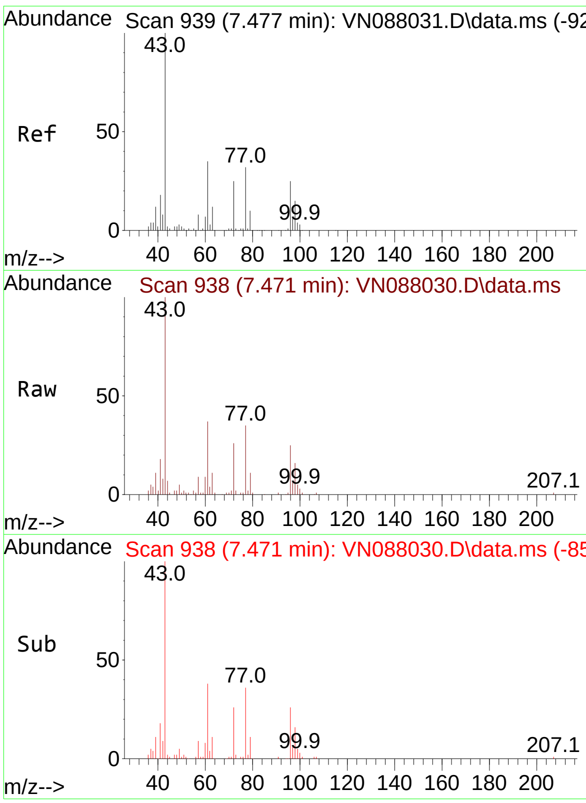


#29
1,1-Dichloropropene
Concen: 5.145 ug/l
RT: 8.353 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 75 Resp: 2865

Ion	Ratio	Lower	Upper
75	100		
110	37.3	0.0	72.2
77	35.3	0.0	60.6

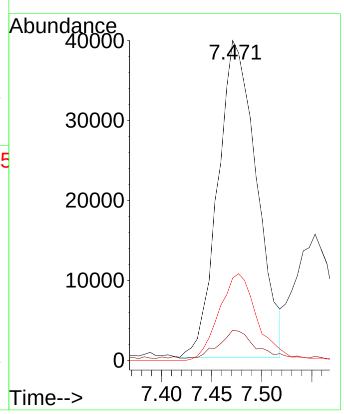




#30
2-Butanone
Concen: 25.994 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 43 Resp: 106757

Ion	Ratio	Lower	Upper
43	100		
57	8.6	6.5	9.7
72	26.7	21.4	32.2



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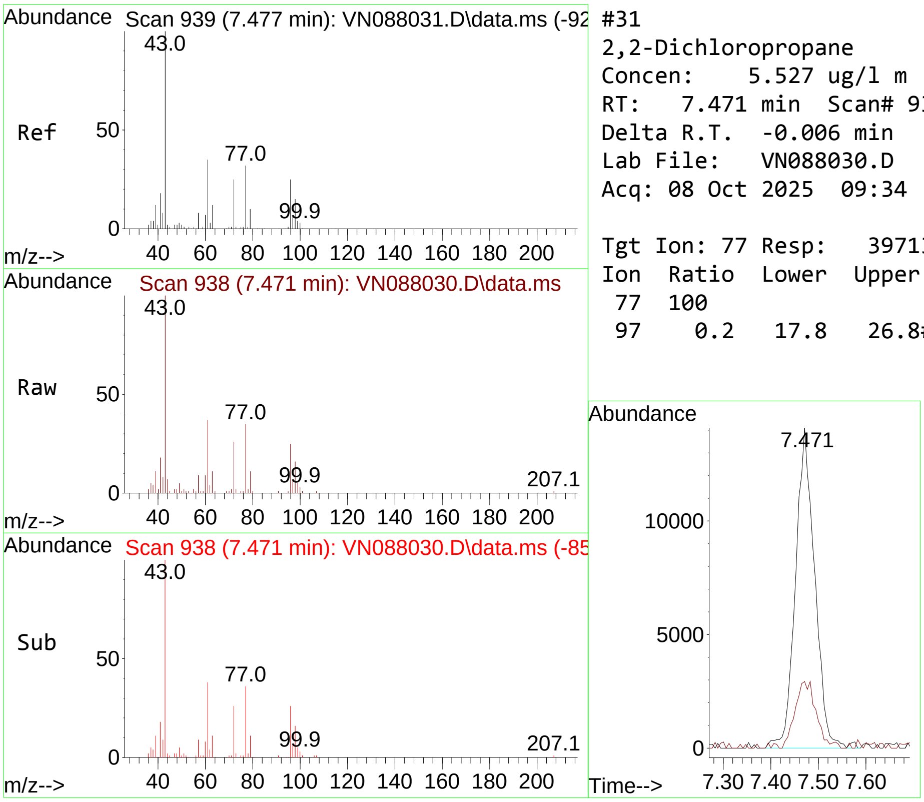

#31
2,2-Dichloropropane
Concen: 5.527 ug/l m
RT: 7.471 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 77 Resp: 3971

Ion	Ratio	Lower	Upper
77	100		
97	0.2	17.8	26.8#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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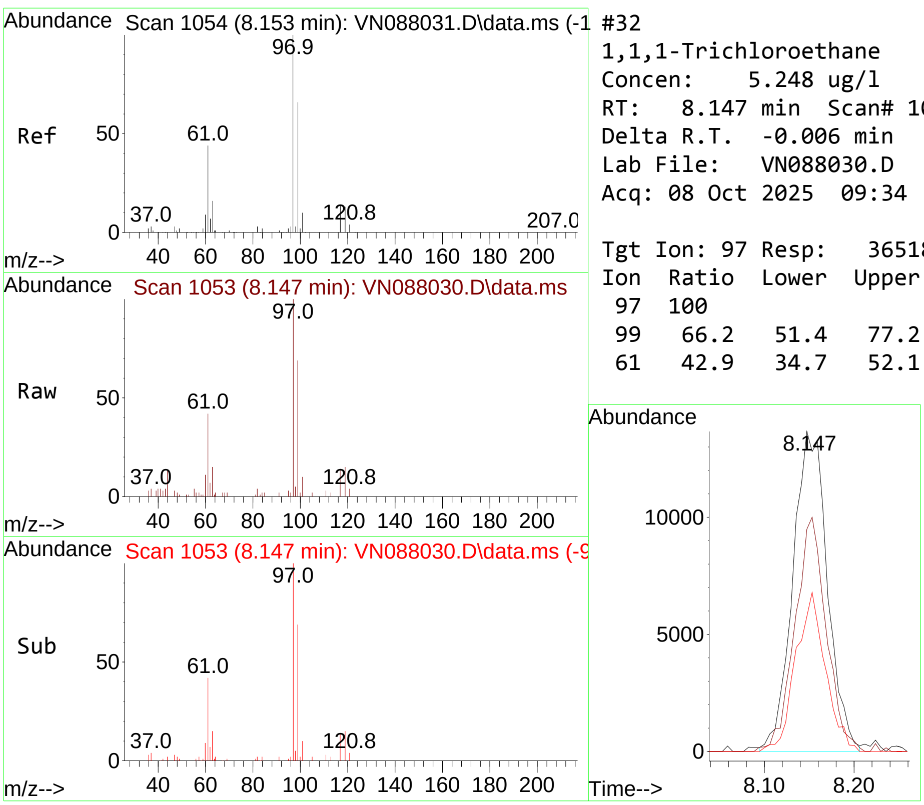
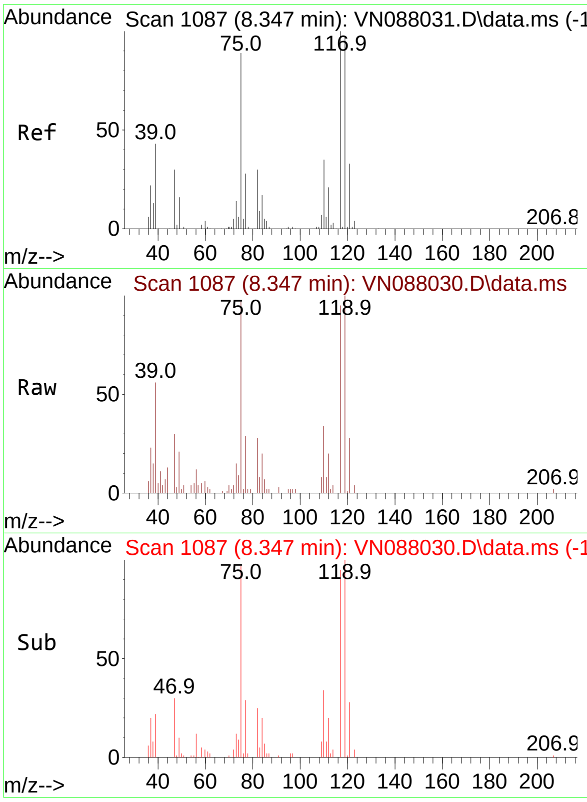


#32
1,1,1-Trichloroethane
Concen: 5.248 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 97 Resp: 36518

Ion	Ratio	Lower	Upper
97	100		
99	66.2	51.4	77.2
61	42.9	34.7	52.1

ICAL Form



#33
Carbon Tetrachloride
Concen: 5.072 ug/l
RT: 8.347 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:117 Resp: 2956

Ion	Ratio	Lower	Upper
117	100		
119	104.1	77.9	116.9
121	29.5	26.4	39.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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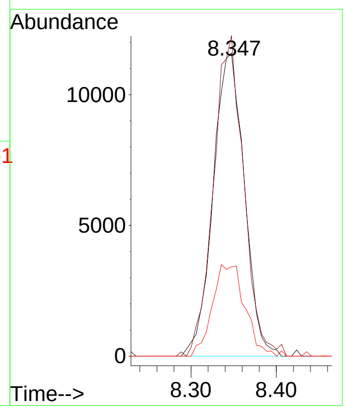
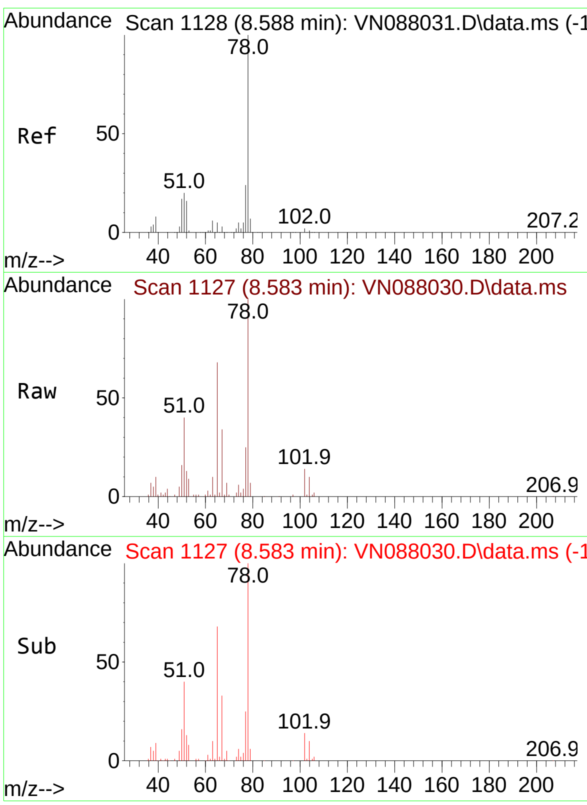
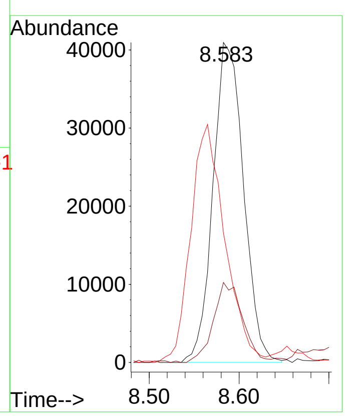




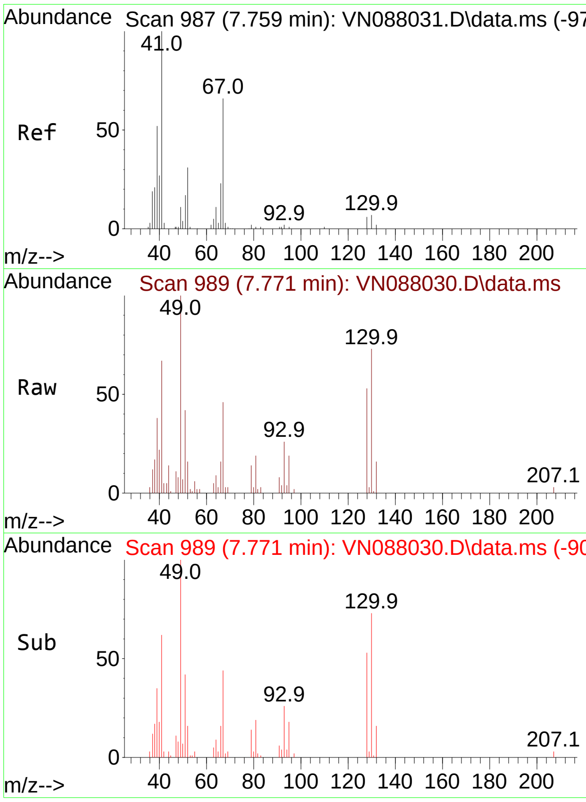
#34
Benzene
Concen: 5.226 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 78 Resp: 96524

Ion	Ratio	Lower	Upper
78	100		
77	25.0	18.9	28.3
51	36.9	15.6	23.4#



ICAL Form



#35
Methacrylonitrile
Concen: 5.236 ug/l
RT: 7.771 min Scan# 9
Delta R.T. 0.012 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 2261

Ion	Ratio	Lower	Upper
41	100		
39	51.4	26.1	78.3
67	69.3	33.1	99.2
52	22.4	15.4	46.1

Manual Integrations APPROVED

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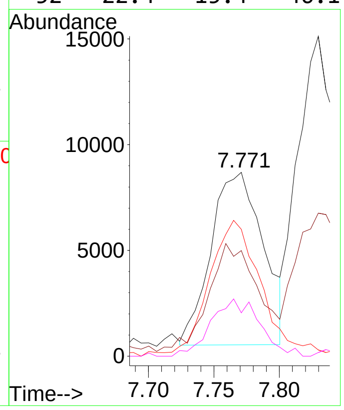
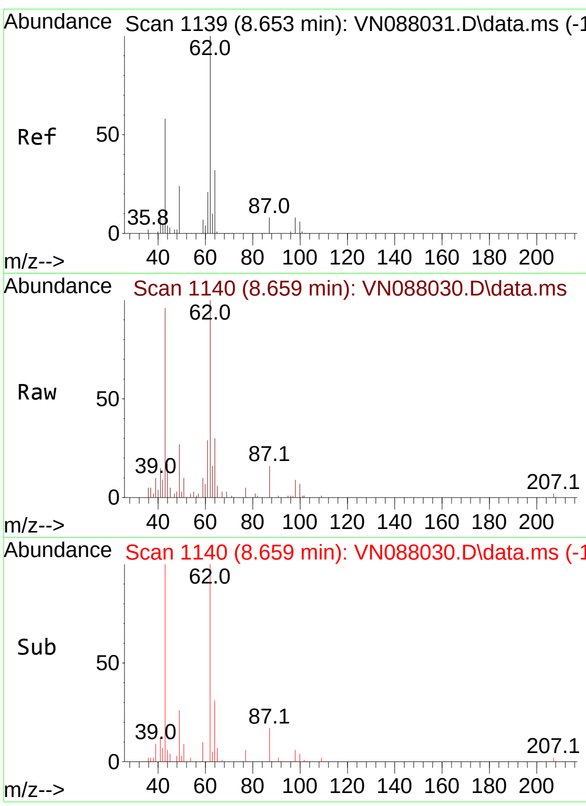
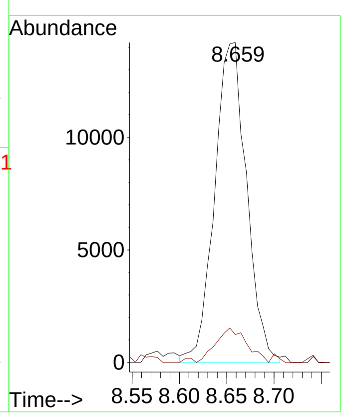




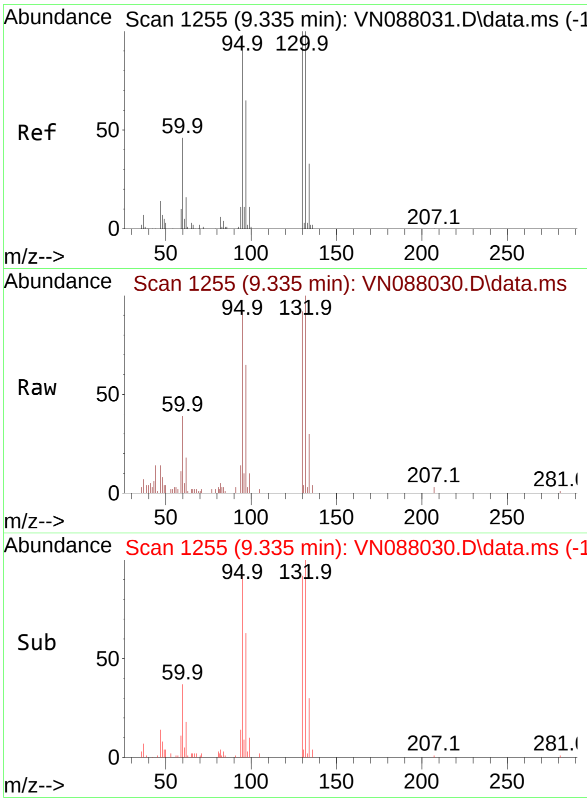
#36
1,2-Dichloroethane
Concen: 5.220 ug/l
RT: 8.659 min Scan# 1140
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 62 Resp: 33473

Ion	Ratio	Lower	Upper
62	100		
98	10.3	7.8	11.6



ICAL Form



#37
Trichloroethene
Concen: 5.302 ug/l
RT: 9.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:130 Resp: 2320

Ion	Ratio	Lower	Upper
130	100		
95	100.0	78.7	118.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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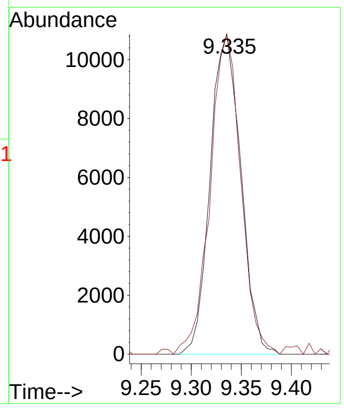
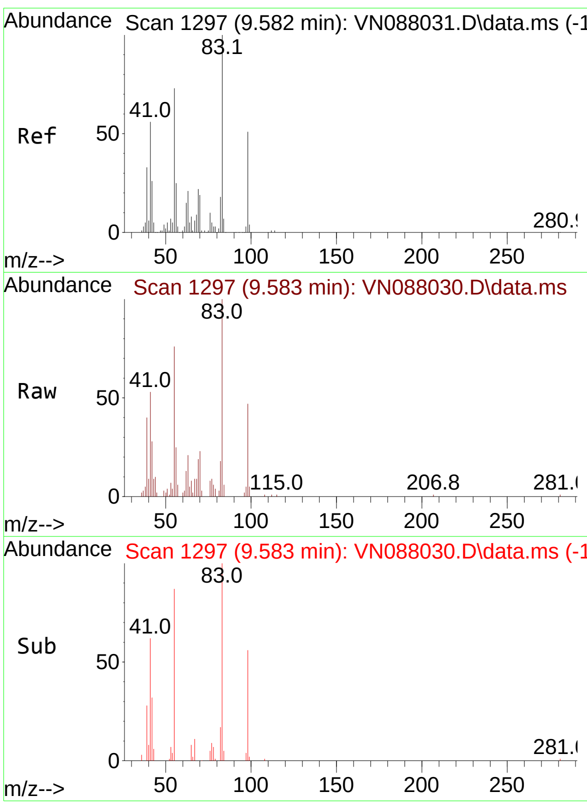
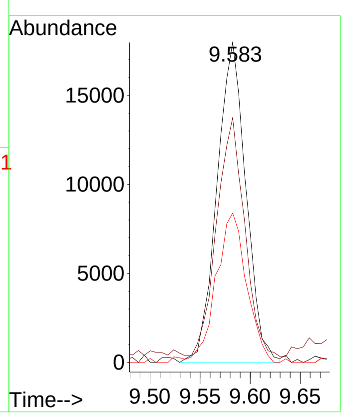




#38
Methylcyclohexane
Concen: 5.272 ug/l
RT: 9.583 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 83 Resp: 36254

Ion	Ratio	Lower	Upper
83	100		
55	71.6	37.3	111.9
98	48.8	25.4	76.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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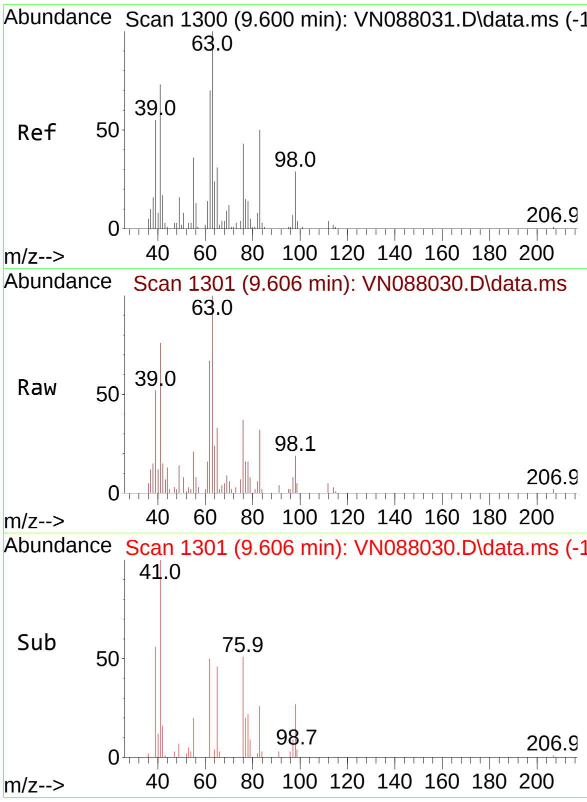
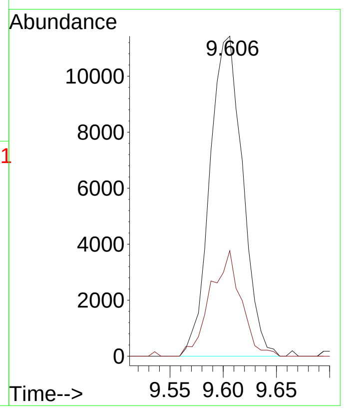
10/10/2025

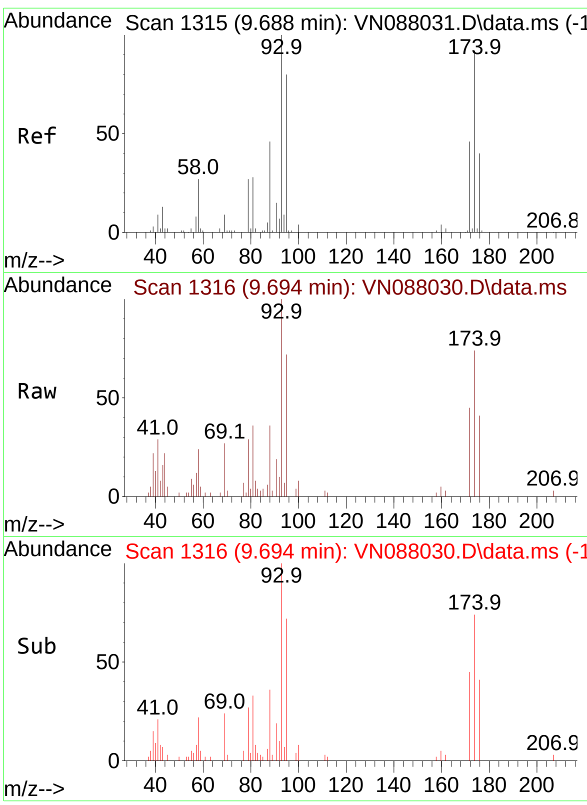


#39
1,2-Dichloropropane
Concen: 5.296 ug/l
RT: 9.606 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 63 Resp: 2452

Ion	Ratio	Lower	Upper
63	100		
65	33.0	25.0	37.6

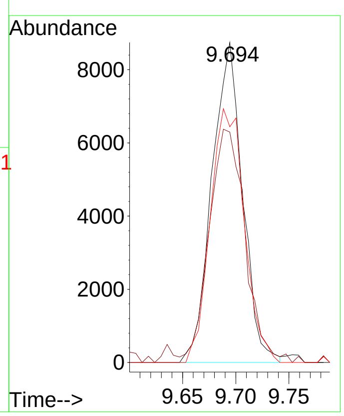




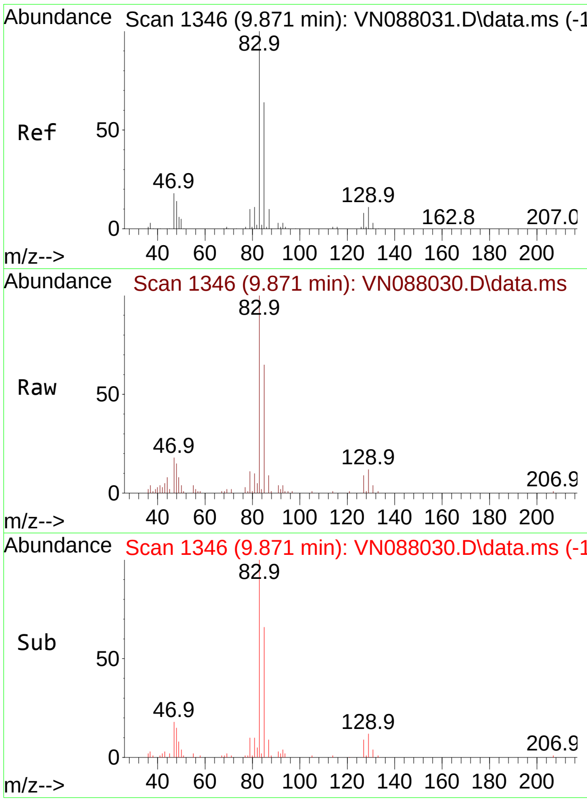
#40
Dibromomethane
Concen: 5.194 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 93 Resp: 17510

Ion	Ratio	Lower	Upper
93	100		
95	85.3	0.0	158.6
174	88.3	0.0	180.8



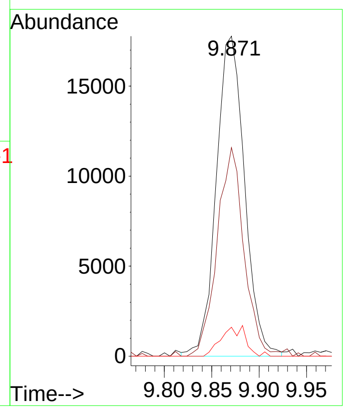
ICAL Form



#41
Bromodichloromethane
Concen: 5.370 ug/l
RT: 9.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 83 Resp: 3697

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.0	76.4
127	9.2	6.1	9.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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Supervised By :Mahesh Dadoda

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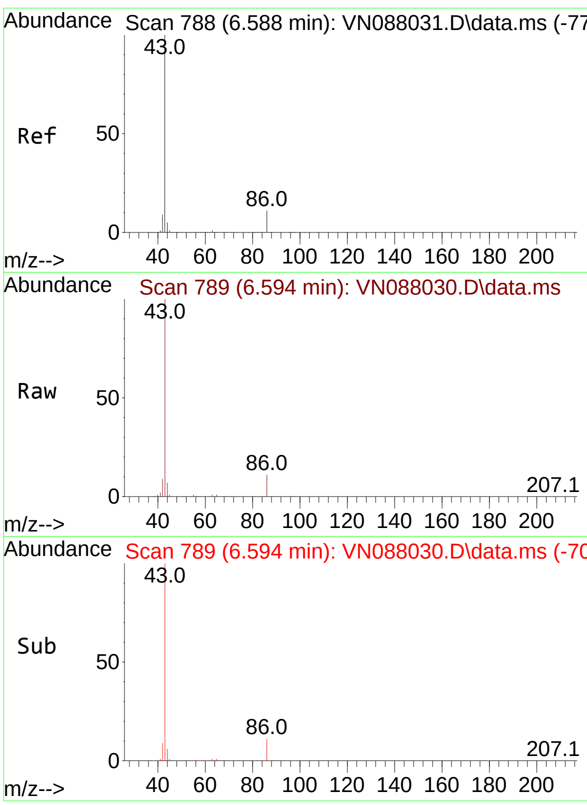
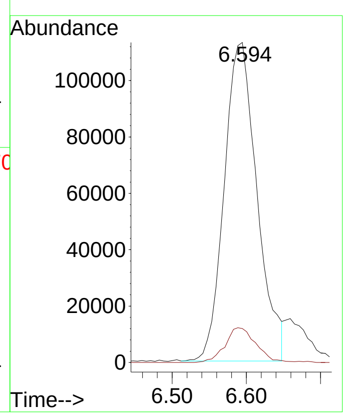


#42
Vinyl Acetate
Concen: 24.837 ug/l
RT: 6.594 min Scan# 789
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 43 Resp: 347500

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.4	12.6



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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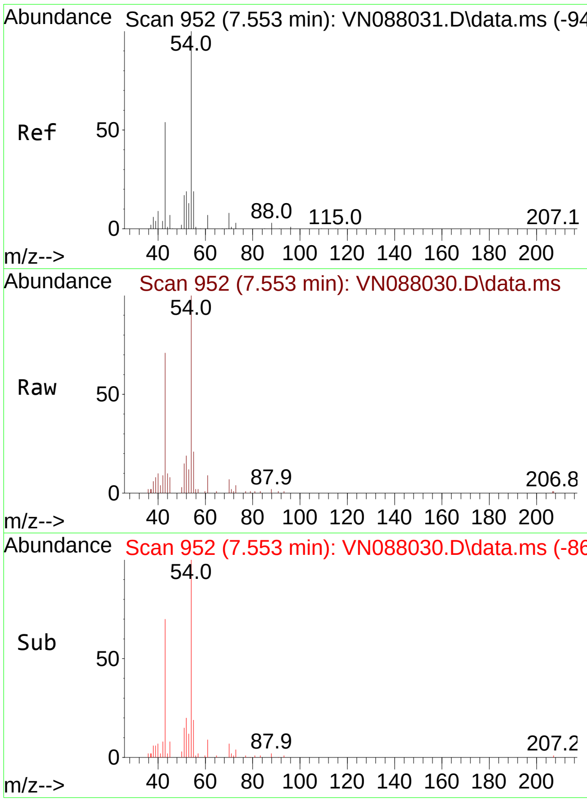
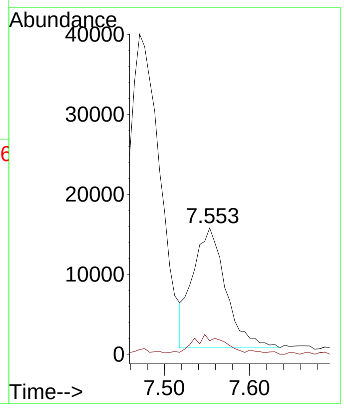
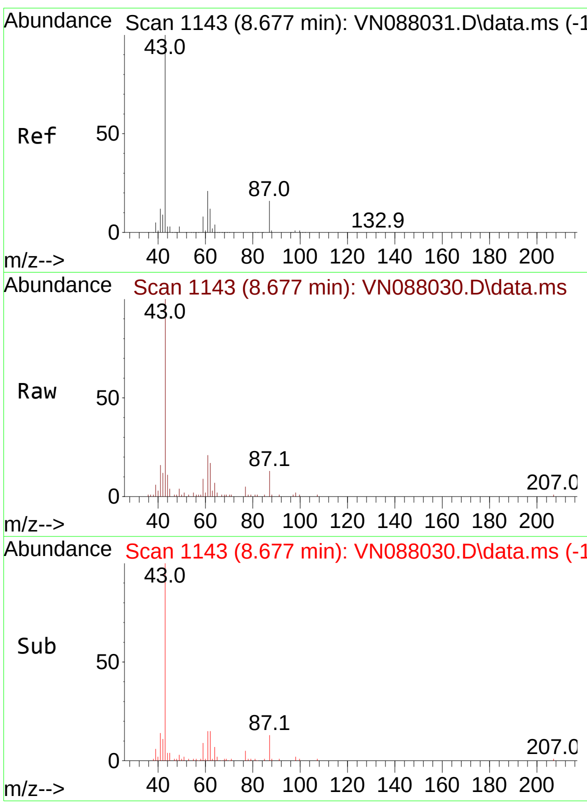


#43
Ethyl Acetate
Concen: 5.141 ug/l
RT: 7.553 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 43 Resp: 4058

Ion	Ratio	Lower	Upper
43	100		
45	1.4	10.2	15.4#

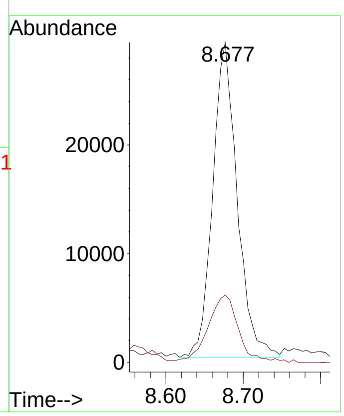




#44
Isopropyl Acetate
Concen: 4.961 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 43 Resp: 63965

Ion	Ratio	Lower	Upper
43	100		
61	25.0	18.7	28.1



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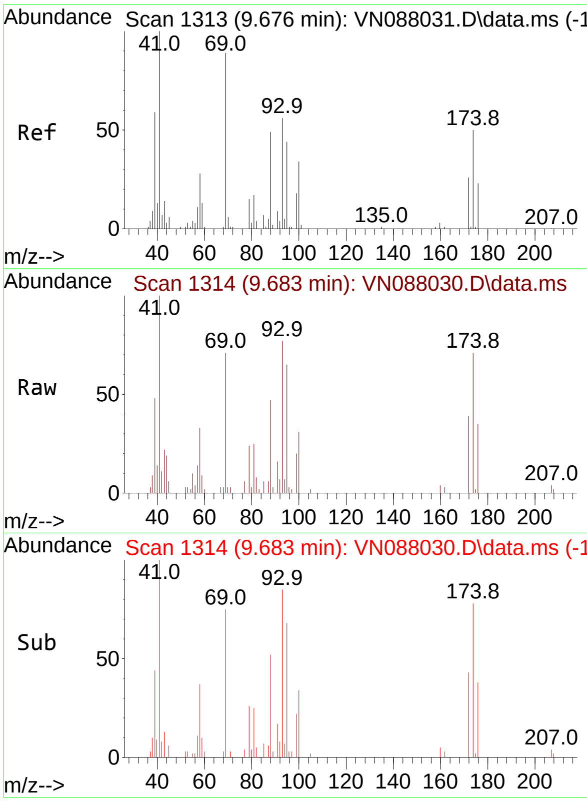
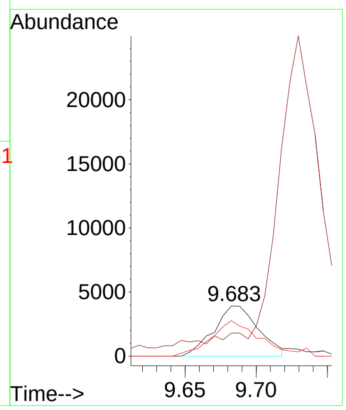


#45
1,4-Dioxane
Concen: 99.555 ug/l
RT: 9.683 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 88 Resp: 853

Ion	Ratio	Lower	Upper
88	100		
43	12.6	18.6	27.8
58	76.1	57.4	86.2



Instrument :
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ClientSampleId :
VSTDICC005

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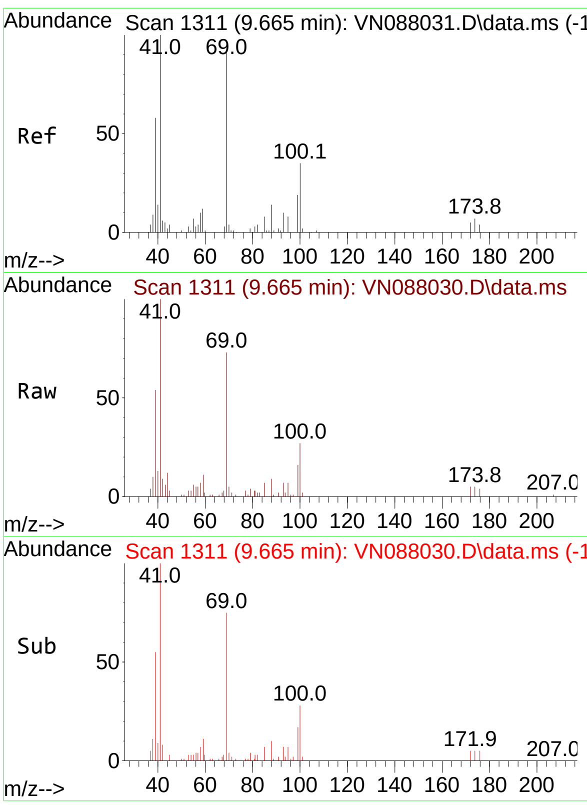
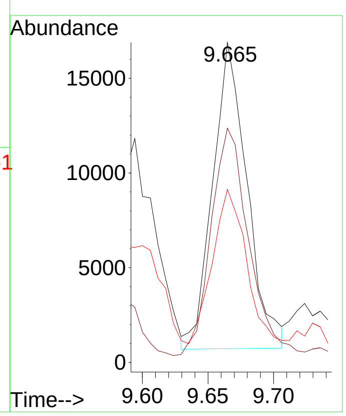
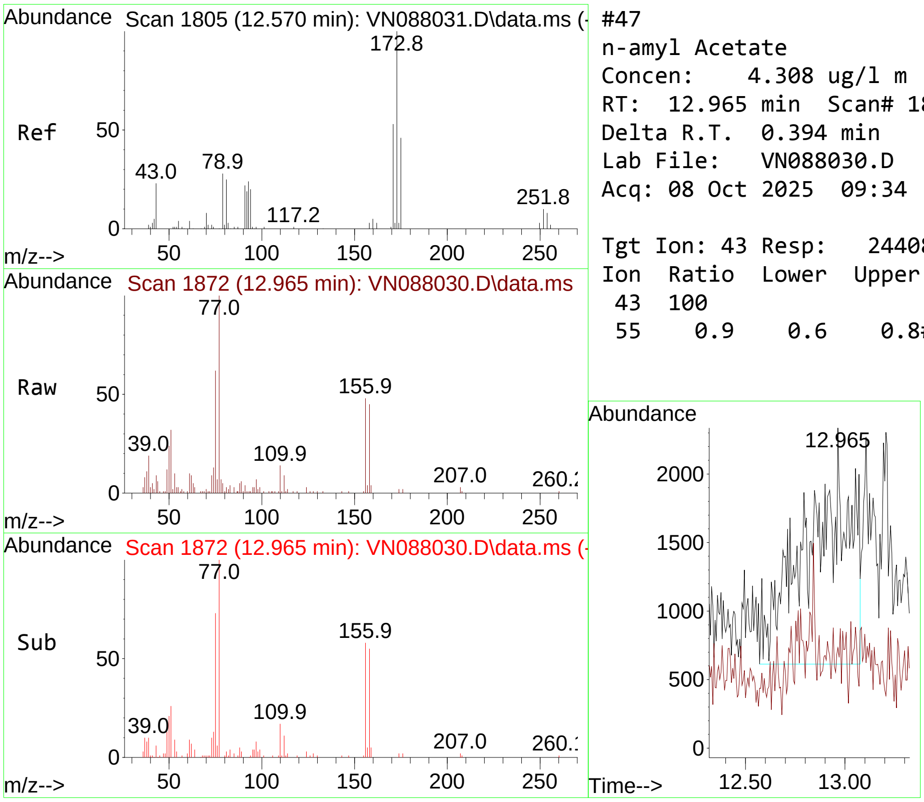


#46
Methyl methacrylate
Concen: 5.167 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 41 Resp: 29344

Ion	Ratio	Lower	Upper
41	100		
69	76.9	44.9	134.7
39	51.4	30.3	90.8





#47
n-amyl Acetate
Concen: 4.308 ug/l m
RT: 12.965 min Scan# 1
Delta R.T. 0.394 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 43 Resp: 2440
Ion Ratio Lower Upper
43 100
55 0.9 0.6 0.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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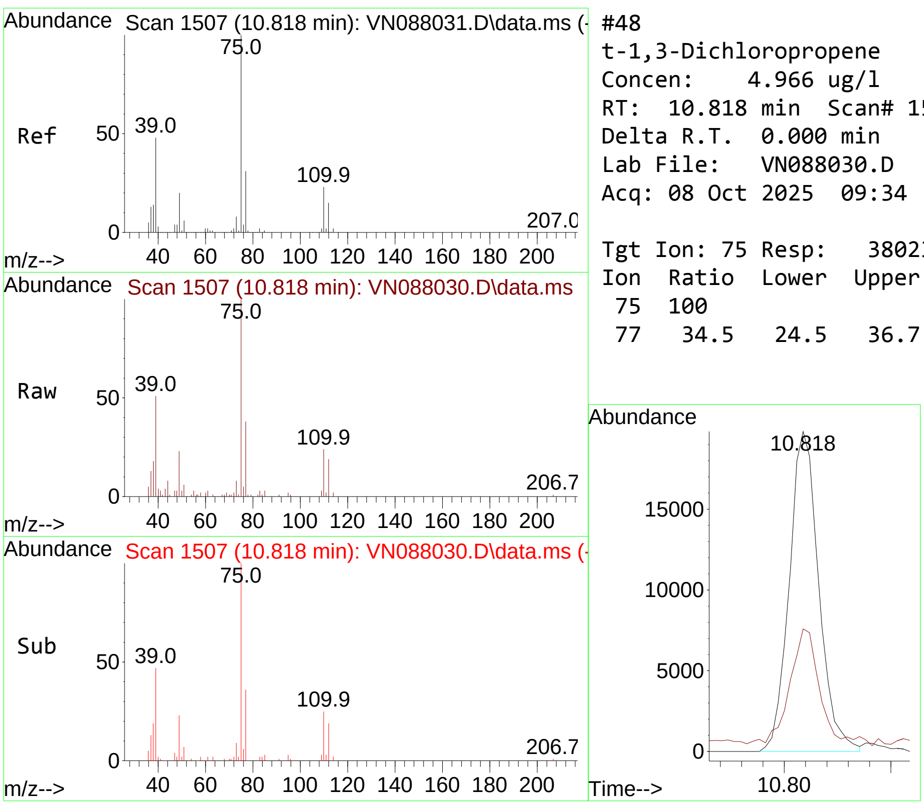
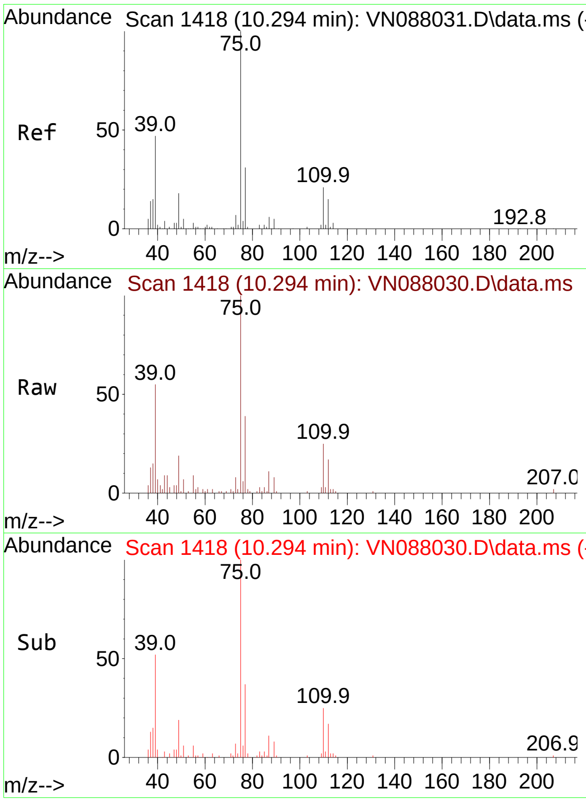


#48
t-1,3-Dichloropropene
Concen: 4.966 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 75 Resp: 38023
Ion Ratio Lower Upper
75 100
77 34.5 24.5 36.7

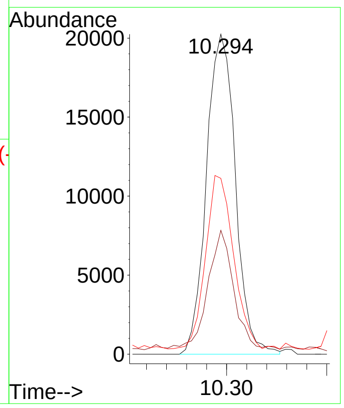
ICAL Form



#49
cis-1,3-Dichloropropene
Concen: 5.094 ug/l
RT: 10.294 min   Scan# 14
Delta R.T.   0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025   09:34

Tgt Ion: 75 Resp: 4068

Ion	Ratio	Lower	Upper
75	100		
77	37.1	25.0	37.4
39	53.3	37.4	56.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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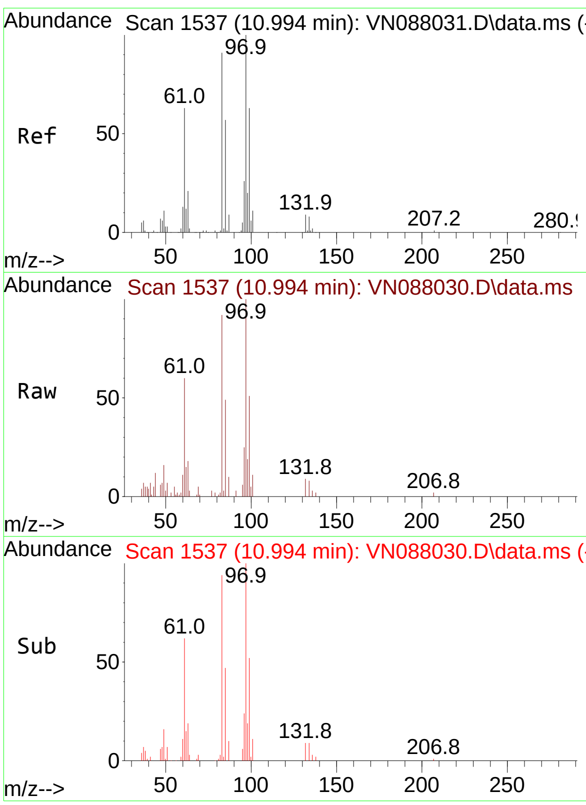
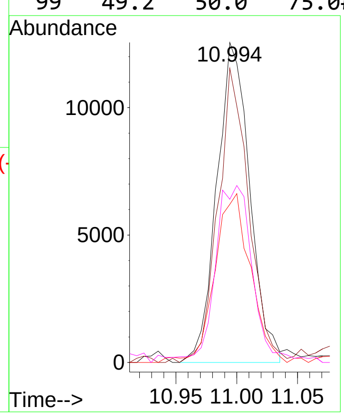
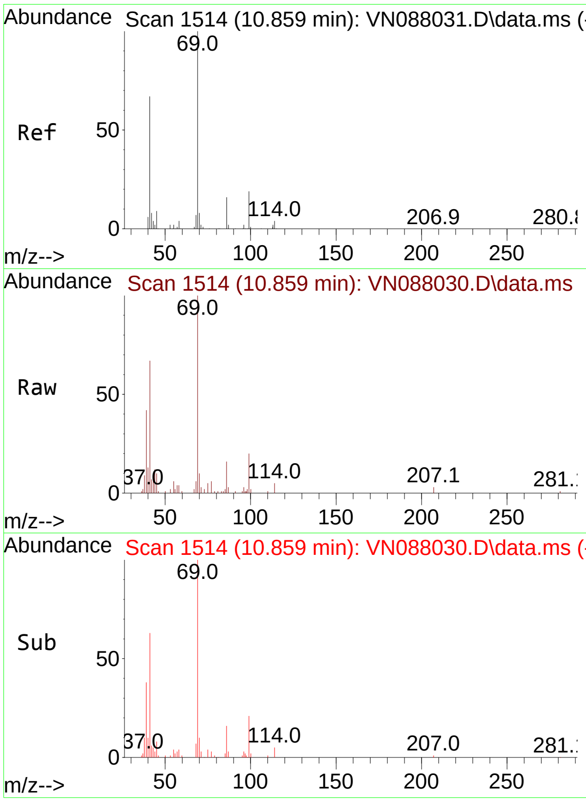


#50
1,1,2-Trichloroethane
Concen: 5.302 ug/l
RT: 10.994 min   Scan# 1537
Delta R.T.   0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025   09:34

Tgt Ion: 97 Resp: 23673

Ion	Ratio	Lower	Upper
97	100		
83	92.0	72.5	108.7
85	48.0	45.5	68.3
99	49.2	50.0	75.0#

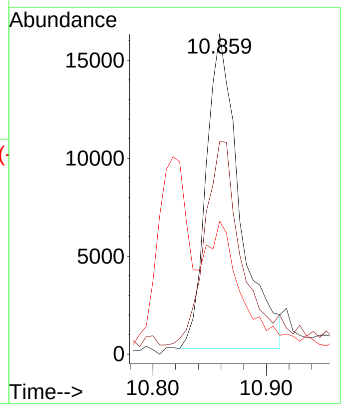




#51
Ethyl methacrylate
Concen: 4.388 ug/l
RT: 10.859 min Scan# 15
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 69 Resp: 3315

Ion	Ratio	Lower	Upper
69	100		
41	62.8	33.3	99.8
39	36.3	20.3	61.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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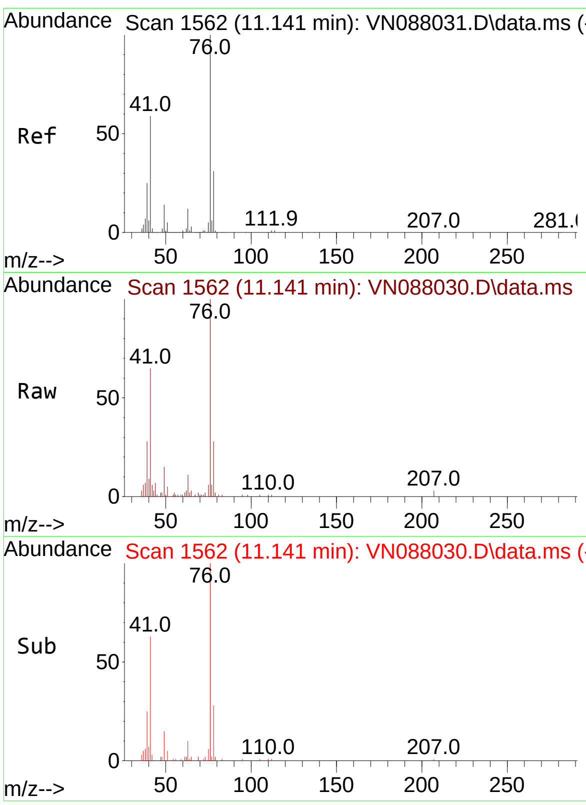
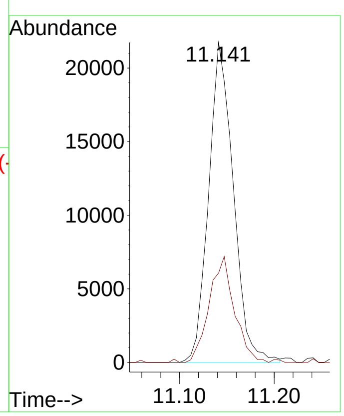
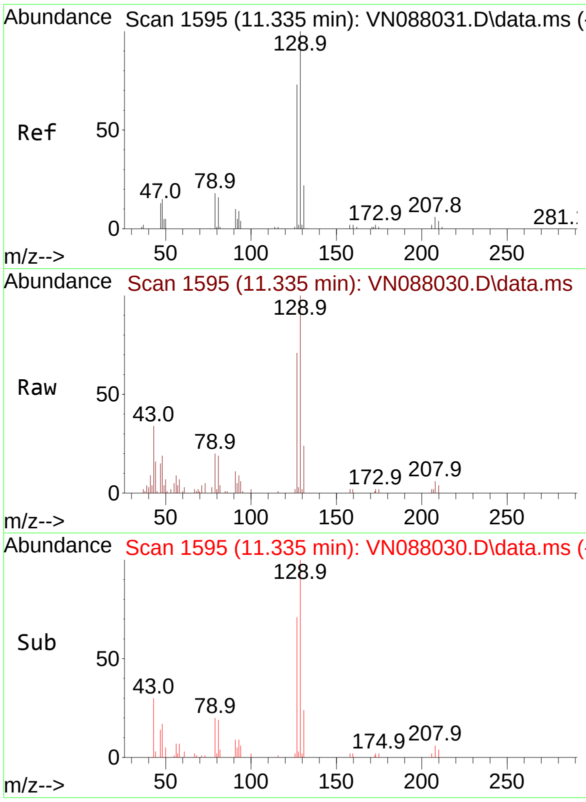


#52
1,3-Dichloropropane
Concen: 5.084 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 76 Resp: 39602

Ion	Ratio	Lower	Upper
76	100		
78	33.7	0.0	65.0





#53
Dibromochloromethane
Concen: 5.040 ug/l
RT: 11.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:129 Resp: 2690

Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.1	117.3

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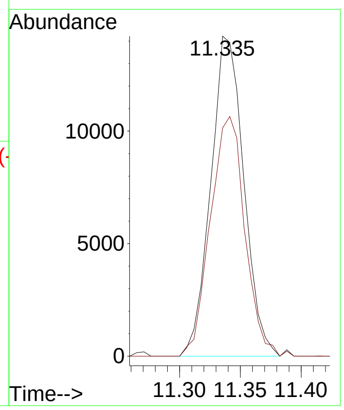
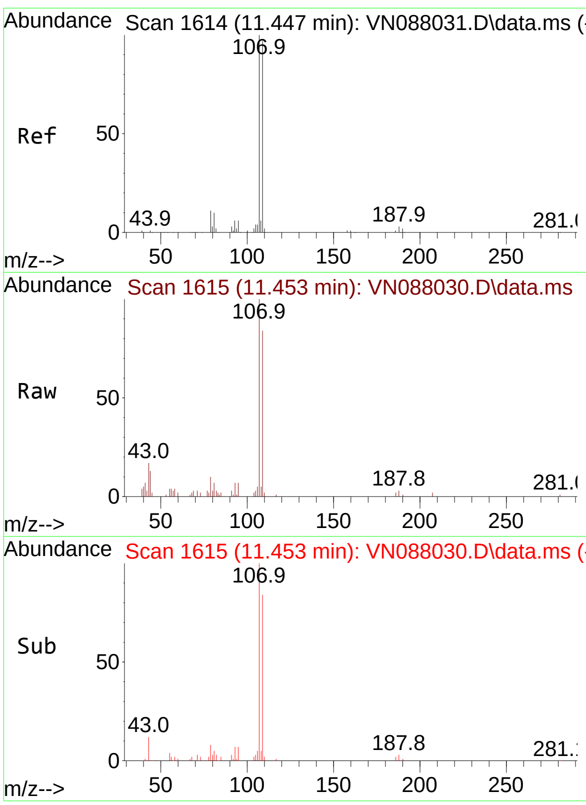
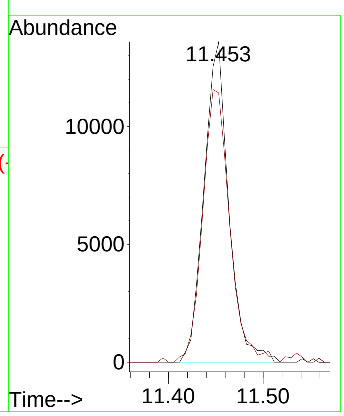




#54
1,2-Dibromoethane
Concen: 5.174 ug/l
RT: 11.453 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:107 Resp: 24696

Ion	Ratio	Lower	Upper
107	100		
109	91.5	75.5	113.3



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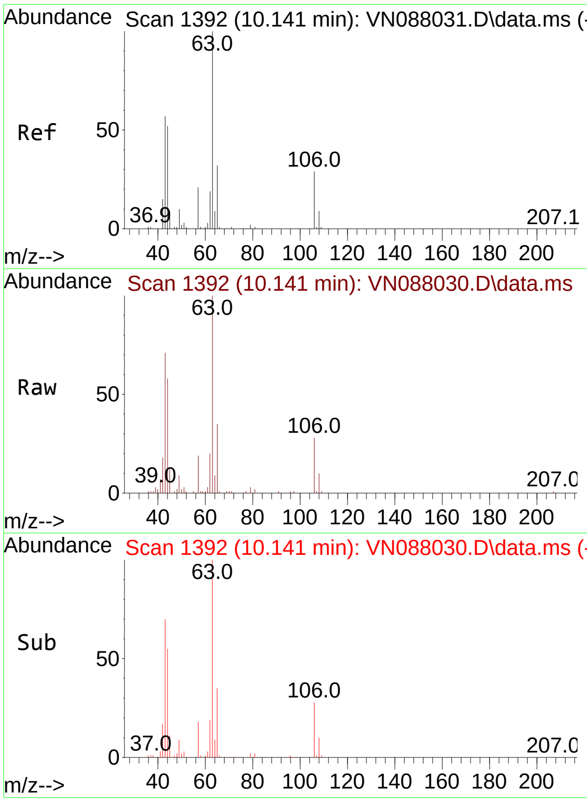

#55
2-Chloroethyl vinyl ether
Concen: 23.044 ug/l
RT: 10.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 9398

Ion	Ratio	Lower	Upper
63	100		
65	33.2	25.7	38.5
106	27.3	22.6	34.0

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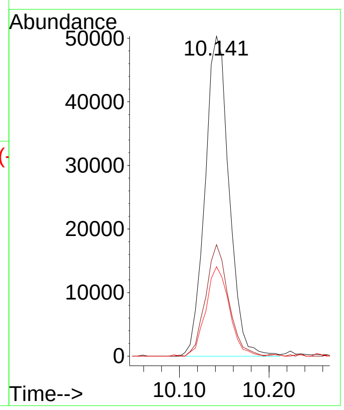
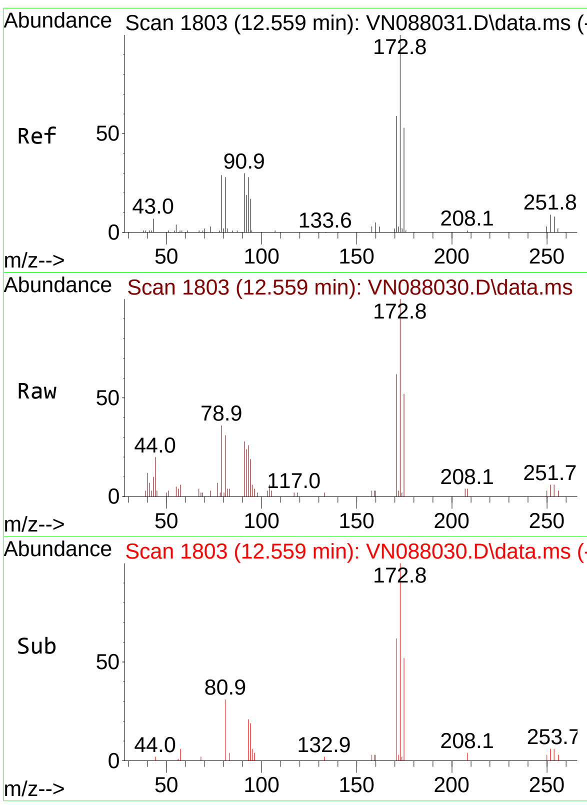
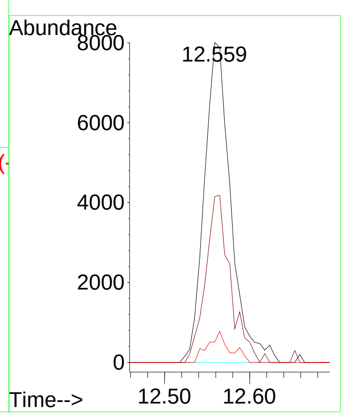


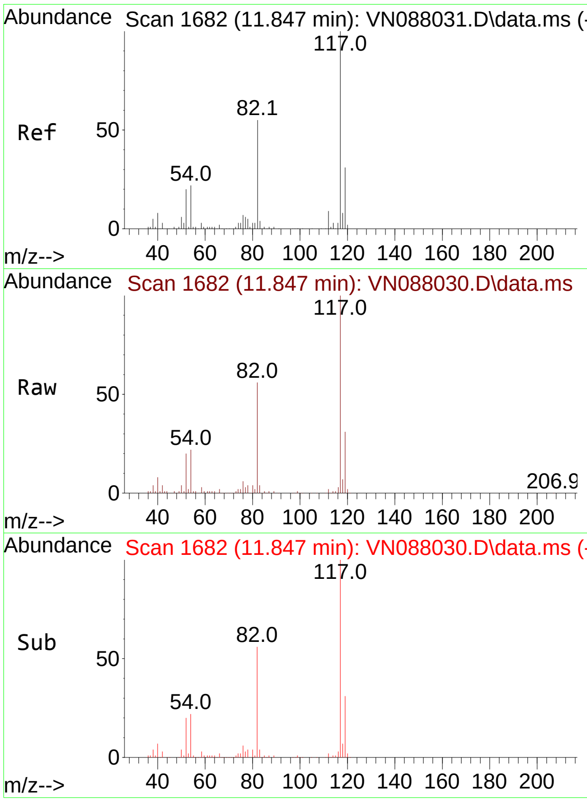


#56
Bromoform
Concen: 4.820 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:173 Resp: 17392

Ion	Ratio	Lower	Upper
173	100		
175	43.3	39.6	59.4
254	6.9	6.6	10.0





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:117 Resp: 34567(

Ion	Ratio	Lower	Upper
117	100		
82	57.2	45.2	67.8
119	31.8	25.9	38.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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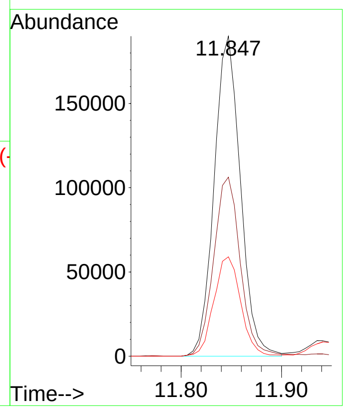
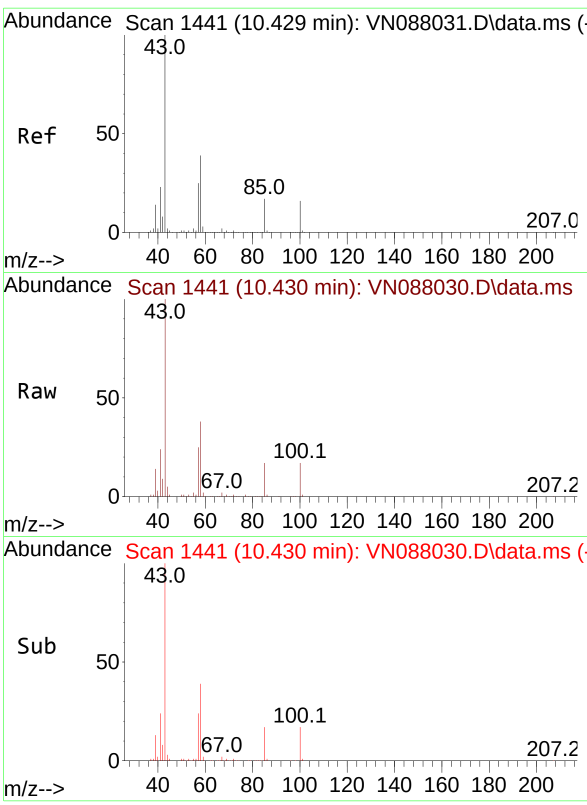
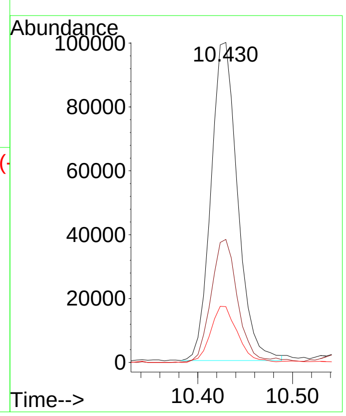




#58
4-Methyl-2-Pentanone
Concen: 25.289 ug/l
RT: 10.430 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 43 Resp: 195537

Ion	Ratio	Lower	Upper
43	100		
58	38.3	31.2	46.8
85	17.8	13.7	20.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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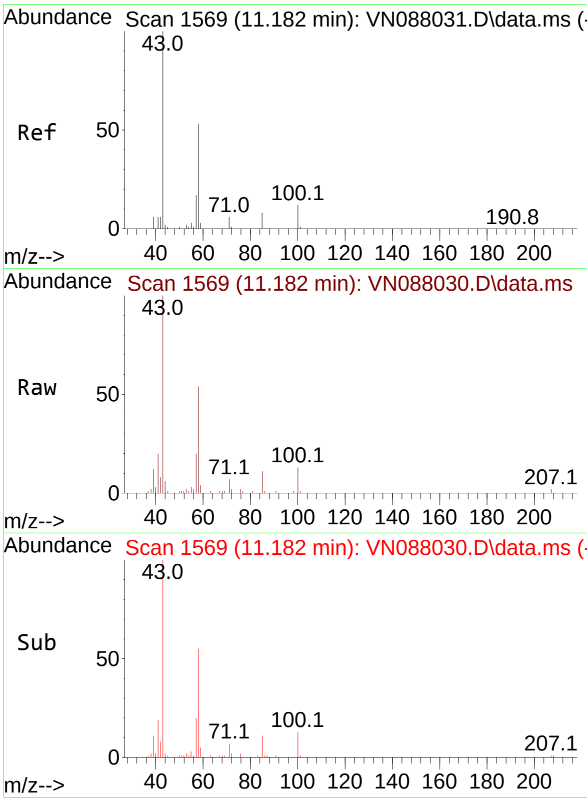
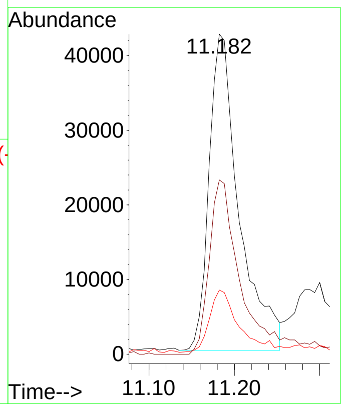
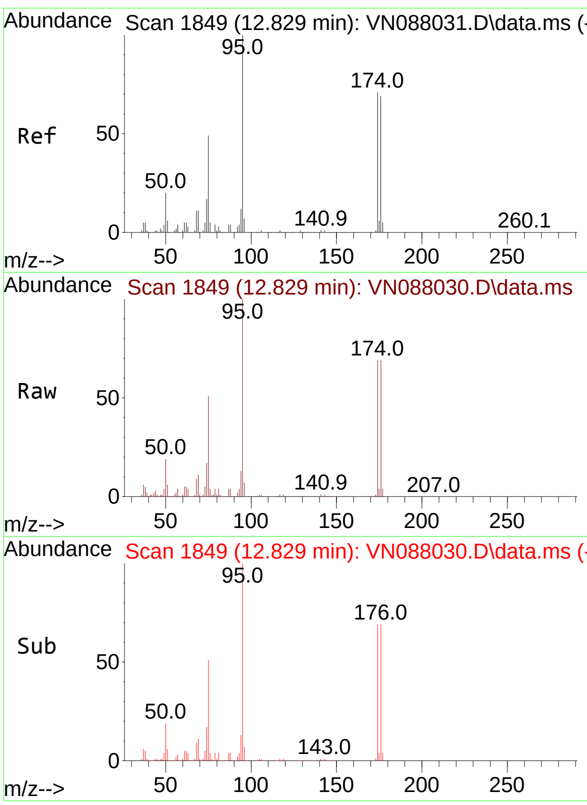


#59
2-Hexanone
Concen: 20.314 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 43 Resp: 103702

Ion	Ratio	Lower	Upper
43	100		
58	54.7	43.1	64.7
57	18.3	14.6	21.8

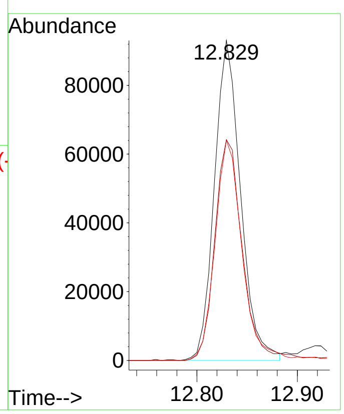


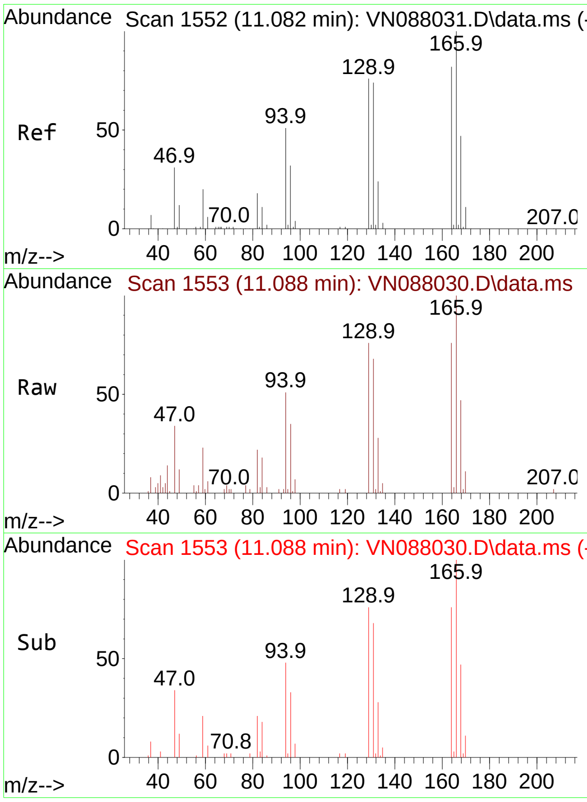


#60
4-Bromofluorobenzene
Concen: 29.574 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 95 Resp: 168531

Ion	Ratio	Lower	Upper
95	100		
174	72.7	57.4	86.0
176	70.7	57.0	85.4





#61
Tetrachloroethene
Concen: 5.316 ug/l
RT: 11.088 min   Scan# 1!
Delta R.T.   0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025   09:34

Tgt Ion:164 Resp: 1860!

Ion	Ratio	Lower	Upper
164	100		
166	130.8	97.2	145.8
129	99.7	73.7	110.5
131	89.3	71.5	107.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John
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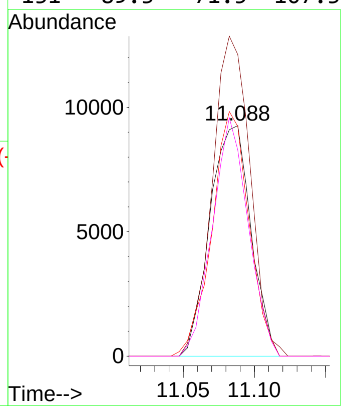
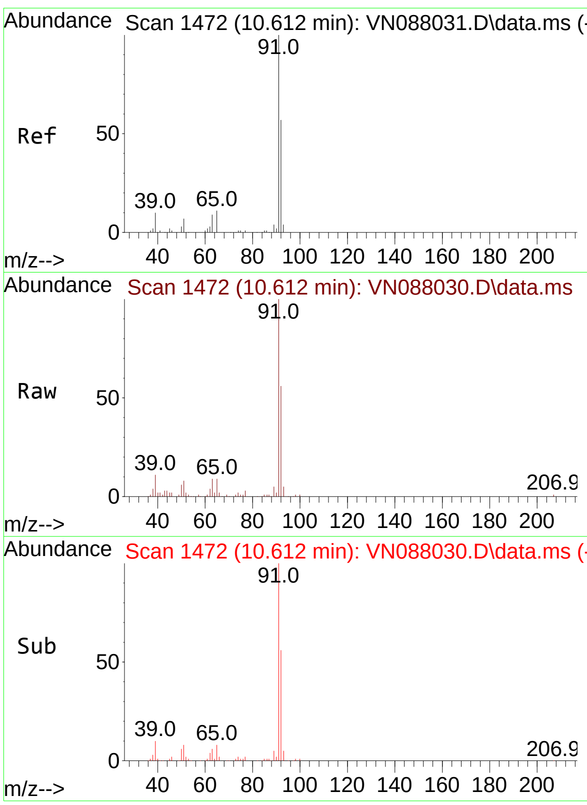
10/09/2025
Supervised By :Mahesh
Dadoda

10/10/2025

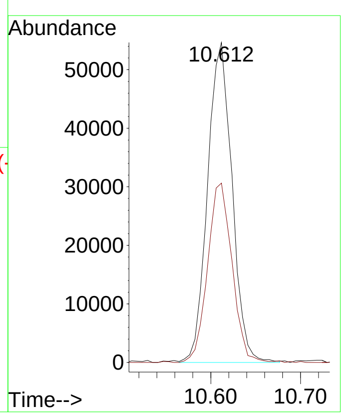




#62
Toluene
Concen: 5.276 ug/l
RT: 10.612 min   Scan# 1472
Delta R.T.   0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025   09:34

Tgt Ion: 91 Resp: 103446

Ion	Ratio	Lower	Upper
91	100		
92	56.0	45.8	68.8



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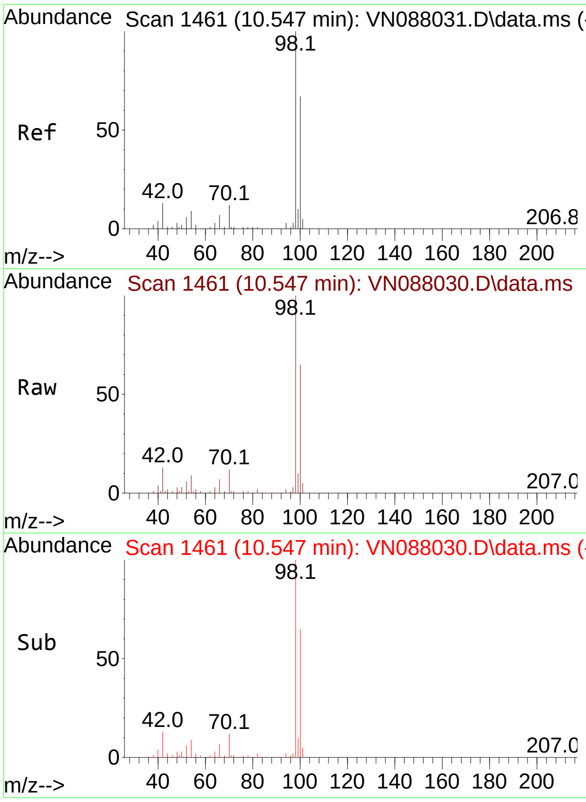

#63
Toluene-d8
Concen: 30.170 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 98 Resp: 46466

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.1	79.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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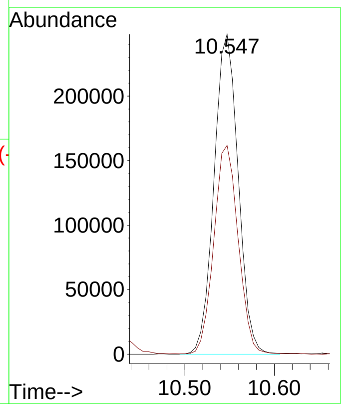
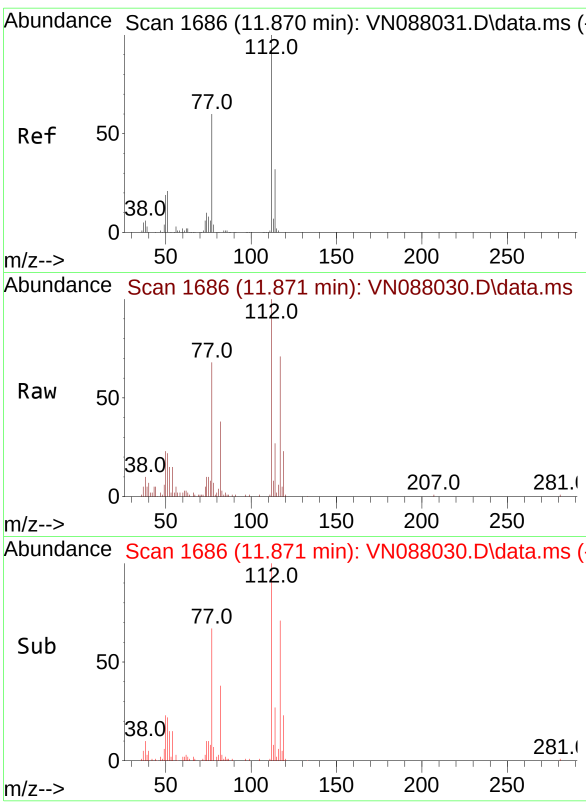
Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda
10/10/2025

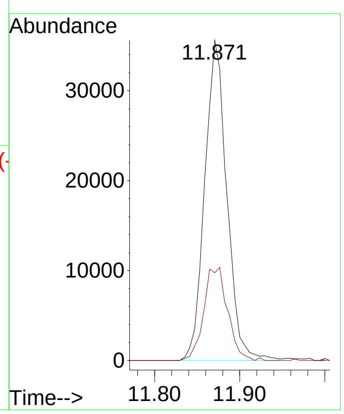


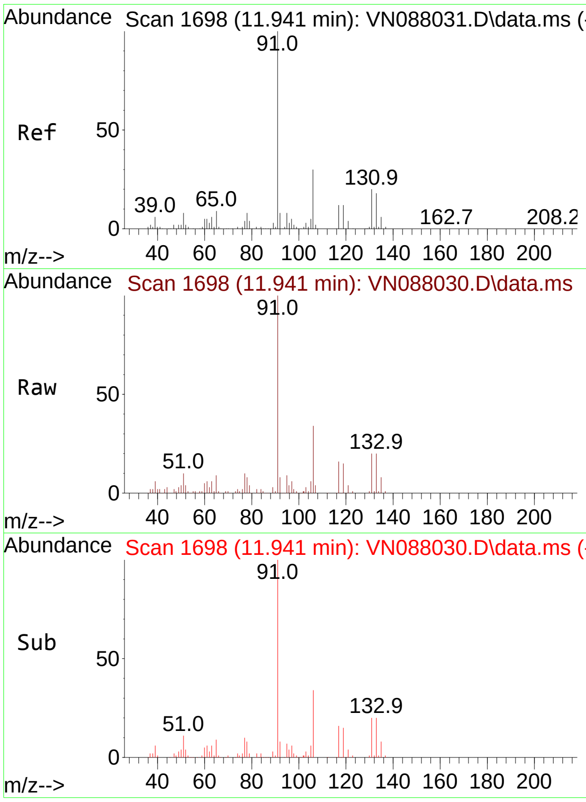


#64
Chlorobenzene
Concen: 5.142 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:112 Resp: 64403

Ion	Ratio	Lower	Upper
112	100		
114	27.4	25.7	38.5





#65
1,1,1,2-Tetrachloroethane
Concen: 5.096 ug/l
RT: 11.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:131 Resp: 2199

Ion	Ratio	Lower	Upper
131	100		
133	98.9	0.0	183.8
119	70.6	0.0	132.0

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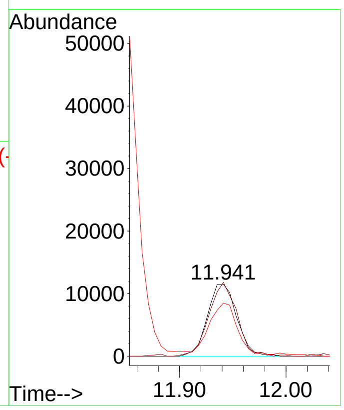
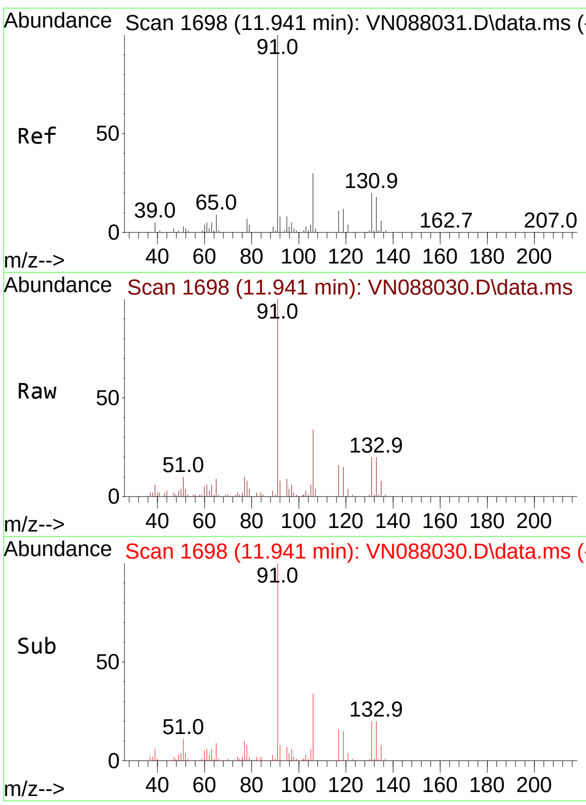
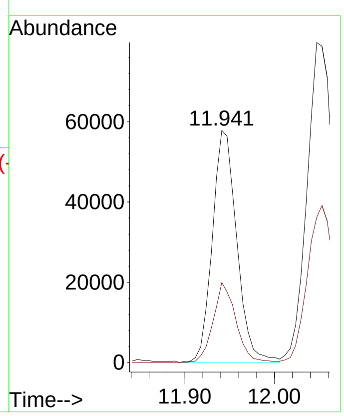




#66
Ethyl Benzene
Concen: 5.140 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 91 Resp: 109599

Ion	Ratio	Lower	Upper
91	100		
106	34.5	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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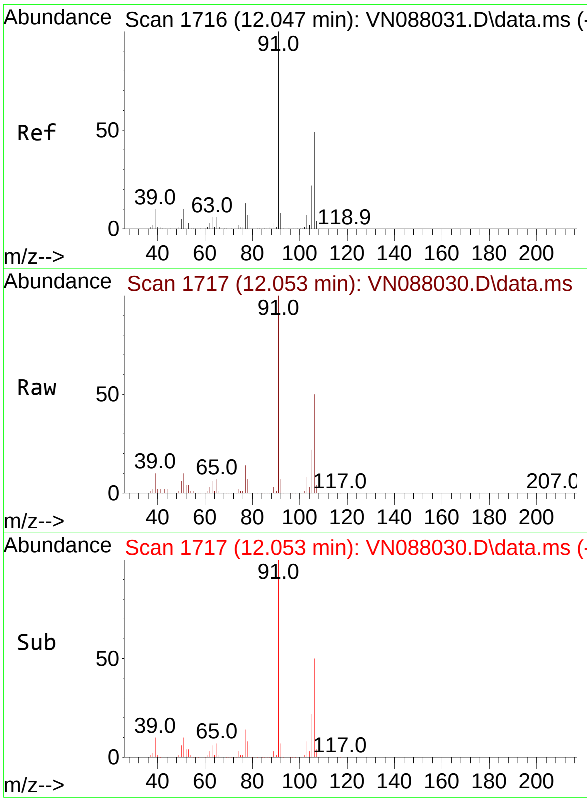
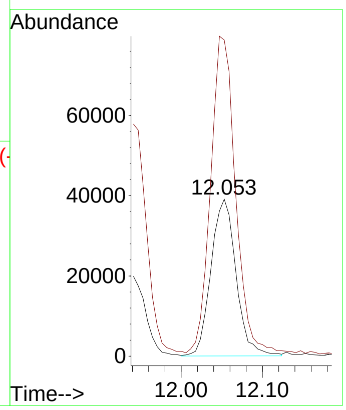
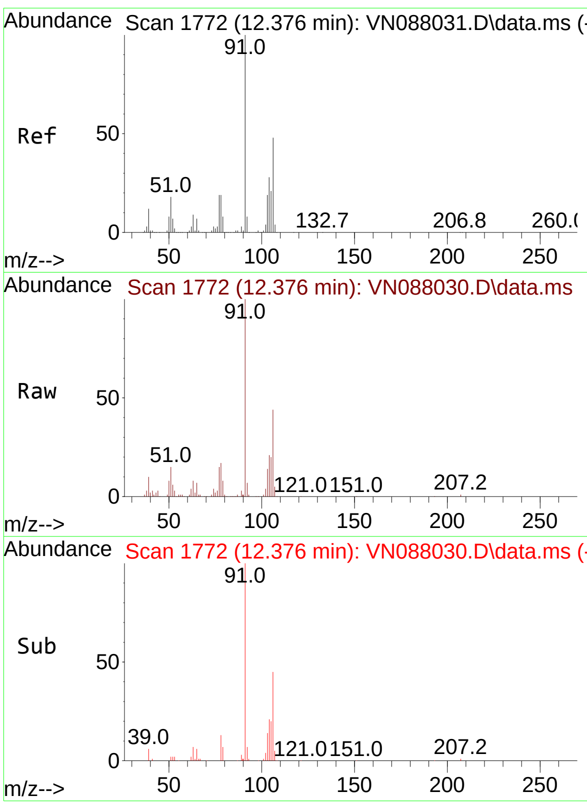
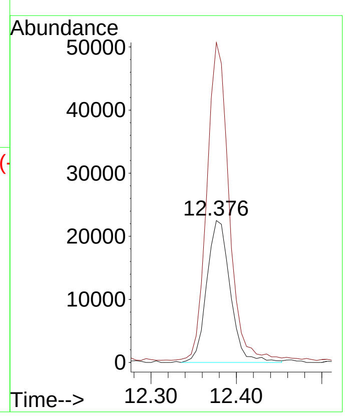



```
#67
m/p-Xylenes
Concen:   10.213 ug/l
RT:  12.053 min  Scan# 1
Delta R.T.  0.006 min
Lab File:   VN088030.D
Acq: 08 Oct 2025  09:34

Tgt Ion:106 Resp:   8394
Ion  Ratio  Lower  Upper
106  100
 91  201.4  161.4  242.0
```






```
#68
o-Xylene
Concen:    5.254 ug/l
RT:  12.376 min  Scan# 1772
Delta R.T.  0.000 min
Lab File:   VN088030.D
Acq: 08 Oct 2025  09:34

Tgt Ion:106 Resp:   42988
Ion  Ratio  Lower  Upper
106  100
 91  207.6  105.2  315.6
```



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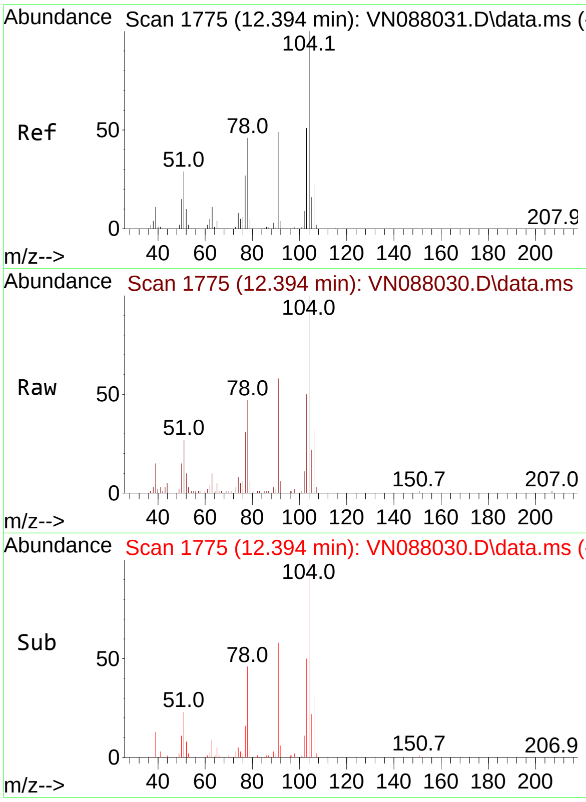
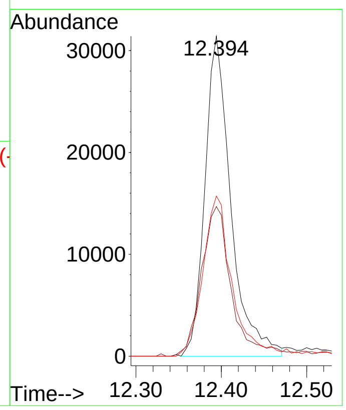


#69
Styrene
Concen: 4.917 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:104 Resp: 6655

Ion	Ratio	Lower	Upper
104	100		
78	52.1	41.8	62.6
103	54.4	44.9	67.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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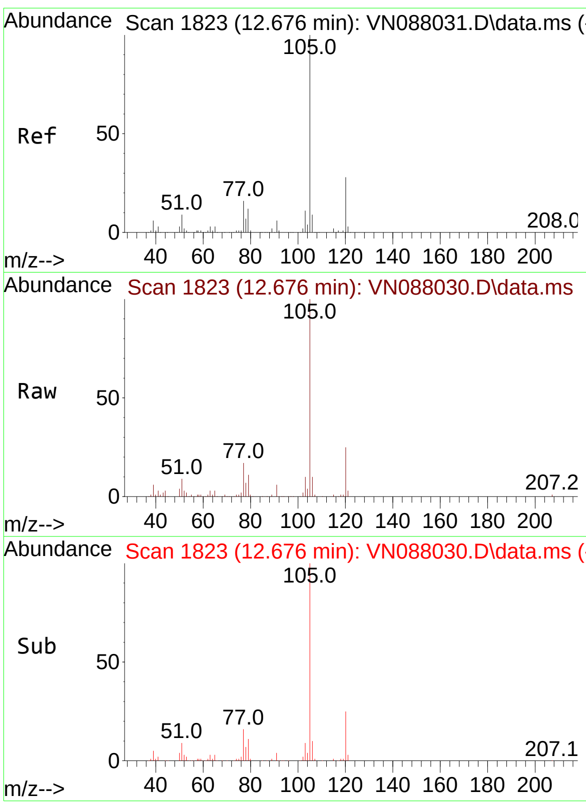
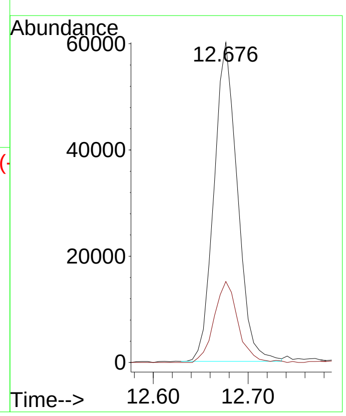


#70
Isopropylbenzene
Concen: 5.146 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:105 Resp: 103205

Ion	Ratio	Lower	Upper
105	100		
120	25.5	19.1	35.5



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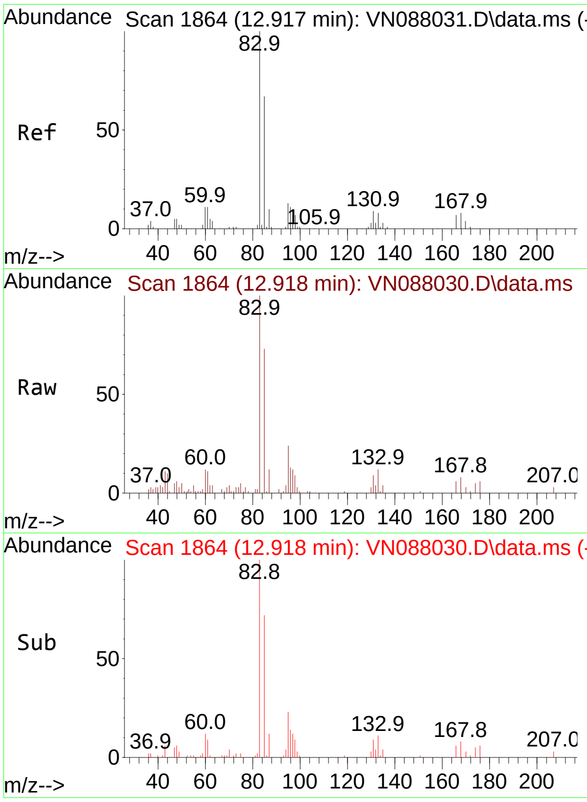

#71
1,1,2,2-Tetrachloroethane
Concen: 5.250 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 3569

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.5	32.4	97.2

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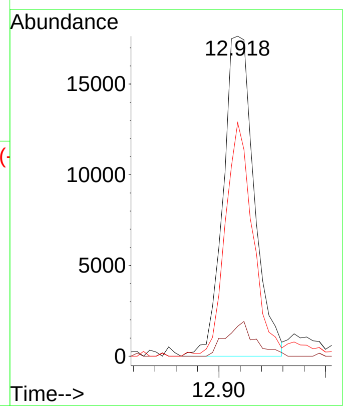
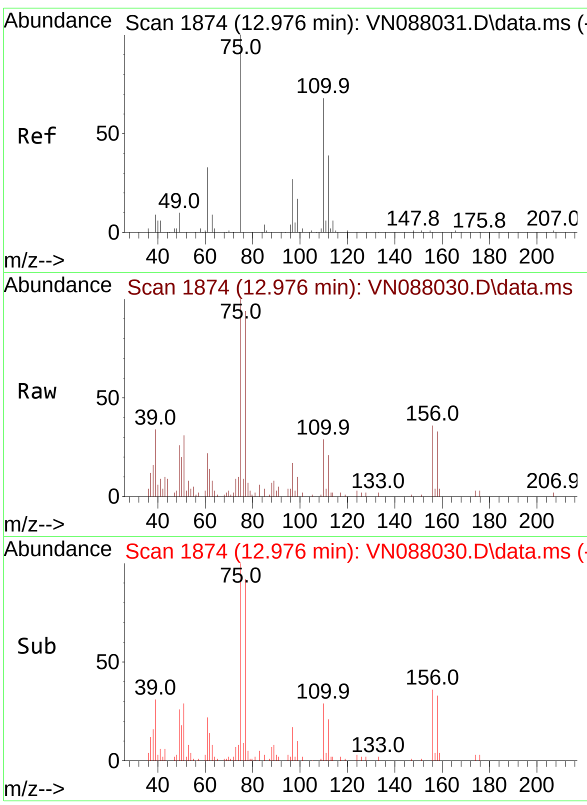
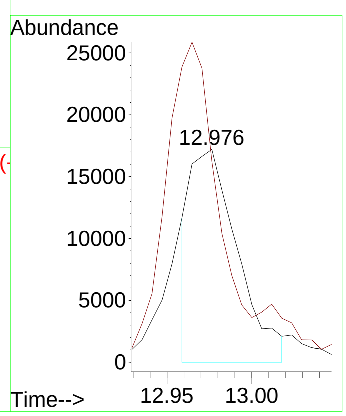




#72
1,2,3-Trichloropropane
Concen: 5.064 ug/l m
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 75 Resp: 33421

Ion	Ratio	Lower	Upper
75	100		
77	162.3	0.0	364.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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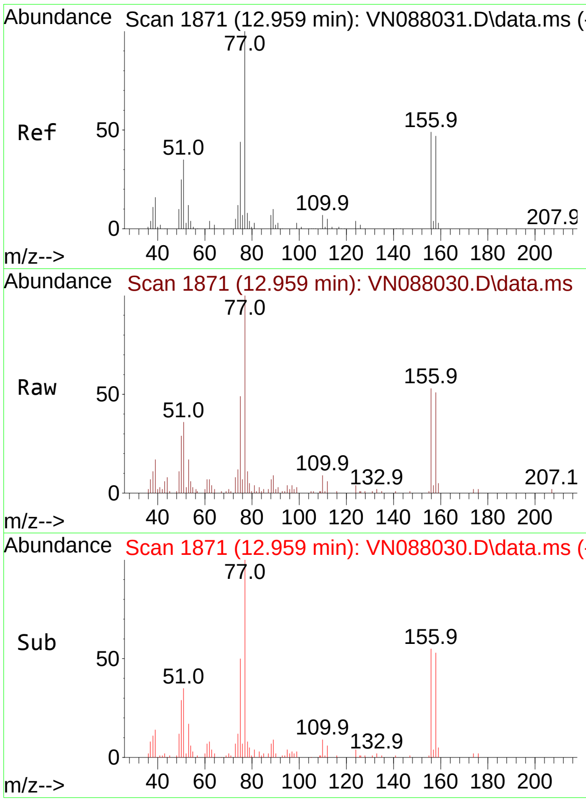
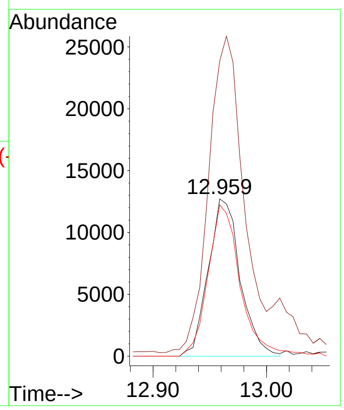
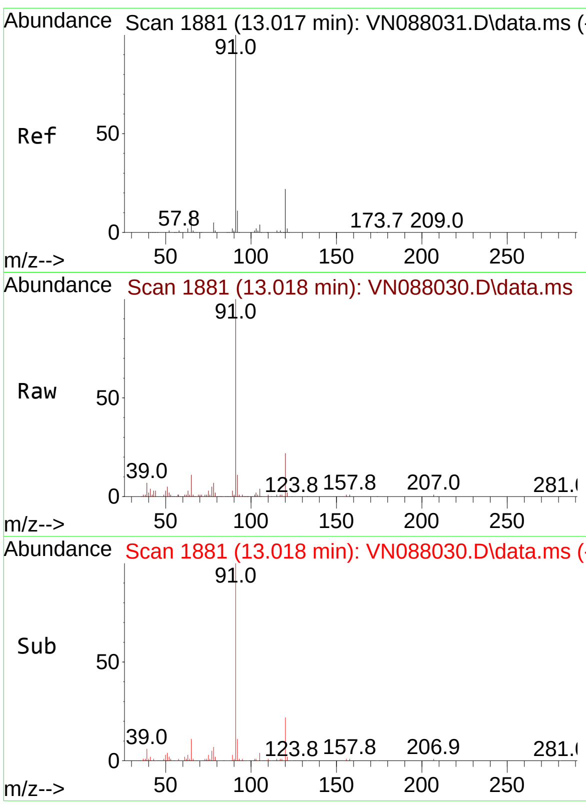


#73
Bromobenzene
Concen: 5.068 ug/l
RT: 12.959 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:156 Resp: 2483

Ion	Ratio	Lower	Upper
156	100		
77	218.3	0.0	439.8
158	97.5	0.0	190.0

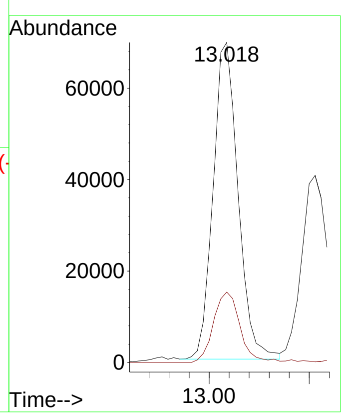




#74
n-propylbenzene
Concen: 4.971 ug/l
RT: 13.018 min Scan# 1881
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 91 Resp: 120356

Ion	Ratio	Lower	Upper
91	100		
120	23.1	0.0	46.2



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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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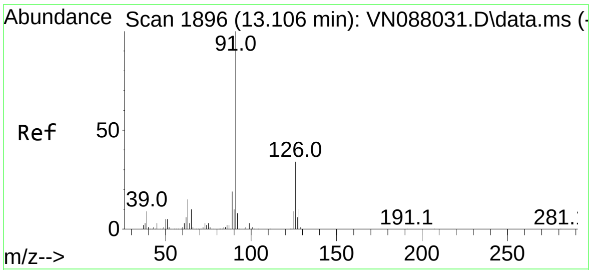
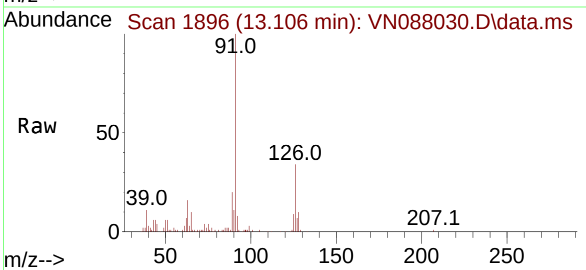
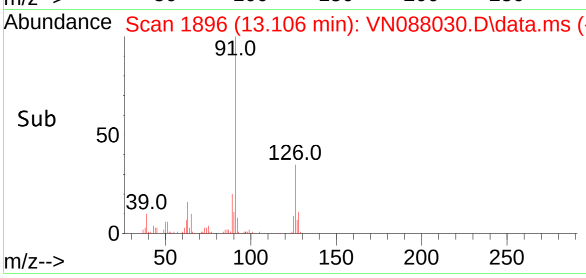
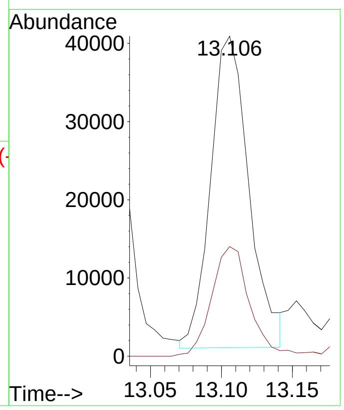


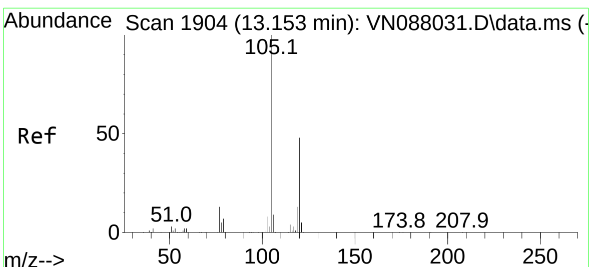


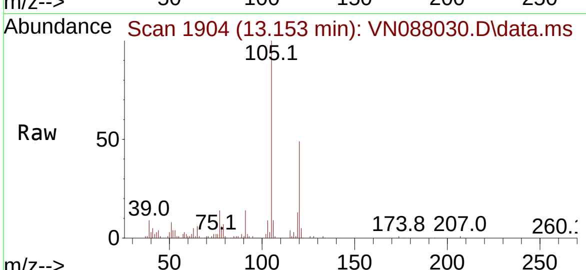


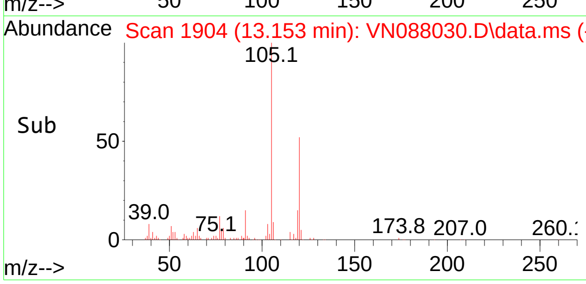

```
#75
2-Chlorotoluene
Concen:    5.055 ug/l
RT:  13.106 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088030.D
Acq: 08 Oct 2025  09:34

Tgt Ion: 91 Resp:   7482
Ion  Ratio  Lower  Upper
 91  100
126   34.6    0.0   66.6
```



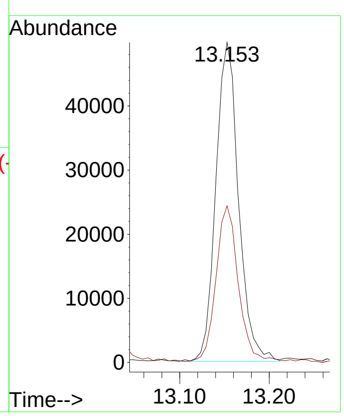







```
#76
1,3,5-Trimethylbenzene
Concen:    5.144 ug/l
RT:  13.153 min  Scan# 1904
Delta R.T.  0.000 min
Lab File:   VN088030.D
Acq: 08 Oct 2025  09:34

Tgt Ion:105 Resp:   87631
Ion  Ratio  Lower  Upper
105  100
120   48.1    0.0  100.6
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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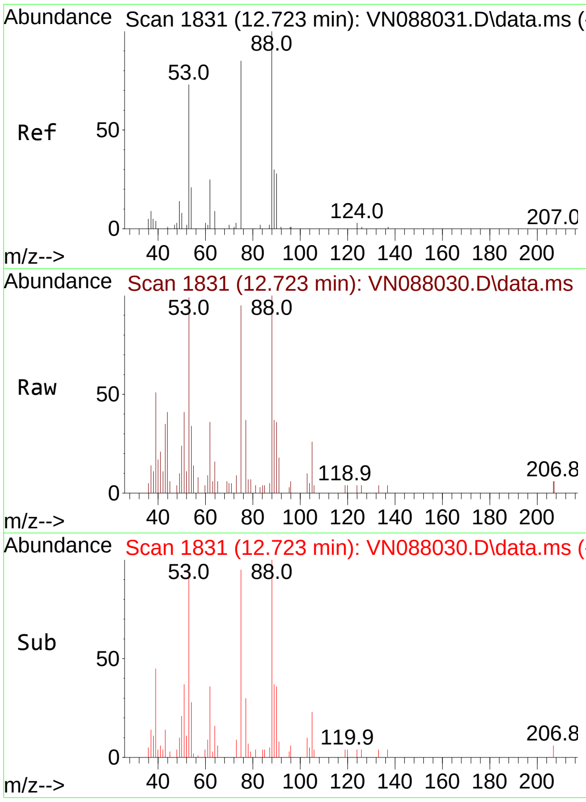
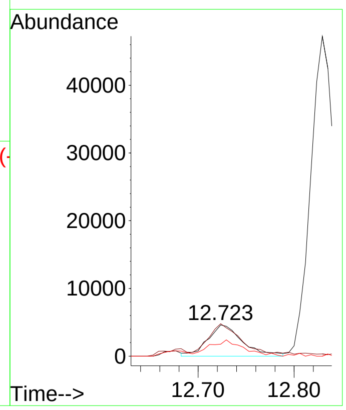
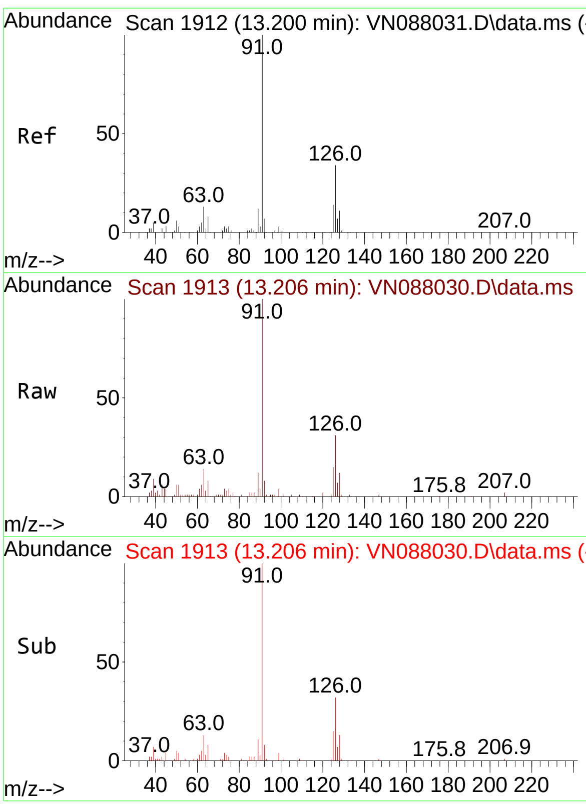


#77
t-1,4-Dichloro-2-butene
Concen: 4.776 ug/l m
RT: 12.723 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 75 Resp: 1166

Ion	Ratio	Lower	Upper
75	100		
53	104.2	41.8	125.3
89	38.7	19.9	59.6

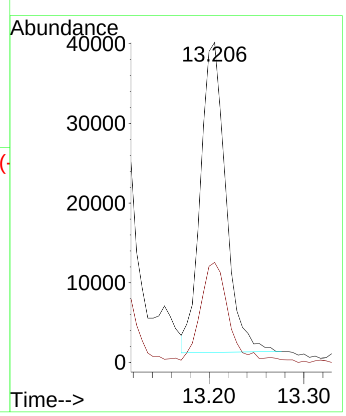




#78
4-Chlorotoluene
Concen: 4.805 ug/l
RT: 13.206 min Scan# 1913
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 91 Resp: 72267

Ion	Ratio	Lower	Upper
91	100		
126	34.3	0.0	68.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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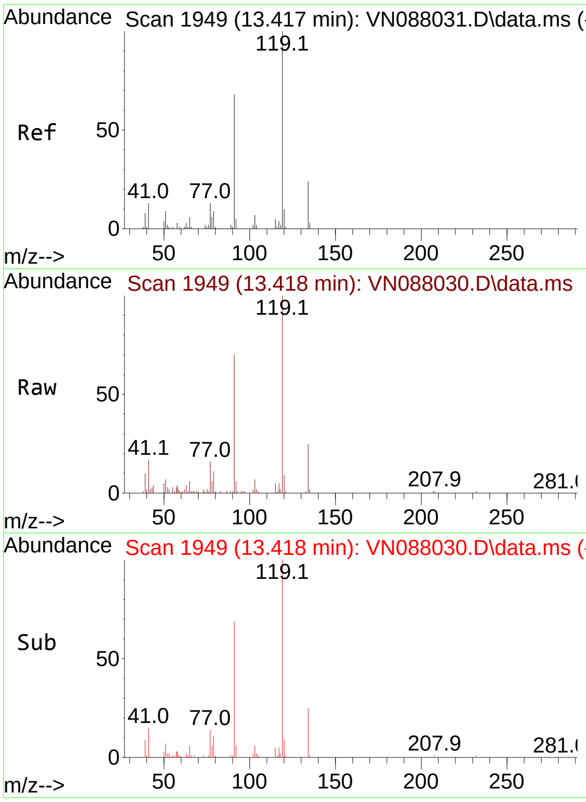
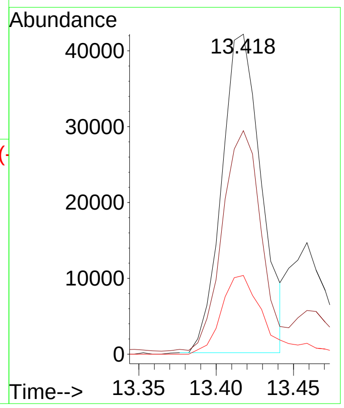
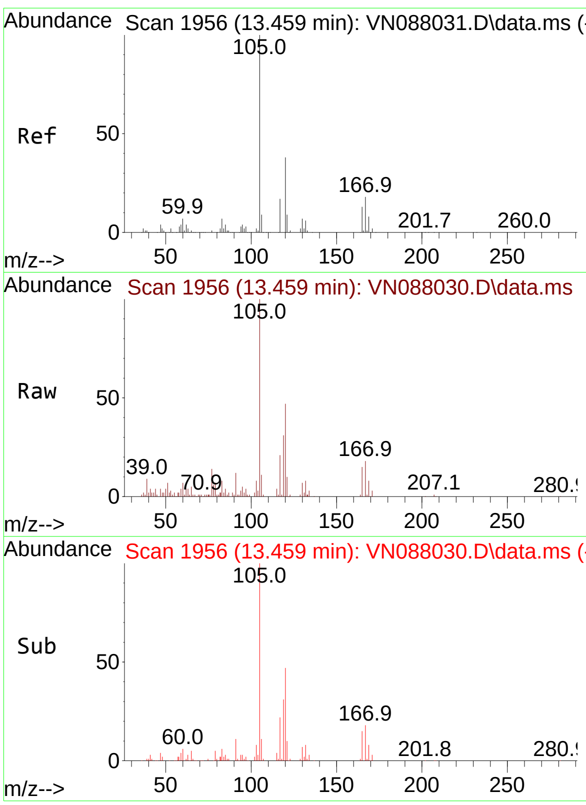


#79
tert-butylbenzene
Concen: 5.053 ug/l
RT: 13.418 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:119 Resp: 7461

Ion	Ratio	Lower	Upper
119	100		
91	68.6	0.0	132.4
134	25.5	0.0	48.6

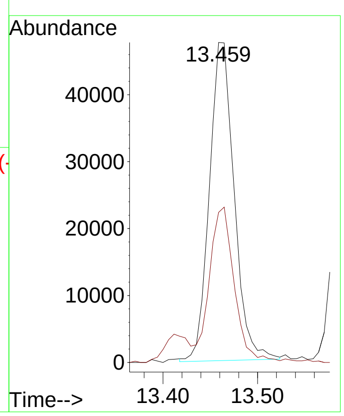


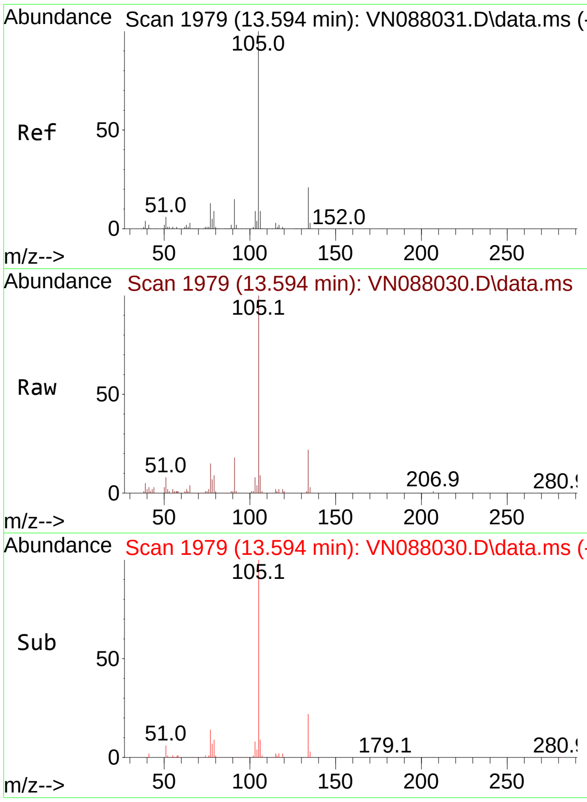


#80
1,2,4-Trimethylbenzene
Concen: 5.084 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:105 Resp: 86692

Ion	Ratio	Lower	Upper
105	100		
120	47.5	0.0	93.8





#81
sec-Butylbenzene
Concen: 5.111 ug/l
RT: 13.594 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:105 Resp: 10611

Ion	Ratio	Lower	Upper
105	100		
134	20.4	0.0	41.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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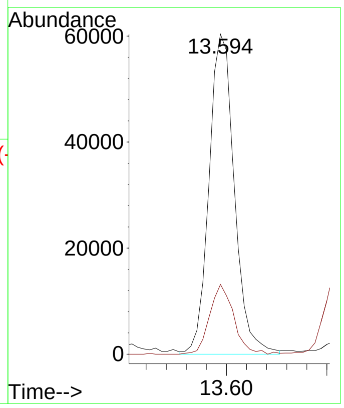
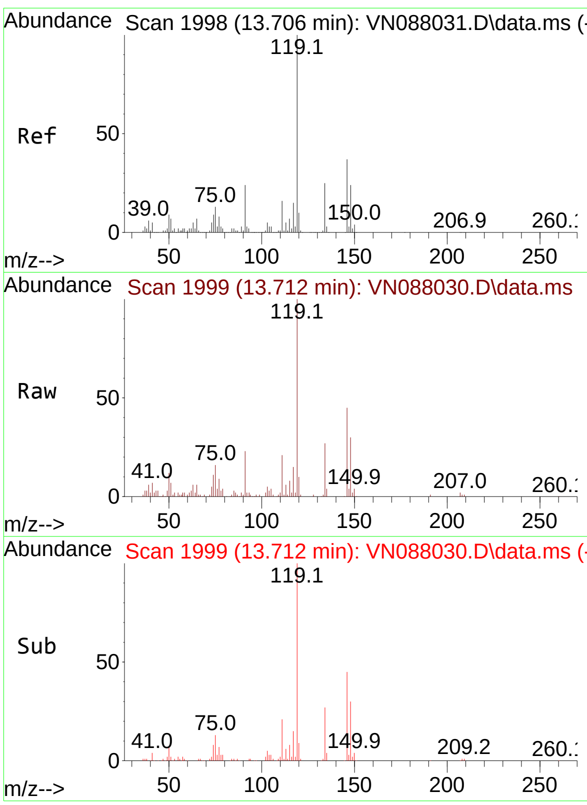
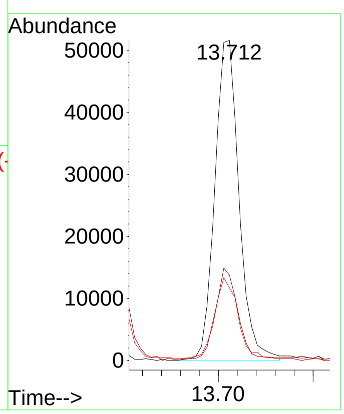




#82
p-Isopropyltoluene
Concen: 5.168 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:119 Resp: 91611

Ion	Ratio	Lower	Upper
119	100		
134	27.5	0.0	52.6
91	23.8	0.0	48.2



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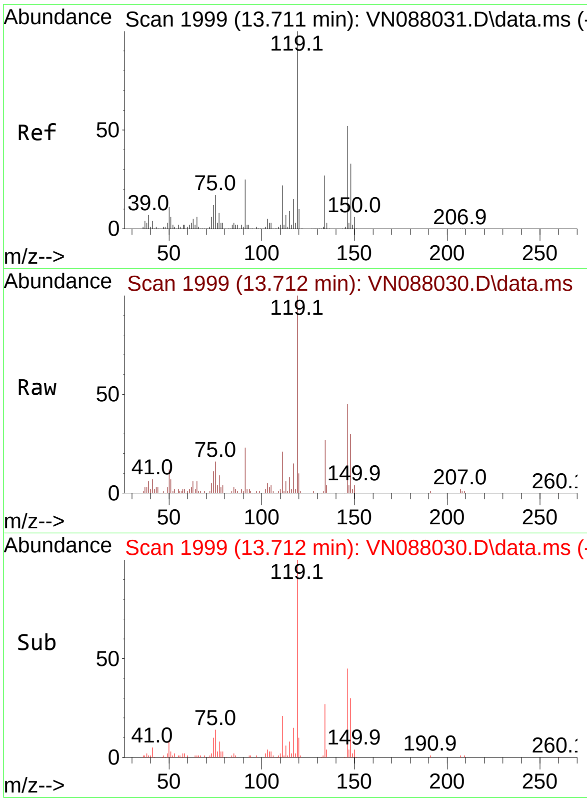
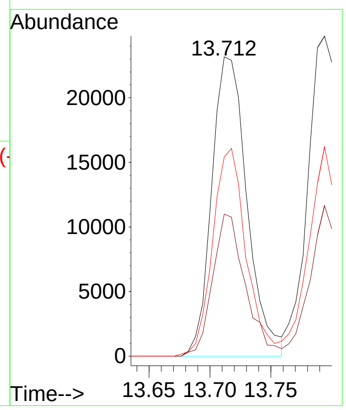


#83
1,3-Dichlorobenzene
Concen: 5.062 ug/l
RT: 13.712 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:146 Resp: 4668

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.1	63.1
148	65.6	31.5	94.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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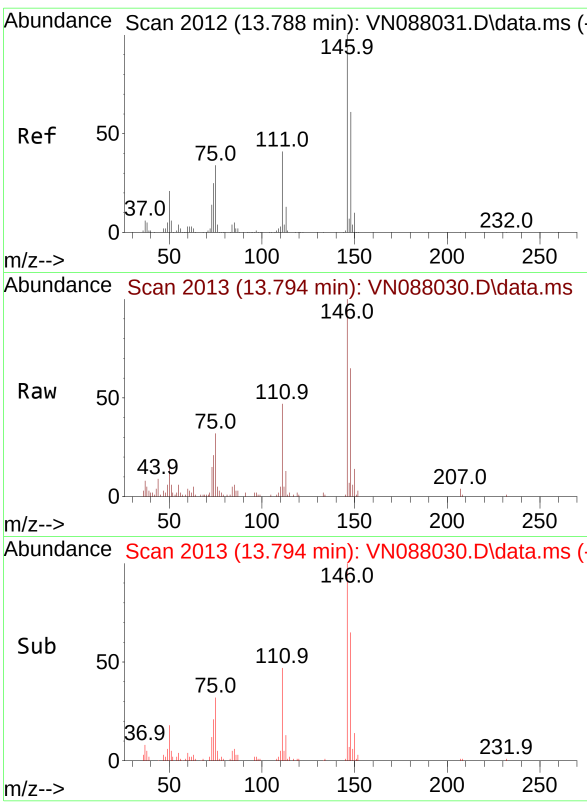
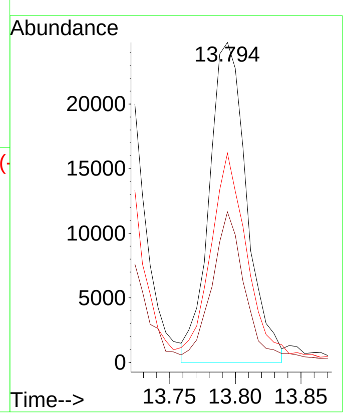


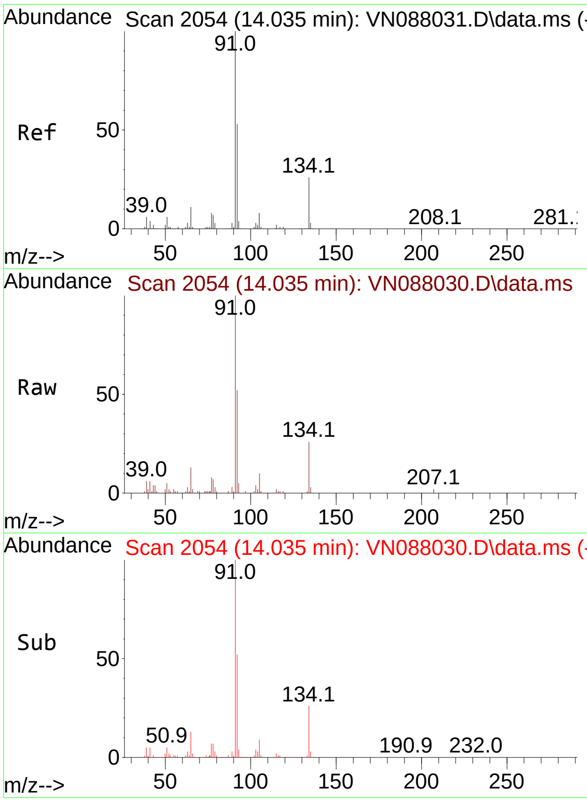
#84
1,4-Dichlorobenzene
Concen: 5.180 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:146 Resp: 49265

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.5	61.6
148	64.9	31.9	95.9



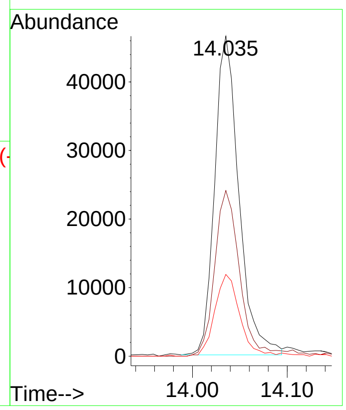
ICAL Form



#85
n-Butylbenzene
Concen: 5.013 ug/l
RT: 14.035 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 91 Resp: 8268

Ion	Ratio	Lower	Upper
91	100		
92	52.4	0.0	107.6
134	26.2	0.0	52.6

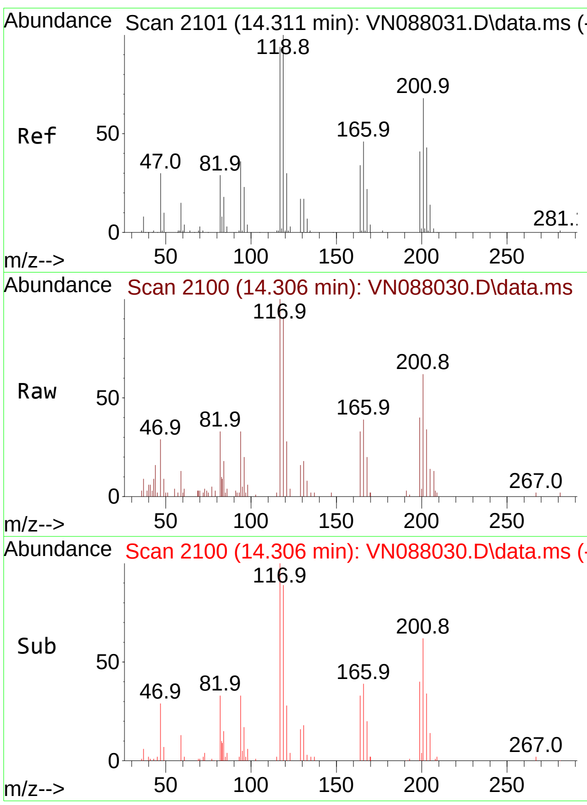


Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda

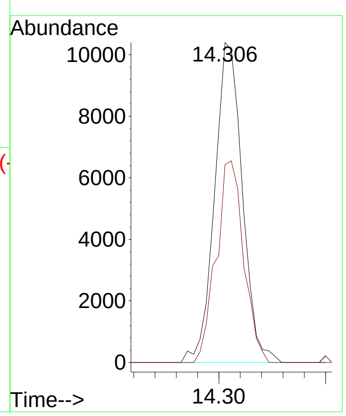
10/10/2025

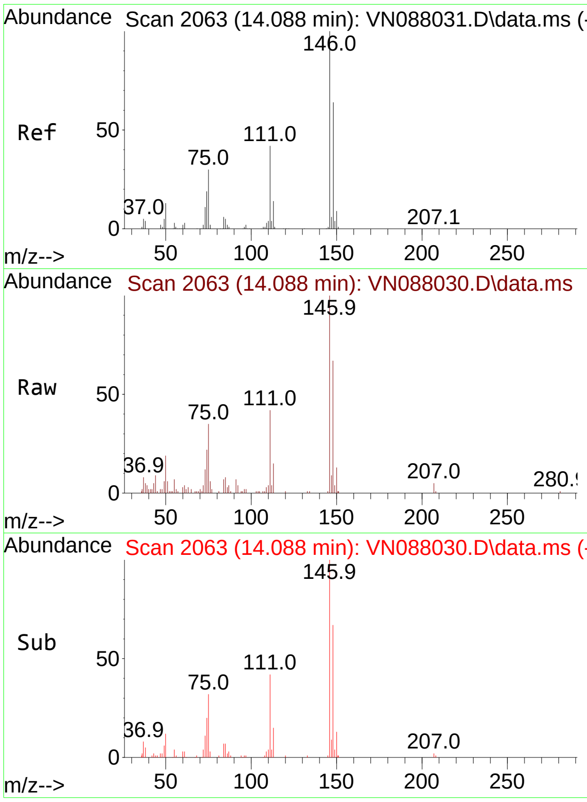


#86
Hexachloroethane
Concen: 5.286 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:117 Resp: 18772

Ion	Ratio	Lower	Upper
117	100		
201	62.3	34.8	104.3





#87
1,2-Dichlorobenzene
Concen: 5.217 ug/l
RT: 14.088 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

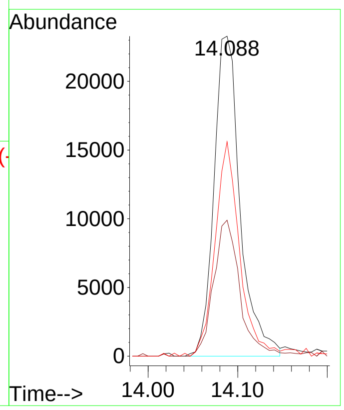
Tgt Ion:146 Resp: 4732

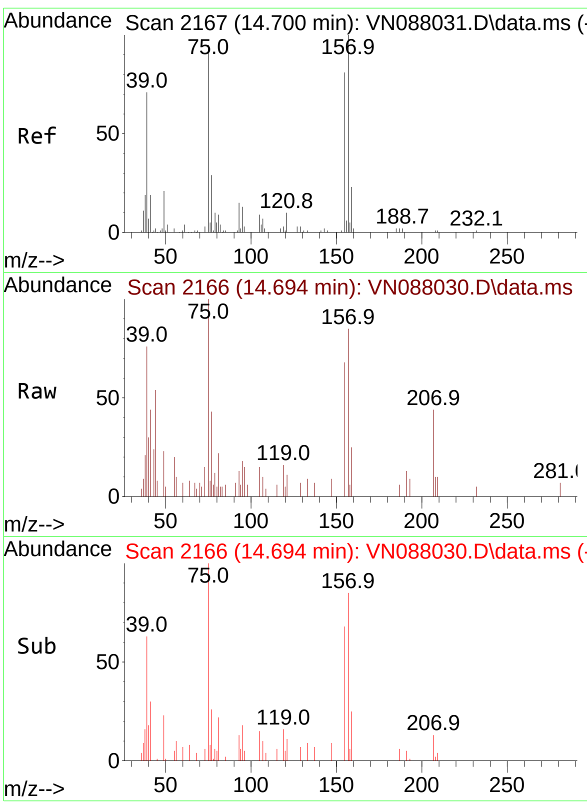
Ion	Ratio	Lower	Upper
146	100		
111	42.5	22.3	66.8
148	62.4	31.4	94.3

Manual Integrations APPROVED

Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda

10/10/2025

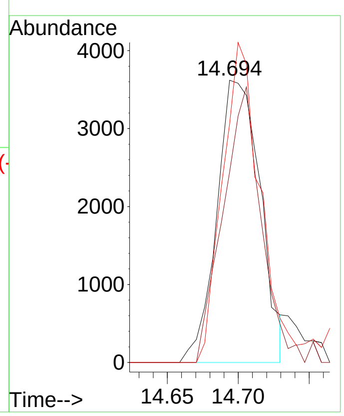


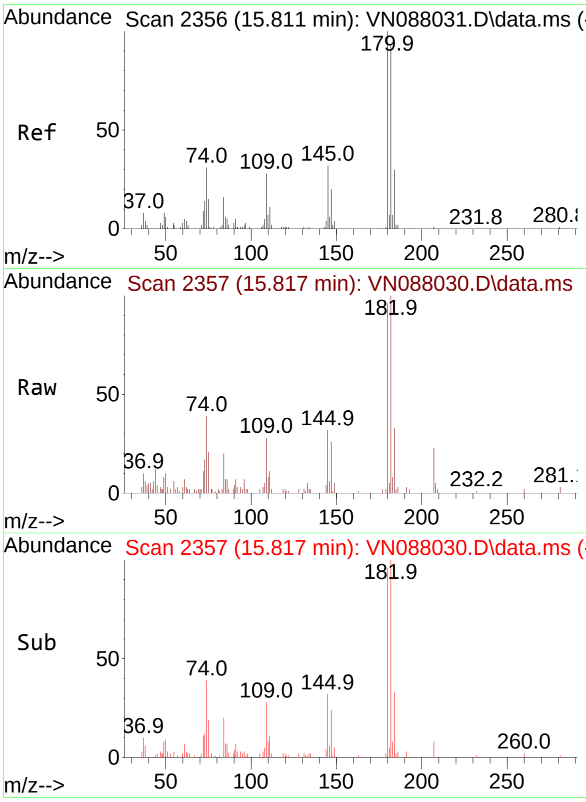


#88
1,2-Dibromo-3-Chloropropane
Concen: 4.938 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion: 75 Resp: 7710

Ion	Ratio	Lower	Upper
75	100		
155	85.5	63.5	95.3
157	98.3	81.7	122.5





#89
1,2,4-Trichlorobenzene
Concen: 4.978 ug/l
RT: 15.817 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

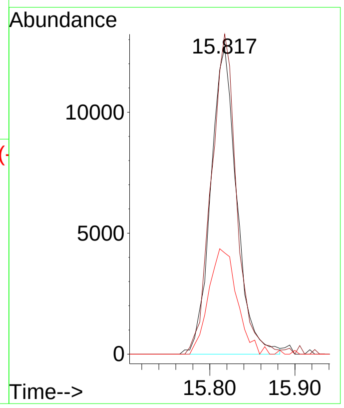
Tgt Ion:180 Resp: 26899

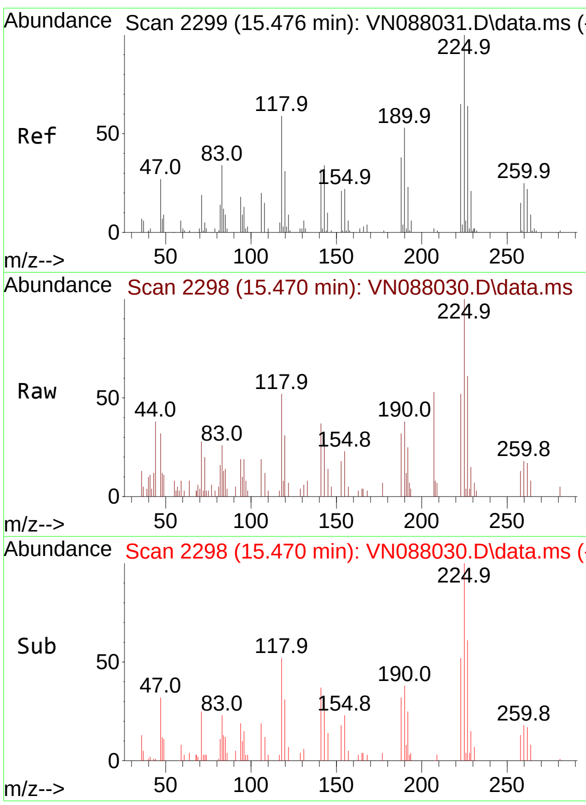
Ion	Ratio	Lower	Upper
180	100		
182	101.2	74.6	112.0
145	37.3	27.2	40.8

Manual Integrations APPROVED

Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda

10/10/2025

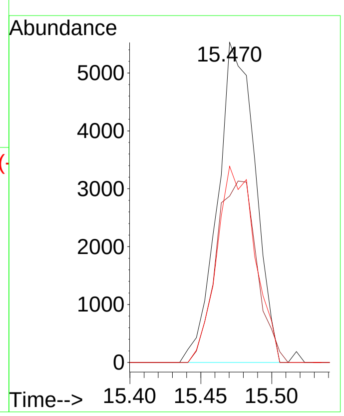




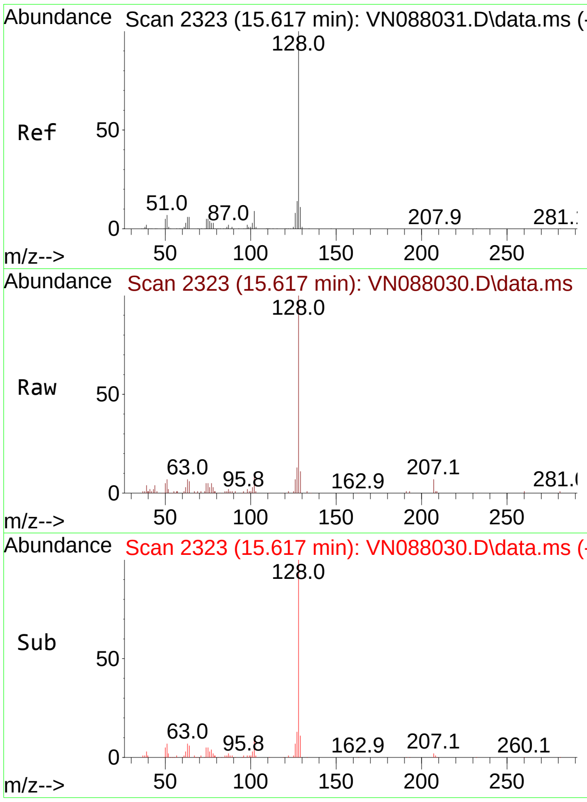
#90
Hexachlorobutadiene
Concen: 5.417 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:225 Resp: 10187

Ion	Ratio	Lower	Upper
225	100		
223	61.6	0.0	129.6
227	62.4	0.0	132.2



ICAL Form



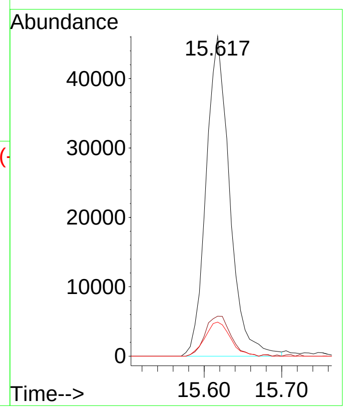
#91
Naphthalene
Concen: 4.924 ug/l
RT: 15.617 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

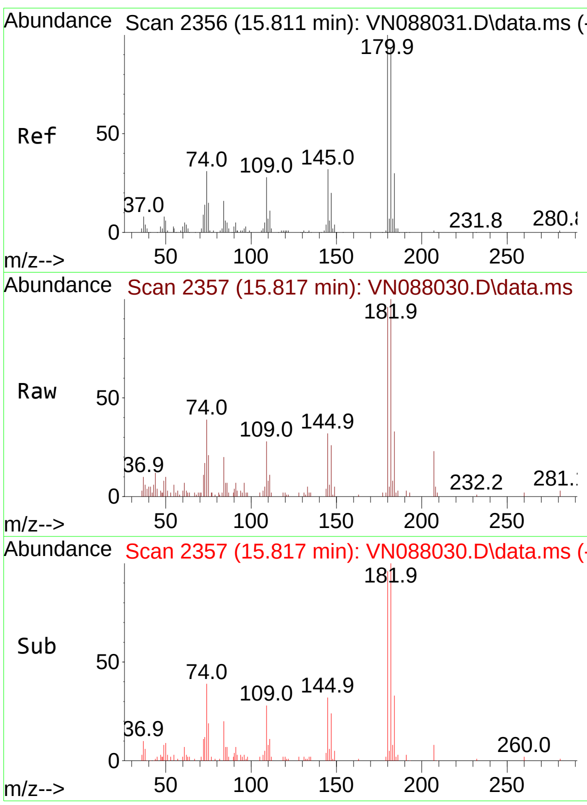
Tgt Ion:128 Resp: 9740

Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.3	15.5
129	11.5	8.6	13.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone
10/09/2025
Supervised By :Mahesh Dadoda
10/10/2025

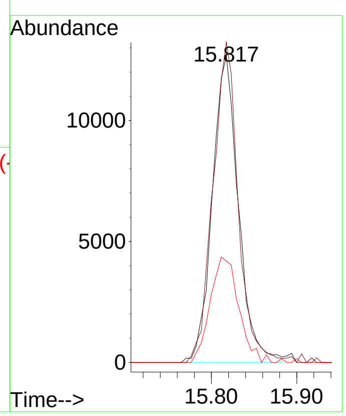




#92
1,2,3-Trichlorobenzene
Concen: 4.978 ug/l
RT: 15.817 min Scan# 2357
Delta R.T. 0.006 min
Lab File: VN088030.D
Acq: 08 Oct 2025 09:34

Tgt Ion:180 Resp: 26899

Ion	Ratio	Lower	Upper
180	100		
182	101.2	0.0	186.6
145	37.3	0.0	68.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088031.D
Acq On : 08 Oct 2025 10:08
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Quant Time: Oct 09 02:01:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	71387	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	401663	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	355387	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	165568	29.785	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.267%			
60) 4-Bromofluorobenzene	12.829	95	176557	30.136	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.467%			
63) Toluene-d8	10.547	98	477319	30.145	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	85073	20.806	ug/l	100
3) Chloromethane	2.383	50	92431	19.939	ug/l	100
4) Vinyl Chloride	2.536	62	97272	20.124	ug/l	100
5) Bromomethane	2.983	94	49554	19.065	ug/l	100
6) Chloroethane	3.136	64	63320	19.859	ug/l	98
7) Trichlorofluoromethane	3.506	101	130253	19.817	ug/l	100
8) Diethyl Ether	3.959	74	58264	19.618	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	69507	19.754	ug/l	100
10) 1,1-Dichloroethene	4.330	96	74211	19.771	ug/l	100
11) Methyl Iodide	4.577	142	57156	16.522	ug/l	100
12) Methyl Acetate	5.018	43	120527	20.303	ug/l	100
13) Acrolein	4.177	56	83909	88.861	ug/l #	4
14) Acrylonitrile	5.706	53	290536	98.664	ug/l	100
15) Acetone	4.424	58	86871	100.424	ug/l	100
16) Carbon Disulfide	4.694	76	231559	19.680	ug/l	100
17) Allyl chloride	5.012	41	139881	19.750	ug/l	100
18) Methylene Chloride	5.259	84	92593	19.409	ug/l	100
19) trans-1,2-Dichloroethene	5.777	96	86884	20.021	ug/l	100
20) Diisopropyl ether	6.659	45	320294	19.864	ug/l	100
21) 1,1-Dichloroethane	6.553	63	167086	19.905	ug/l	100
22) cis-1,2-Dichloroethene	7.471	96	107728	19.831	ug/l	100
23) tert-Butyl Alcohol	5.530	59	117569	99.549	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	319297	19.708	ug/l	100
25) Chloroform	7.953	83	170511	19.684	ug/l	100
26) Cyclohexane	8.241	56	141068	20.283	ug/l	100
29) 1,1-Dichloropropene	8.353	75	112668	19.569	ug/l	100
30) 2-Butanone	7.477	43	422066	99.396	ug/l	100
31) 2,2-Dichloropropane	7.477	77	147354	19.837	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	144223	20.047	ug/l	100
33) Carbon Tetrachloride	8.347	117	119094	19.764	ug/l	100
34) Benzene	8.588	78	375303	19.653	ug/l	100
35) Methacrylonitrile	7.759	41	89107	19.955	ug/l	100
36) 1,2-Dichloroethane	8.653	62	131101	19.775	ug/l	100
37) Trichloroethene	9.335	130	89526	19.787	ug/l	100
38) Methylcyclohexane	9.582	83	139683	19.646	ug/l	100
39) 1,2-Dichloropropane	9.600	63	93775	19.584	ug/l	100
40) Dibromomethane	9.688	93	69093	19.823	ug/l	100
41) Bromodichloromethane	9.871	83	138534	19.460	ug/l	100
42) Vinyl Acetate	6.588	43	1347005	93.117	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088031.D
Acq On : 08 Oct 2025 10:08
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 02:01:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	163041	19.974	ug/l	100
44) Isopropyl Acetate	8.677	43	261811	19.638	ug/l	100
45) 1,4-Dioxane	9.676	88	38180	430.590	ug/l	100
46) Methyl methacrylate	9.665	41	103153	17.569	ug/l	100
47) n-amyl Acetate	12.570	43	122978m	20.993	ug/l	
48) t-1,3-Dichloropropene	10.818	75	152693	19.289	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	161768	19.591	ug/l	100
50) 1,1,2-Trichloroethane	10.994	97	90592	19.626	ug/l	100
51) Ethyl methacrylate	10.859	69	147903	18.933	ug/l	100
52) 1,3-Dichloropropane	11.141	76	158729	19.710	ug/l	100
53) Dibromochloromethane	11.335	129	106989	19.388	ug/l	100
54) 1,2-Dibromoethane	11.447	107	96091	19.472	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	427409	101.363	ug/l	100
56) Bromoform	12.559	173	71081	19.053	ug/l	100
58) 4-Methyl-2-Pentanone	10.429	43	794535	99.952	ug/l	100
59) 2-Hexanone	11.182	43	517498	98.602	ug/l	100
61) Tetrachloroethene	11.082	164	72535	20.155	ug/l	100
62) Toluene	10.612	91	402666	19.975	ug/l	100
64) Chlorobenzene	11.870	112	256863	19.949	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	90536	20.403	ug/l	100
66) Ethyl Benzene	11.941	91	435618	19.873	ug/l	100
67) m/p-Xylenes	12.047	106	338147	40.016	ug/l	100
68) o-Xylene	12.376	106	168249	20.001	ug/l	100
69) Styrene	12.394	104	268372	19.286	ug/l	100
70) Isopropylbenzene	12.676	105	407637	19.771	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	138052	19.750	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	122603m	18.069	ug/l	
73) Bromobenzene	12.959	156	101455	20.133	ug/l	100
74) n-propylbenzene	13.017	91	493301	19.820	ug/l	100
75) 2-Chlorotoluene	13.106	91	301590	19.817	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	346960	19.811	ug/l	100
77) t-1,4-Dichloro-2-butene	12.723	75	46433	18.492	ug/l	100
78) 4-Chlorotoluene	13.200	91	307157	19.866	ug/l	100
79) tert-butylbenzene	13.417	119	304884	20.082	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	349065	19.910	ug/l	100
81) sec-Butylbenzene	13.594	105	426975	20.002	ug/l	100
82) p-Isopropyltoluene	13.706	119	364945	20.025	ug/l	100
83) 1,3-Dichlorobenzene	13.711	146	190476	20.090	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	197354	20.183	ug/l	100
85) n-Butylbenzene	14.035	91	339471	20.022	ug/l	100
86) Hexachloroethane	14.311	117	71806	19.668	ug/l	100
87) 1,2-Dichlorobenzene	14.088	146	186272	19.974	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	33189	20.674	ug/l	100
89) 1,2,4-Trichlorobenzene	15.811	180	111303	20.037	ug/l	100
90) Hexachlorobutadiene	15.476	225	37802	19.553	ug/l	100
91) Naphthalene	15.617	128	404900	19.910	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	111303	20.037	ug/l	100

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

Quantitation Report (QT Reviewed)

ICAL Form

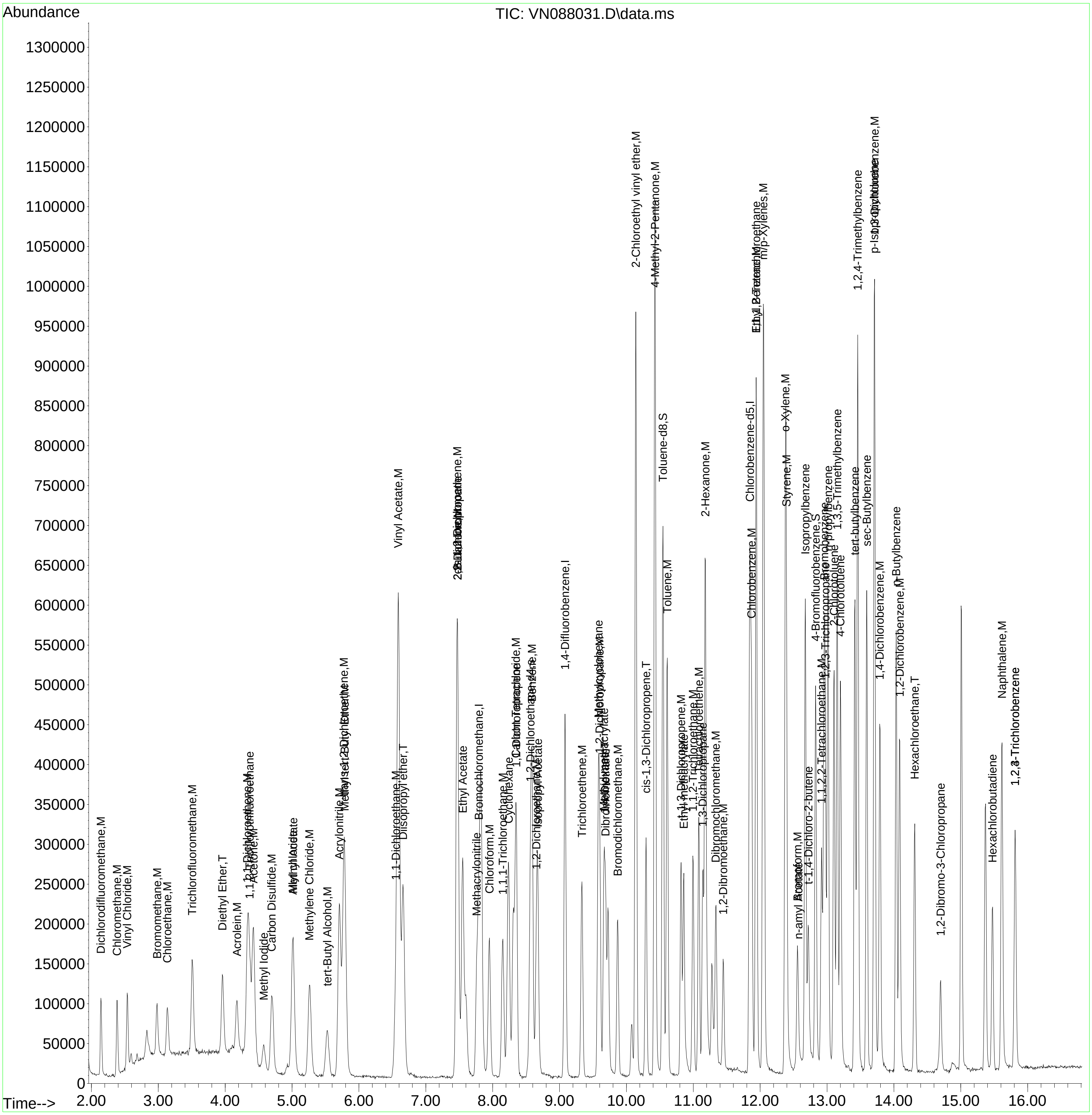
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088031.D
Acq On : 08 Oct 2025 10:08
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

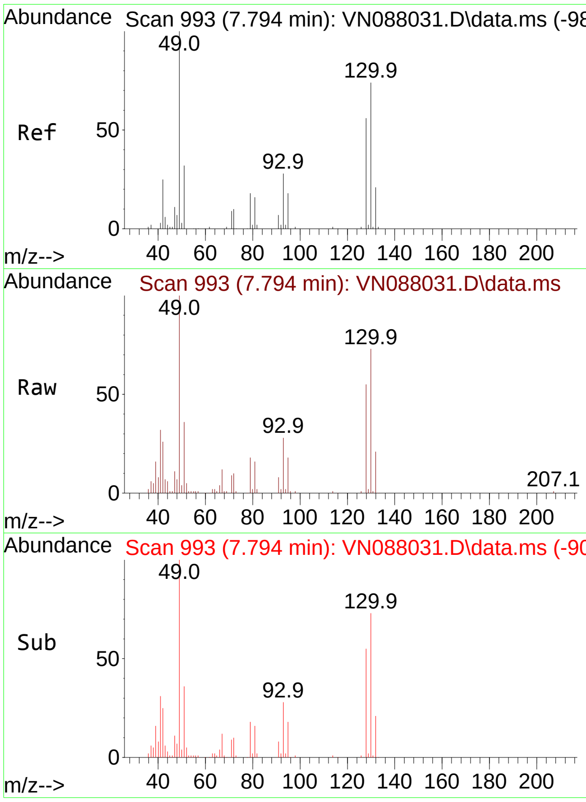
Quant Time: Oct 09 02:01:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min   Scan# 99
Delta R.T.   0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025   10:08

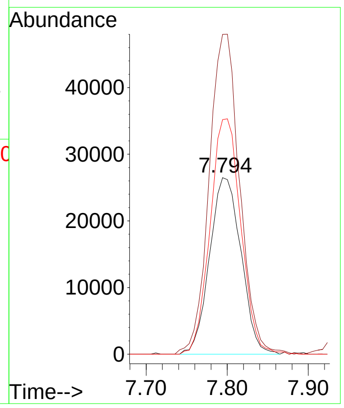
Tgt Ion:128 Resp: 7138

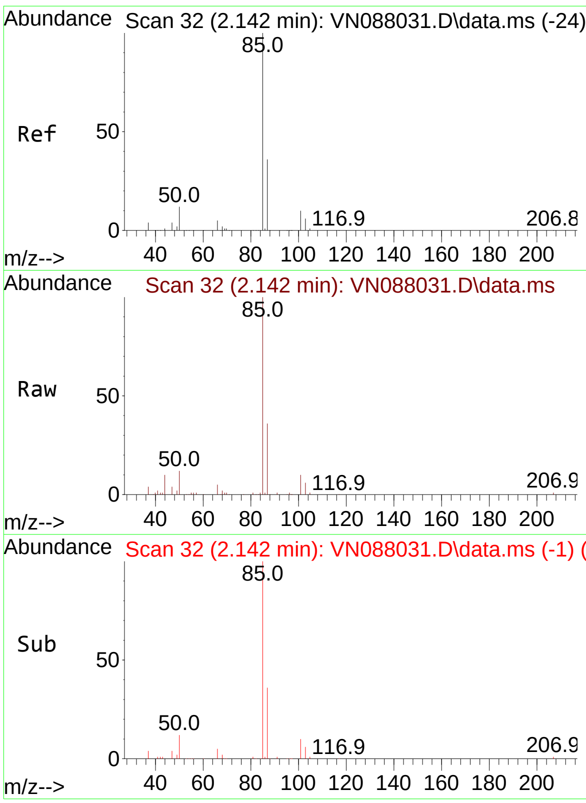
Ion	Ratio	Lower	Upper
128	100		
49	175.9	0.0	439.8
130	130.3	0.0	325.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

Reviewed By :John Carlone   10/09/2025
Supervised By :Mahesh Dadoda   10/10/2025

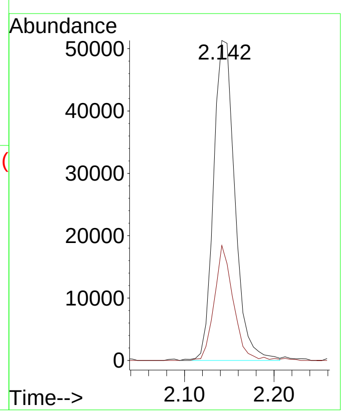




#2
Dichlorodifluoromethane
Concen: 20.806 ug/l
RT: 2.142 min   Scan# 32
Delta R.T.   0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025   10:08

Tgt Ion: 85 Resp: 85073

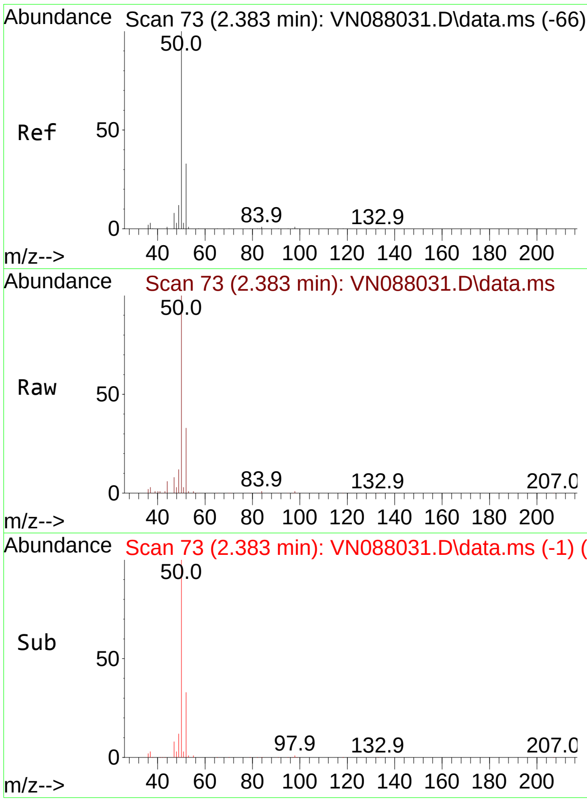
Ion	Ratio	Lower	Upper
85	100		
87	35.9	17.9	53.8



Instrument : MSVOA_N
ClientSampleId : VSTDICCC020

Manual Integrations APPROVED

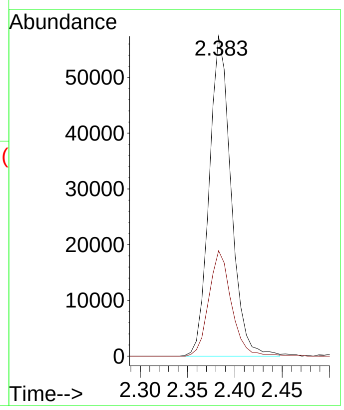
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

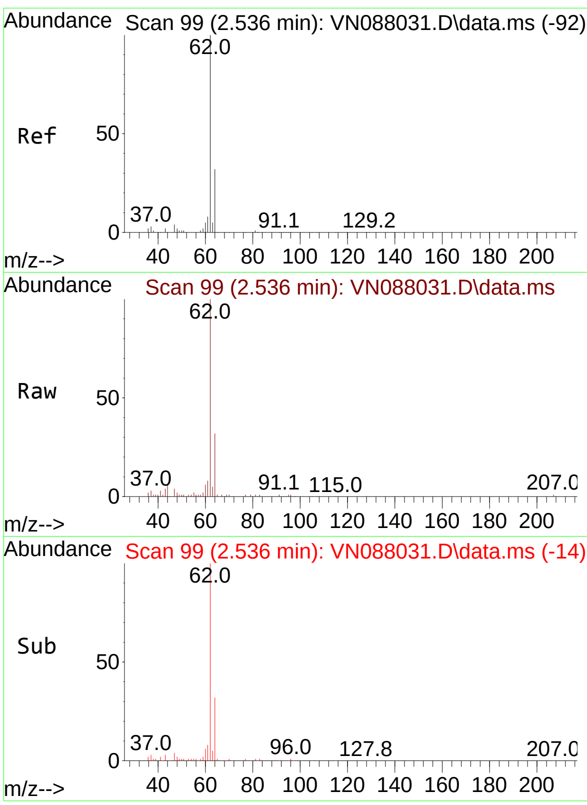


#3
Chloromethane
Concen: 19.939 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 50 Resp: 9243

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.3	39.5

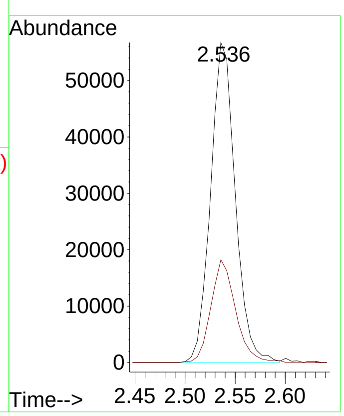




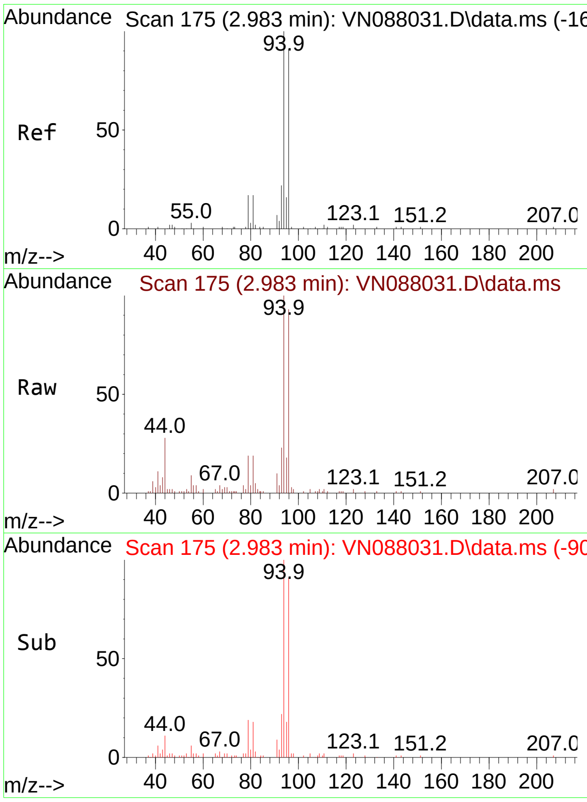
#4
Vinyl Chloride
Concen: 20.124 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 62 Resp: 97272

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5



ICAL Form



#5
Bromomethane
Concen: 19.065 ug/l
RT: 2.983 min   Scan# 1
Delta R.T.   0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025   10:08

Tgt Ion: 94 Resp: 4955

Ion	Ratio	Lower	Upper
94	100		
96	91.2	73.0	109.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations
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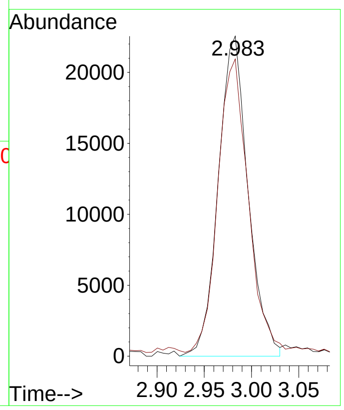
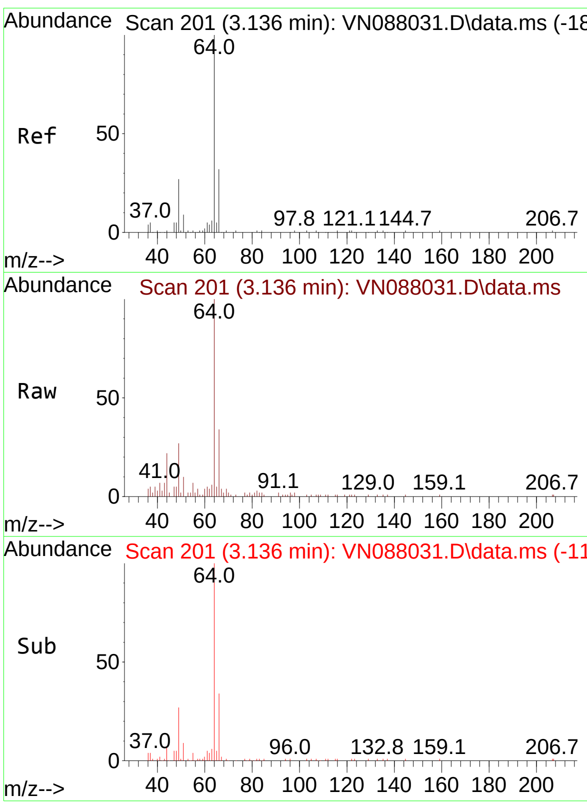
Reviewed By :John Carlone   10/09/2025
Supervised By :Mahesh Dadoda   10/10/2025

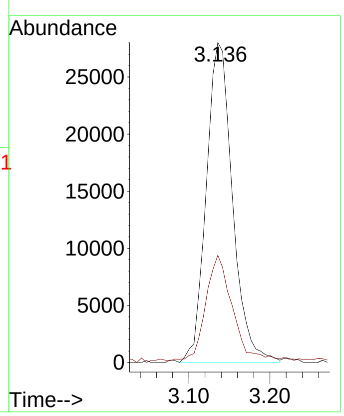




#6
Chloroethane
Concen: 19.859 ug/l
RT: 3.136 min   Scan# 201
Delta R.T.   0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025   10:08

Tgt Ion: 64 Resp: 63320

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.8	40.2



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Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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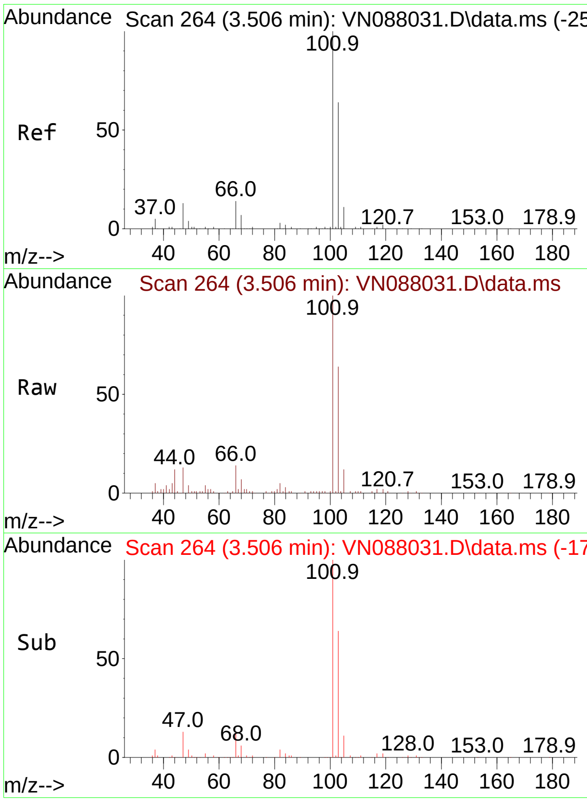
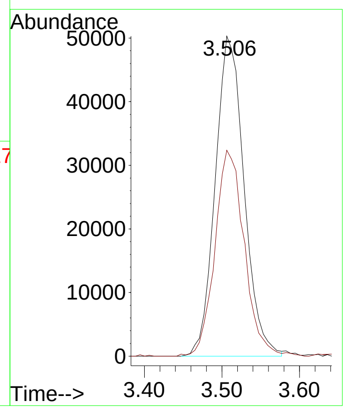
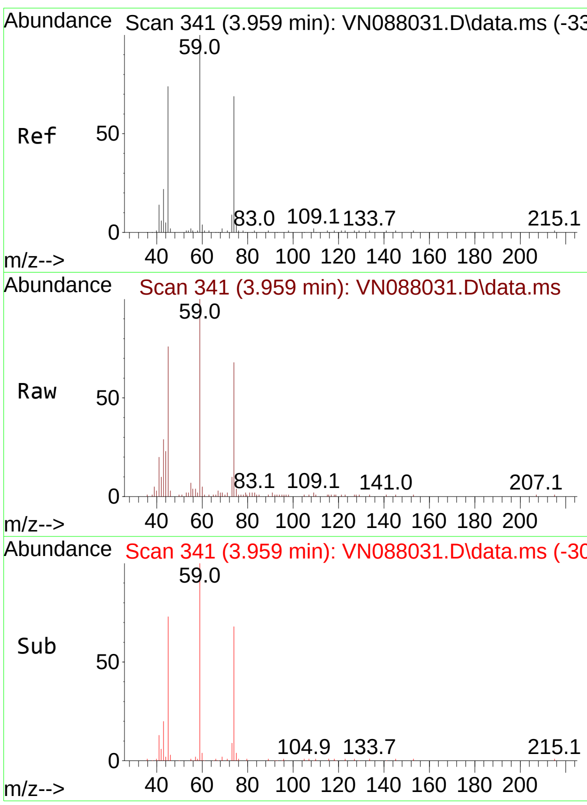


#7
Trichlorofluoromethane
Concen: 19.817 ug/l
RT: 3.506 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:101 Resp: 13025

Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.0	76.4

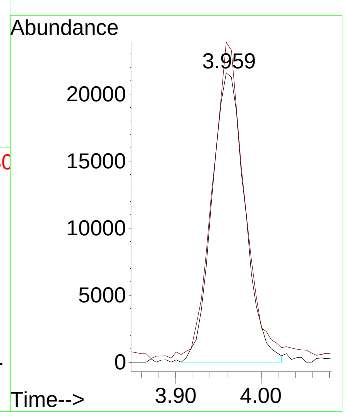


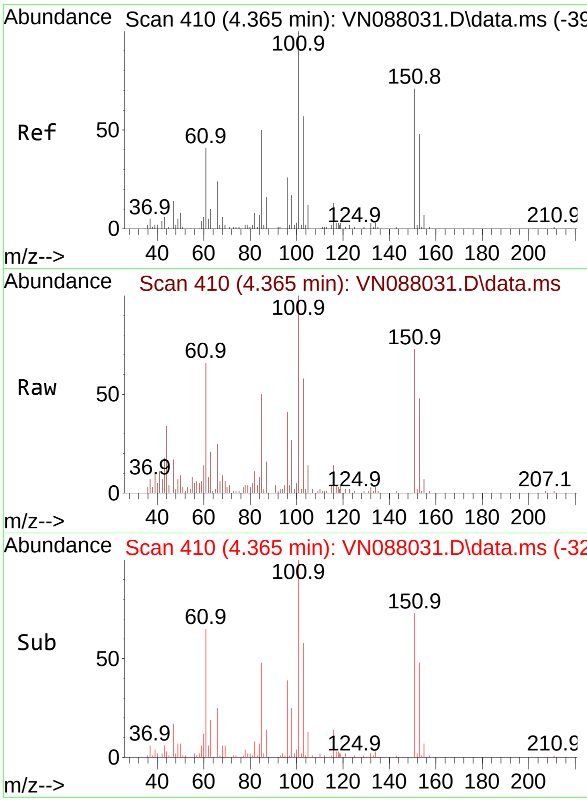


#8
Diethyl Ether
Concen: 19.618 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 74 Resp: 58264

Ion	Ratio	Lower	Upper
74	100		
45	102.1	20.4	183.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.754 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:101 Resp: 6950

Ion	Ratio	Lower	Upper
101	100		
85	51.6	0.0	103.2
151	70.7	0.0	141.4

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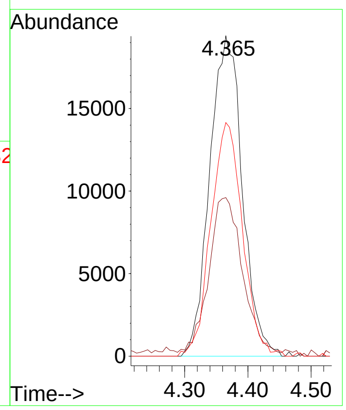
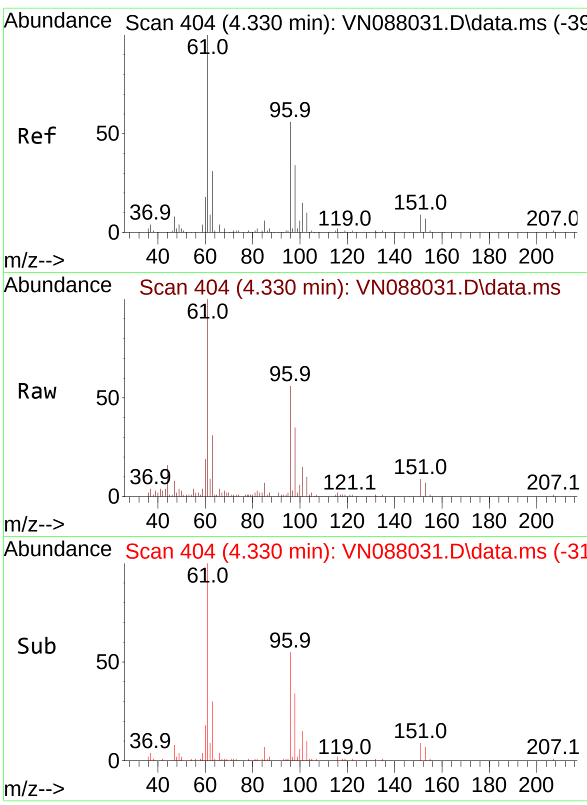
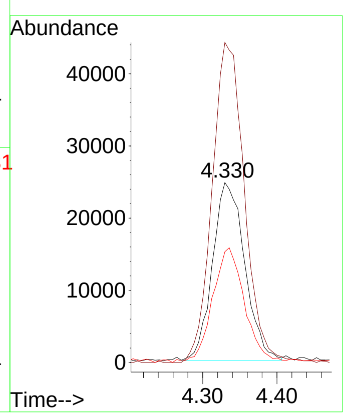




#10
1,1-Dichloroethene
Concen: 19.771 ug/l
RT: 4.330 min Scan# 404
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 96 Resp: 74211

Ion	Ratio	Lower	Upper
96	100		
61	180.1	144.1	216.1
98	61.3	49.0	73.6



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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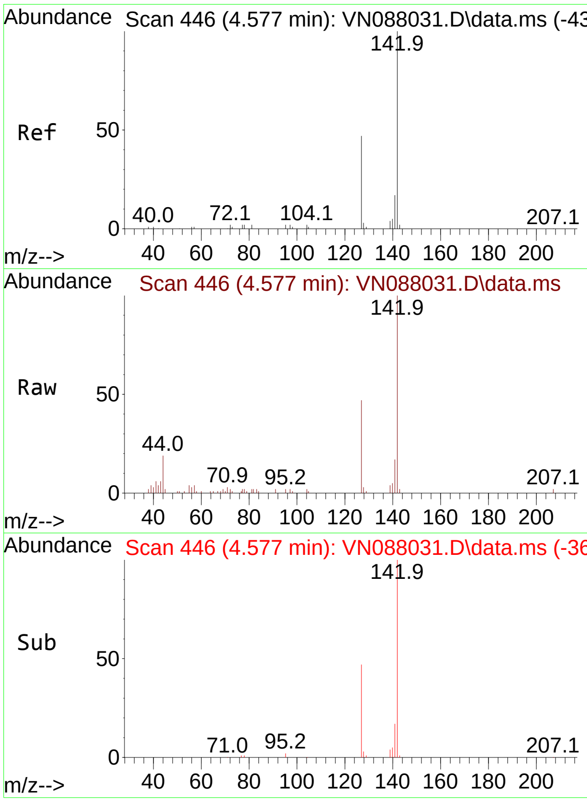
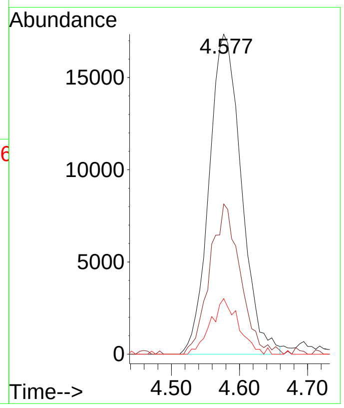
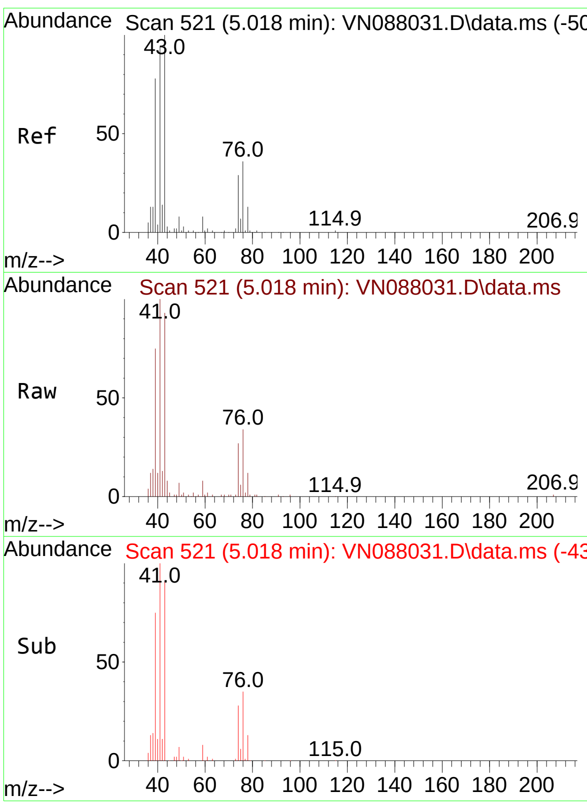


#11
Methyl Iodide
Concen: 16.522 ug/l
RT: 4.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:142 Resp: 5715

Ion	Ratio	Lower	Upper
142	100		
127	46.9	23.4	70.3
141	17.5	8.8	26.2

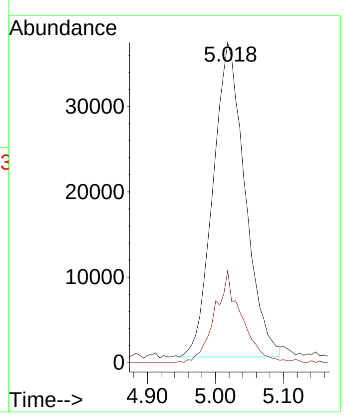




#12
Methyl Acetate
Concen: 20.303 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 43 Resp: 120527

Ion	Ratio	Lower	Upper
43	100		
74	29.1	23.3	34.9



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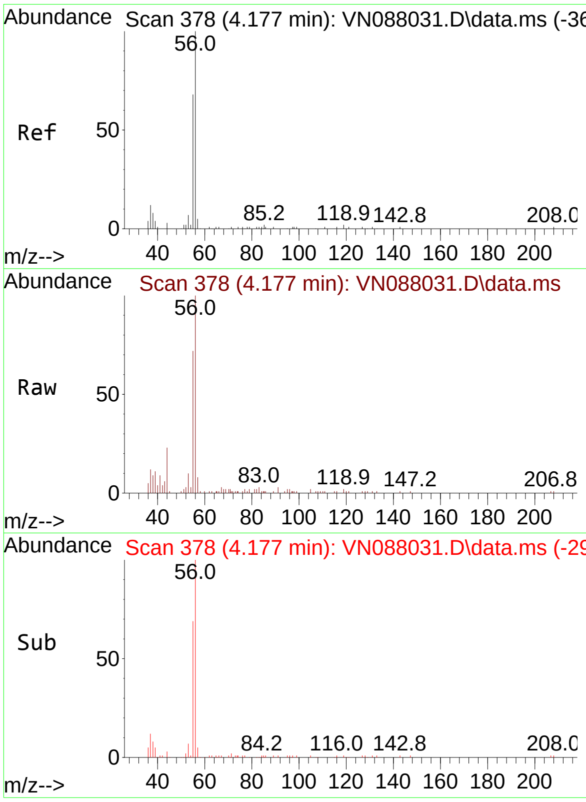

#13
Acrolein
Concen: 88.861 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 56 Resp: 8390

Ion	Ratio	Lower	Upper
56	100		
55	72.6	0.3	0.5

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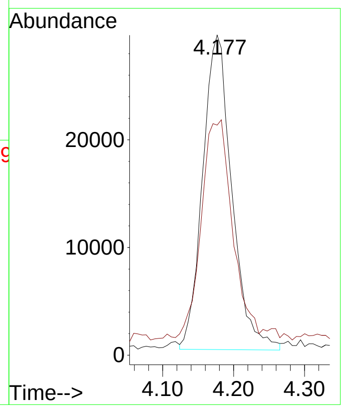
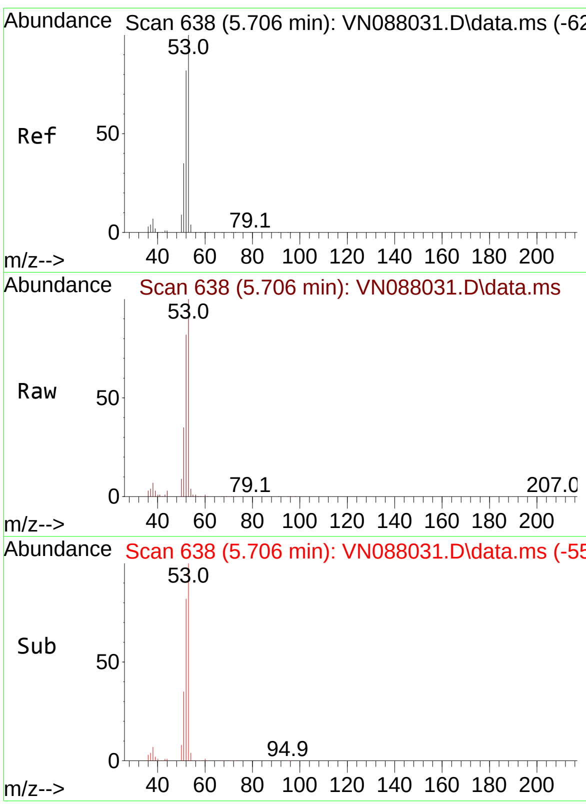
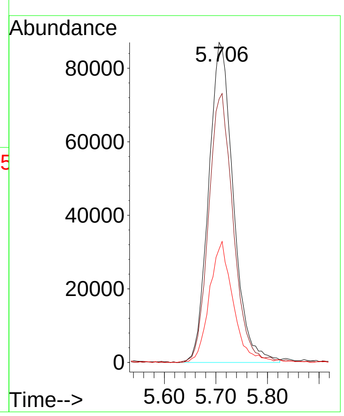




#14
Acrylonitrile
Concen: 98.664 ug/l
RT: 5.706 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 53 Resp: 290536

Ion	Ratio	Lower	Upper
53	100		
52	82.7	41.3	124.1
51	36.0	18.0	54.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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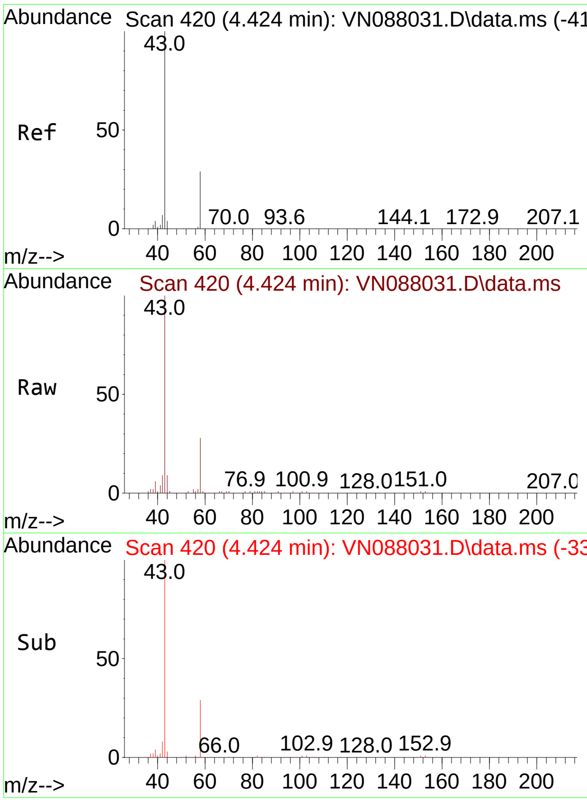
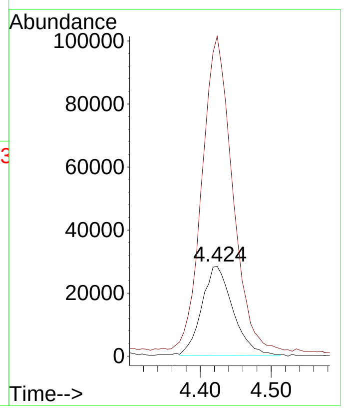
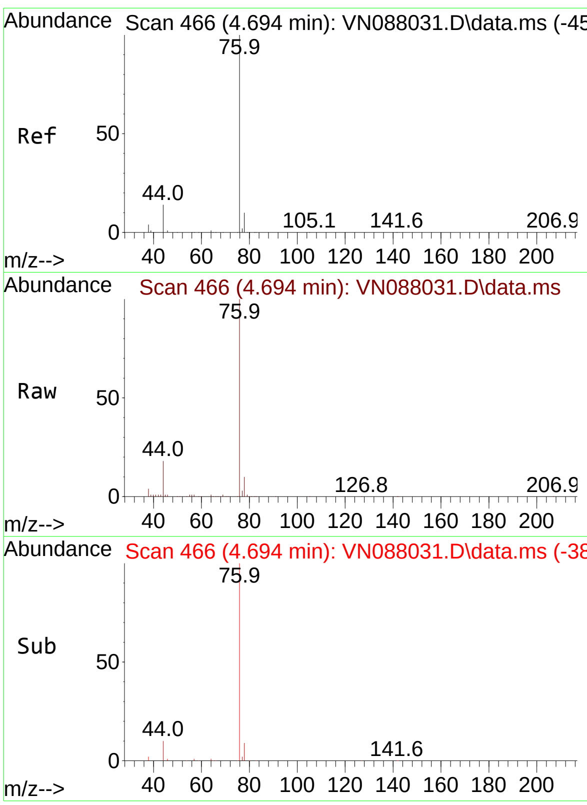


#15
Acetone
Concen: 100.424 ug/l
RT: 4.424 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 58 Resp: 8687

Ion	Ratio	Lower	Upper
58	100		
43	353.3	282.6	424.0

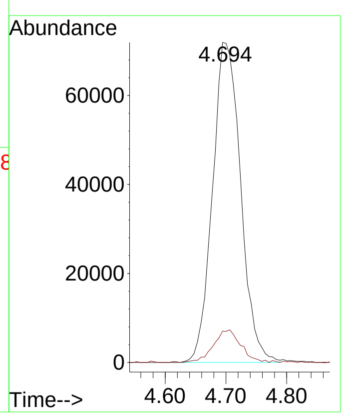




#16
Carbon Disulfide
Concen: 19.680 ug/l
RT: 4.694 min Scan# 466
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 76 Resp: 231559

Ion	Ratio	Lower	Upper
76	100		
78	9.8	7.8	11.8



Instrument : MSVOA_N
ClientSampleId : VSTDICCC020

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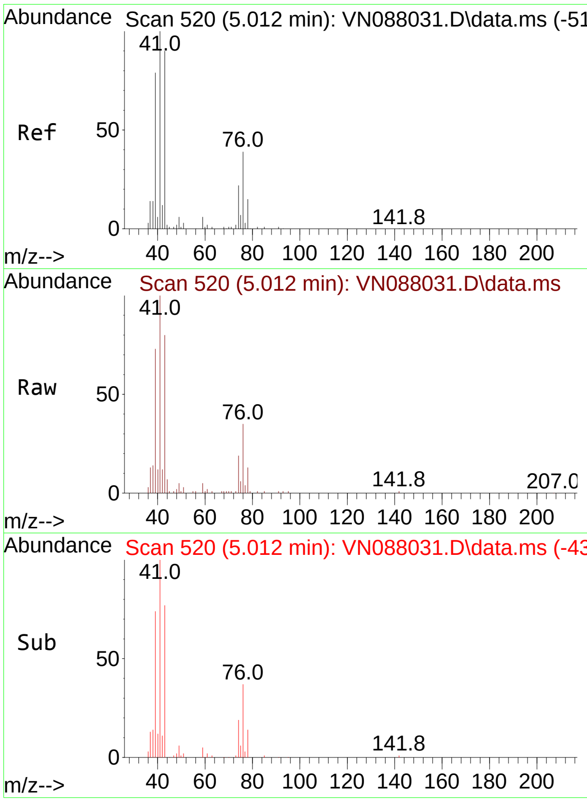
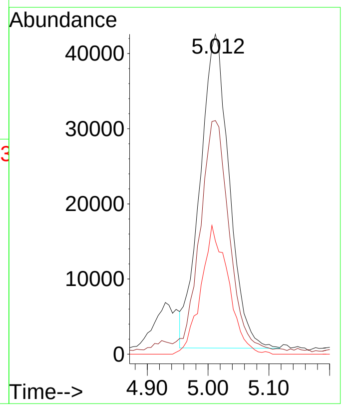
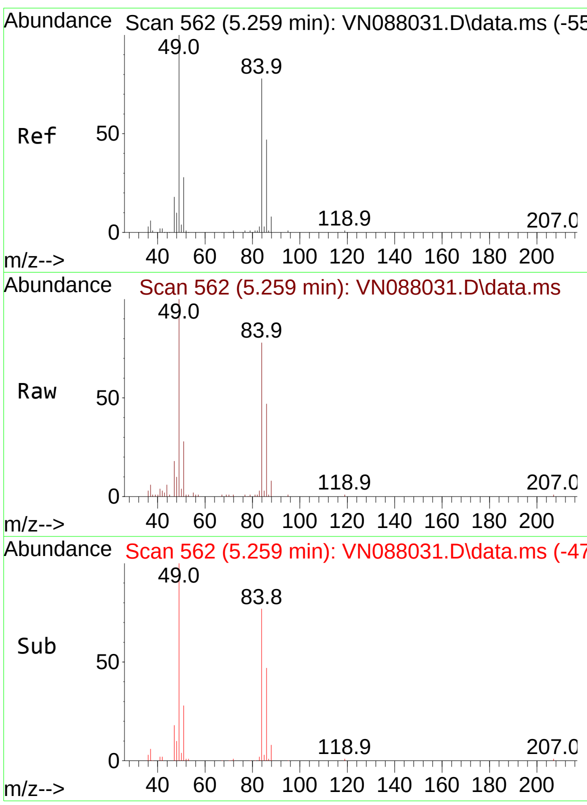
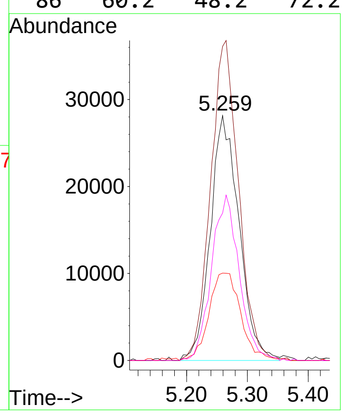



```
#17
Allyl chloride
Concen:   19.750 ug/l
RT:   5.012 min  Scan# 52
Delta R.T.  0.000 min
Lab File:   VN088031.D
Acq: 08 Oct 2025  10:08

Tgt Ion: 41 Resp:  139881
Ion  Ratio  Lower  Upper
 41  100
 39   72.8   36.4  109.2
 76   36.1   18.1   54.1
```






```
#18
Methylene Chloride
Concen:   19.409 ug/l
RT:   5.259 min  Scan# 562
Delta R.T.  0.000 min
Lab File:   VN088031.D
Acq: 08 Oct 2025  10:08

Tgt Ion: 84 Resp:   92593
Ion  Ratio  Lower  Upper
 84  100
 49  128.2  102.6  153.8
 51   35.7   28.6   42.8
 86   60.2   48.2   72.2
```



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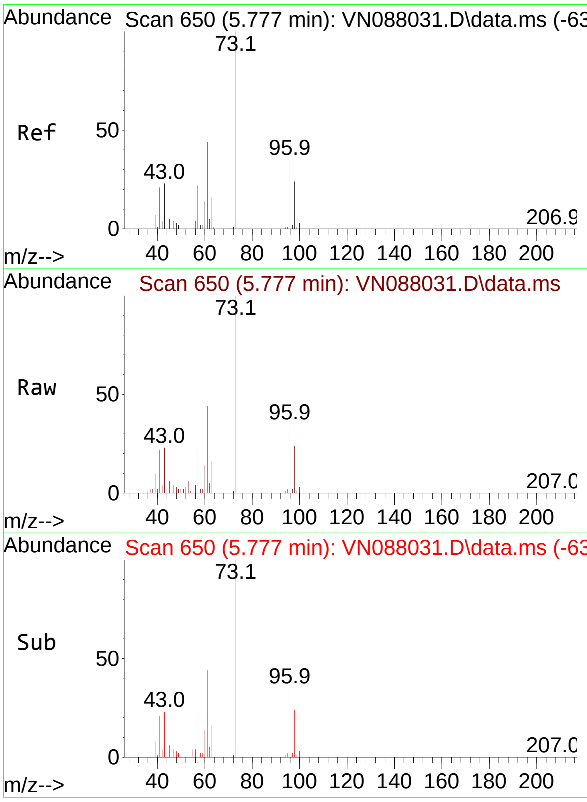

#19
trans-1,2-Dichloroethene
Concen: 20.021 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 96 Resp: 8688

Ion	Ratio	Lower	Upper
96	100		
61	125.8	100.6	151.0
98	67.5	54.0	81.0

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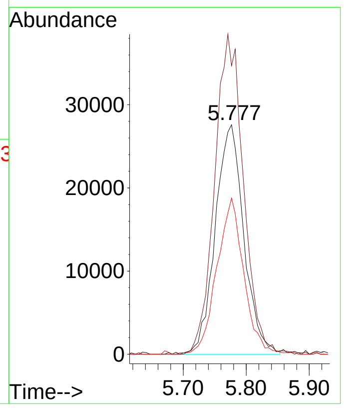
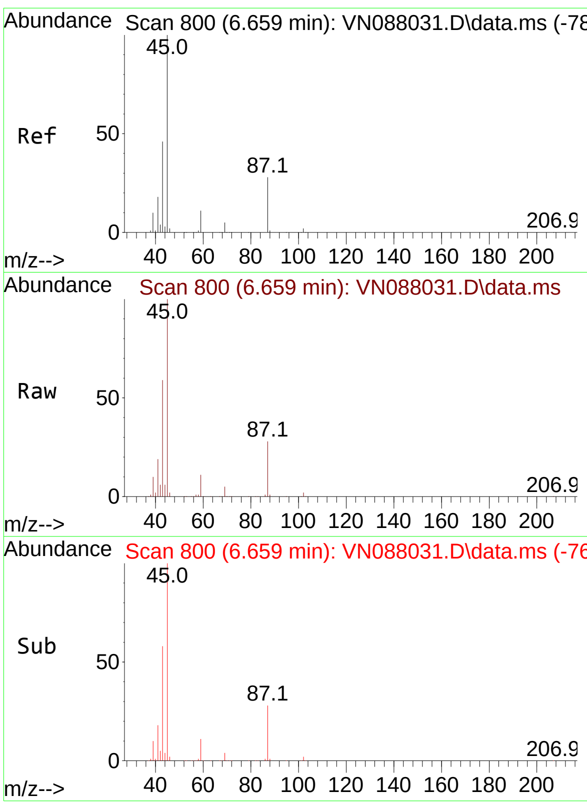
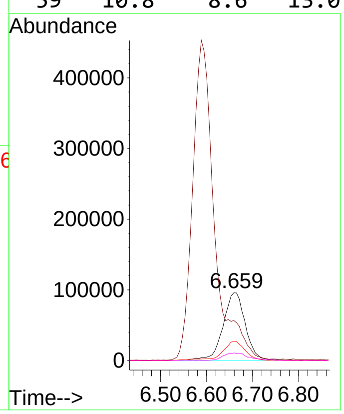




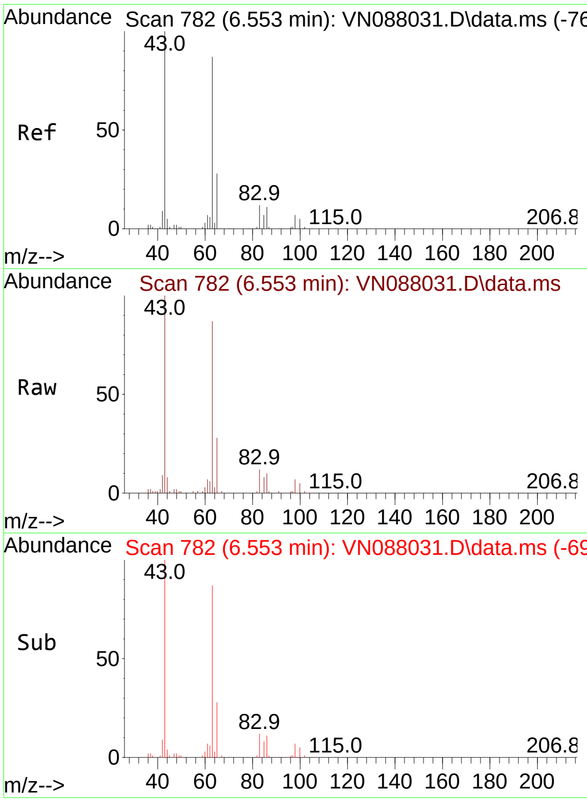
#20
Diisopropyl ether
Concen: 19.864 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 45 Resp: 320294

Ion	Ratio	Lower	Upper
45	100		
43	57.6	46.1	69.1
87	27.9	22.3	33.5
59	10.8	8.6	13.0



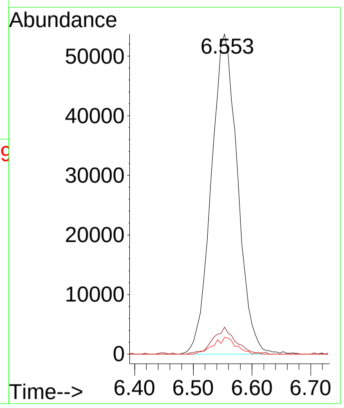
ICAL Form



#21
1,1-Dichloroethane
Concen: 19.905 ug/l
RT: 6.553 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 63 Resp: 16708

Ion	Ratio	Lower	Upper
63	100		
98	8.5	4.3	12.8
100	5.3	2.6	8.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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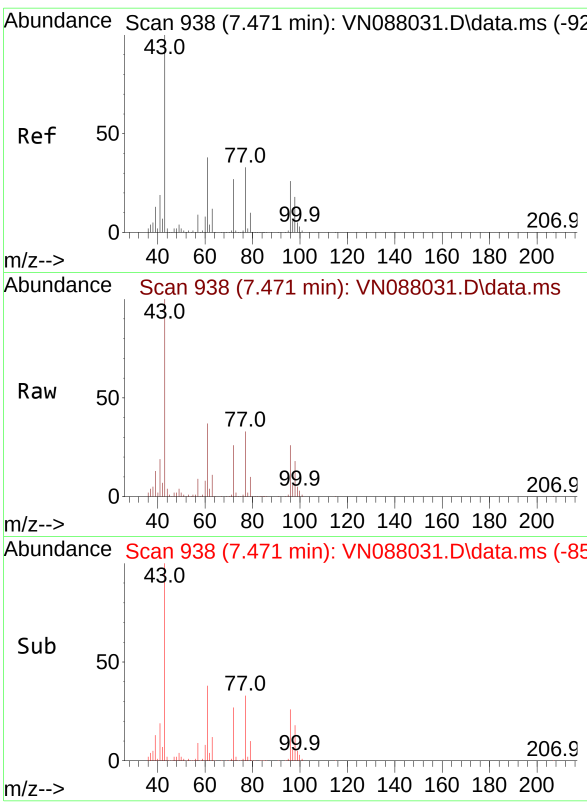
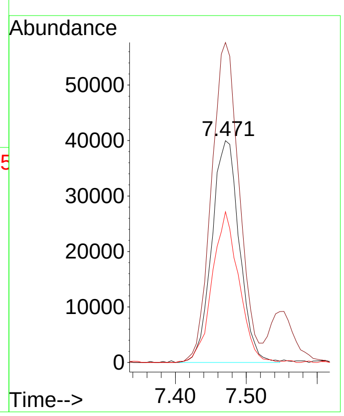
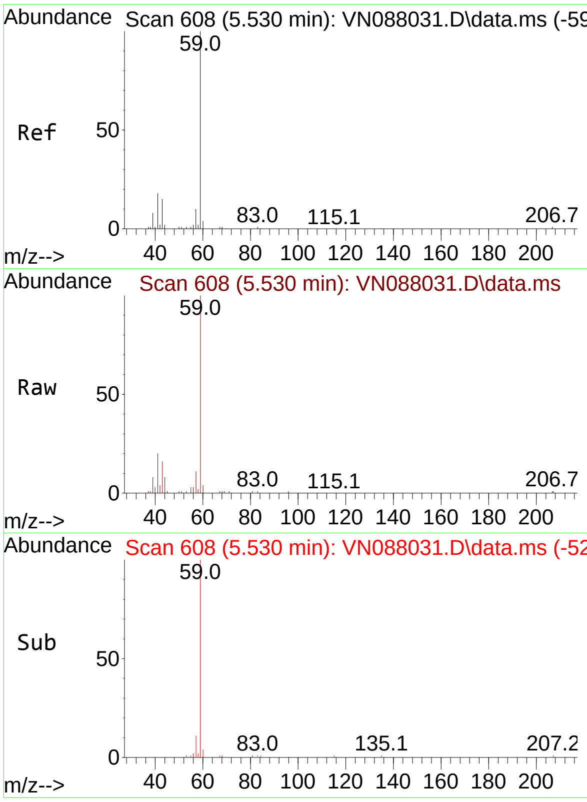


#22
cis-1,2-Dichloroethene
Concen: 19.831 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 96 Resp: 107728

Ion	Ratio	Lower	Upper
96	100		
61	146.3	117.0	175.6
98	65.8	52.6	79.0





#23
tert-Butyl Alcohol
Concen: 99.549 ug/l
RT: 5.530 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 59 Resp: 11756

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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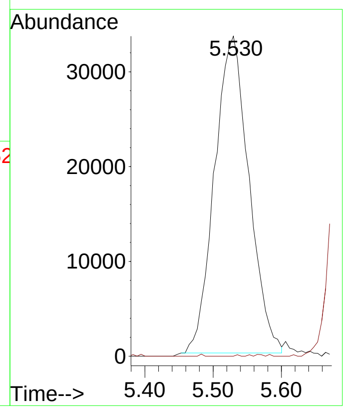
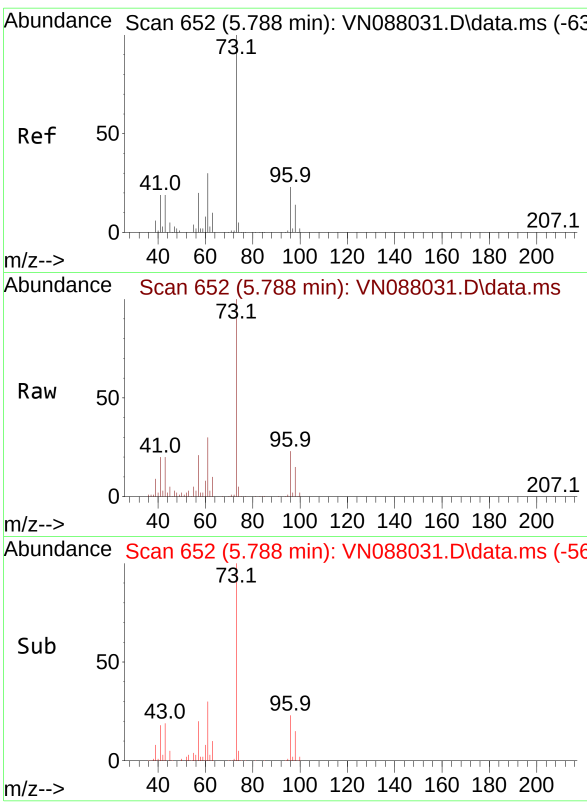
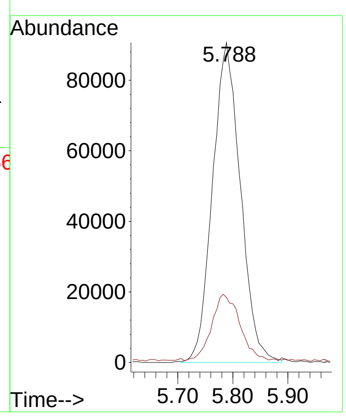




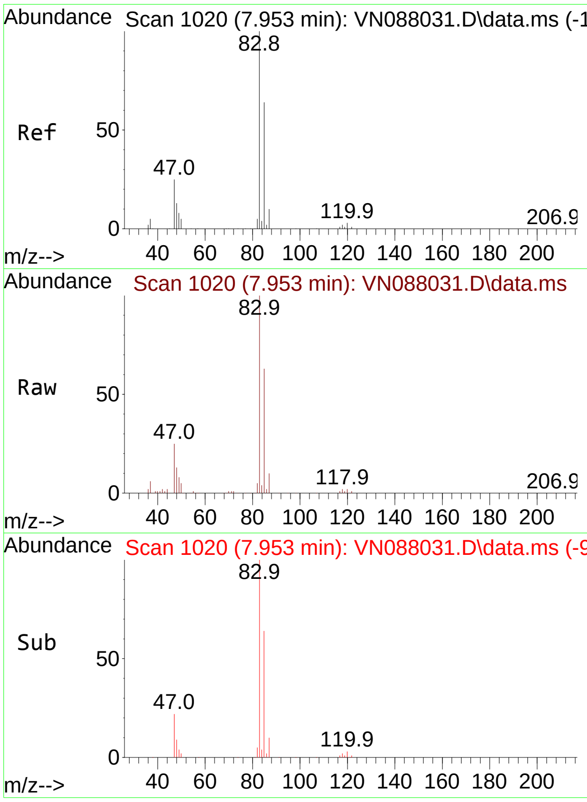
#24
Methyl tert-Butyl Ether
Concen: 19.708 ug/l
RT: 5.788 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 73 Resp: 319297

Ion	Ratio	Lower	Upper
73	100		
43	21.2	17.0	25.4



ICAL Form



#25
Chloroform
Concen: 19.684 ug/l
RT: 7.953 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 83 Resp: 170511

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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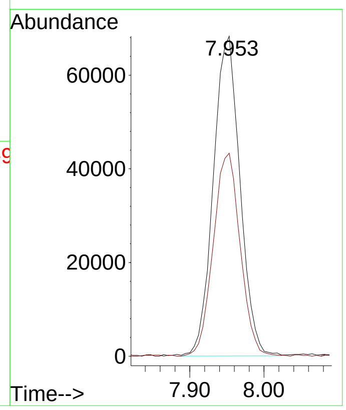
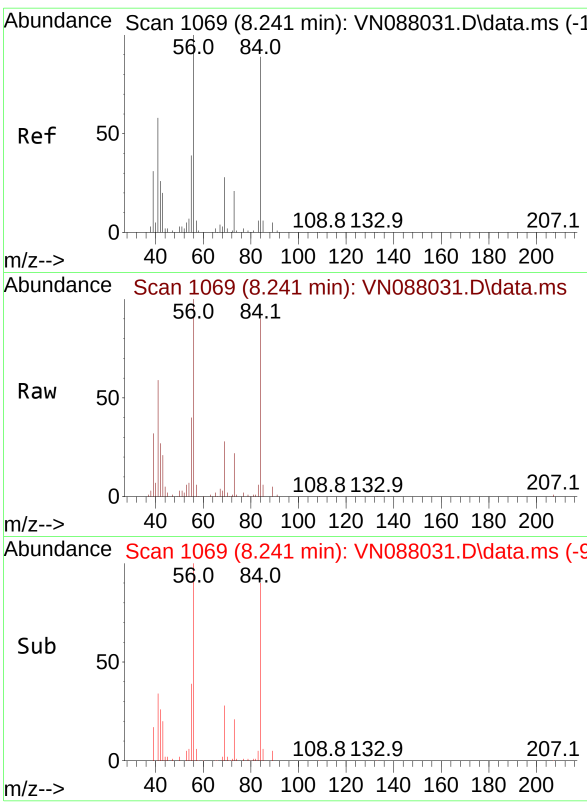
Supervised By :Mahesh Dadoda 10/10/2025

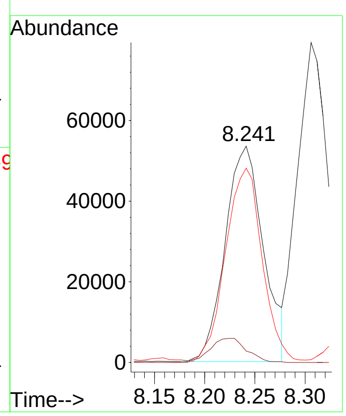




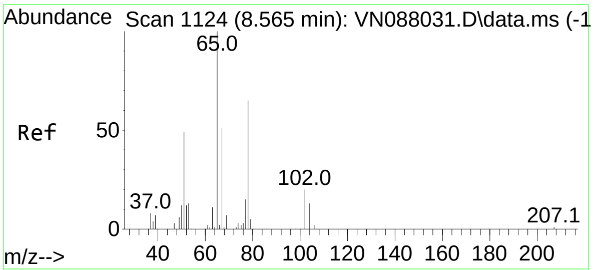
#26
Cyclohexane
Concen: 20.283 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

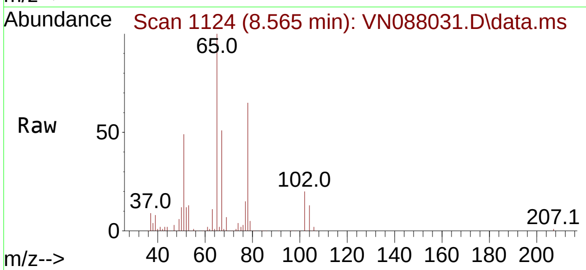
Tgt Ion: 56 Resp: 141068

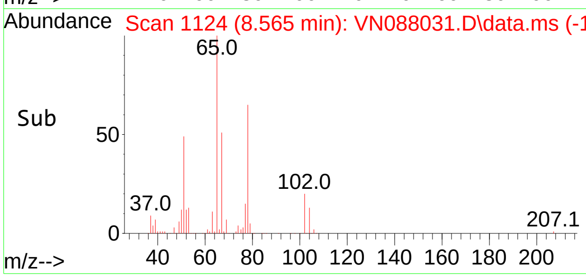
Ion	Ratio	Lower	Upper
56	100		
89	10.7	8.6	12.8
84	87.0	69.6	104.4



ICAL Form





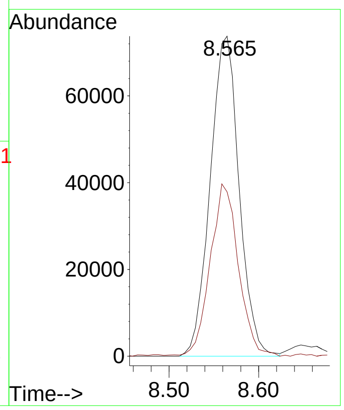


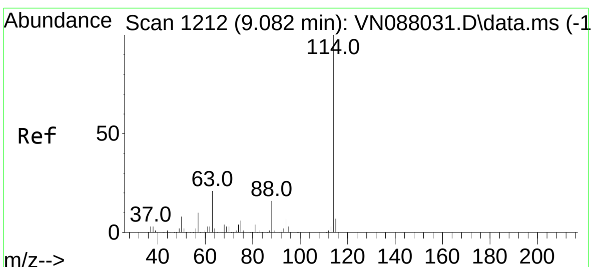

```
#27
1,2-Dichloroethane-d4
Concen:   29.785 ug/l
RT:   8.565 min   Scan# 1
Delta R.T.   0.000 min
Lab File:    VN088031.D
Acq: 08 Oct  2025   10:08

Tgt Ion: 65 Resp:   16556
Ion   Ratio   Lower   Upper
 65   100
 67    52.4    41.9    62.9
```

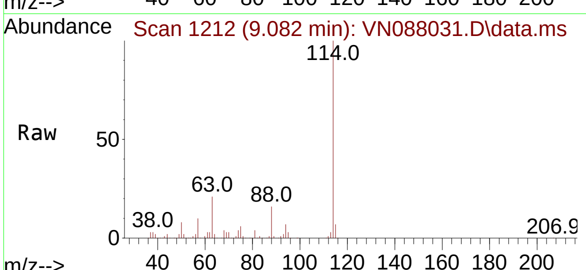
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

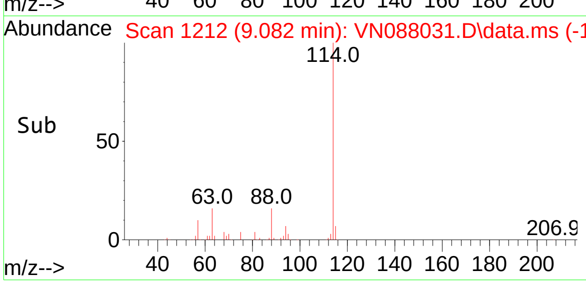
Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

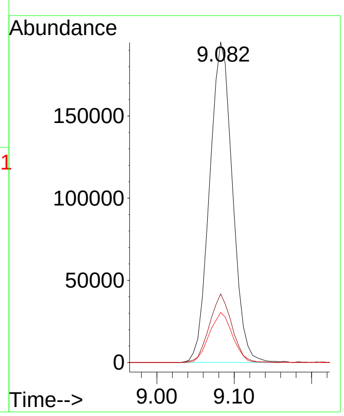


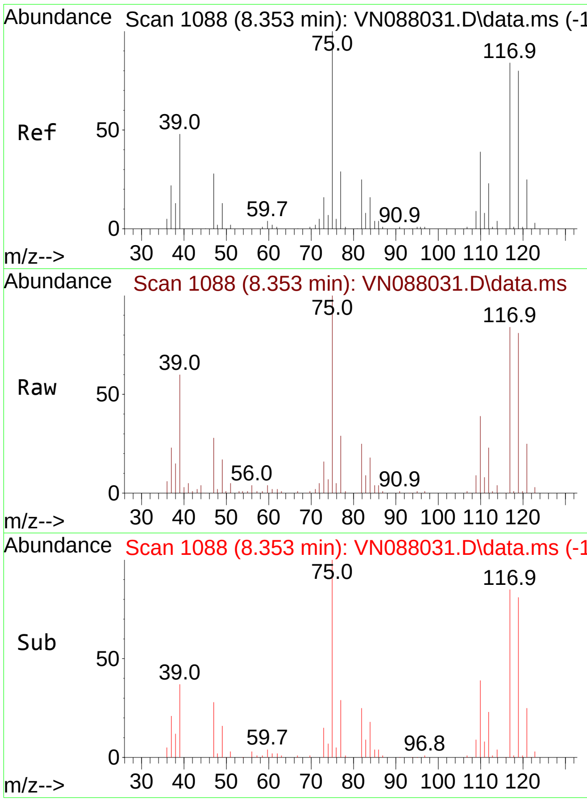







```
#28
1,4-Difluorobenzene
Concen:   30.000 ug/l
RT:   9.082 min   Scan# 1212
Delta R.T.   0.000 min
Lab File:    VN088031.D
Acq: 08 Oct  2025   10:08

Tgt Ion:114 Resp:   401663
Ion   Ratio   Lower   Upper
114   100
 63    20.8    16.6    25.0
 88    15.7    12.6    18.8
```





#29
1,1-Dichloropropene
Concen: 19.569 ug/l
RT: 8.353 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 75 Resp: 11266

Ion	Ratio	Lower	Upper
75	100		
110	36.1	0.0	72.2
77	30.3	0.0	60.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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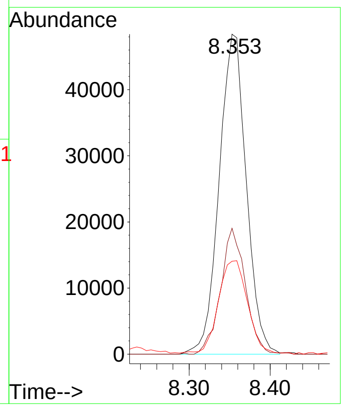
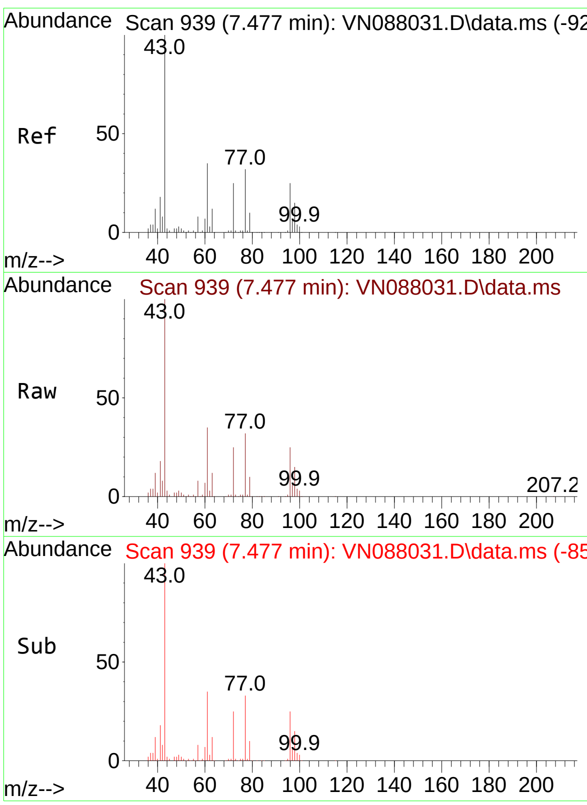
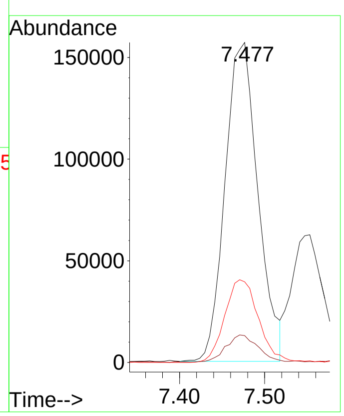


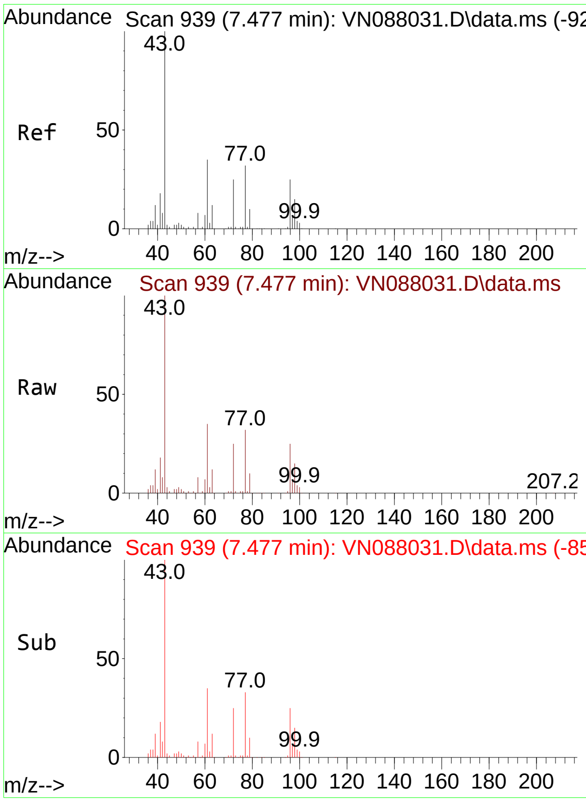


#30
2-Butanone
Concen: 99.396 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 43 Resp: 422066

Ion	Ratio	Lower	Upper
43	100		
57	8.1	6.5	9.7
72	26.8	21.4	32.2





#31
2,2-Dichloropropane
Concen: 19.837 ug/l
RT: 7.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 77 Resp: 14735

Ion	Ratio	Lower	Upper
77	100		
97	22.3	17.8	26.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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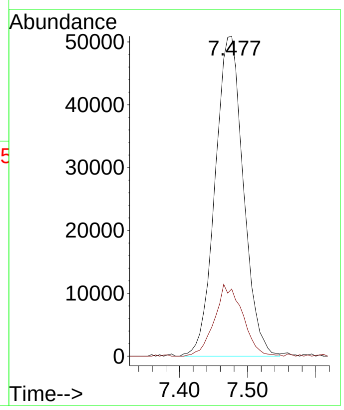
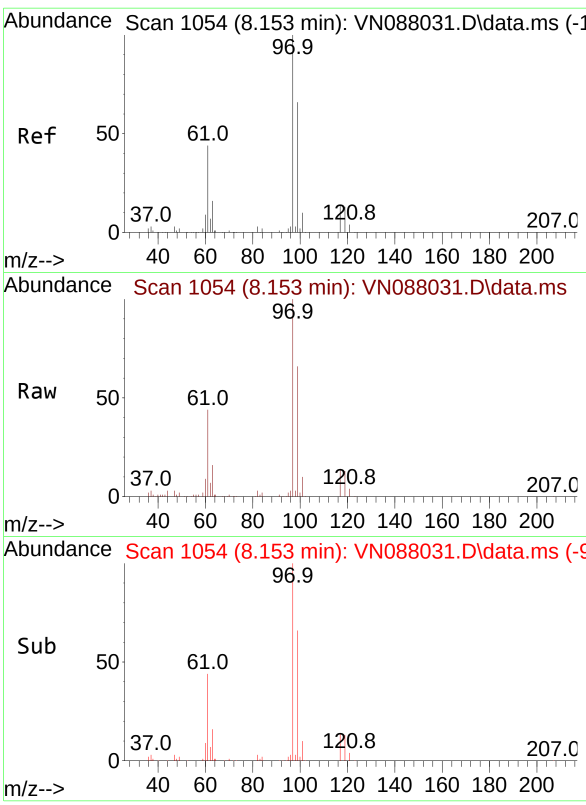
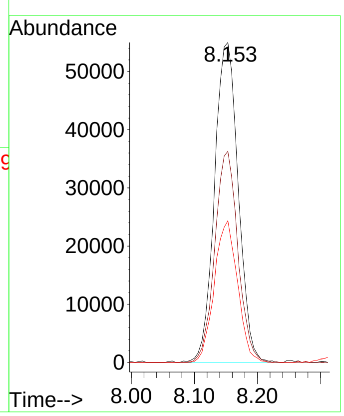


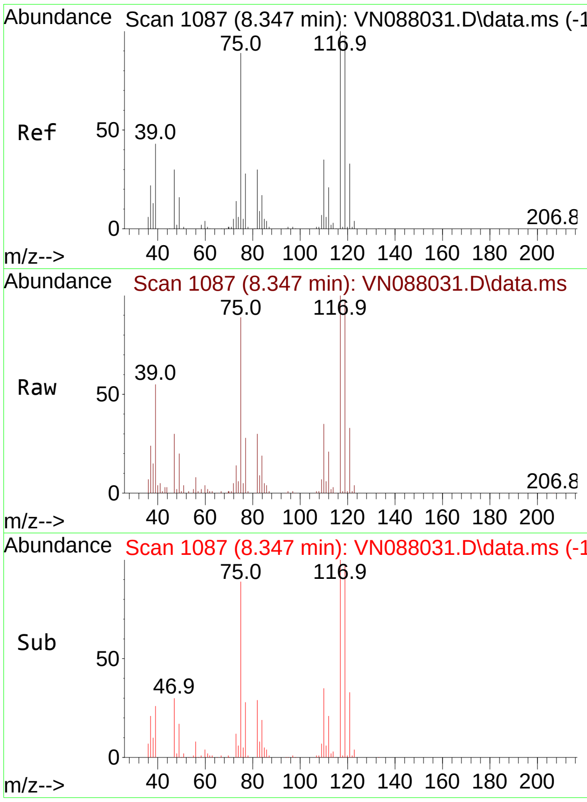


#32
1,1,1-Trichloroethane
Concen: 20.047 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 97 Resp: 144223

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.2
61	43.4	34.7	52.1





#33
Carbon Tetrachloride
Concen: 19.764 ug/l
RT: 8.347 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:117 Resp: 11909

Ion	Ratio	Lower	Upper
117	100		
119	97.4	77.9	116.9
121	33.0	26.4	39.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations
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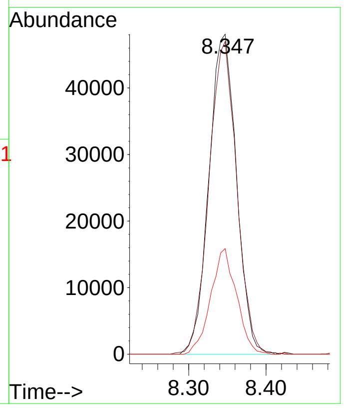
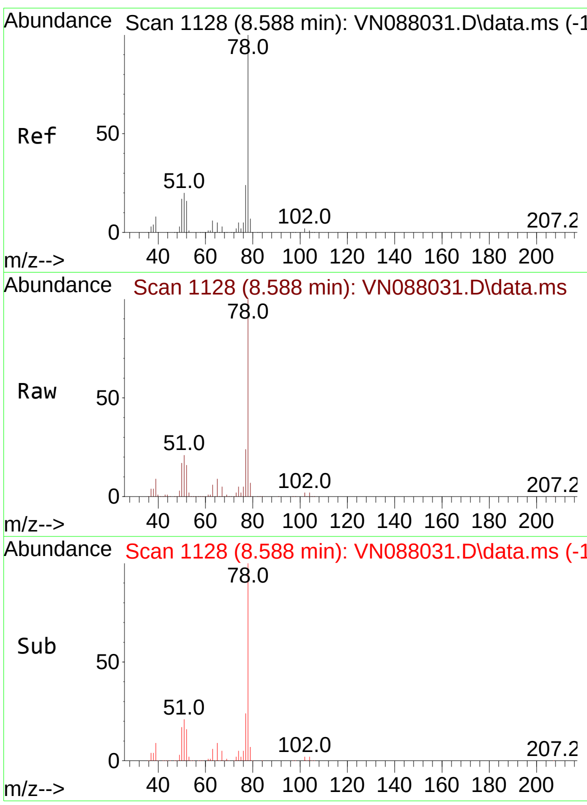
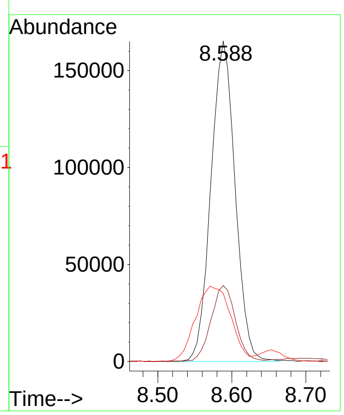


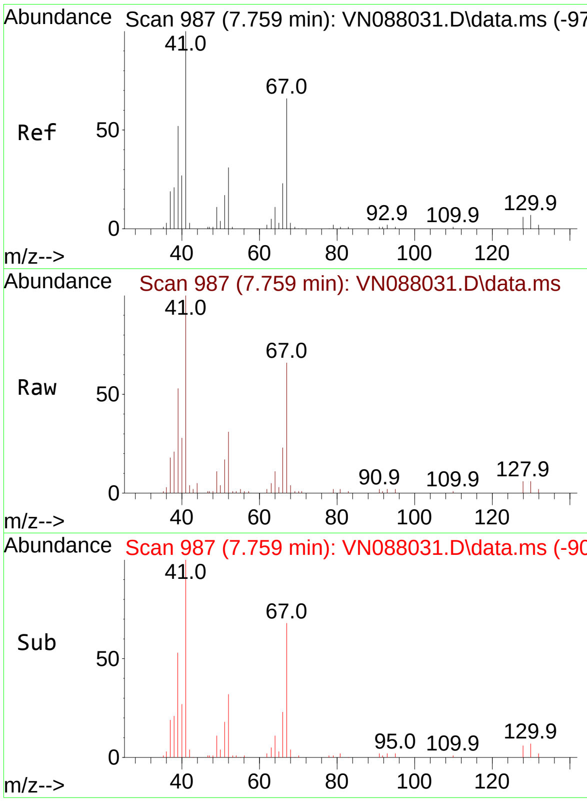


#34
Benzene
Concen: 19.653 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 78 Resp: 375303

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3
51	19.5	15.6	23.4





#35
Methacrylonitrile
Concen: 19.955 ug/l
RT: 7.759 min Scan# 98
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 41 Resp: 8910

Ion	Ratio	Lower	Upper
41	100		
39	52.2	26.1	78.3
67	66.1	33.1	99.2
52	30.7	15.4	46.1

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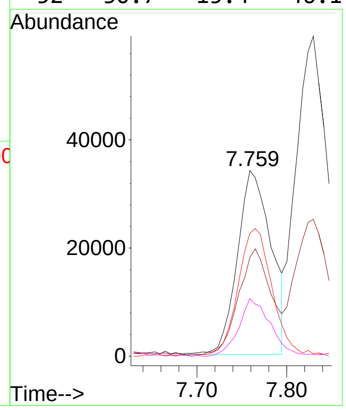
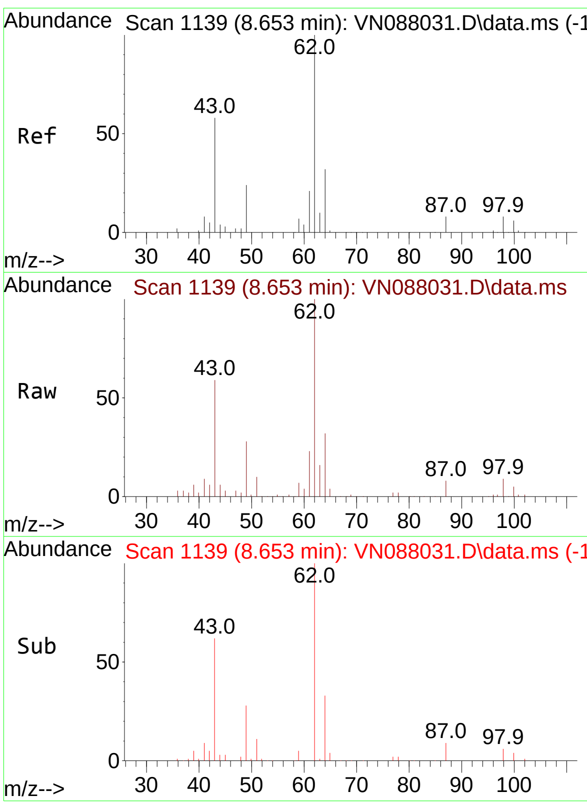
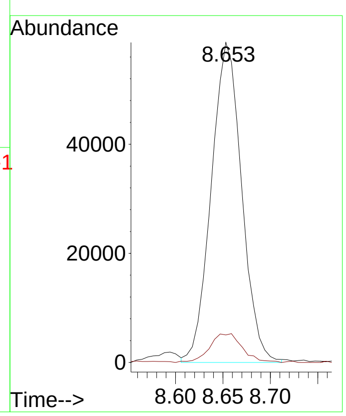




#36
1,2-Dichloroethane
Concen: 19.775 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 62 Resp: 131101

Ion	Ratio	Lower	Upper
62	100		
98	9.7	7.8	11.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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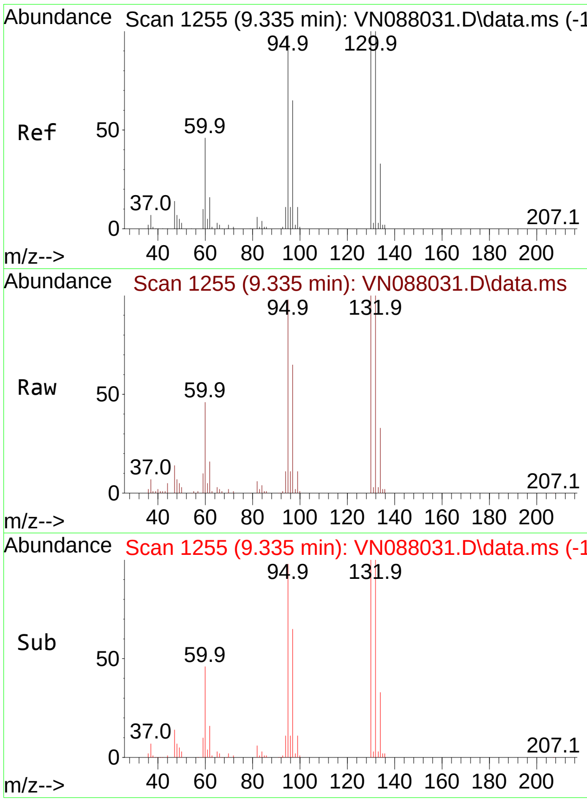
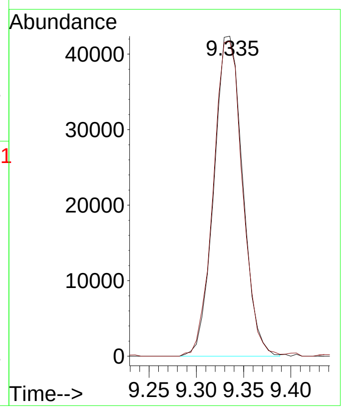
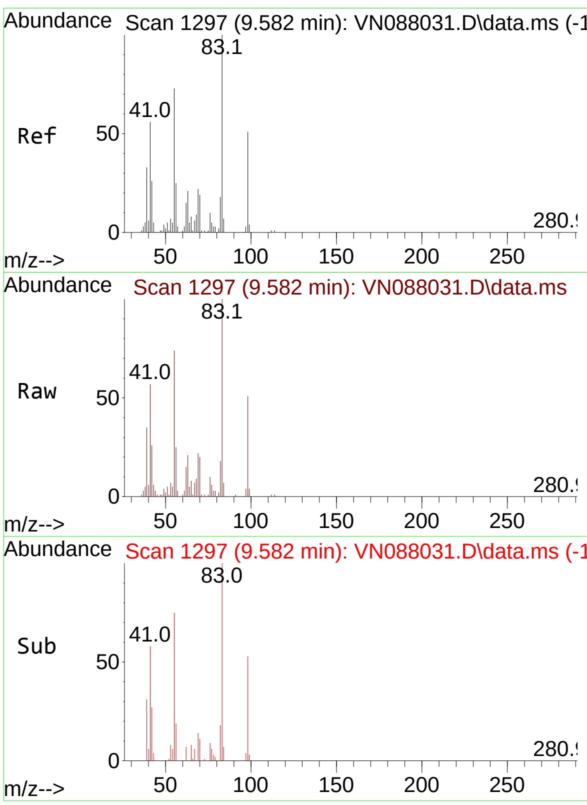


#37
Trichloroethene
Concen: 19.787 ug/l
RT: 9.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:130 Resp: 8952

Ion	Ratio	Lower	Upper
130	100		
95	98.4	78.7	118.1

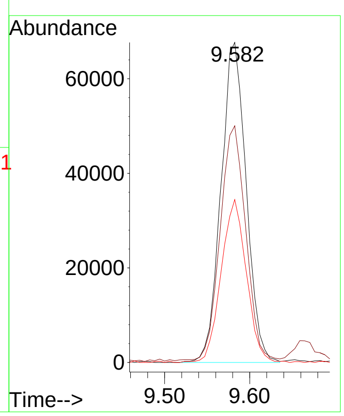




#38
Methylcyclohexane
Concen: 19.646 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 83 Resp: 139683

Ion	Ratio	Lower	Upper
83	100		
55	74.6	37.3	111.9
98	50.7	25.4	76.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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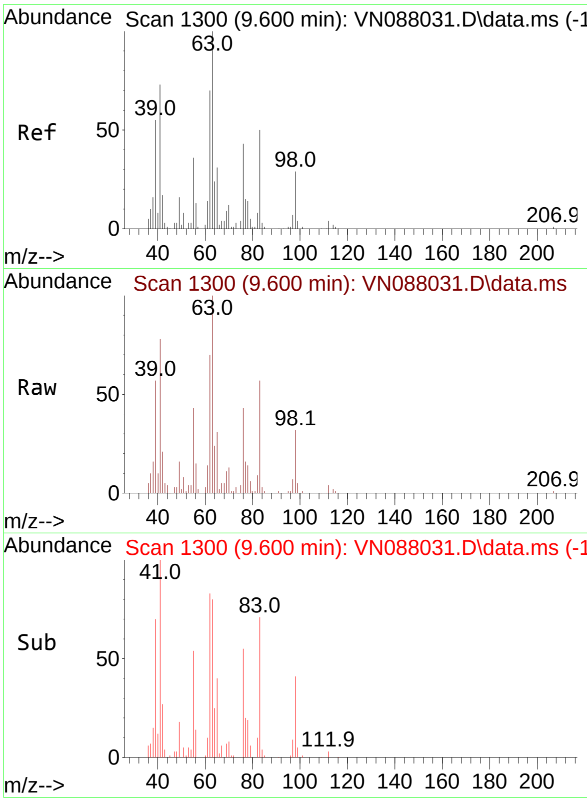
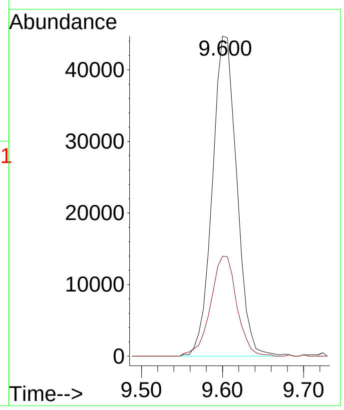
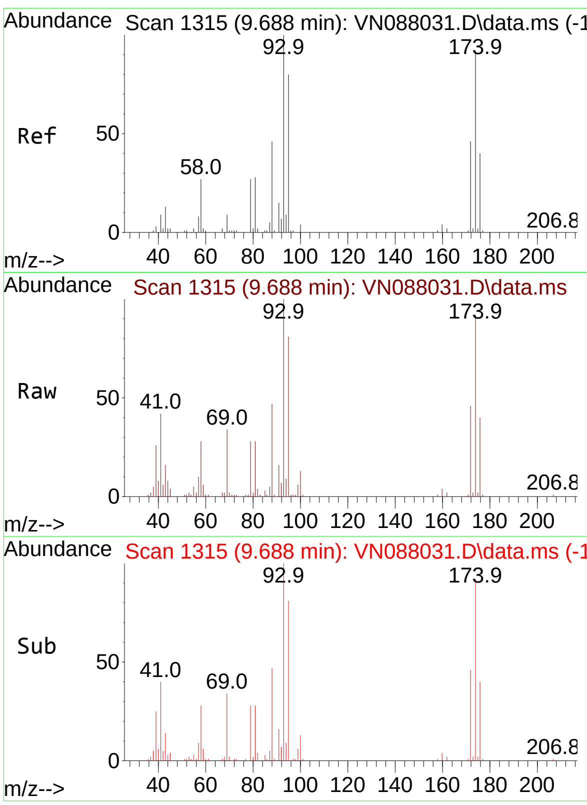


#39
1,2-Dichloropropane
Concen: 19.584 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 63 Resp: 9377

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.0	37.6

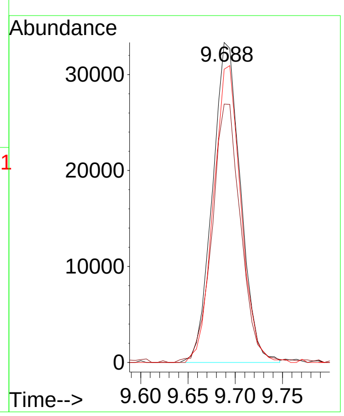


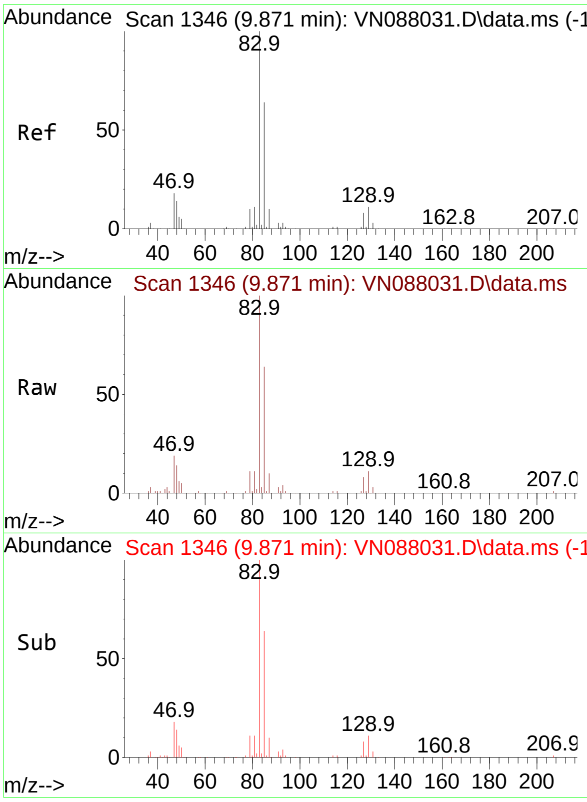


#40
Dibromomethane
Concen: 19.823 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 93 Resp: 69093

Ion	Ratio	Lower	Upper
93	100		
95	79.3	0.0	158.6
174	90.4	0.0	180.8





#41
Bromodichloromethane
Concen: 19.460 ug/l
RT: 9.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 83 Resp: 13853

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.0	76.4
127	7.6	6.1	9.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations
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Reviewed By :John Carlone 10/09/2025
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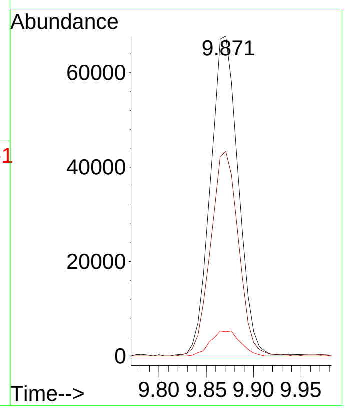
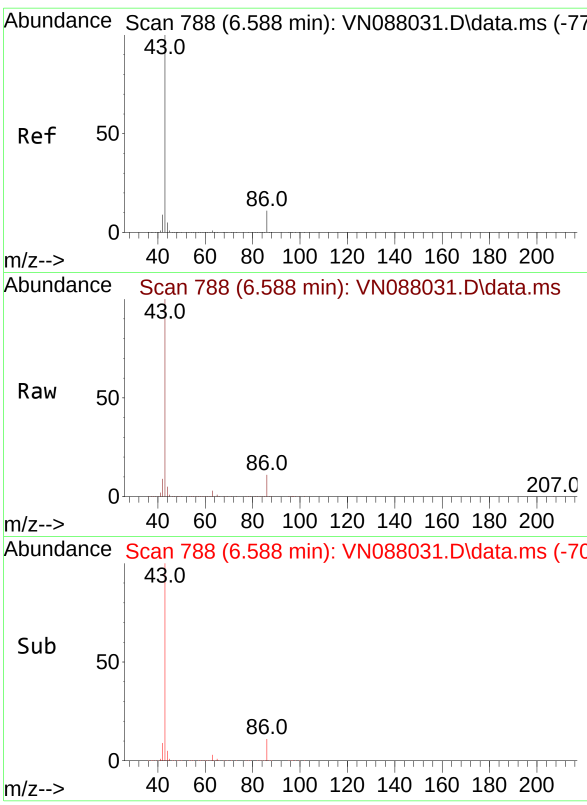
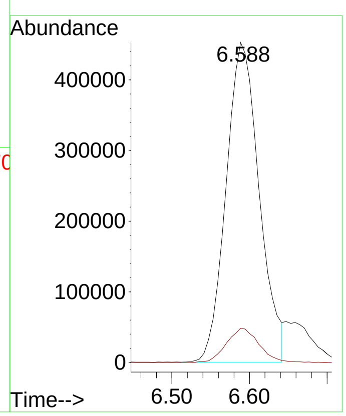


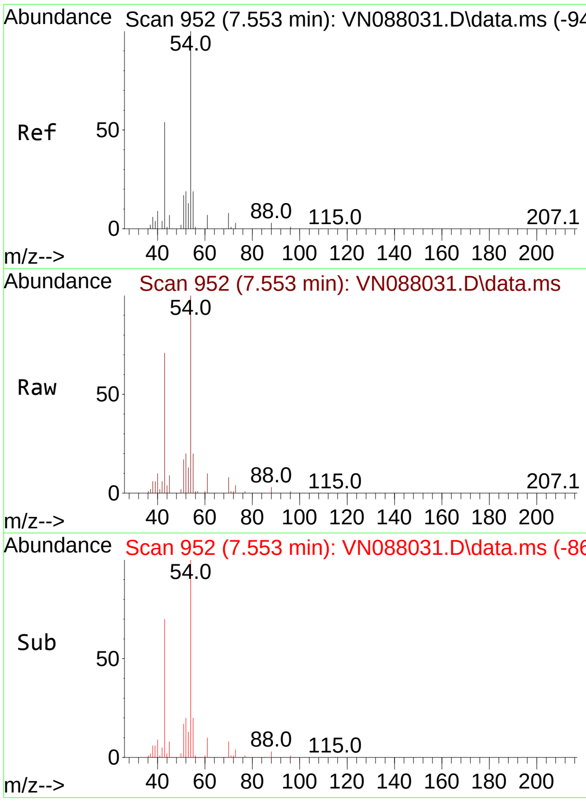


#42
Vinyl Acetate
Concen: 93.117 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 43 Resp: 1347005

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.4	12.6





#43
Ethyl Acetate
Concen: 19.974 ug/l
RT: 7.553 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument : MSVOA_N
ClientSampleId : VSTDICCC020

Tgt Ion: 43 Resp: 16304

Ion	Ratio	Lower	Upper
43	100		
45	12.8	10.2	15.4

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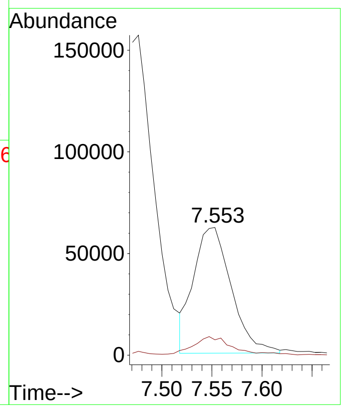
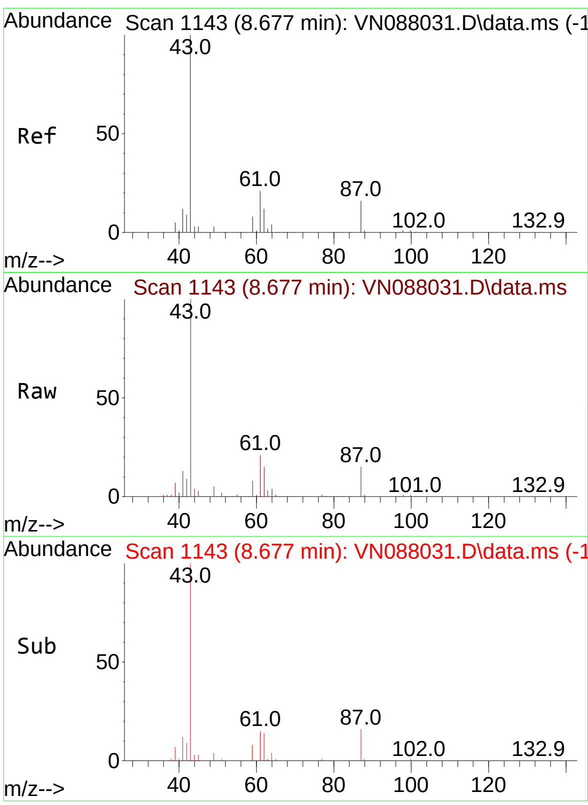
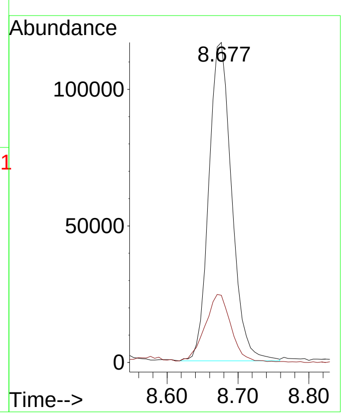




#44
Isopropyl Acetate
Concen: 19.638 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 43 Resp: 261811

Ion	Ratio	Lower	Upper
43	100		
61	23.4	18.7	28.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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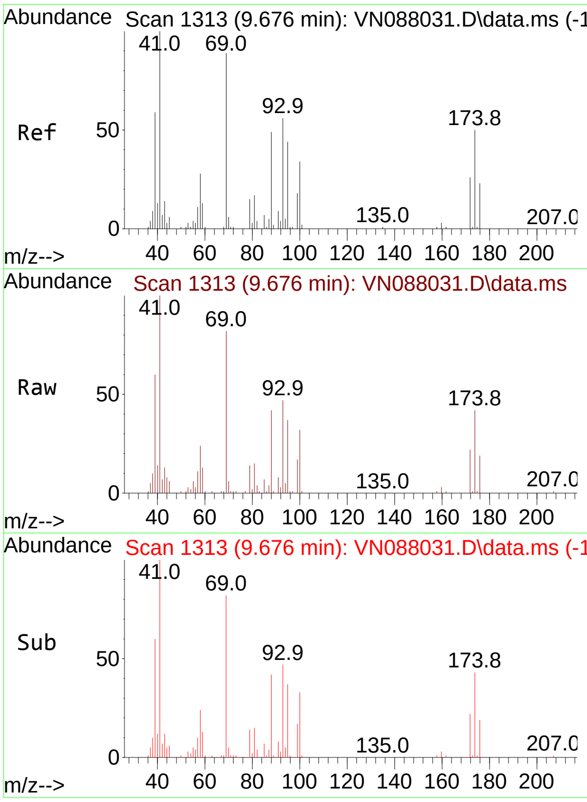
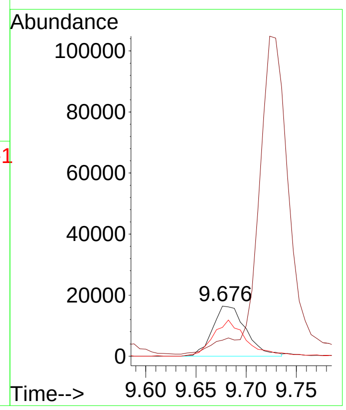
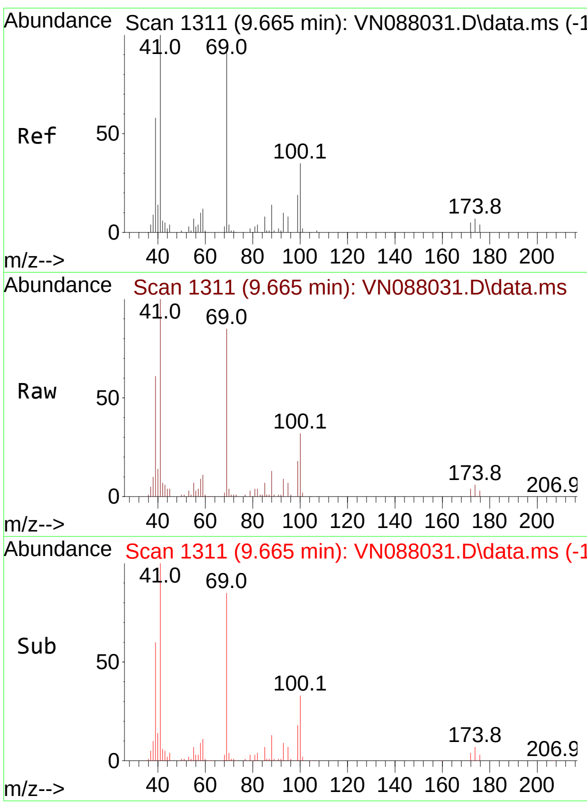


#45
1,4-Dioxane
Concen: 430.590 ug/l
RT: 9.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 88 Resp: 3818

Ion	Ratio	Lower	Upper
88	100		
43	23.2	18.6	27.8
58	71.8	57.4	86.2

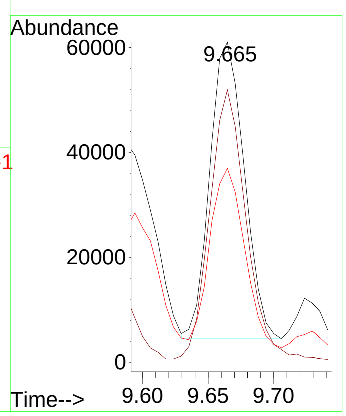


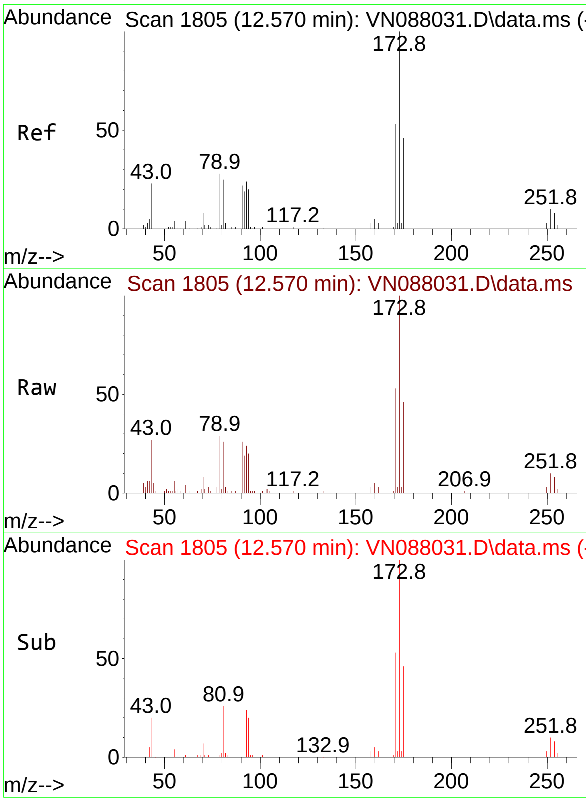


#46
Methyl methacrylate
Concen: 17.569 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 41 Resp: 103153

Ion	Ratio	Lower	Upper
41	100		
69	89.8	44.9	134.7
39	60.5	30.3	90.8





#47
n-amyl Acetate
Concen: 20.993 ug/l m
RT: 12.570 min   Scan# 1
Delta R.T.   0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025   10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 43 Resp: 12297

Ion	Ratio	Lower	Upper
43	100		
55	0.6	0.6	0.8

Manual Integrations
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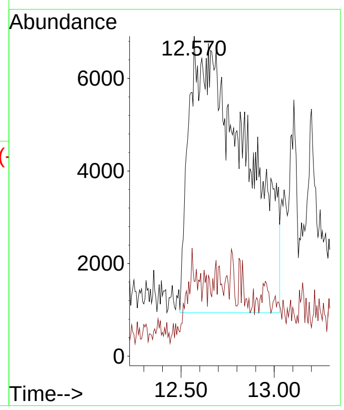
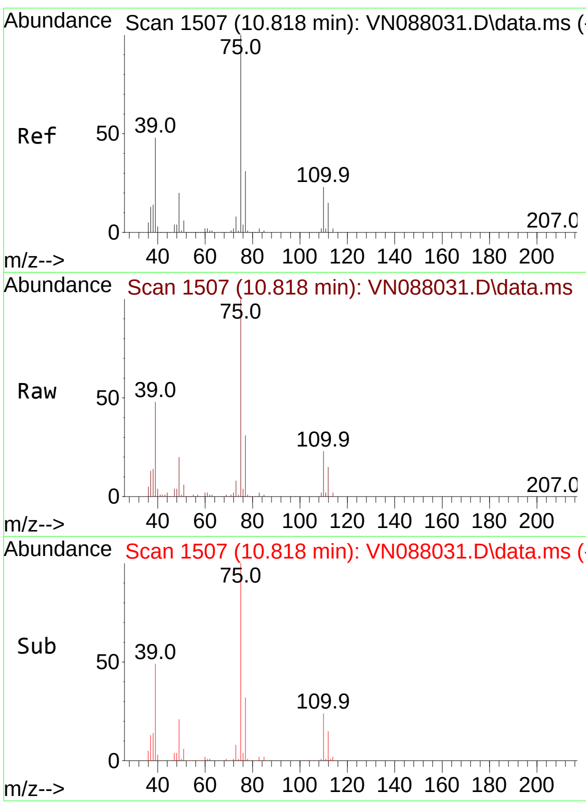
Reviewed By :John Carlone   10/09/2025
Supervised By :Mahesh Dadoda   10/10/2025

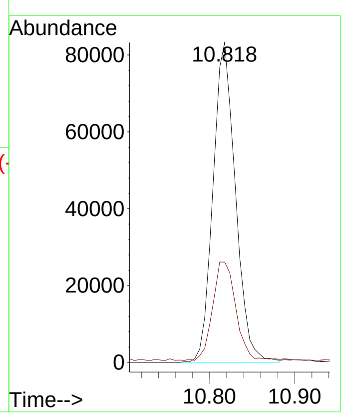


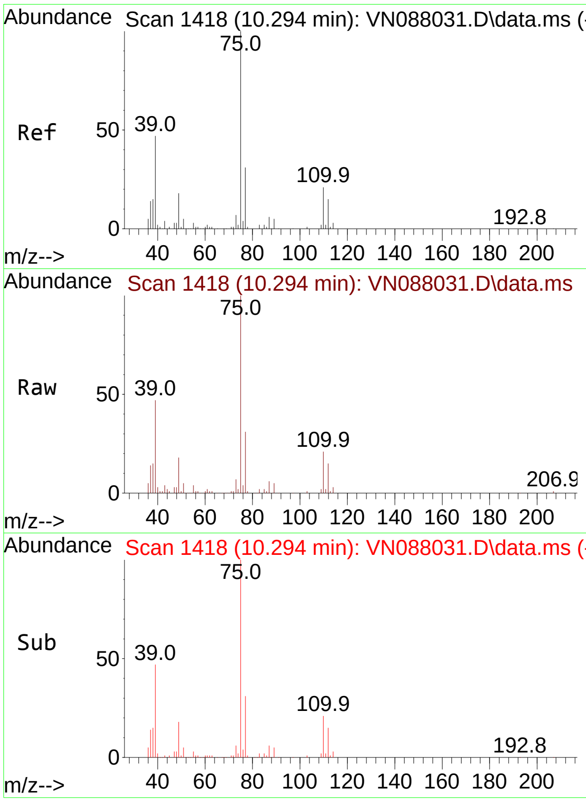


#48
t-1,3-Dichloropropene
Concen: 19.289 ug/l
RT: 10.818 min   Scan# 1507
Delta R.T.   0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025   10:08

Tgt Ion: 75 Resp: 152693

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.5	36.7





#49
cis-1,3-Dichloropropene
Concen: 19.591 ug/l
RT: 10.294 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

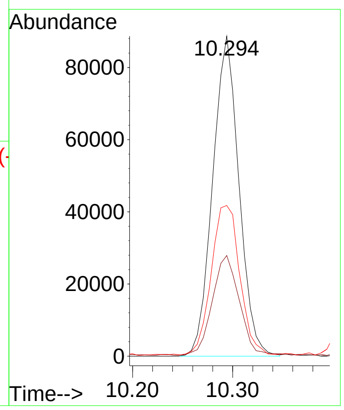
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

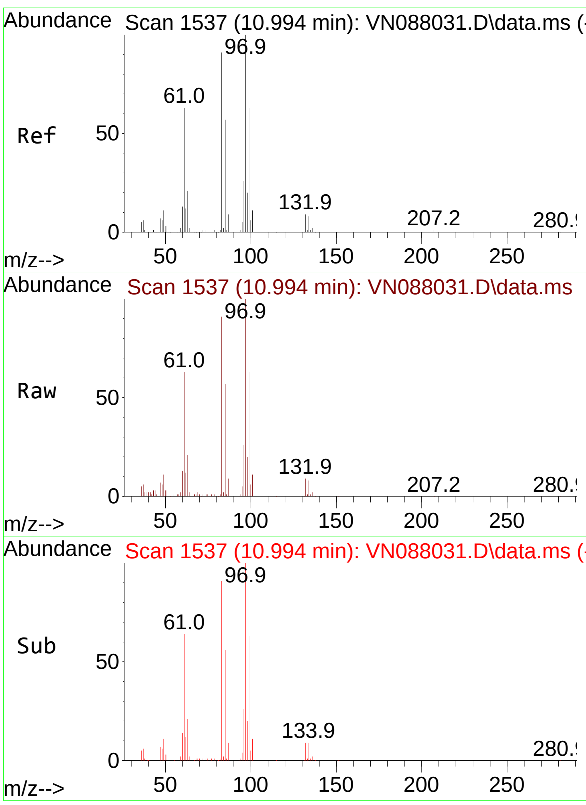
Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Tgt Ion: 75 Resp: 16176

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.4
39	46.7	37.4	56.0

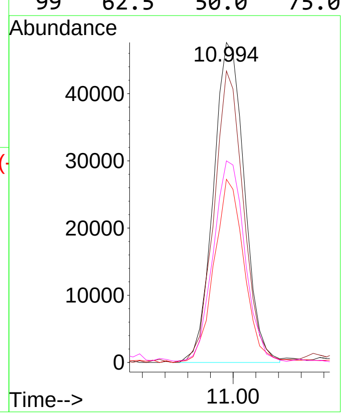




#50
1,1,2-Trichloroethane
Concen: 19.626 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 97 Resp: 90592

Ion	Ratio	Lower	Upper
97	100		
83	90.6	72.5	108.7
85	56.9	45.5	68.3
99	62.5	50.0	75.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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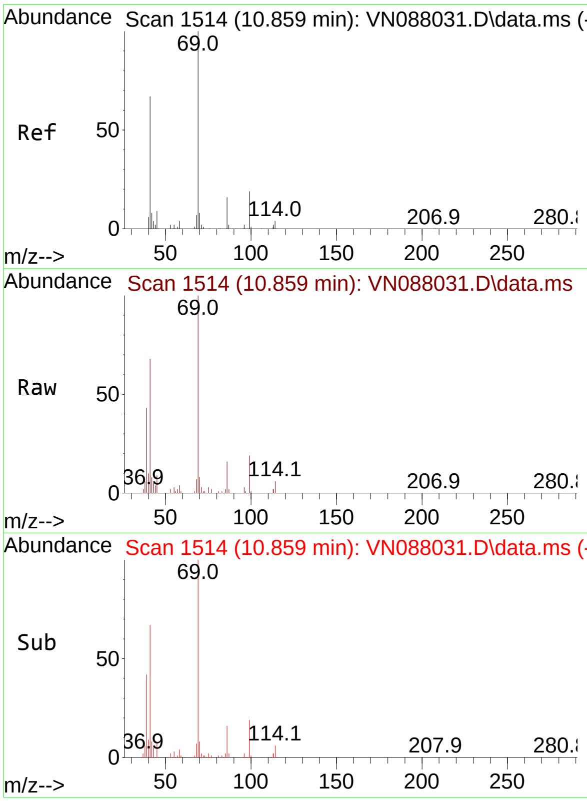
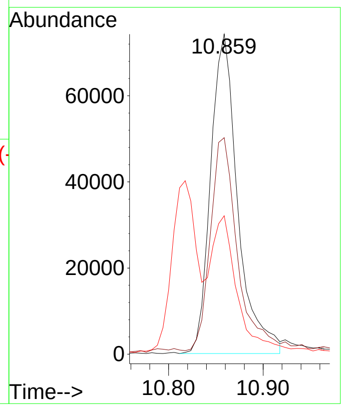
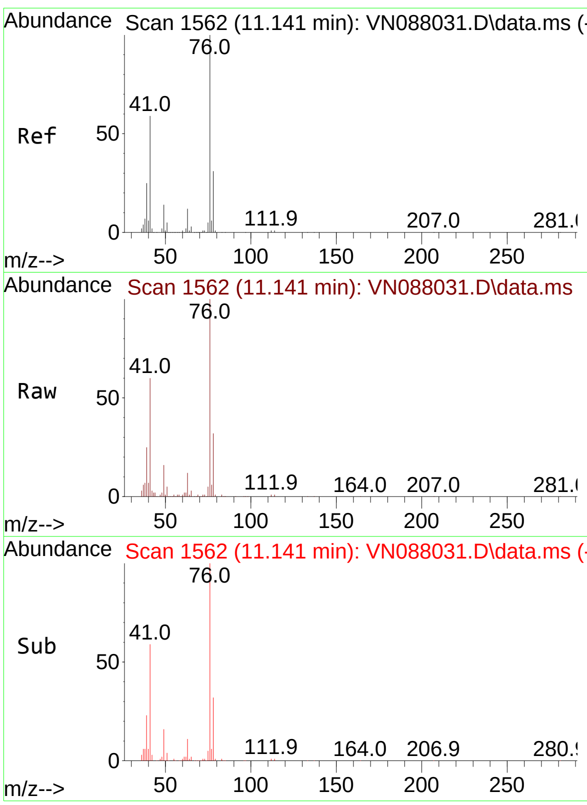


#51
Ethyl methacrylate
Concen: 18.933 ug/l
RT: 10.859 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 69 Resp: 14790

Ion	Ratio	Lower	Upper
69	100		
41	66.5	33.3	99.8
39	40.7	20.3	61.0

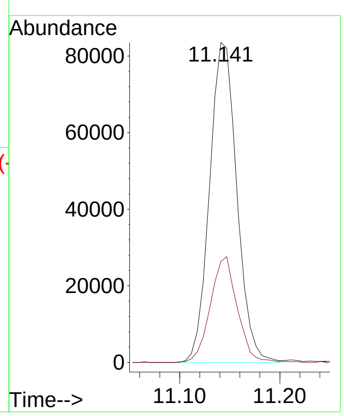


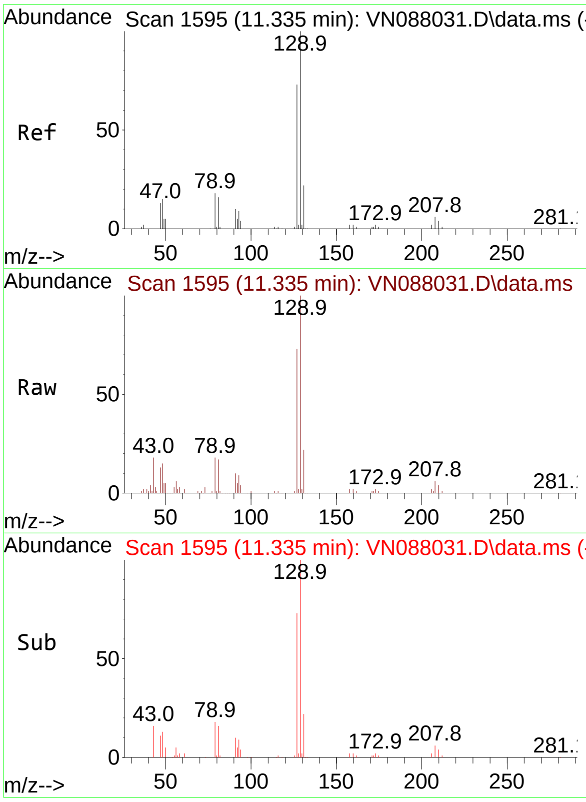


#52
1,3-Dichloropropane
Concen: 19.710 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 76 Resp: 158729

Ion	Ratio	Lower	Upper
76	100		
78	32.5	0.0	65.0





#53
Dibromochloromethane
Concen: 19.388 ug/l
RT: 11.335 min Scan# 1!
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:129 Resp: 106989

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.3

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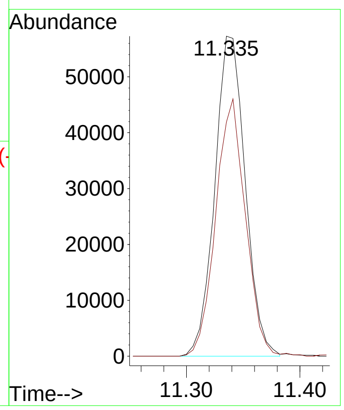
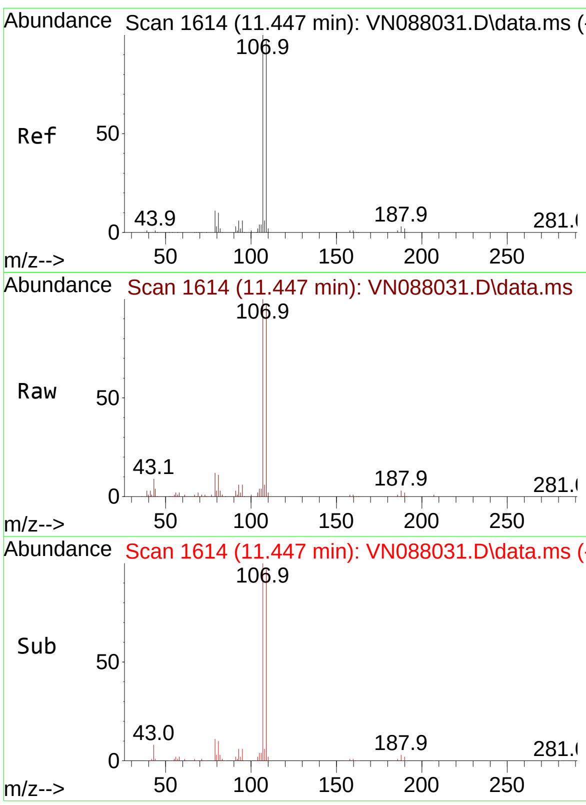
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

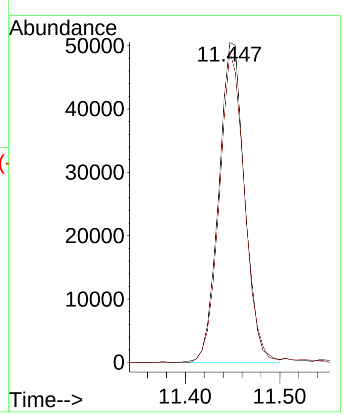




#54
1,2-Dibromoethane
Concen: 19.472 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:107 Resp: 96091

Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.5	113.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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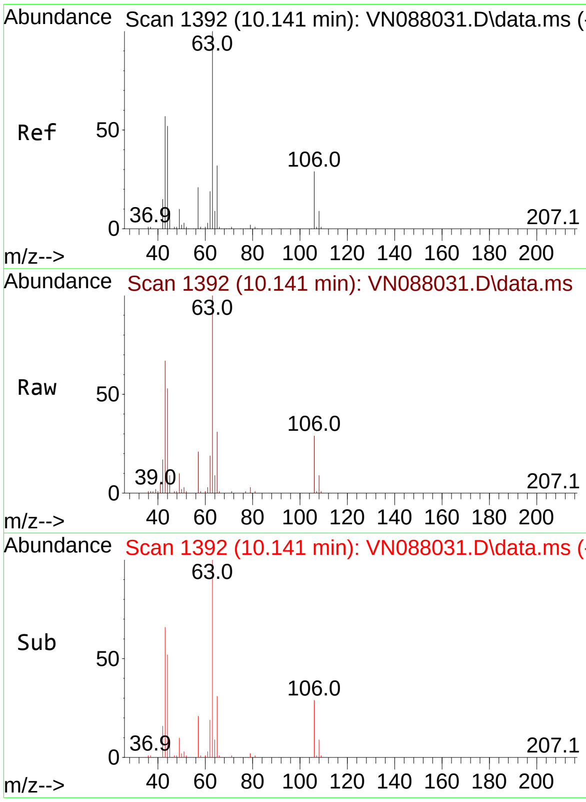
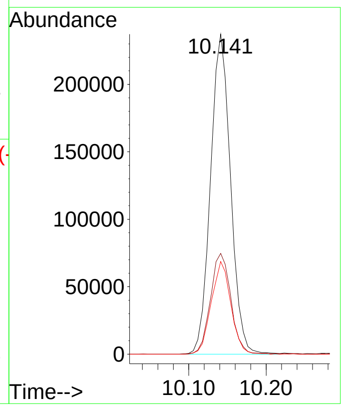
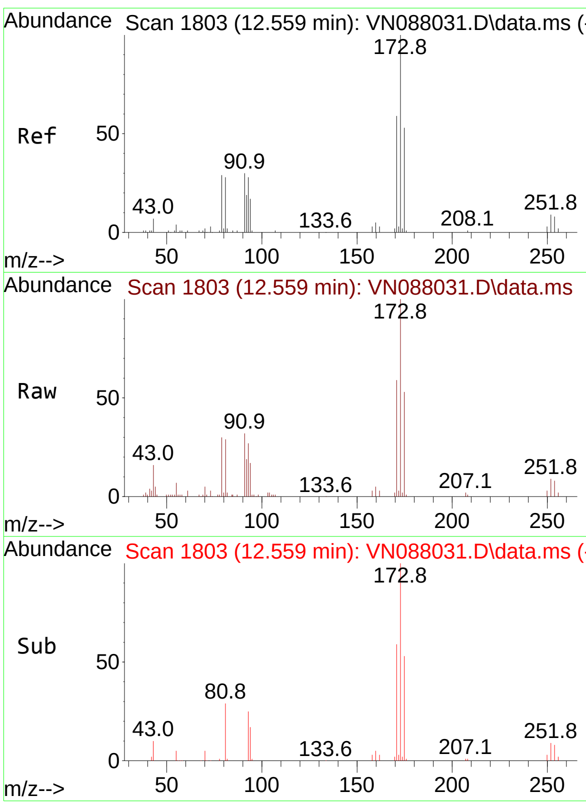


#55
2-Chloroethyl vinyl ether
Concen: 101.363 ug/l
RT: 10.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 63 Resp: 42740

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.7	38.5
106	28.3	22.6	34.0

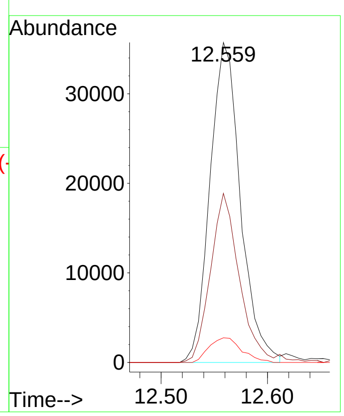




#56
Bromoform
Concen: 19.053 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:173 Resp: 71081

Ion	Ratio	Lower	Upper
173	100		
175	49.5	39.6	59.4
254	8.3	6.6	10.0



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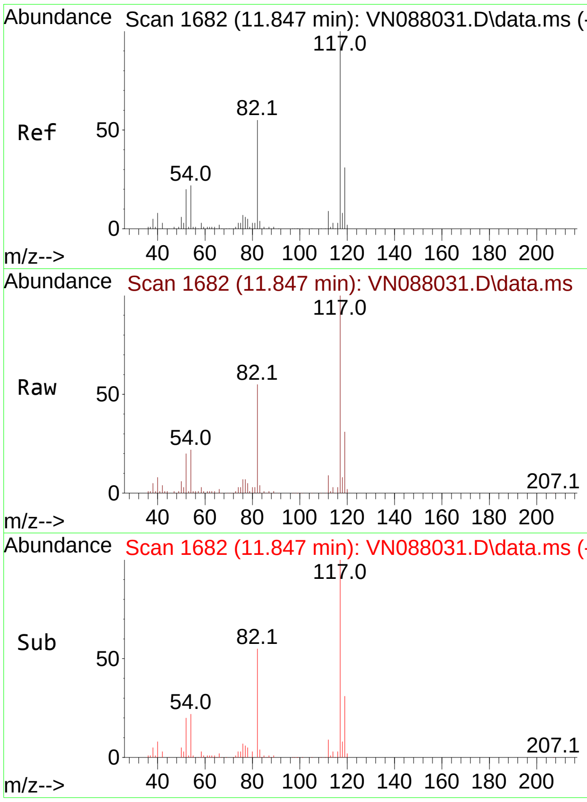

#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations
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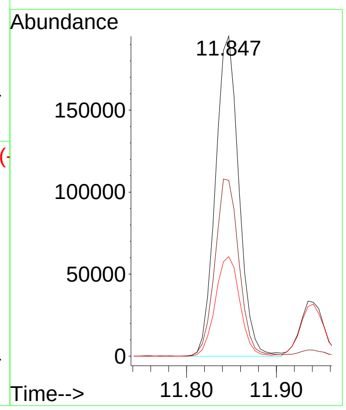
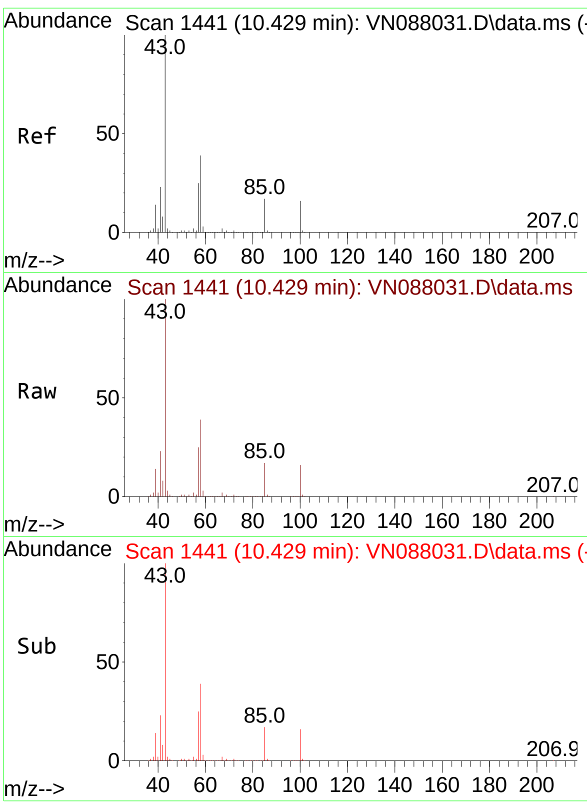
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Tgt Ion:117 Resp: 35538

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.2	67.8
119	32.4	25.9	38.9

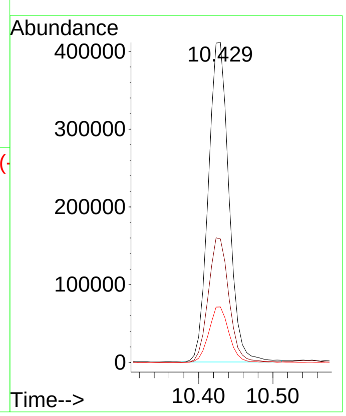




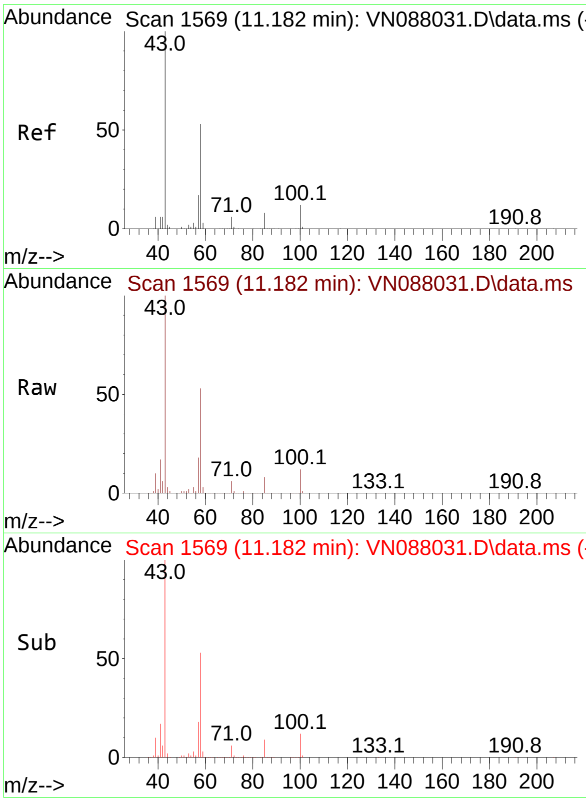
#58
4-Methyl-2-Pentanone
Concen: 99.952 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 43 Resp: 794535

Ion	Ratio	Lower	Upper
43	100		
58	39.0	31.2	46.8
85	17.1	13.7	20.5



ICAL Form



#59
2-Hexanone
Concen: 98.602 ug/l
RT: 11.182 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 43 Resp: 51749

Ion	Ratio	Lower	Upper
43	100		
58	53.9	43.1	64.7
57	18.2	14.6	21.8

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
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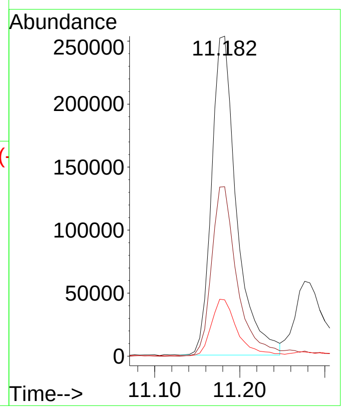
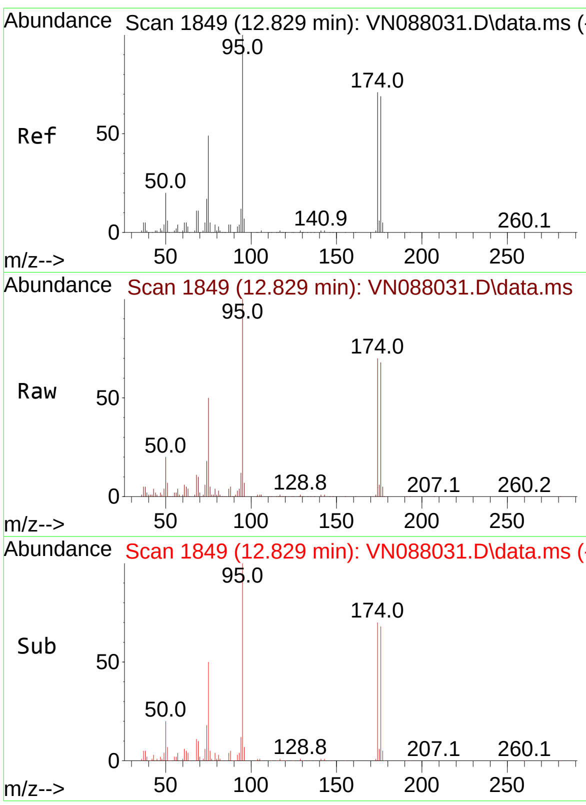
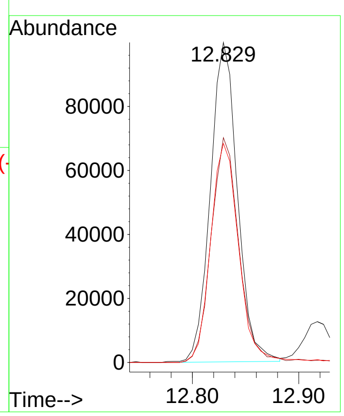


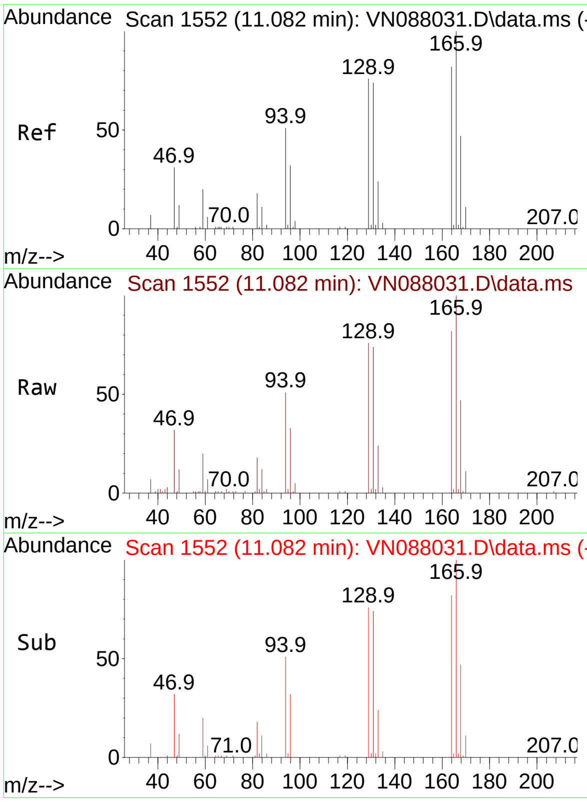


#60
4-Bromofluorobenzene
Concen: 30.136 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 95 Resp: 176557

Ion	Ratio	Lower	Upper
95	100		
174	71.7	57.4	86.0
176	71.2	57.0	85.4





#61
Tetrachloroethene
Concen: 20.155 ug/l
RT: 11.082 min Scan# 1!
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:164 Resp: 72535

Ion	Ratio	Lower	Upper
164	100		
166	121.5	97.2	145.8
129	92.1	73.7	110.5
131	89.4	71.5	107.3

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
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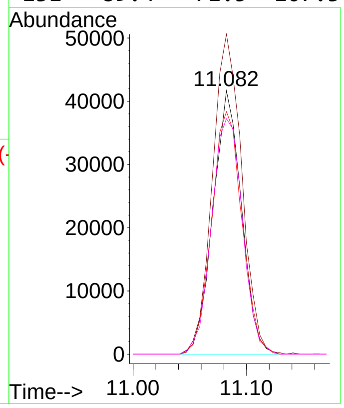
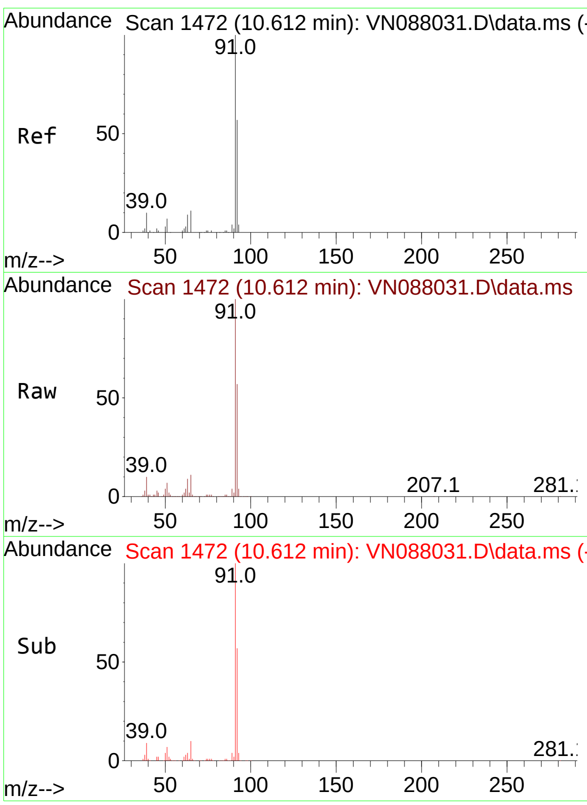
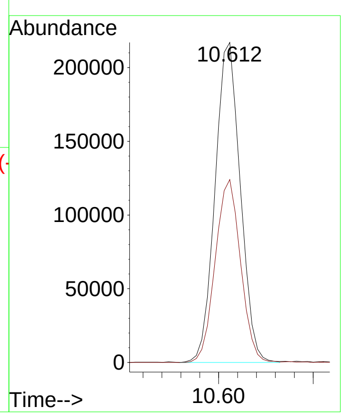


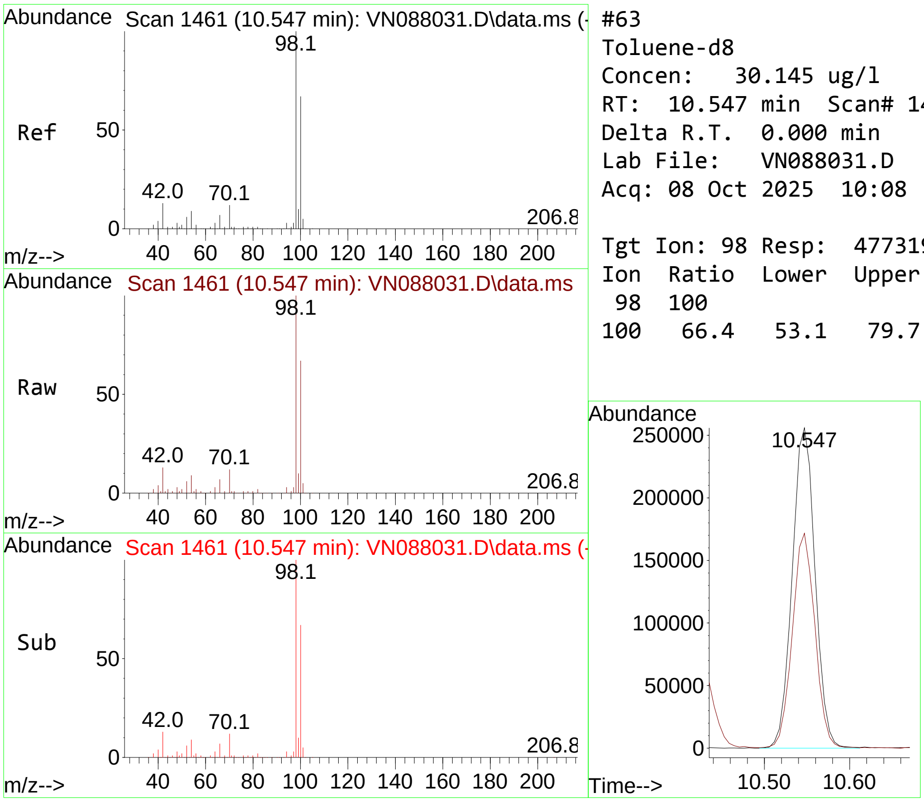


#62
Toluene
Concen: 19.975 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 91 Resp: 402666

Ion	Ratio	Lower	Upper
91	100		
92	57.3	45.8	68.8





#63
Toluene-d8
Concen: 30.145 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

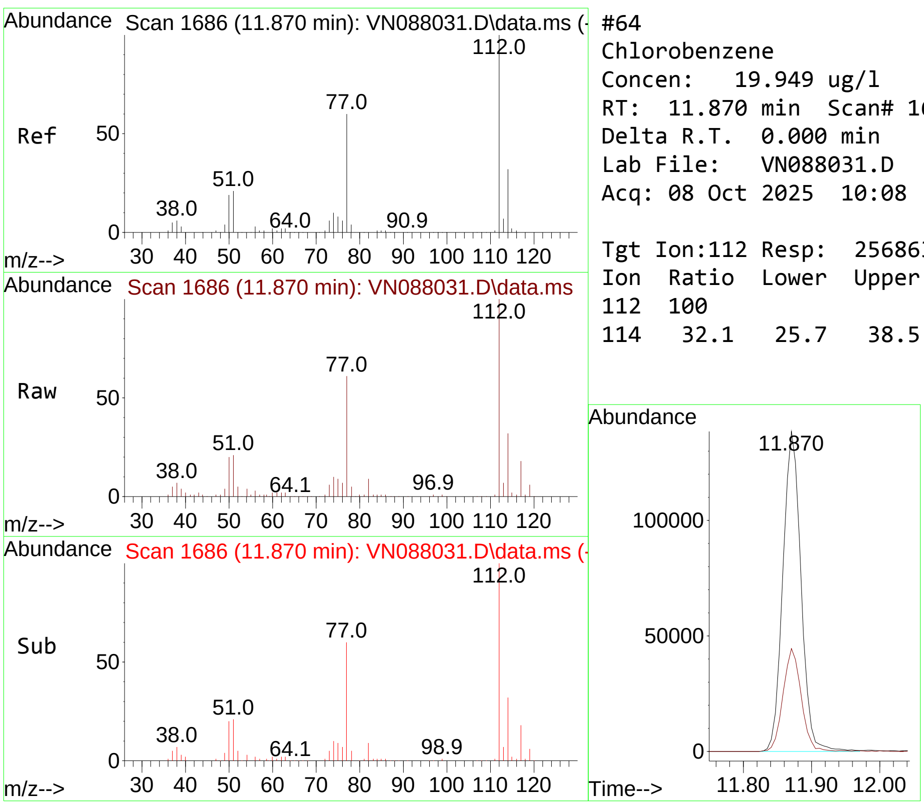
Tgt Ion: 98 Resp: 477319

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.1	79.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

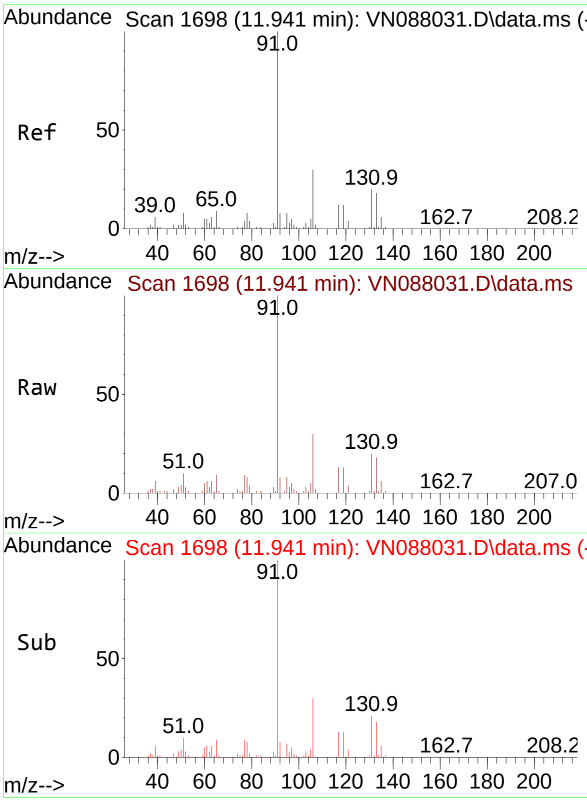
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#64
Chlorobenzene
Concen: 19.949 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:112 Resp: 256863

Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.7	38.5



#65
1,1,1,2-Tetrachloroethane
Concen: 20.403 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:131 Resp: 90530

Ion	Ratio	Lower	Upper
131	100		
133	91.9	0.0	183.8
119	66.0	0.0	132.0

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Reviewed By :John Carlone 10/09/2025
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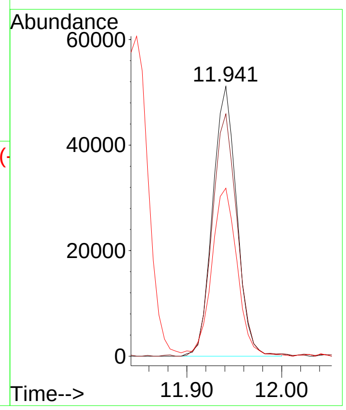
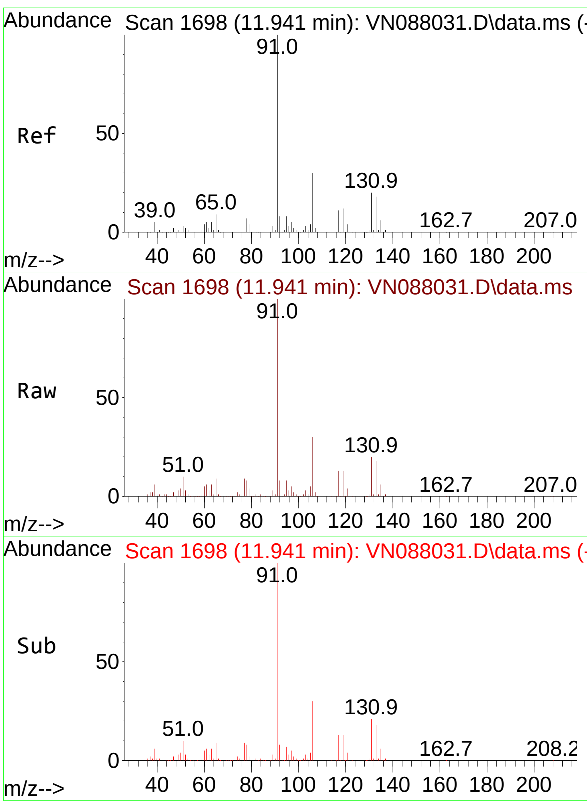
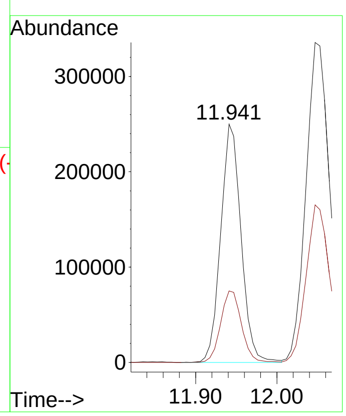




#66
Ethyl Benzene
Concen: 19.873 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 91 Resp: 435618

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.0	36.0



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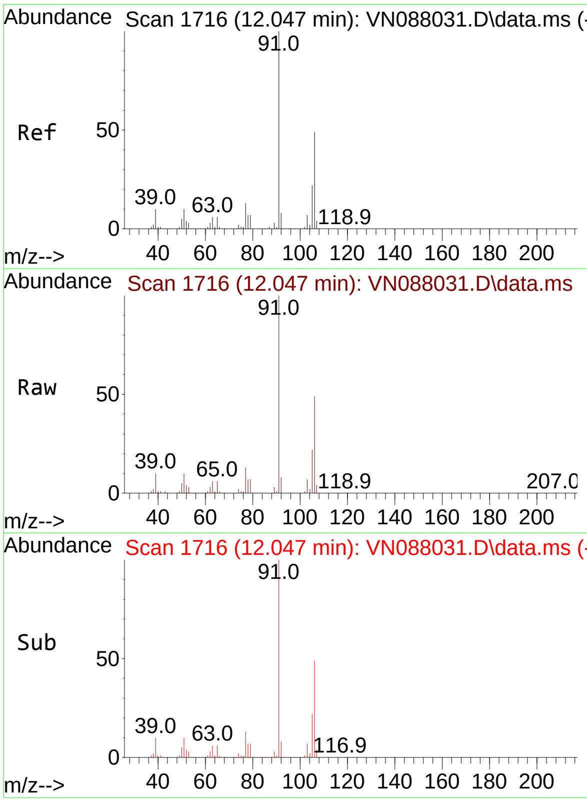

#67
m/p-Xylenes
Concen: 40.016 ug/l
RT: 12.047 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:106 Resp: 33814

Ion	Ratio	Lower	Upper
106	100		
91	201.7	161.4	242.0

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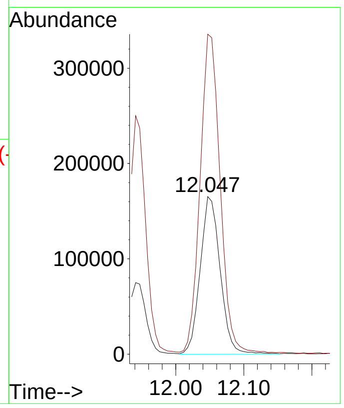
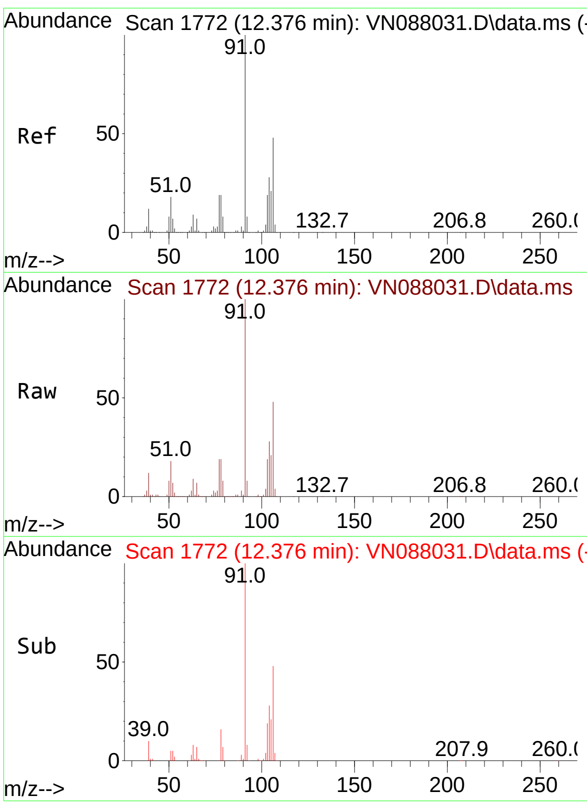
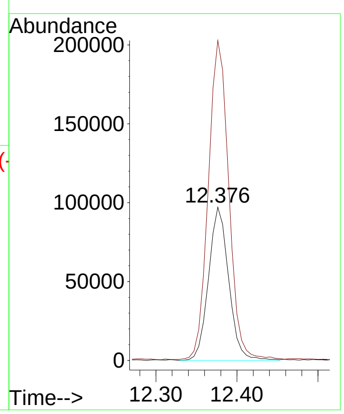


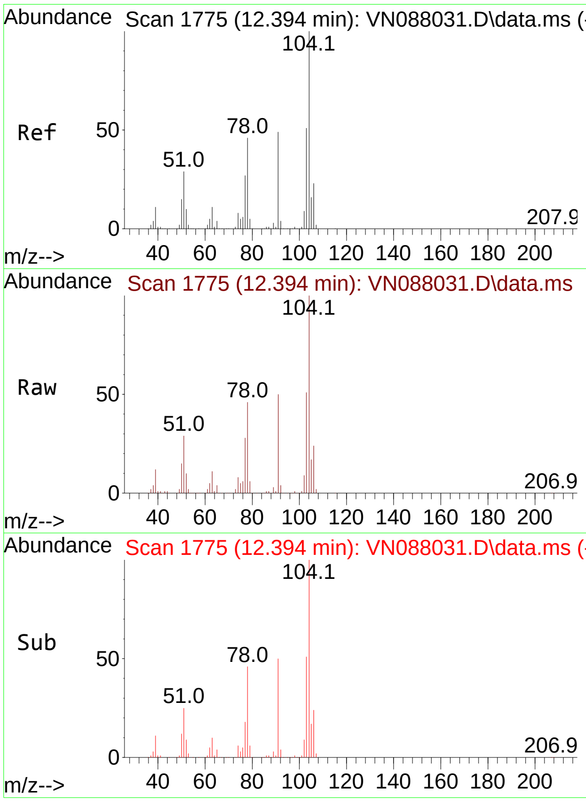


#68
o-Xylene
Concen: 20.001 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:106 Resp: 168249

Ion	Ratio	Lower	Upper
106	100		
91	210.4	105.2	315.6





#69
Styrene
Concen: 19.286 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:104 Resp: 26837

Ion	Ratio	Lower	Upper
104	100		
78	52.2	41.8	62.6
103	56.1	44.9	67.3

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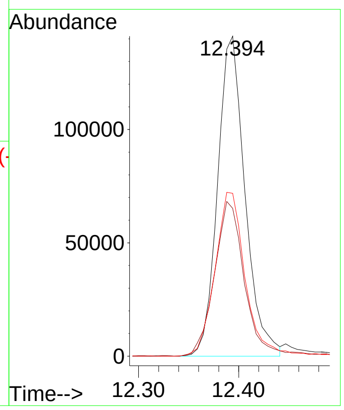
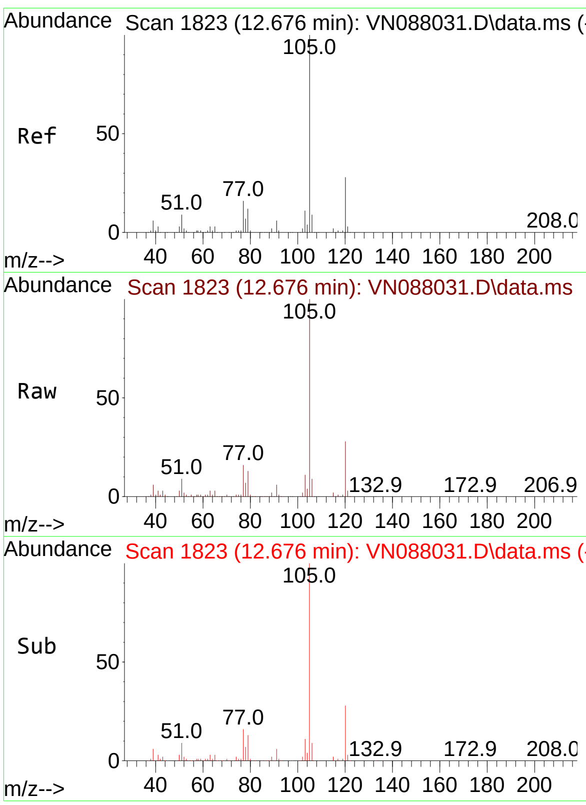
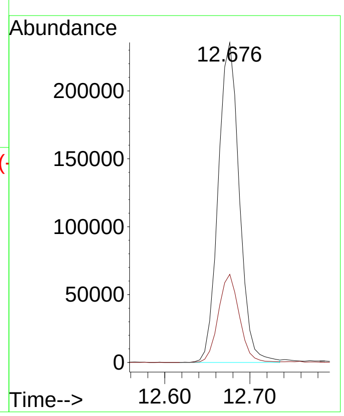


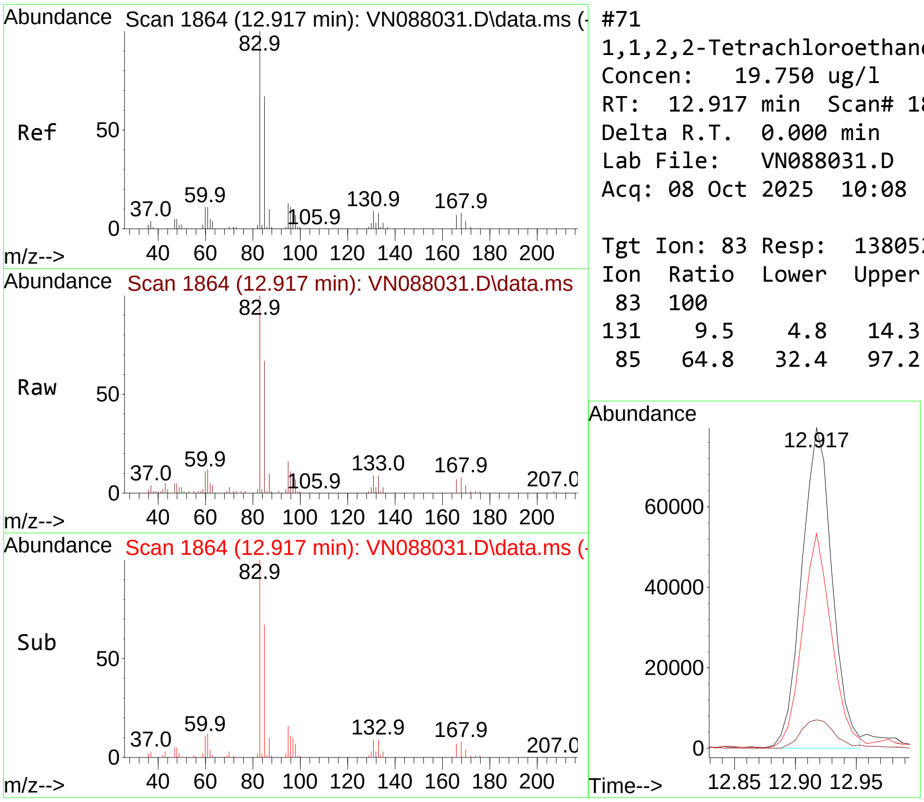


#70
Isopropylbenzene
Concen: 19.771 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:105 Resp: 407637

Ion	Ratio	Lower	Upper
105	100		
120	27.3	19.1	35.5





#71
1,1,2,2-Tetrachloroethane
Concen: 19.750 ug/l
RT: 12.917 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 83 Resp: 138052

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.8	32.4	97.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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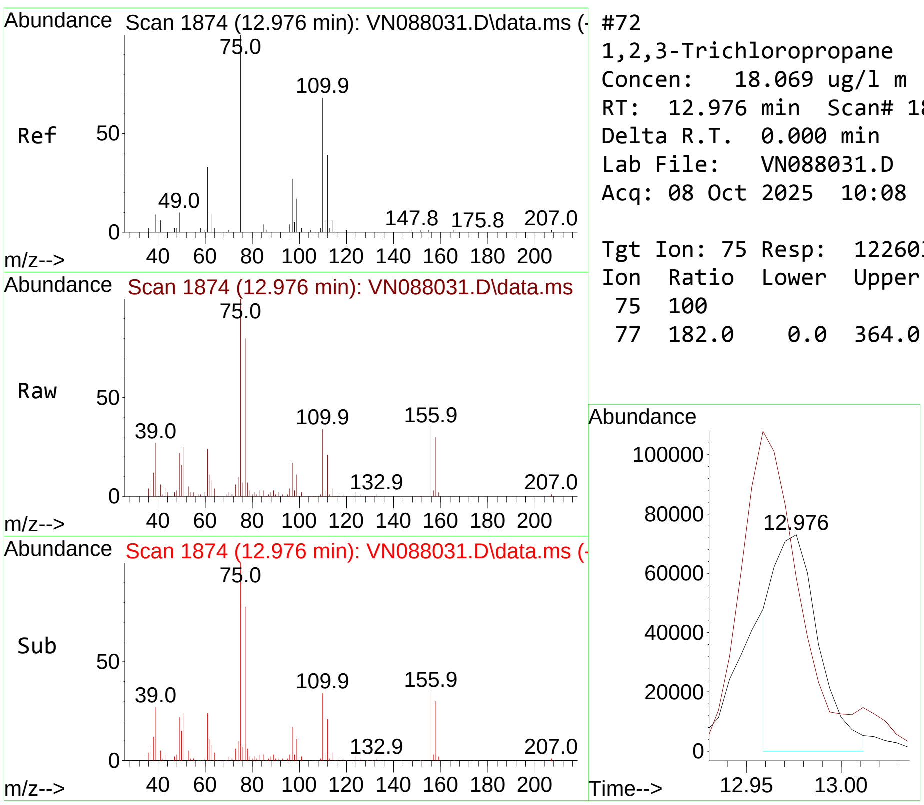
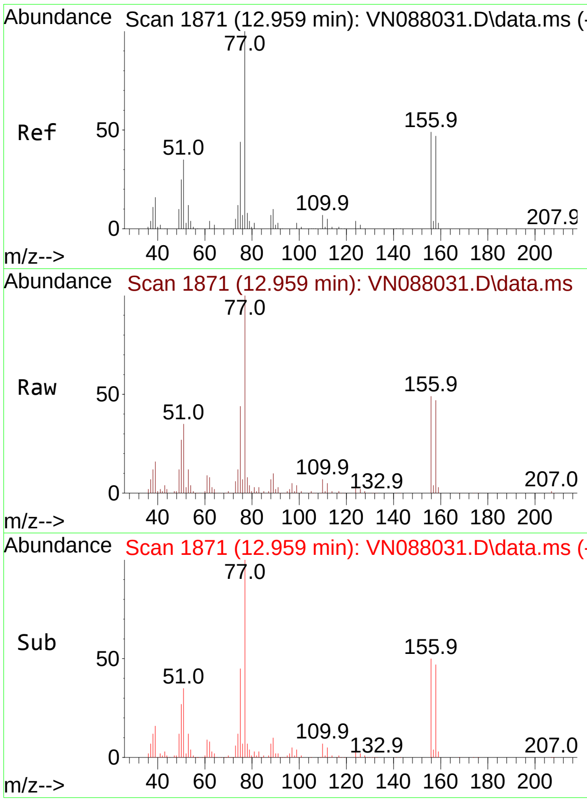


#72
1,2,3-Trichloropropane
Concen: 18.069 ug/l m
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 75 Resp: 122603

Ion	Ratio	Lower	Upper
75	100		
77	182.0	0.0	364.0

ICAL Form



#73
Bromobenzene
Concen: 20.133 ug/l
RT: 12.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:156 Resp: 10145

Ion	Ratio	Lower	Upper
156	100		
77	219.9	0.0	439.8
158	95.0	0.0	190.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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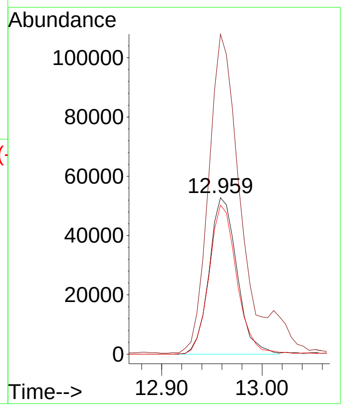
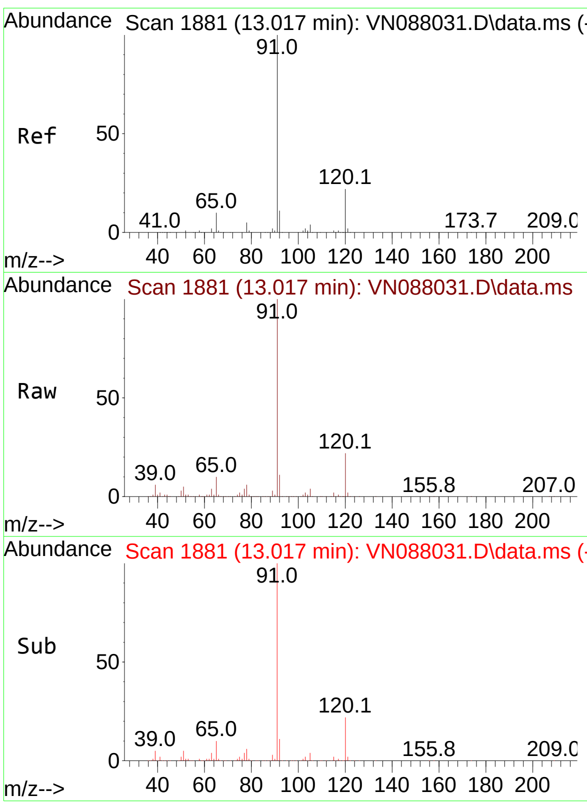
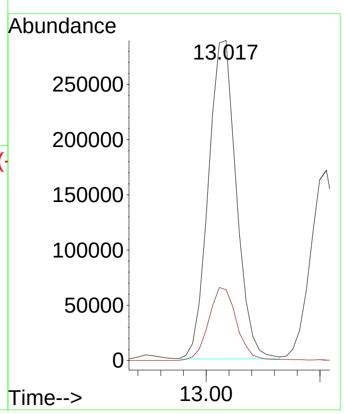




#74
n-propylbenzene
Concen: 19.820 ug/l
RT: 13.017 min Scan# 1881
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 91 Resp: 493301

Ion	Ratio	Lower	Upper
91	100		
120	23.1	0.0	46.2



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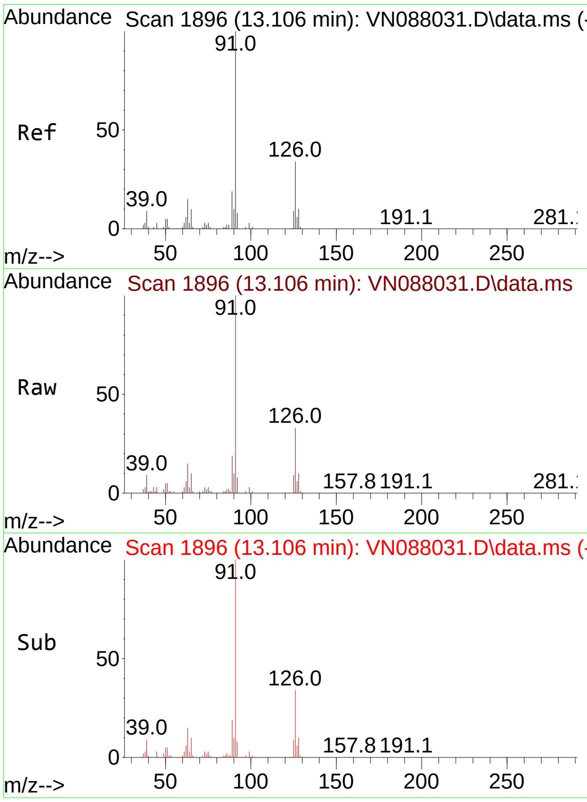

#75
2-Chlorotoluene
Concen: 19.817 ug/l
RT: 13.106 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 91 Resp: 30159

Ion	Ratio	Lower	Upper
91	100		
126	33.3	0.0	66.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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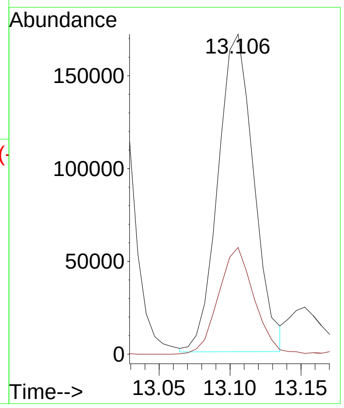
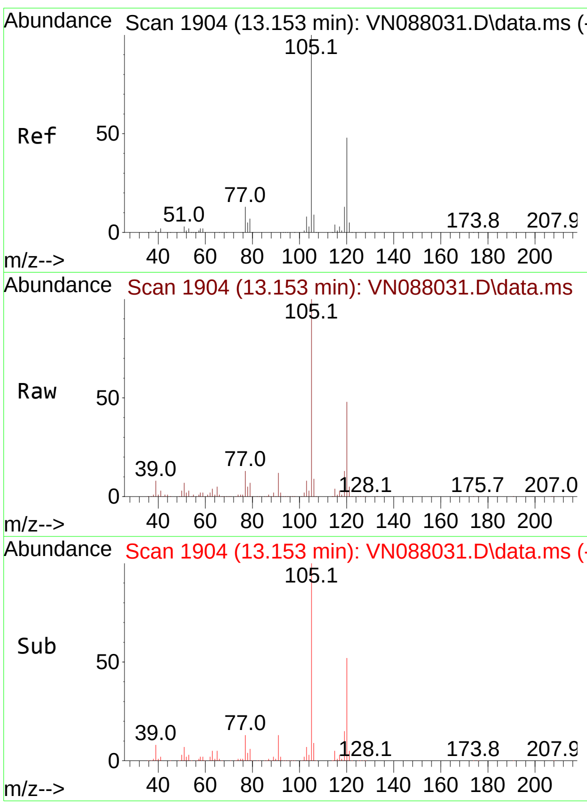
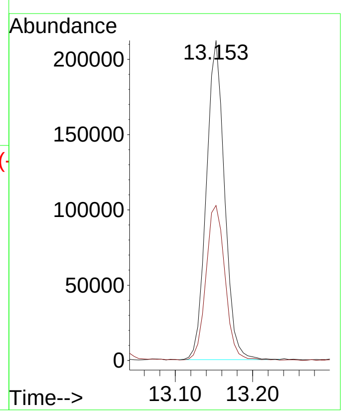




#76
1,3,5-Trimethylbenzene
Concen: 19.811 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:105 Resp: 346960

Ion	Ratio	Lower	Upper
105	100		
120	50.3	0.0	100.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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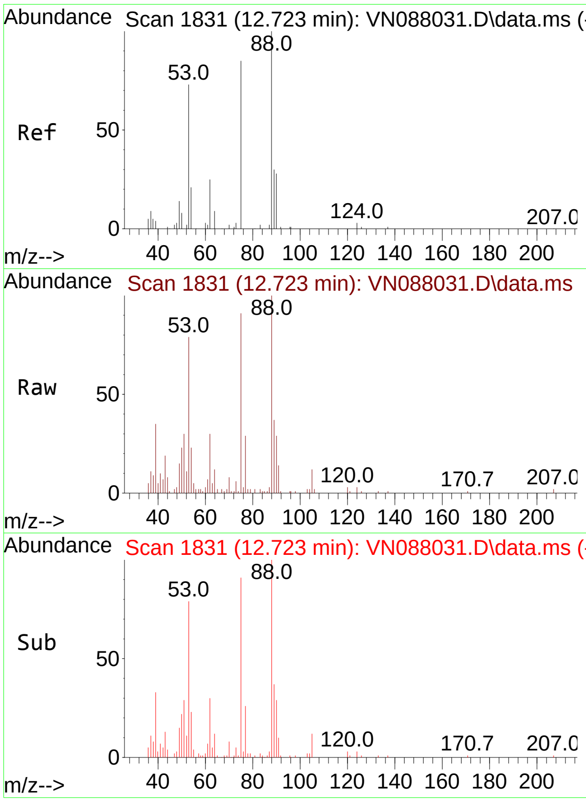
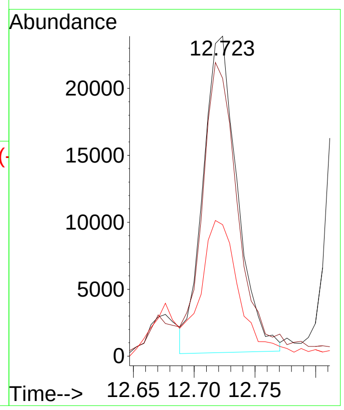
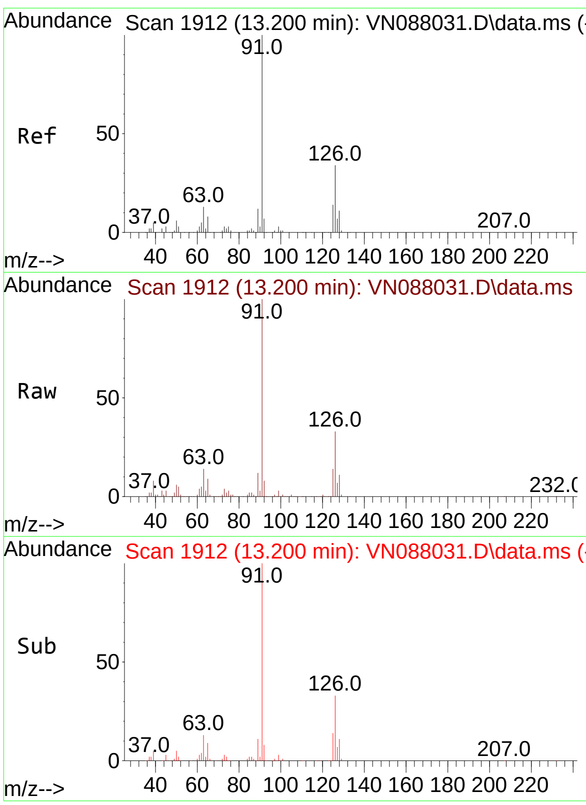


#77
t-1,4-Dichloro-2-butene
Concen: 18.492 ug/l
RT: 12.723 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 75 Resp: 4643

Ion	Ratio	Lower	Upper
75	100		
53	83.5	41.8	125.3
89	39.7	19.9	59.6

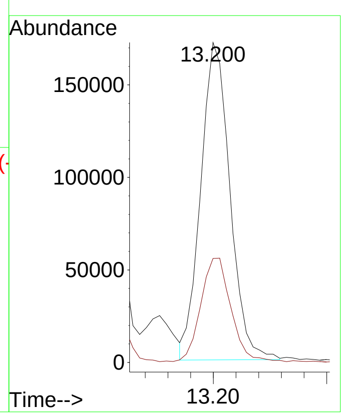




#78
4-Chlorotoluene
Concen: 19.866 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 91 Resp: 307157

Ion	Ratio	Lower	Upper
91	100		
126	34.4	0.0	68.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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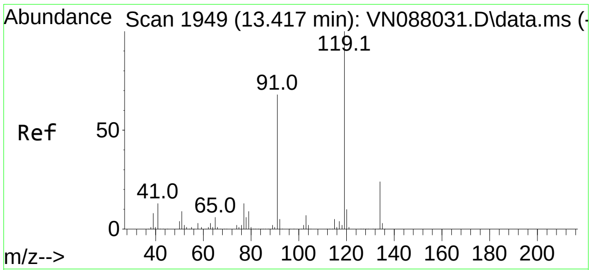
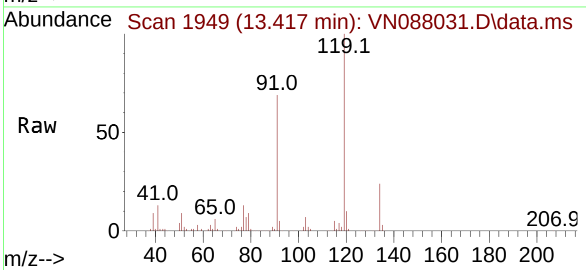
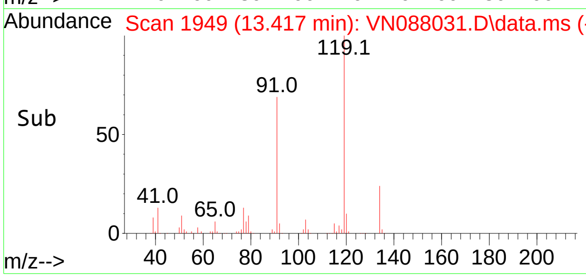


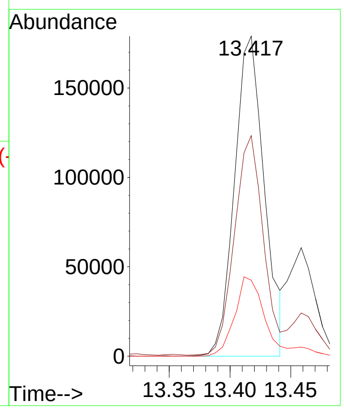


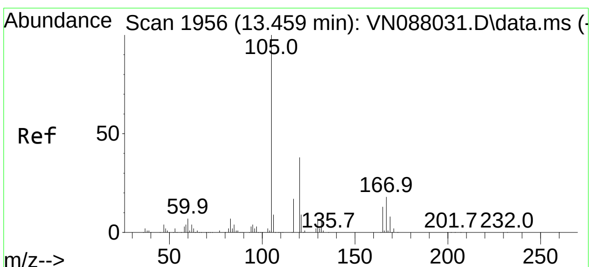


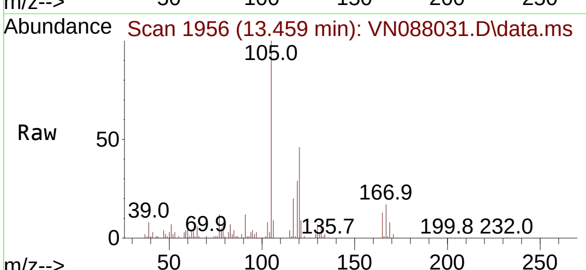
#79
tert-butylbenzene
Concen: 20.082 ug/l
RT: 13.417 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

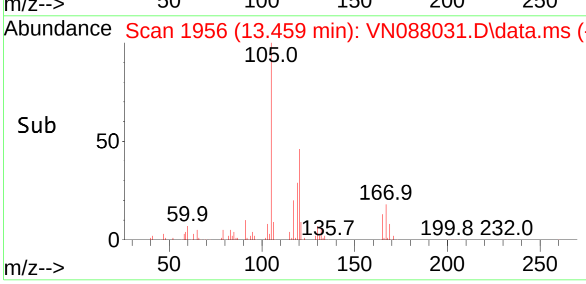
Tgt Ion:119 Resp: 30488

Ion	Ratio	Lower	Upper
119	100		
91	66.2	0.0	132.4
134	24.3	0.0	48.6





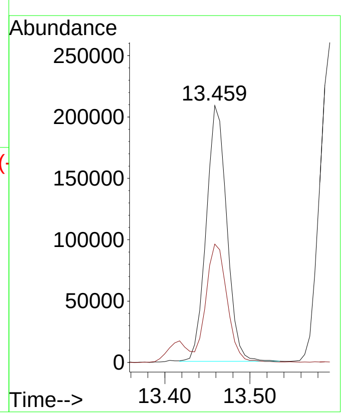




#80
1,2,4-Trimethylbenzene
Concen: 19.910 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:105 Resp: 349065

Ion	Ratio	Lower	Upper
105	100		
120	46.9	0.0	93.8



Instrument :
MSVOA_N
ClientSampleId :
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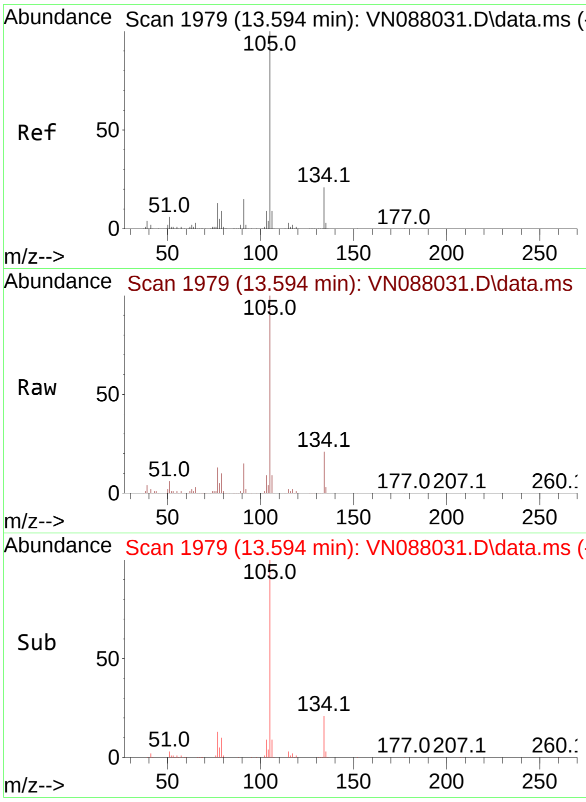
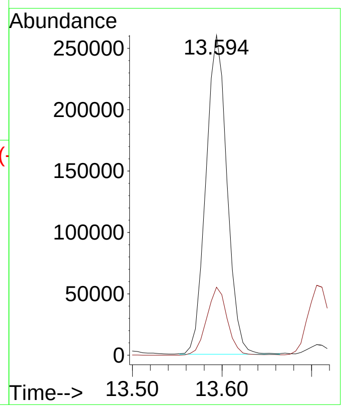
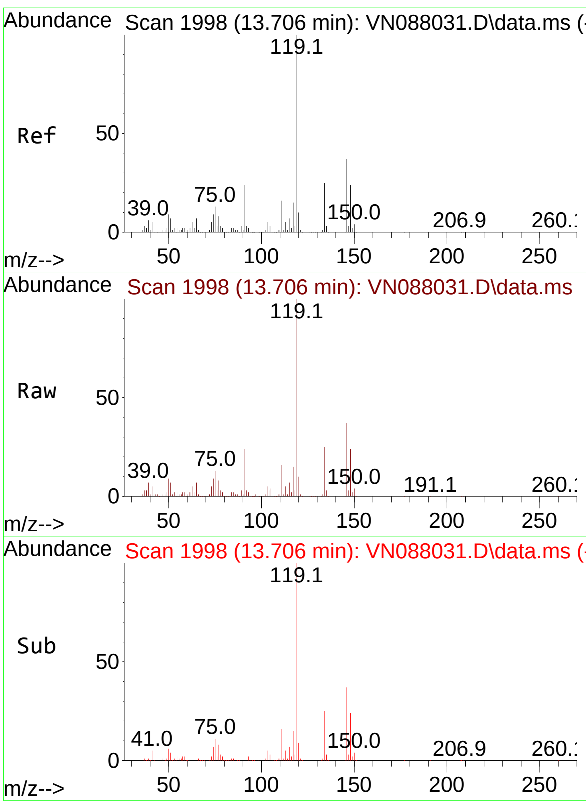


#81
sec-Butylbenzene
Concen: 20.002 ug/l
RT: 13.594 min   Scan# 1
Delta R.T.   0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025   10:08

Tgt Ion:105 Resp: 42697

Ion	Ratio	Lower	Upper
105	100		
134	20.6	0.0	41.2

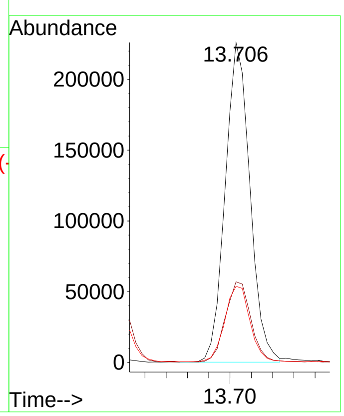


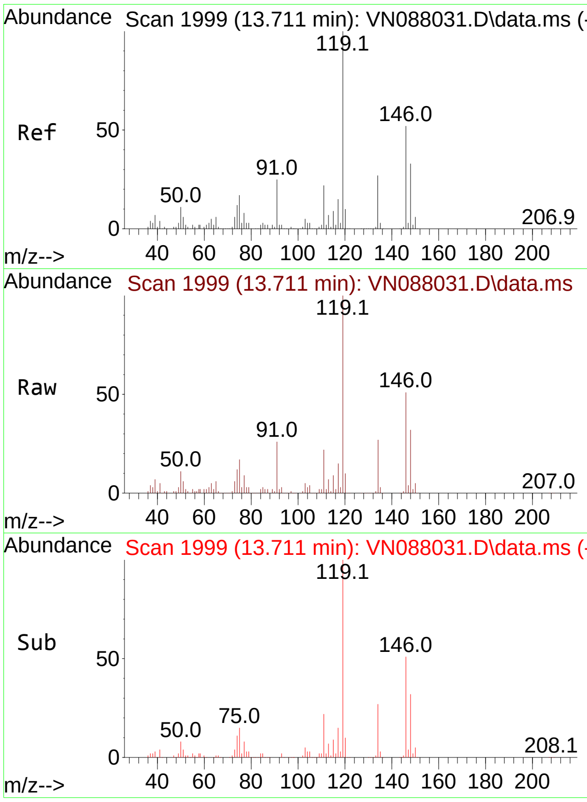


#82
p-Isopropyltoluene
Concen: 20.025 ug/l
RT: 13.706 min   Scan# 1998
Delta R.T.   0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025   10:08

Tgt Ion:119 Resp: 364945

Ion	Ratio	Lower	Upper
119	100		
134	26.3	0.0	52.6
91	24.1	0.0	48.2





#83
1,3-Dichlorobenzene
Concen: 20.090 ug/l
RT: 13.711 min   Scan# 1
Delta R.T.   0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025   10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:146 Resp: 19047

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.1	63.1
148	63.0	31.5	94.5

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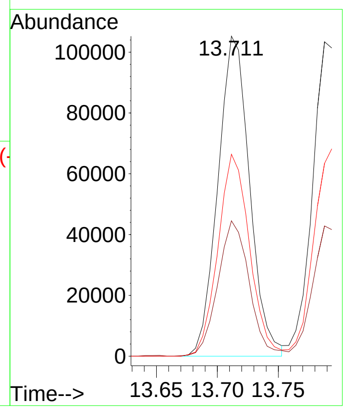
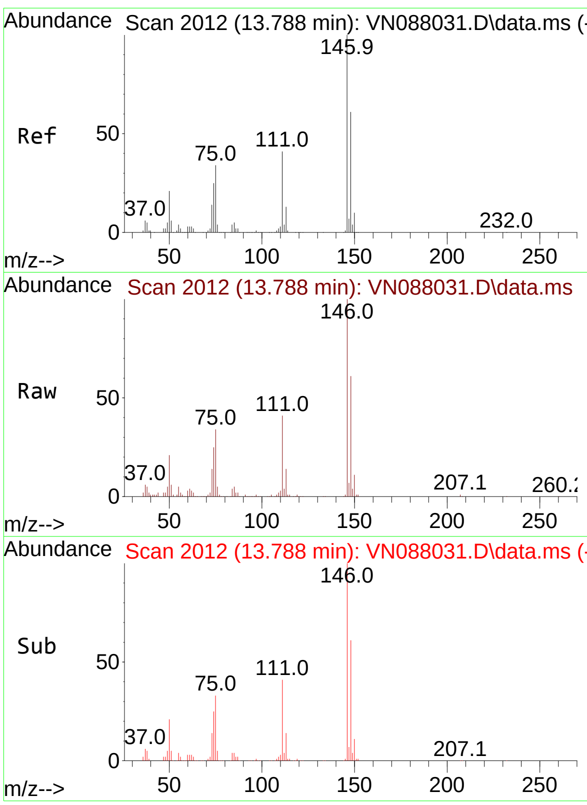
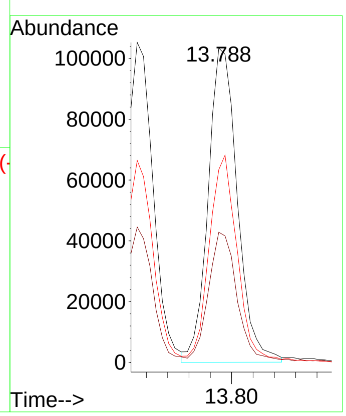


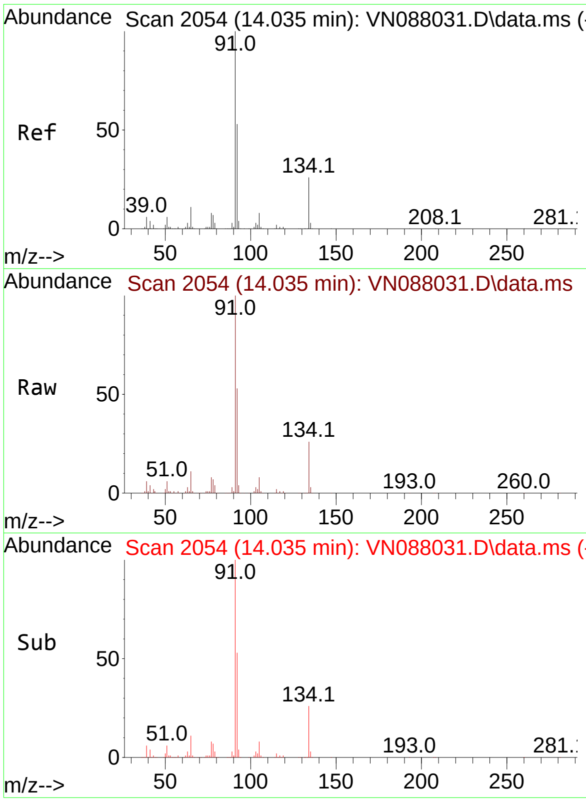


#84
1,4-Dichlorobenzene
Concen: 20.183 ug/l
RT: 13.788 min   Scan# 2012
Delta R.T.   0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025   10:08

Tgt Ion:146 Resp: 197354

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.5	61.6
148	63.9	31.9	95.9





#85
n-Butylbenzene
Concen: 20.022 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 91 Resp: 33947

Ion	Ratio	Lower	Upper
91	100		
92	53.8	0.0	107.6
134	26.3	0.0	52.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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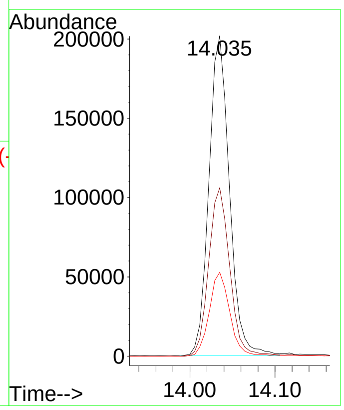
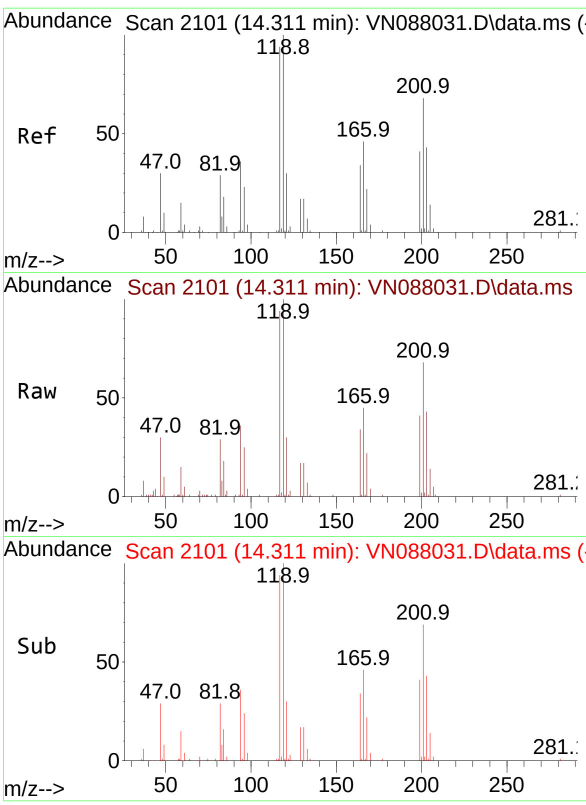
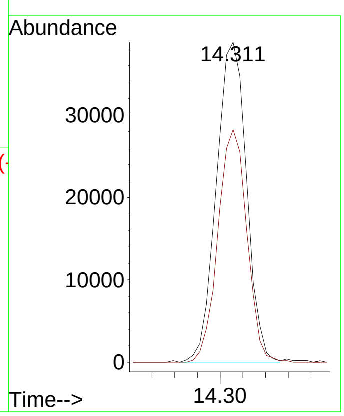




#86
Hexachloroethane
Concen: 19.668 ug/l
RT: 14.311 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:117 Resp: 71806

Ion	Ratio	Lower	Upper
117	100		
201	69.5	34.8	104.3



Instrument :
MSVOA_N
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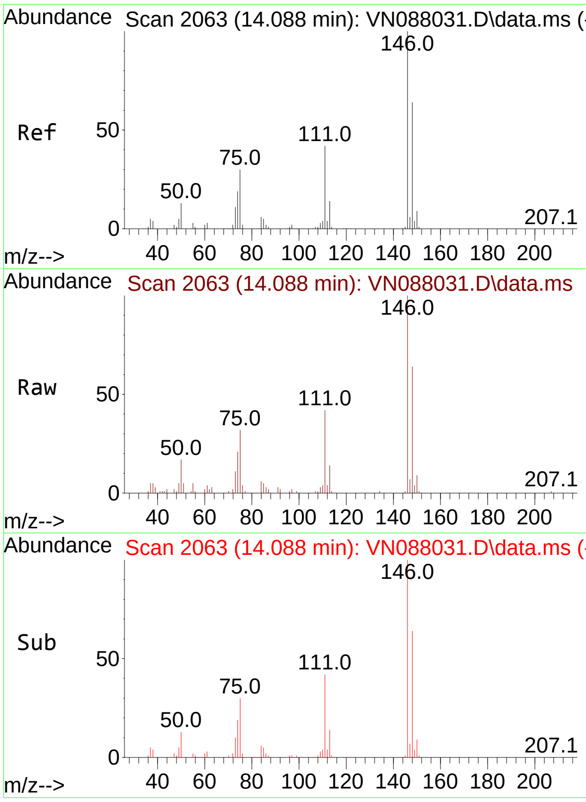
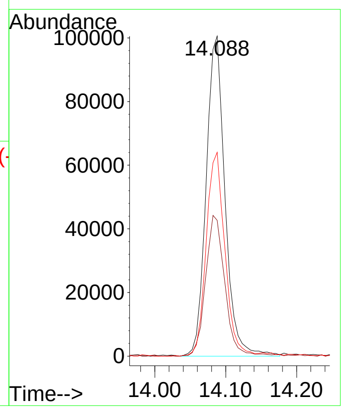
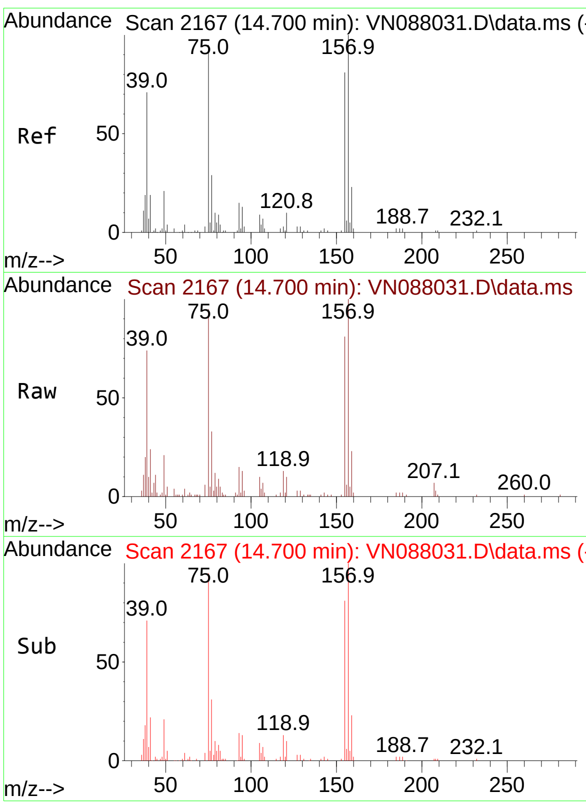


#87
1,2-Dichlorobenzene
Concen: 19.974 ug/l
RT: 14.088 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:146 Resp: 18627

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.3	66.8
148	62.9	31.4	94.3

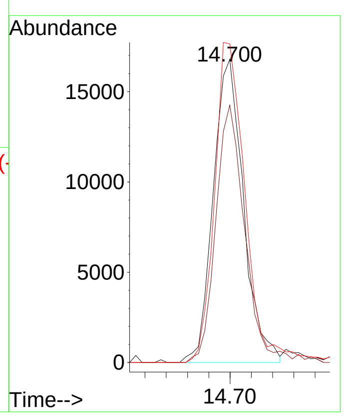




#88
1,2-Dibromo-3-Chloropropane
Concen: 20.674 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion: 75 Resp: 33189

Ion	Ratio	Lower	Upper
75	100		
155	79.4	63.5	95.3
157	102.1	81.7	122.5



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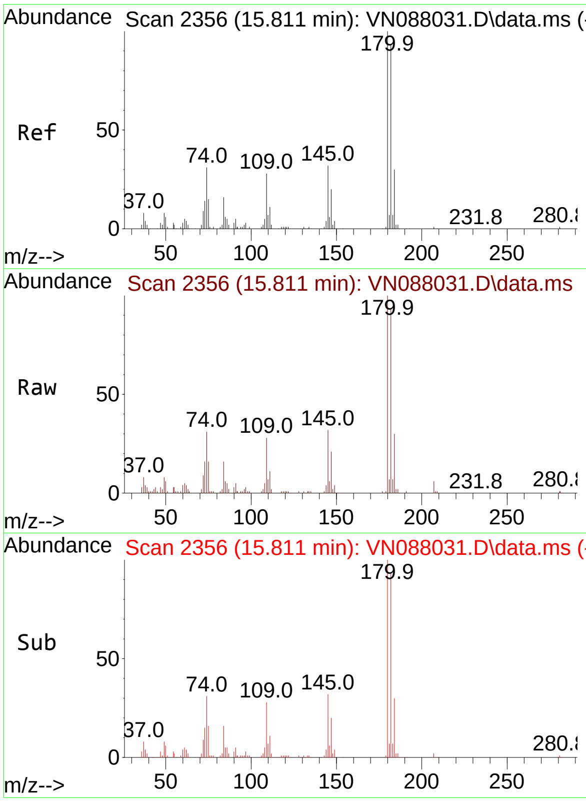

#89
1,2,4-Trichlorobenzene
Concen: 20.037 ug/l
RT: 15.811 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:180 Resp: 11130

Ion	Ratio	Lower	Upper
180	100		
182	93.3	74.6	112.0
145	34.0	27.2	40.8

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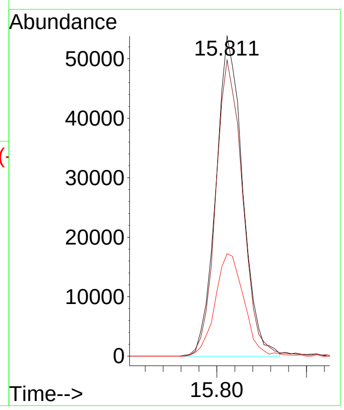
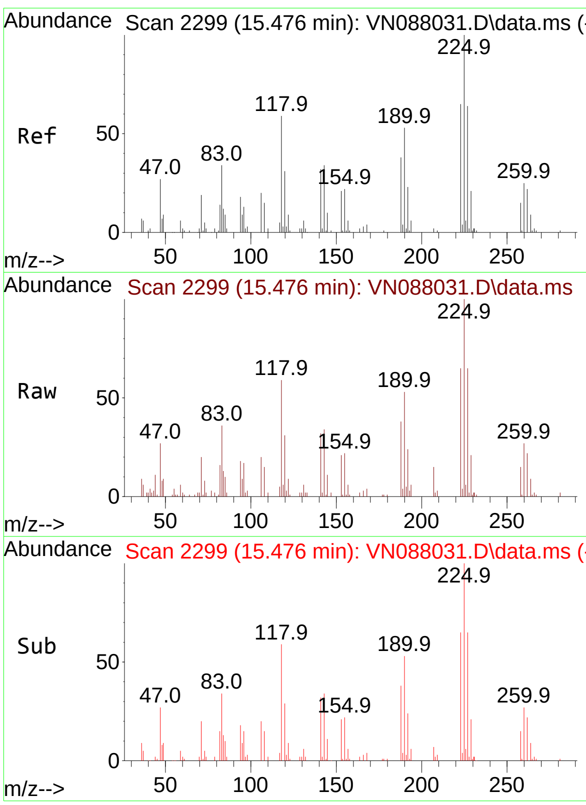
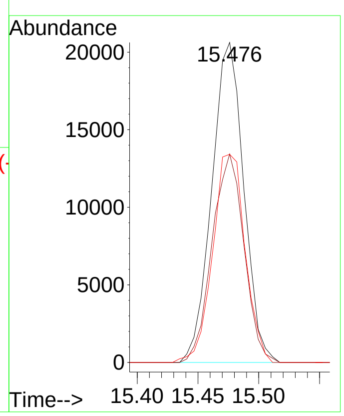




#90
Hexachlorobutadiene
Concen: 19.553 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN088031.D
Acq: 08 Oct 2025 10:08

Tgt Ion:225 Resp: 37802

Ion	Ratio	Lower	Upper
225	100		
223	64.8	0.0	129.6
227	66.1	0.0	132.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

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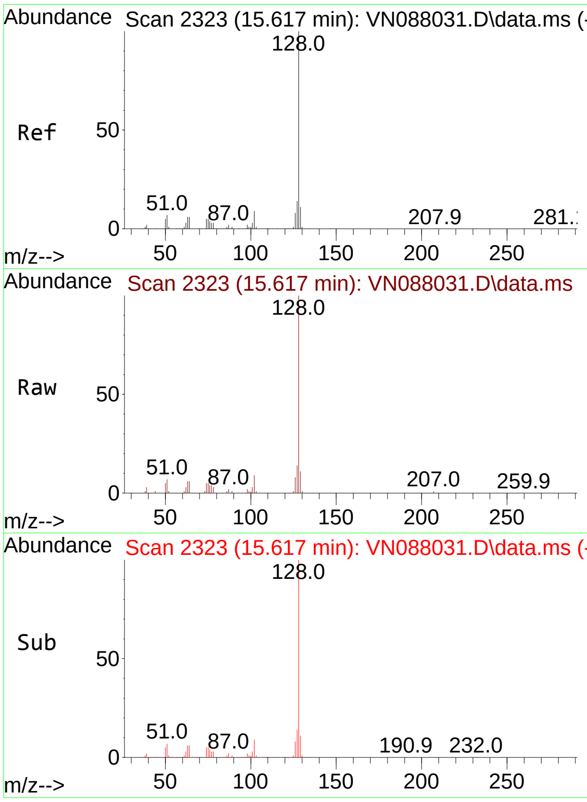
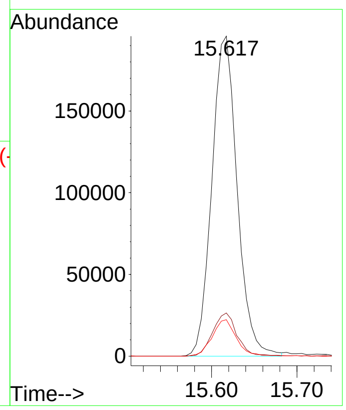
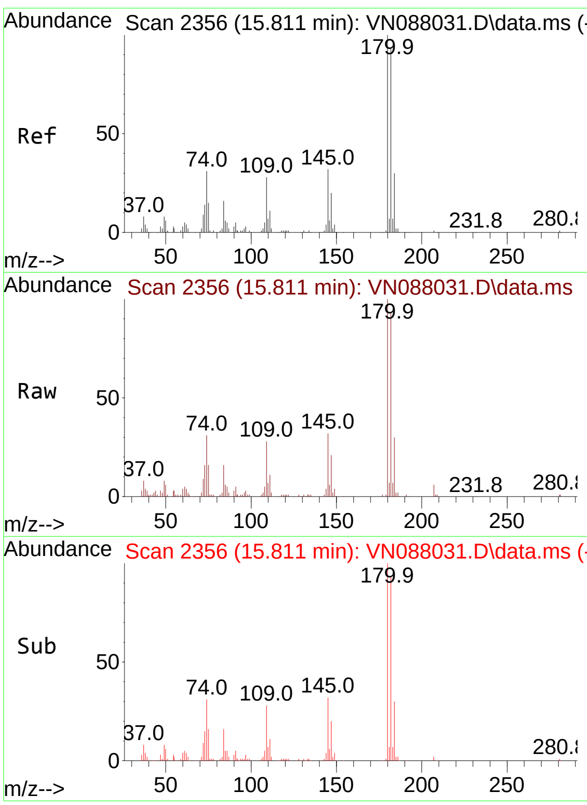
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

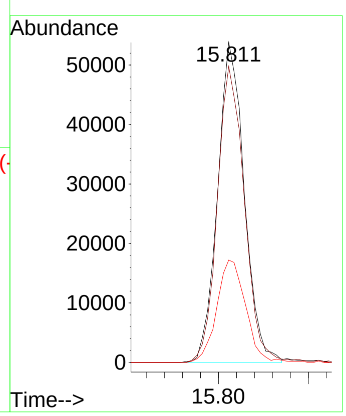



```
#91
Naphthalene
Concen:   19.910 ug/l
RT:  15.617 min   Scan# 2
Delta R.T.   0.000 min
Lab File:    VN088031.D
Acq: 08 Oct 2025   10:08

Tgt Ion:128 Resp:  40490
Ion  Ratio  Lower  Upper
128  100
127   12.9   10.3   15.5
129   10.8    8.6   13.0
```






```
#92
1,2,3-Trichlorobenzene
Concen:   20.037 ug/l
RT:  15.811 min   Scan# 2356
Delta R.T.   0.000 min
Lab File:    VN088031.D
Acq: 08 Oct 2025   10:08

Tgt Ion:180 Resp:  111303
Ion  Ratio  Lower  Upper
180  100
182   93.3    0.0  186.6
145   34.0    0.0   68.0
```



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088032.D
Acq On : 08 Oct 2025 10:30
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Quant Time: Oct 09 02:02:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	71521	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	407063	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	363868	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	168820	30.313	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.033%			
60) 4-Bromofluorobenzene	12.829	95	179340	29.897	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.667%			
63) Toluene-d8	10.547	98	485008	29.917	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.733%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	203904	49.775	ug/l	95
3) Chloromethane	2.383	50	223881	48.205	ug/l	98
4) Vinyl Chloride	2.536	62	234864	48.499	ug/l	99
5) Bromomethane	2.971	94	127206	48.849	ug/l	96
6) Chloroethane	3.136	64	152751	47.817	ug/l	97
7) Trichlorofluoromethane	3.512	101	321596	48.835	ug/l	97
8) Diethyl Ether	3.965	74	142839	48.005	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	173195	49.131	ug/l	97
10) 1,1-Dichloroethene	4.336	96	182248	48.464	ug/l	98
11) Methyl Iodide	4.577	142	183665	52.992	ug/l	97
12) Methyl Acetate	5.018	43	291092	48.943	ug/l	91
13) Acrolein	4.177	56	214422	226.650	ug/l #	6
14) Acrylonitrile	5.706	53	717034	243.043	ug/l	99
15) Acetone	4.424	58	206350	238.097	ug/l	90
16) Carbon Disulfide	4.700	76	571725	48.499	ug/l	97
17) Allyl chloride	5.012	41	335231	47.243	ug/l	98
18) Methylene Chloride	5.259	84	231926	48.524	ug/l	96
19) trans-1,2-Dichloroethene	5.771	96	206627	47.525	ug/l	90
20) Diisopropyl ether	6.659	45	784464	48.559	ug/l	98
21) 1,1-Dichloroethane	6.553	63	402552	47.866	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	262837	48.293	ug/l	99
23) tert-Butyl Alcohol	5.530	59	286613	242.230	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	787846	48.537	ug/l	98
25) Chloroform	7.947	83	416216	47.959	ug/l	100
26) Cyclohexane	8.241	56	336848	48.343	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	280084	48.002	ug/l	99
30) 2-Butanone	7.471	43	1034181	240.318	ug/l	99
31) 2,2-Dichloropropane	7.471	77	357946	47.547	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	348014	47.733	ug/l	99
33) Carbon Tetrachloride	8.341	117	295178	48.335	ug/l	97
34) Benzene	8.588	78	926605	47.877	ug/l	99
35) Methacrylonitrile	7.765	41	221496	48.945	ug/l	94
36) 1,2-Dichloroethane	8.653	62	320898	47.761	ug/l	99
37) Trichloroethene	9.329	130	218229	47.593	ug/l	100
38) Methylcyclohexane	9.582	83	347822	48.271	ug/l	99
39) 1,2-Dichloropropane	9.600	63	228797	47.147	ug/l	94
40) Dibromomethane	9.688	93	170079	48.148	ug/l	98
41) Bromodichloromethane	9.871	83	340823	47.241	ug/l	99
42) Vinyl Acetate	6.588	43	3449178	235.274	ug/l	99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088032.D
Acq On : 08 Oct 2025 10:30
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 02:02:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	386755	46.753	ug/l	95
44) Isopropyl Acetate	8.671	43	658172	48.713	ug/l	98
45) 1,4-Dioxane	9.682	88	88246	982.026	ug/l	98
46) Methyl methacrylate	9.665	41	292033	49.080	ug/l	96
47) n-amyl Acetate	12.506	43	301319m	50.755	ug/l	
48) t-1,3-Dichloropropene	10.818	75	387494	48.302	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	399785	47.774	ug/l	94
50) 1,1,2-Trichloroethane	10.994	97	224582	48.009	ug/l	95
51) Ethyl methacrylate	10.853	69	395806	49.995	ug/l	99
52) 1,3-Dichloropropane	11.141	76	390914	47.897	ug/l	99
53) Dibromochloromethane	11.335	129	269681	48.222	ug/l	100
54) 1,2-Dibromoethane	11.447	107	238540	47.697	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	1061685	248.447	ug/l	100
56) Bromoform	12.559	173	185069	48.948	ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	1992861	244.858	ug/l	99
59) 2-Hexanone	11.176	43	1382348	257.249	ug/l	99
61) Tetrachloroethene	11.082	164	177933	48.289	ug/l	95
62) Toluene	10.612	91	997746	48.341	ug/l	99
64) Chlorobenzene	11.871	112	642529	48.738	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	223784	49.257	ug/l	97
66) Ethyl Benzene	11.941	91	1091616	48.639	ug/l	97
67) m/p-Xylenes	12.047	106	840749	97.174	ug/l	99
68) o-Xylene	12.376	106	415634	48.257	ug/l	96
69) Styrene	12.388	104	714533	50.151	ug/l	98
70) Isopropylbenzene	12.676	105	1034903	49.025	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	349263	48.801	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	331890m	47.774	ug/l	
73) Bromobenzene	12.959	156	255670	49.554	ug/l	98
74) n-propylbenzene	13.012	91	1253446	49.187	ug/l	100
75) 2-Chlorotoluene	13.100	91	759413	48.738	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	881209	49.143	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	129603	50.413	ug/l	93
78) 4-Chlorotoluene	13.200	91	785069	49.593	ug/l	98
79) tert-butylbenzene	13.412	119	769068	49.475	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	881036	49.081	ug/l	100
81) sec-Butylbenzene	13.594	105	1073333	49.110	ug/l	100
82) p-Isopropyltoluene	13.706	119	922870	49.458	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	483694	49.826	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	486086	48.552	ug/l	99
85) n-Butylbenzene	14.035	91	861074	49.601	ug/l	99
86) Hexachloroethane	14.312	117	184332	49.313	ug/l	96
87) 1,2-Dichlorobenzene	14.082	146	464249	48.621	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	80611	49.043	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	275876	48.506	ug/l	98
90) Hexachlorobutadiene	15.470	225	98031	49.524	ug/l	97
91) Naphthalene	15.611	128	1015294	48.760	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	275876	48.506	ug/l	98

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

Quantitation Report (QT Reviewed)

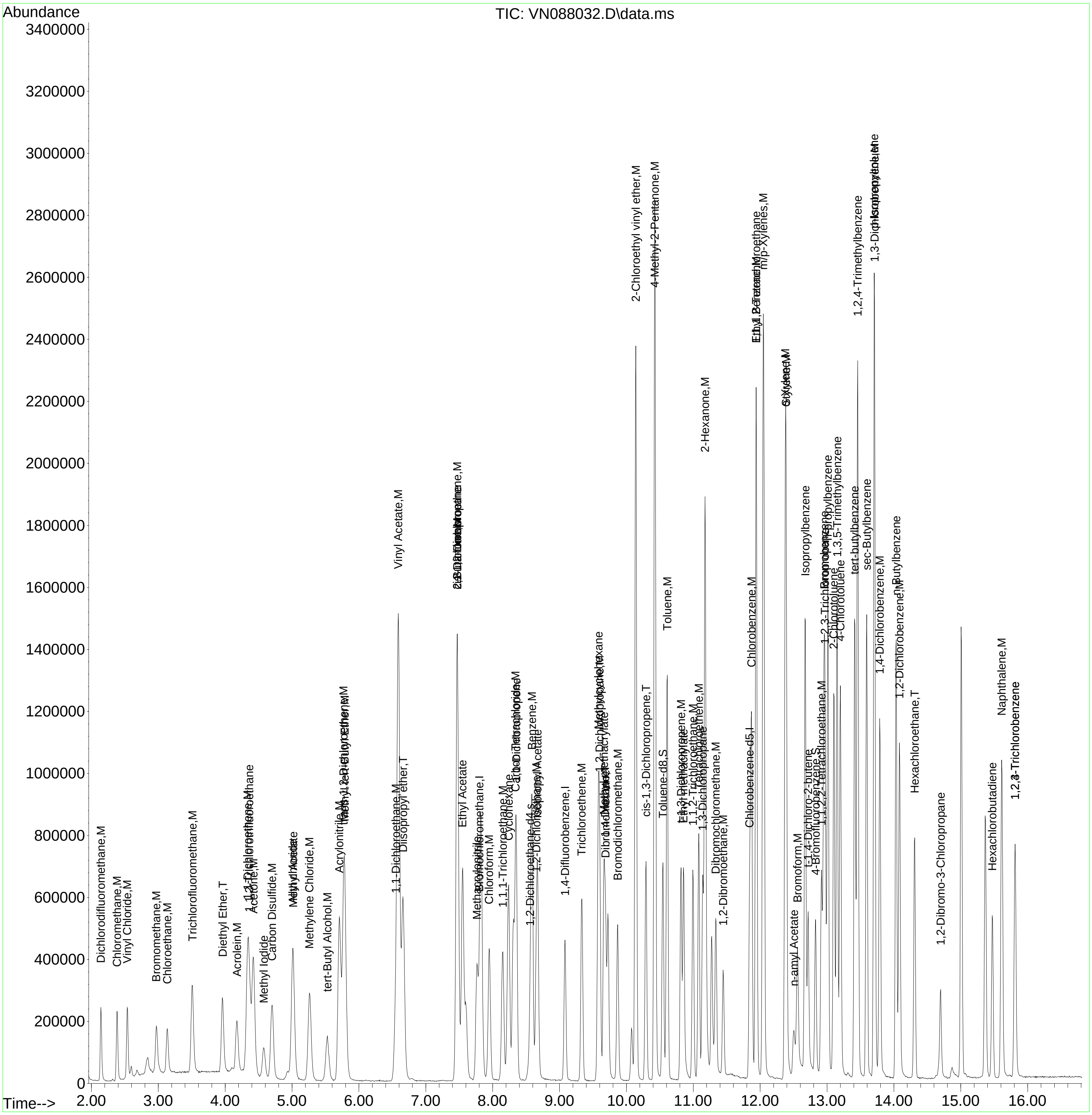
ICAL Form

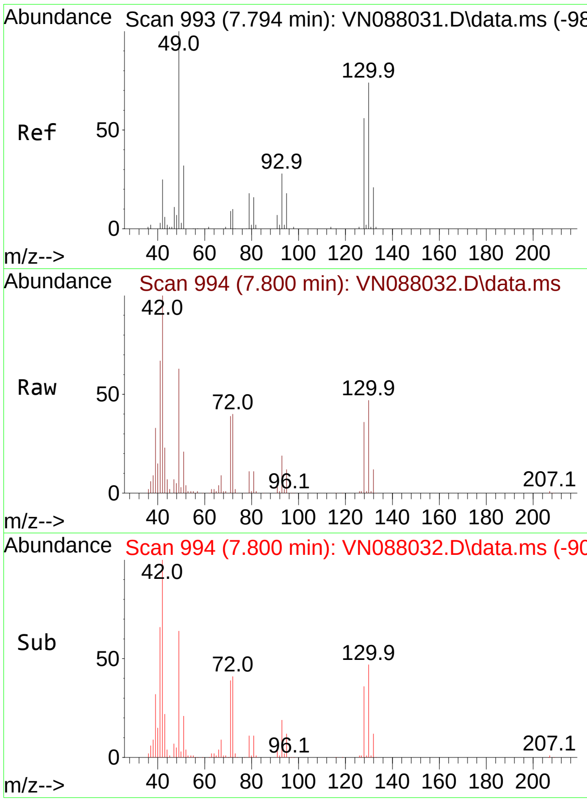
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088032.D
Acq On : 08 Oct 2025 10:30
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Quant Time: Oct 09 02:02:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min   Scan# 9
Delta R.T.   0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

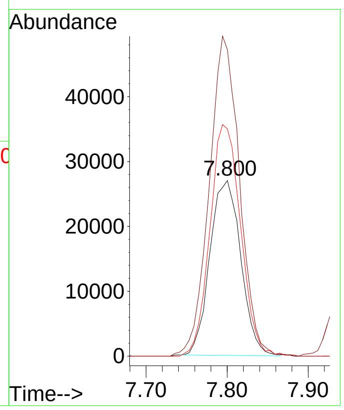
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

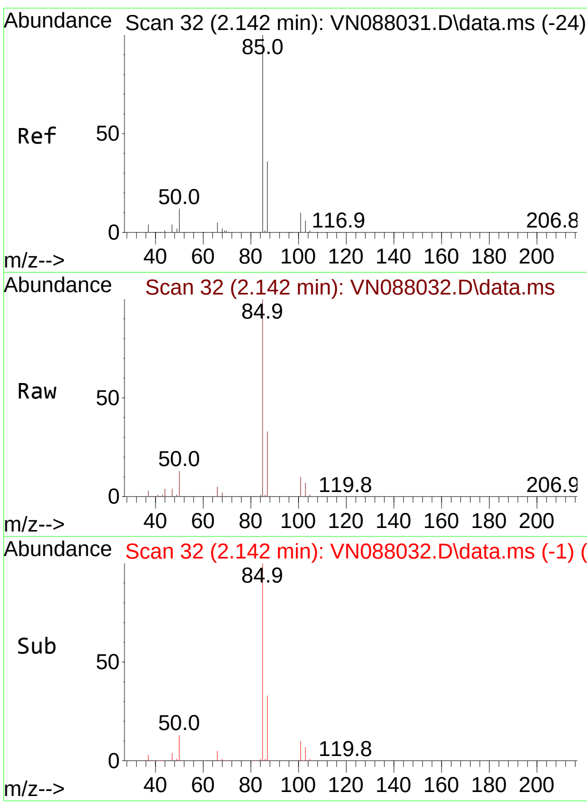
Manual Integrations APPROVED

Reviewed By :John Carlone   10/09/2025
Supervised By :Mahesh Dadoda   10/10/2025

Tgt Ion:128 Resp: 7152

Ion	Ratio	Lower	Upper
128	100		
49	179.6	0.0	439.8
130	131.6	0.0	325.8

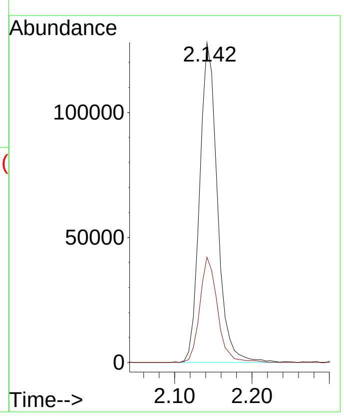


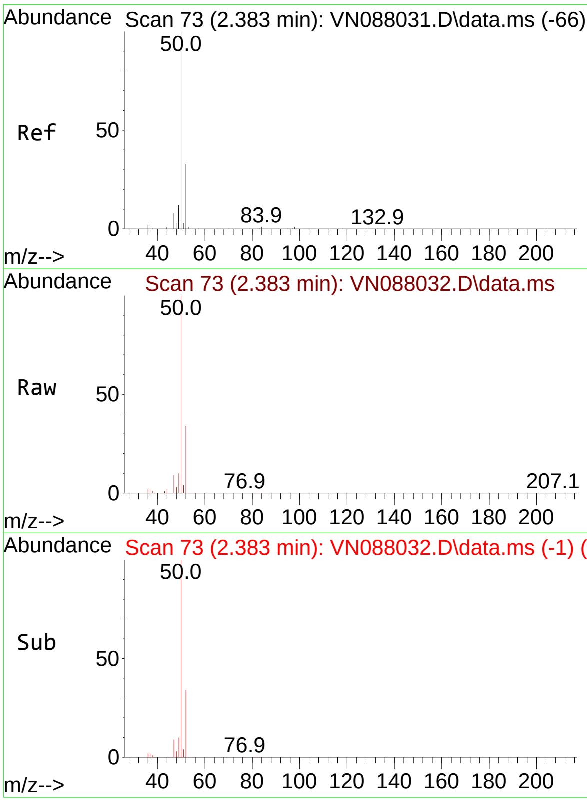


#2
Dichlorodifluoromethane
Concen: 49.775 ug/l
RT: 2.142 min   Scan# 32
Delta R.T.   0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

Tgt Ion: 85 Resp: 203904

Ion	Ratio	Lower	Upper
85	100		
87	32.9	17.9	53.8





#3
Chloromethane
Concen: 48.205 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

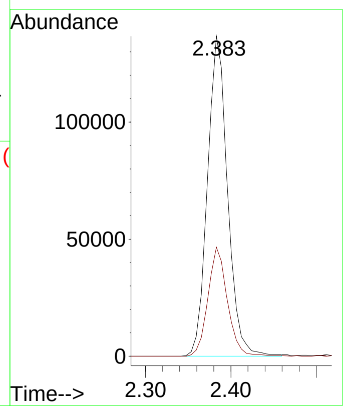
Tgt Ion: 50 Resp: 22388

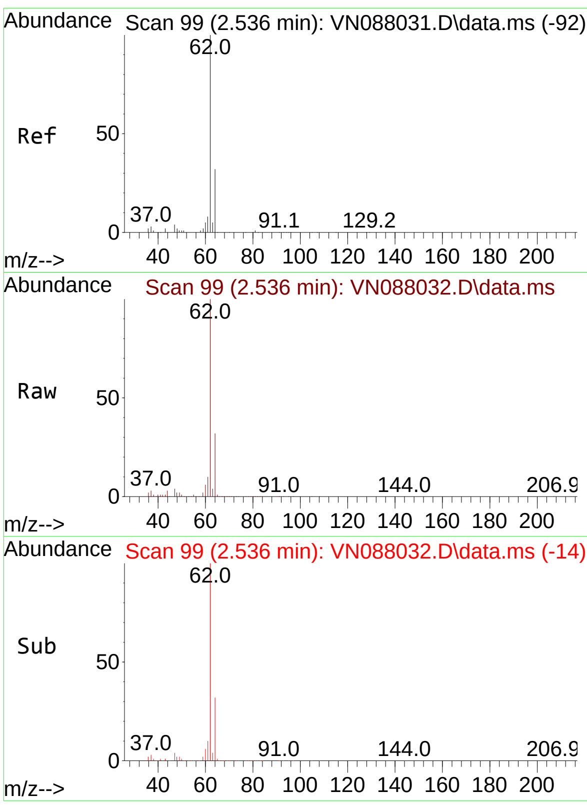
Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.3	39.5

Instrument : MSVOA_N
ClientSampleId : VSTDICC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

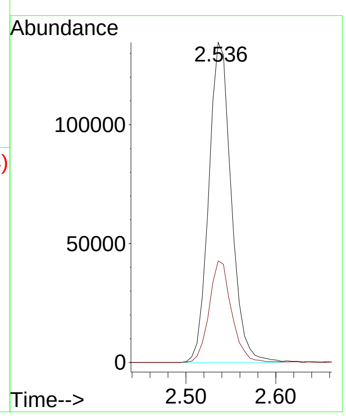




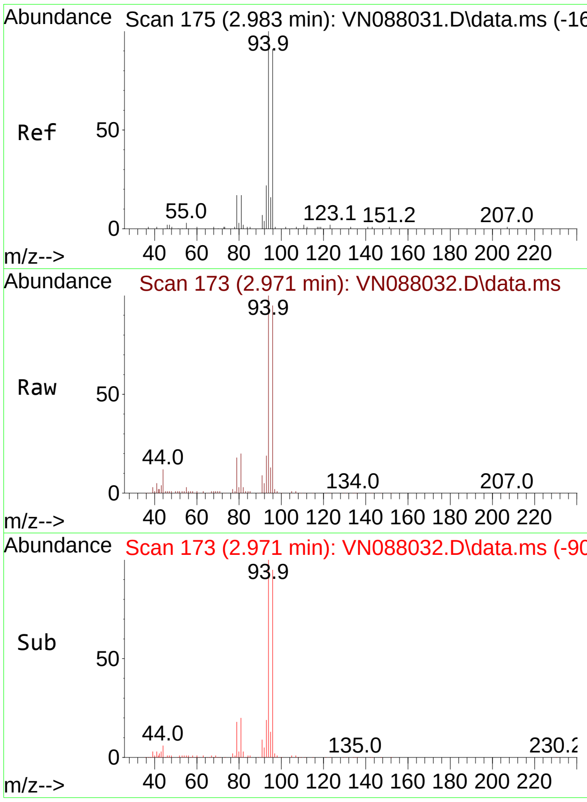
#4
Vinyl Chloride
Concen: 48.499 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 62 Resp: 234864

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.7	38.5



ICAL Form



#5
Bromomethane
Concen: 48.849 ug/l
RT: 2.971 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

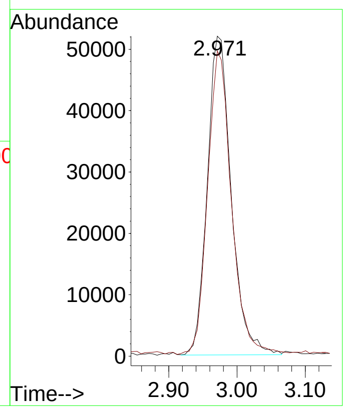
Tgt Ion: 94 Resp: 12720

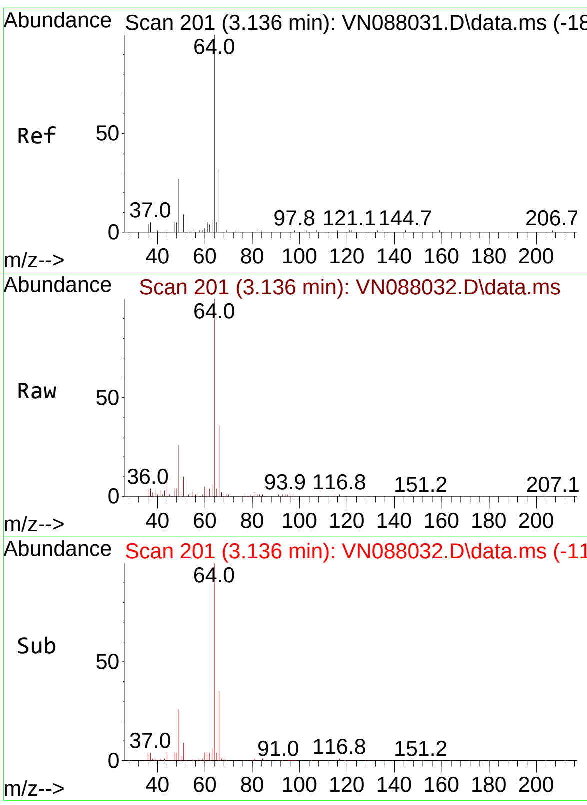
Ion	Ratio	Lower	Upper
94	100		
96	95.0	73.0	109.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

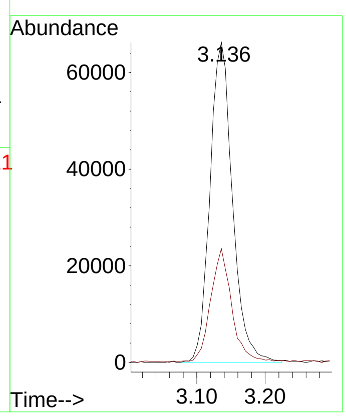




#6
Chloroethane
Concen: 47.817 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 64 Resp: 152751

Ion	Ratio	Lower	Upper
64	100		
66	35.1	26.8	40.2

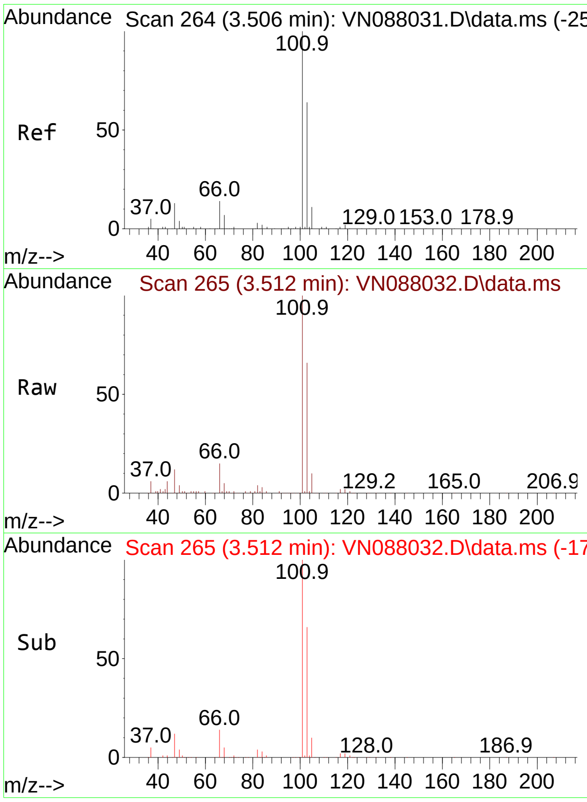


ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

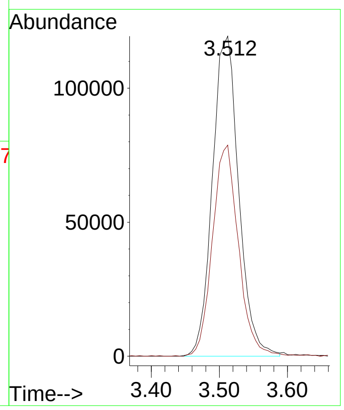
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

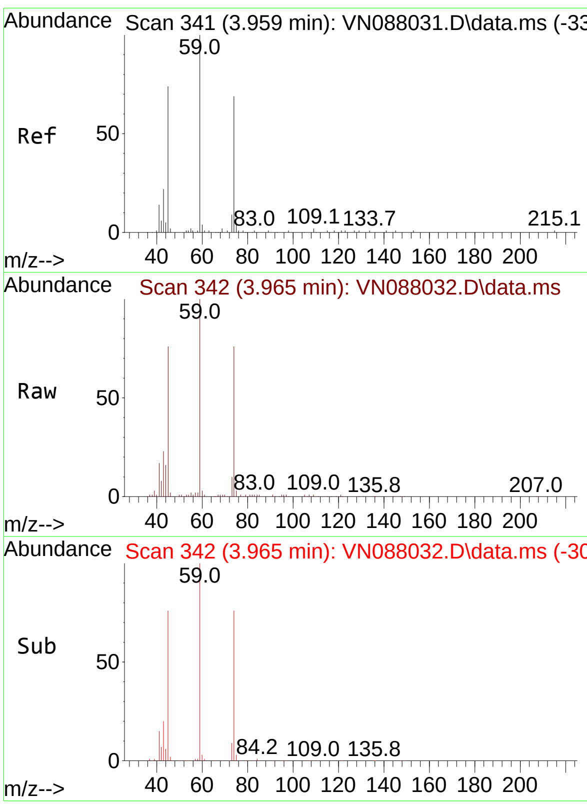


#7
Trichlorofluoromethane
Concen: 48.835 ug/l
RT: 3.512 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:101 Resp: 32159

Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.0	76.4

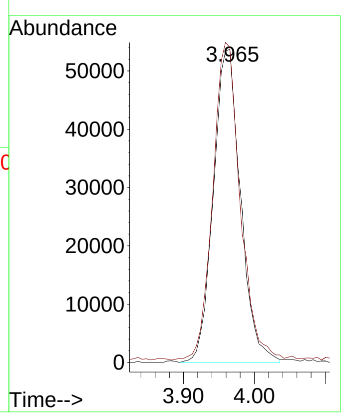




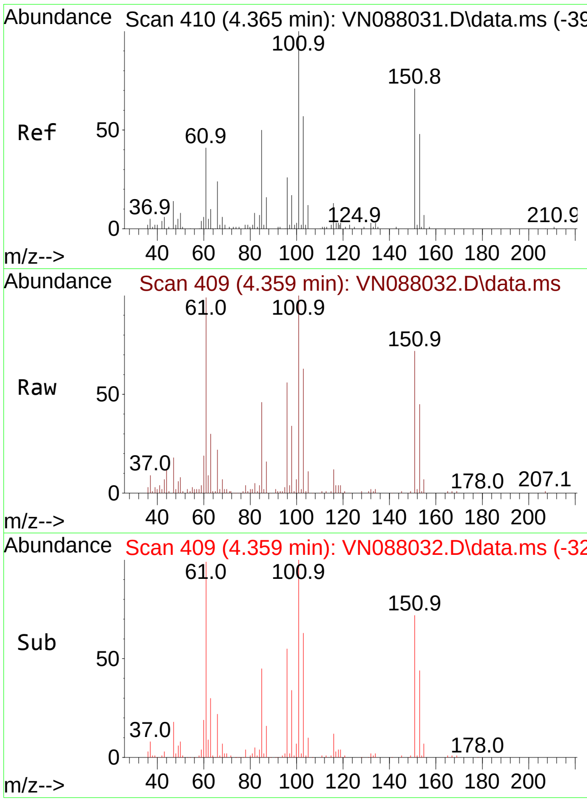
#8
Diethyl Ether
Concen: 48.005 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 74 Resp: 142839

Ion	Ratio	Lower	Upper
74	100		
45	102.1	20.4	183.8



ICAL Form



#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.131 ug/l
RT: 4.359 min Scan# 4(
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

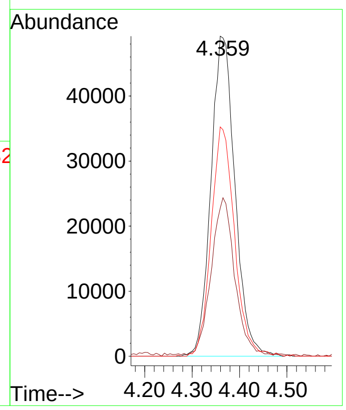
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

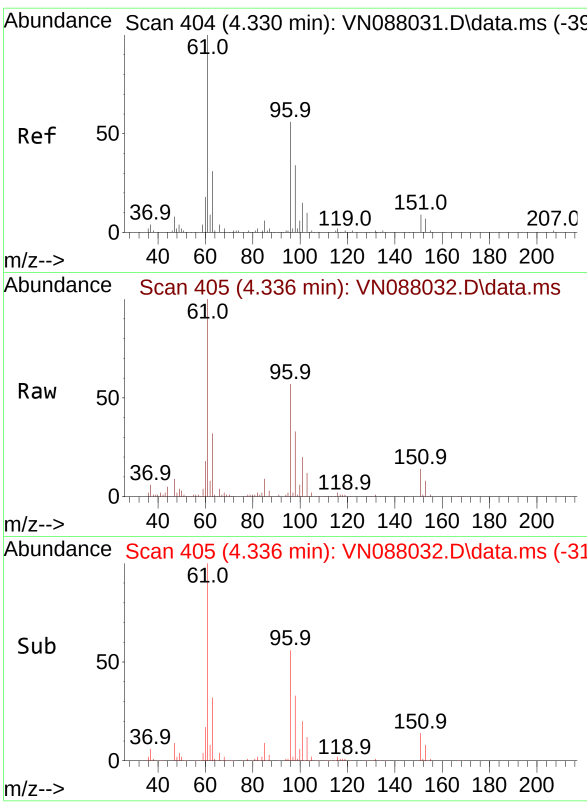
Tgt Ion:101 Resp: 173195

Ion	Ratio	Lower	Upper
101	100		
85	48.3	0.0	103.2
151	69.1	0.0	141.4

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

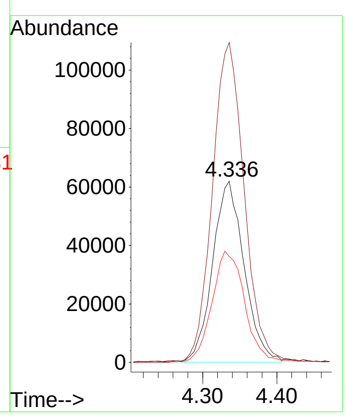


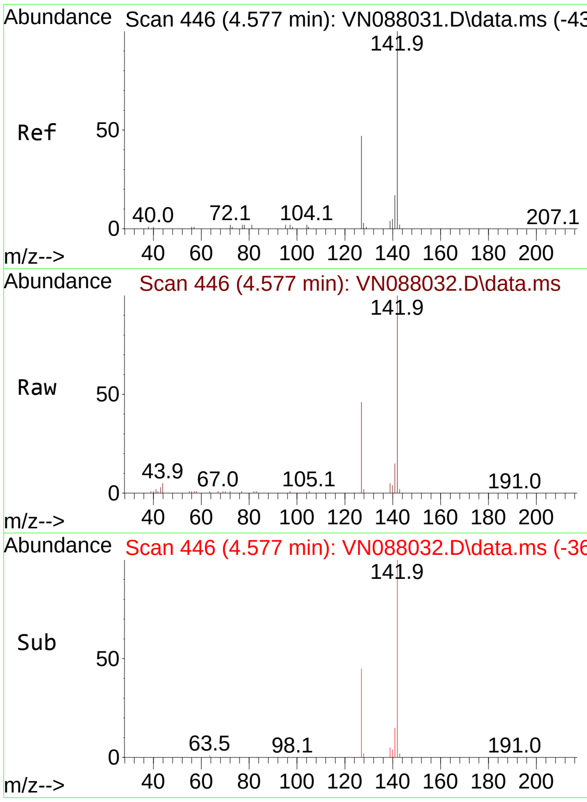


#10
1,1-Dichloroethene
Concen: 48.464 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 96 Resp: 182248

Ion	Ratio	Lower	Upper
96	100		
61	177.7	144.1	216.1
98	58.6	49.0	73.6

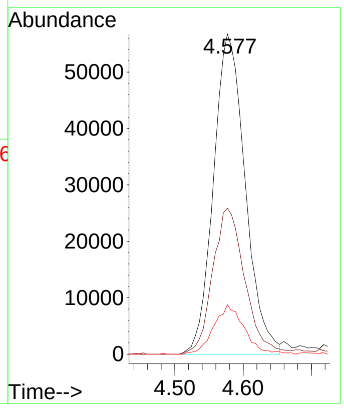




#11
Methyl Iodide
Concen: 52.992 ug/l
RT: 4.577 min Scan# 44
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:142 Resp: 18366

Ion	Ratio	Lower	Upper
142	100		
127	45.5	23.4	70.3
141	15.3	8.8	26.2



Instrument : MSVOA_N
ClientSampleId : VSTDICC050

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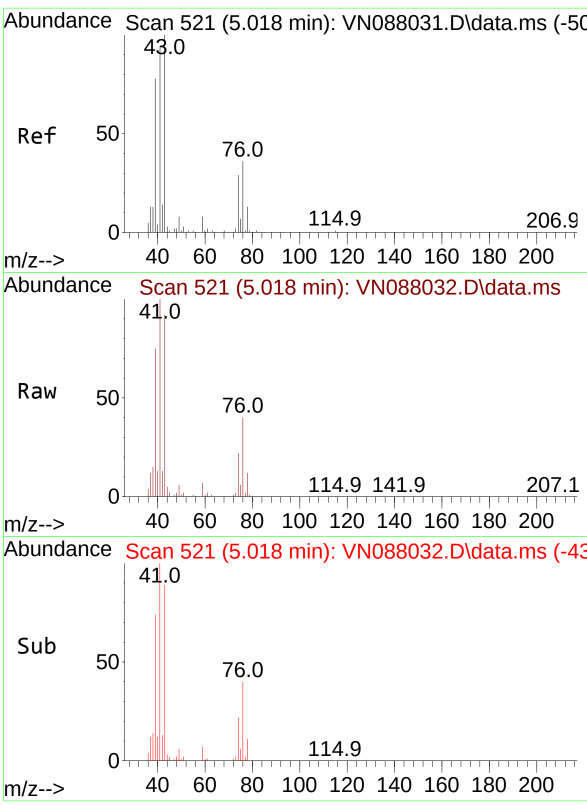
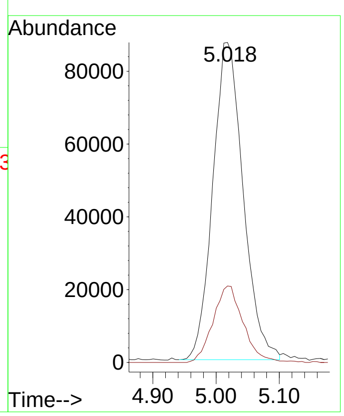
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



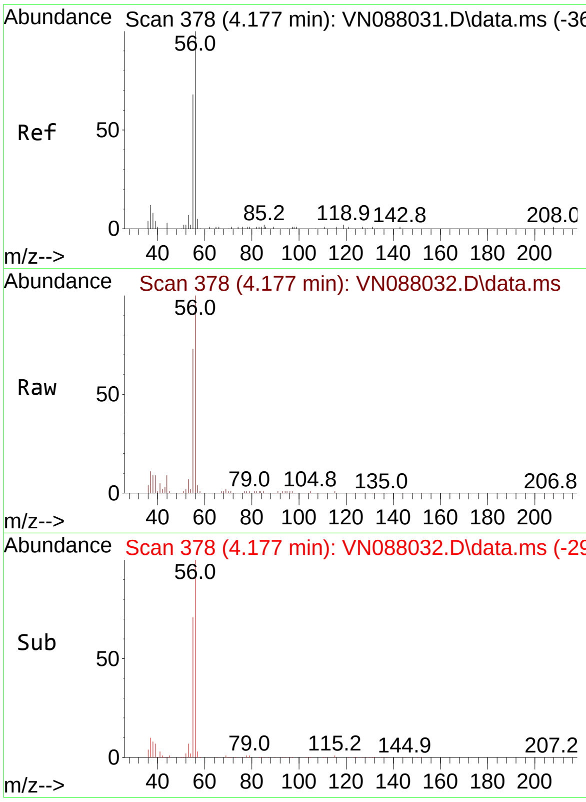
#12
Methyl Acetate
Concen: 48.943 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 43 Resp: 291092

Ion	Ratio	Lower	Upper
43	100		
74	24.1	23.3	34.9



ICAL Form



#13
Acrolein
Concen: 226.650 ug/l
RT: 4.177 min Scan# 37
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 56 Resp: 214422

Ion	Ratio	Lower	Upper
56	100		
55	71.5	0.3	0.5

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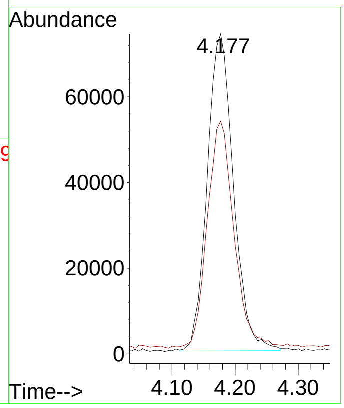
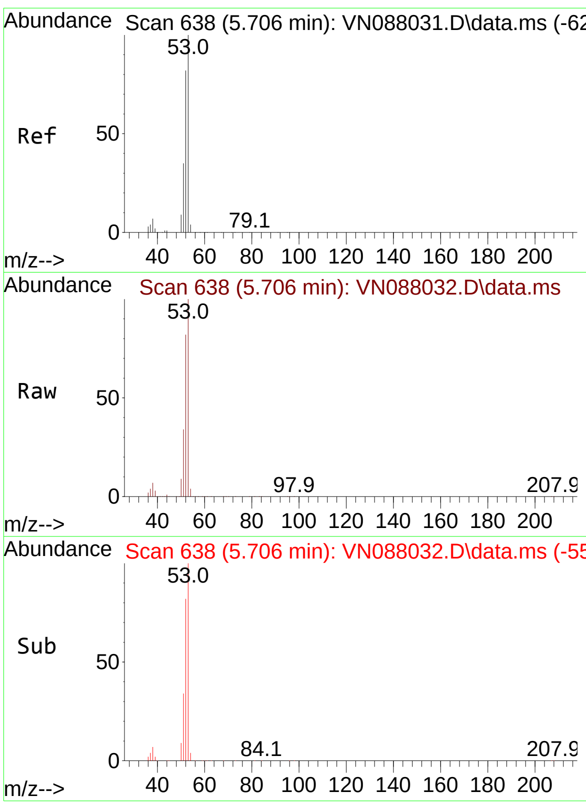
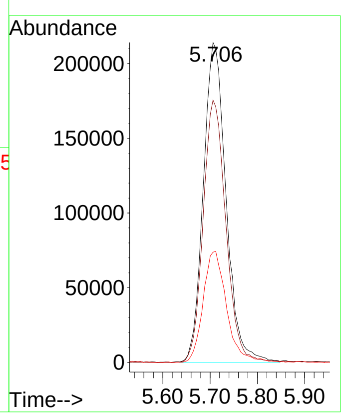




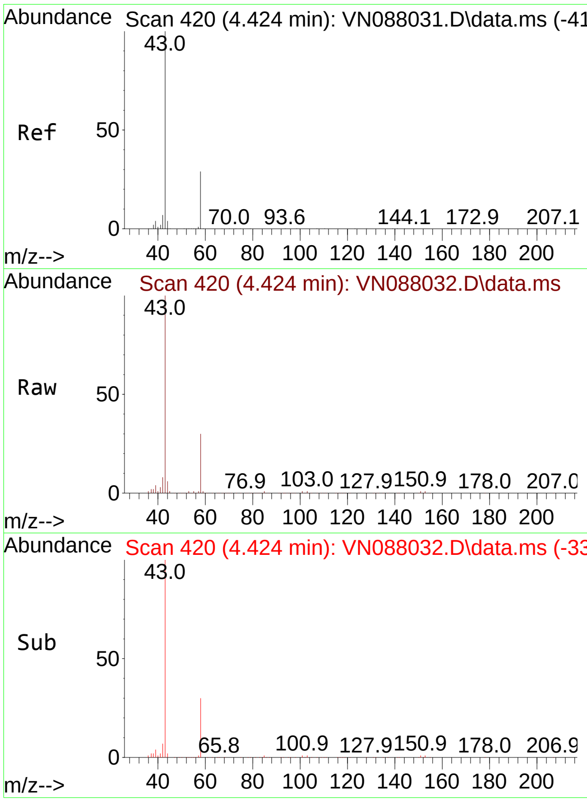
#14
Acrylonitrile
Concen: 243.043 ug/l
RT: 5.706 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 53 Resp: 717034

Ion	Ratio	Lower	Upper
53	100		
52	82.0	41.3	124.1
51	35.4	18.0	54.0



ICAL Form



#15
Acetone
Concen: 238.097 ug/l
RT: 4.424 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 58 Resp: 20635

Ion	Ratio	Lower	Upper
58	100		
43	332.1	282.6	424.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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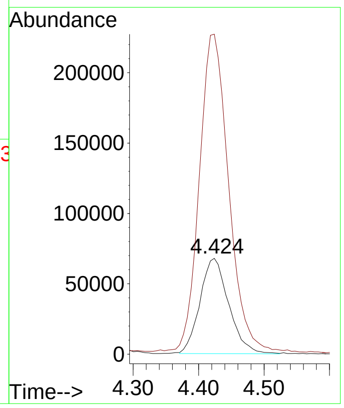
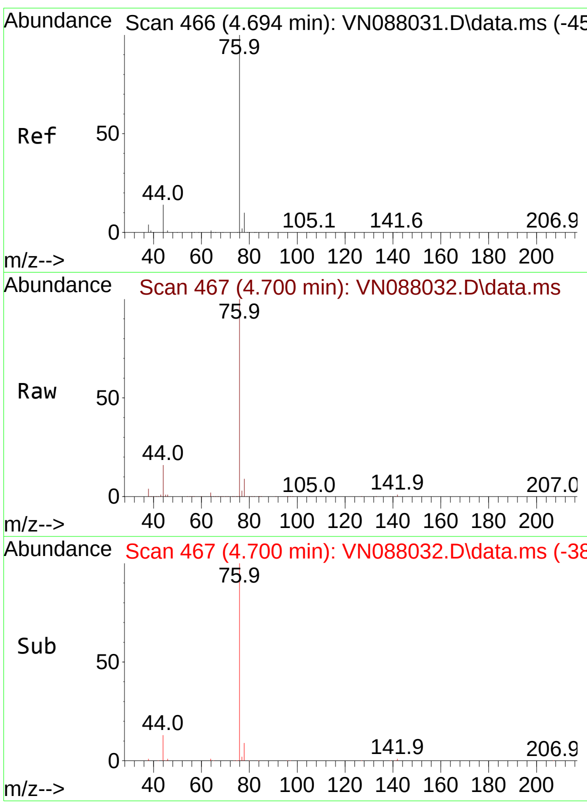
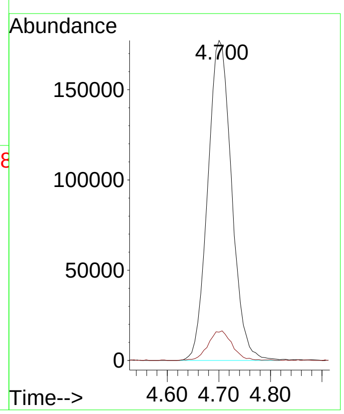




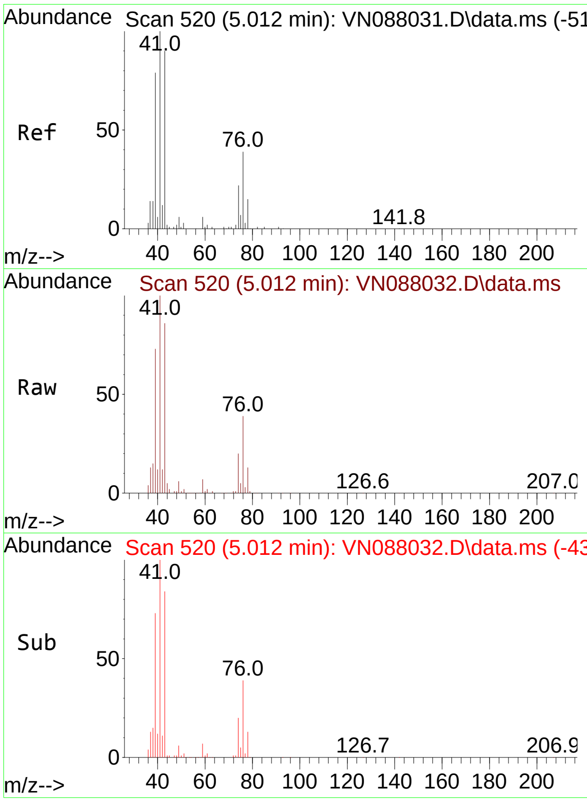
#16
Carbon Disulfide
Concen: 48.499 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 76 Resp: 571725

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.8	11.8



ICAL Form



#17
Allyl chloride
Concen: 47.243 ug/l
RT: 5.012 min   Scan# 5
Delta R.T.   0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 41 Resp: 33523

Ion	Ratio	Lower	Upper
41	100		
39	73.4	36.4	109.2
76	39.2	18.1	54.1

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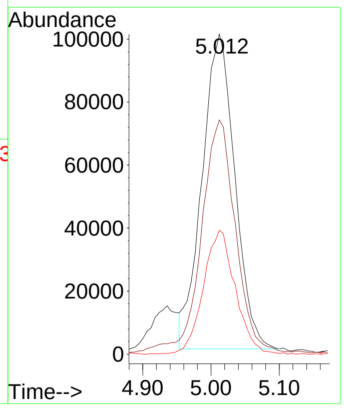
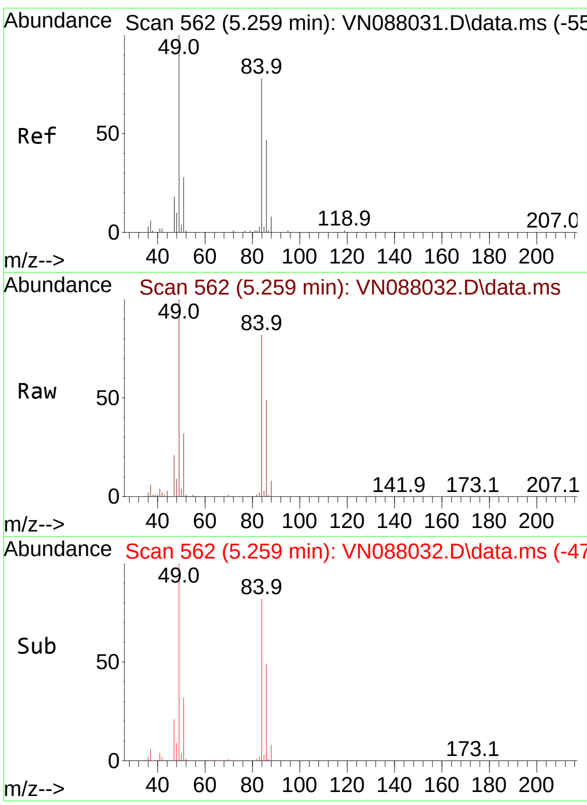
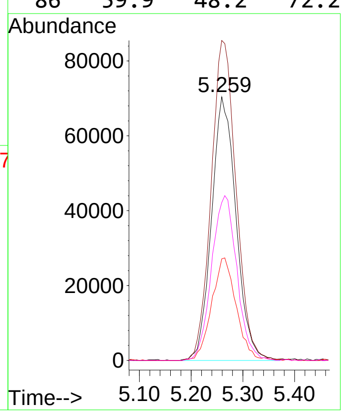




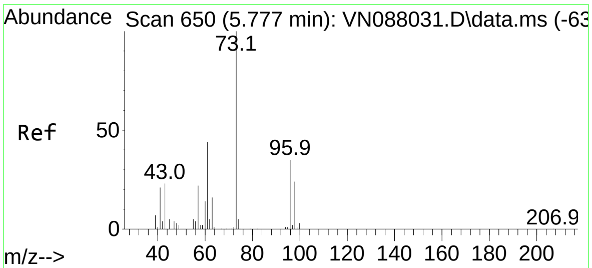
#18
Methylene Chloride
Concen: 48.524 ug/l
RT: 5.259 min   Scan# 562
Delta R.T.   0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

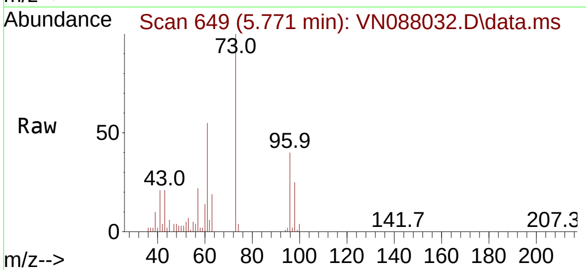
Tgt Ion: 84 Resp: 231926

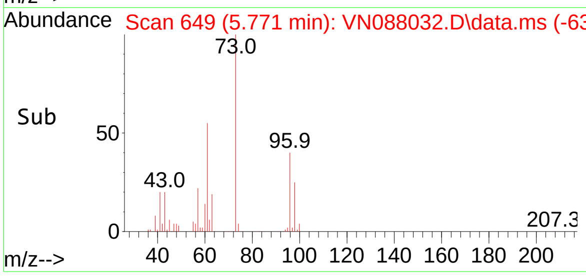
Ion	Ratio	Lower	Upper
84	100		
49	121.4	102.6	153.8
51	38.6	28.6	42.8
86	59.9	48.2	72.2



ICAL Form







#19
trans-1,2-Dichloroethene
Concen: 47.525 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 96 Resp: 20662

Ion	Ratio	Lower	Upper
96	100		
61	139.1	100.6	151.0
98	62.9	54.0	81.0

Manual Integrations APPROVED

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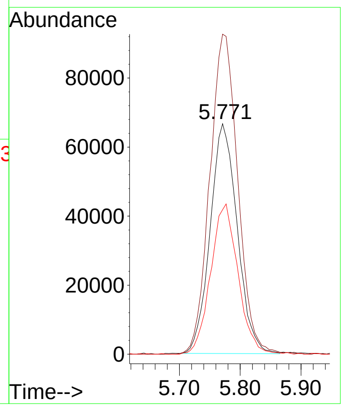
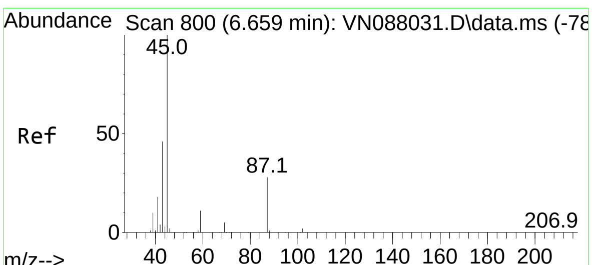
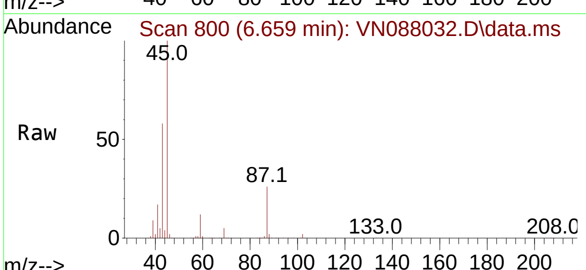
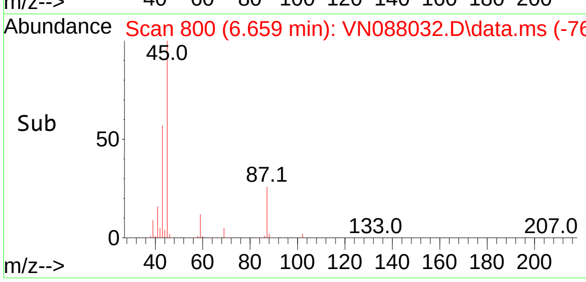
Supervised By :Mahesh Dadoda 10/10/2025





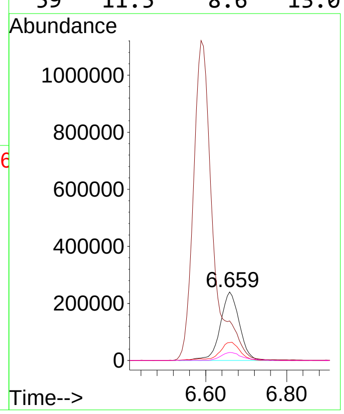




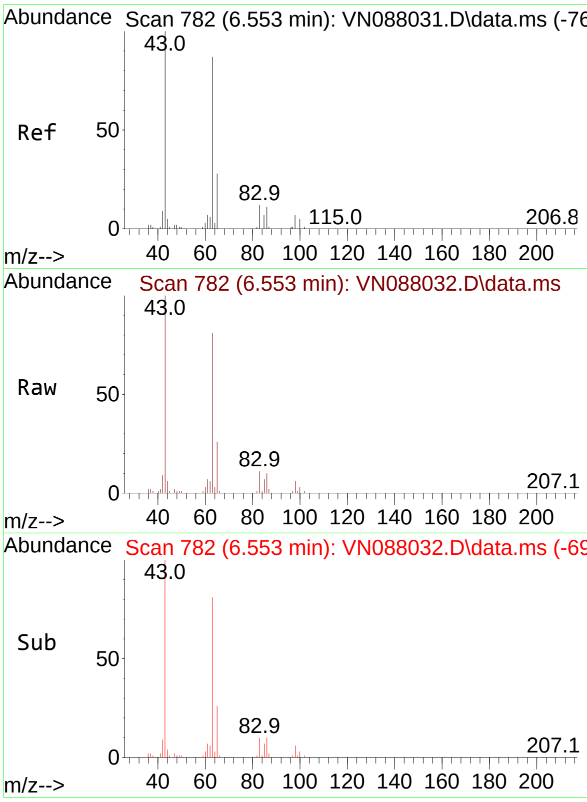
#20
Diisopropyl ether
Concen: 48.559 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 45 Resp: 784464

Ion	Ratio	Lower	Upper
45	100		
43	56.7	46.1	69.1
87	26.3	22.3	33.5
59	11.5	8.6	13.0



ICAL Form



#21
1,1-Dichloroethane
Concen: 47.866 ug/l
RT: 6.553 min   Scan# 7
Delta R.T.   0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

Tgt Ion: 63 Resp: 40255

Ion	Ratio	Lower	Upper
63	100		
98	7.2	4.3	12.8
100	4.3	2.6	8.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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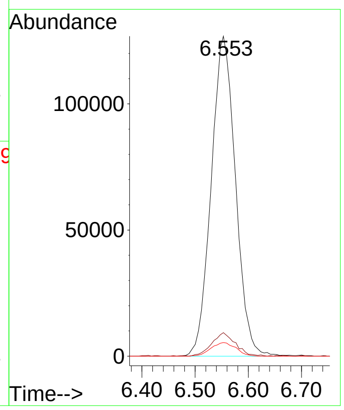
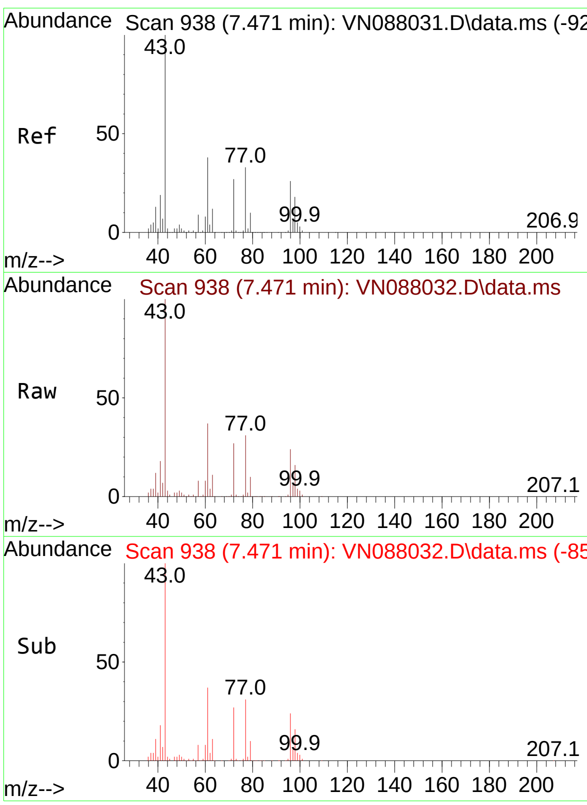
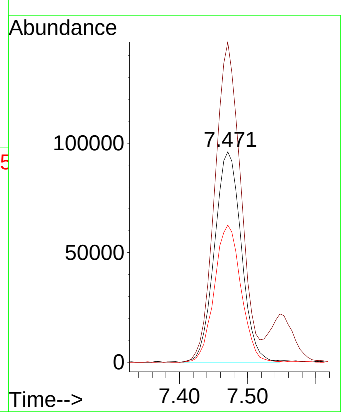




#22
cis-1,2-Dichloroethene
Concen: 48.293 ug/l
RT: 7.471 min   Scan# 938
Delta R.T.   0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

Tgt Ion: 96 Resp: 262837

Ion	Ratio	Lower	Upper
96	100		
61	146.7	117.0	175.6
98	64.8	52.6	79.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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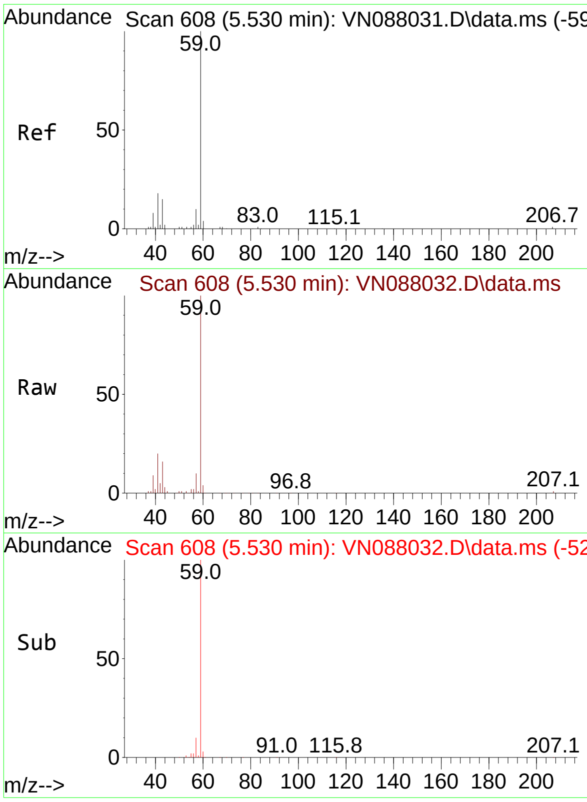
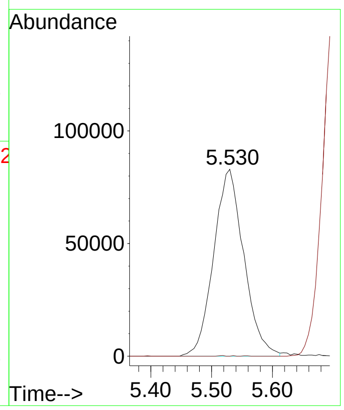
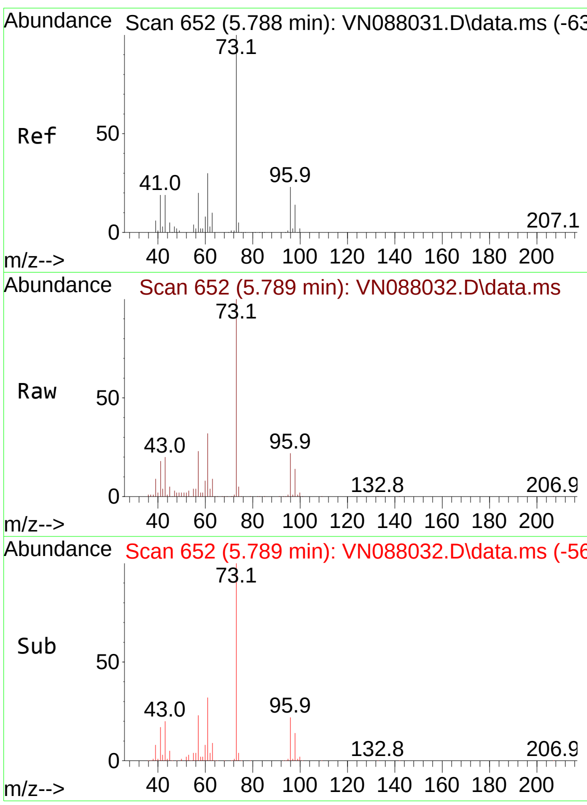


#23
tert-Butyl Alcohol
Concen: 242.230 ug/l
RT: 5.530 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 59 Resp: 28661

Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.0	0.0

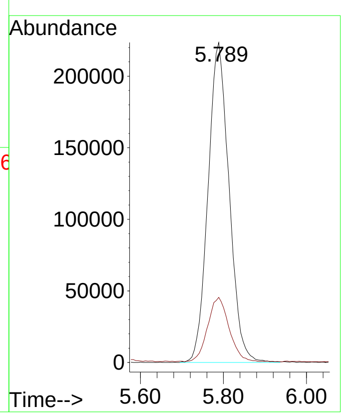




#24
Methyl tert-Butyl Ether
Concen: 48.537 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 73 Resp: 787846

Ion	Ratio	Lower	Upper
73	100		
43	20.2	17.0	25.4



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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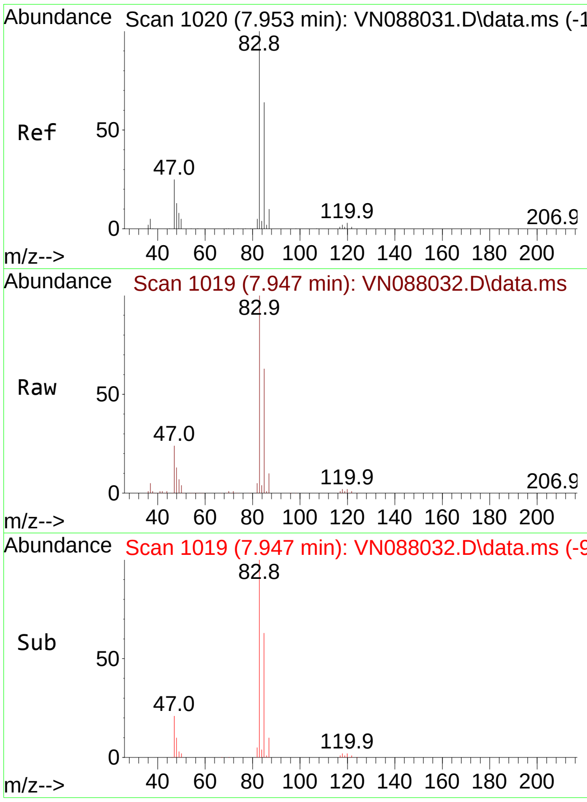
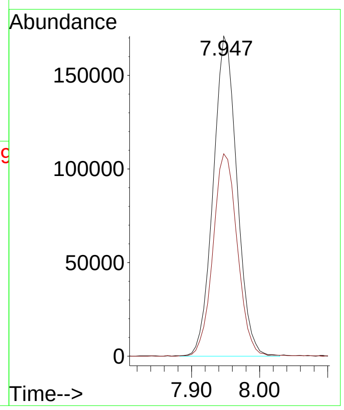
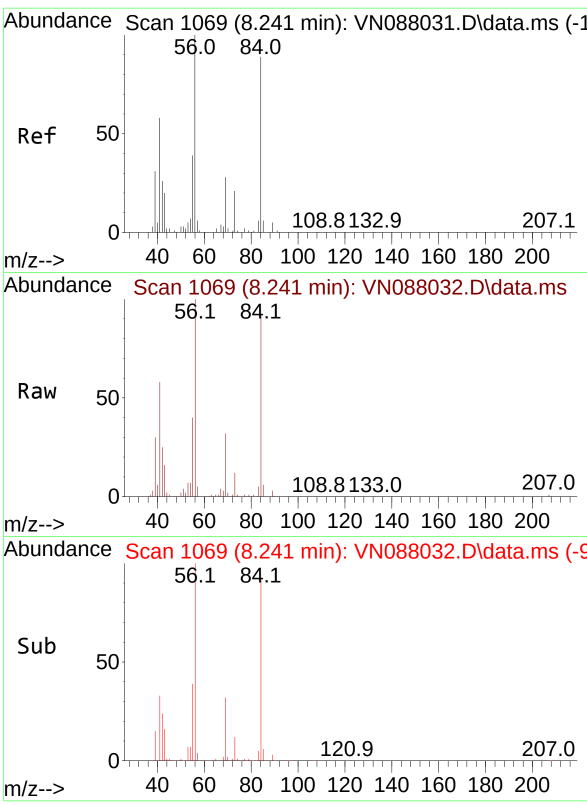


#25
Chloroform
Concen: 47.959 ug/l
RT: 7.947 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 83 Resp: 41621

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.9	76.3

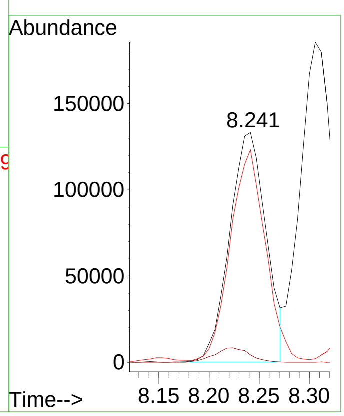




#26
Cyclohexane
Concen: 48.343 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 56 Resp: 336848

Ion	Ratio	Lower	Upper
56	100		
89	6.1	8.6	12.8#
84	90.3	69.6	104.4



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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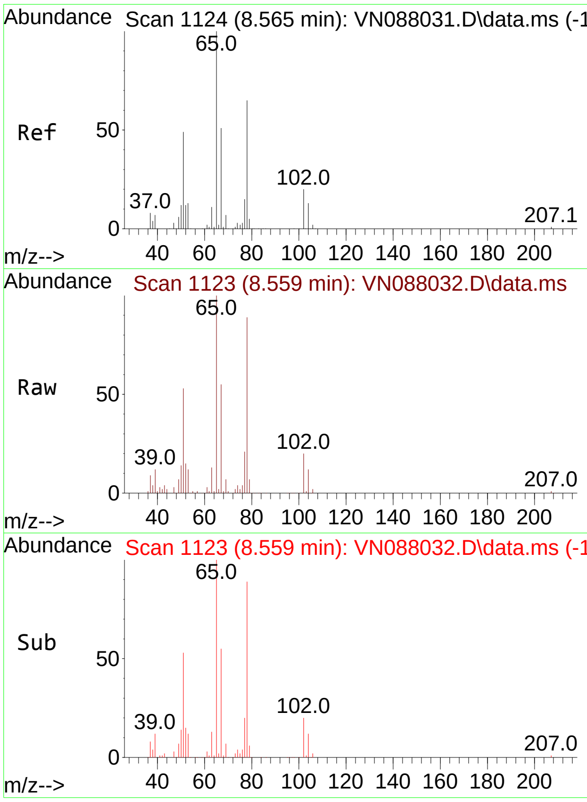
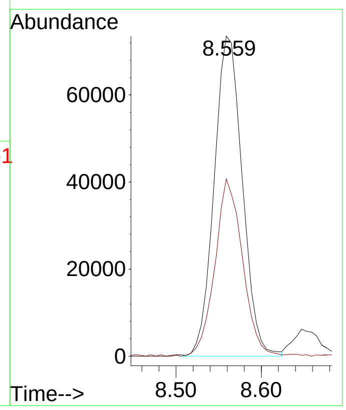
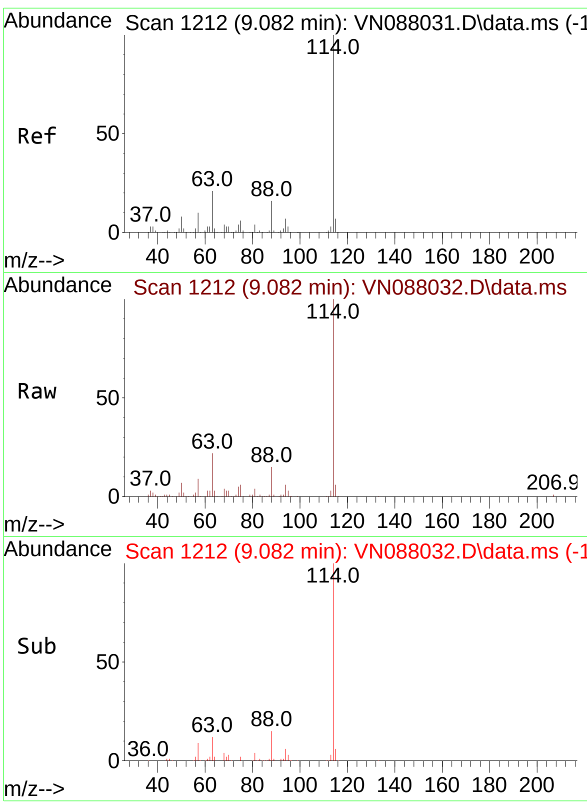


#27
1,2-Dichloroethane-d4
Concen: 30.313 ug/l
RT: 8.559 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 65 Resp: 16882

Ion	Ratio	Lower	Upper
65	100		
67	53.4	41.9	62.9

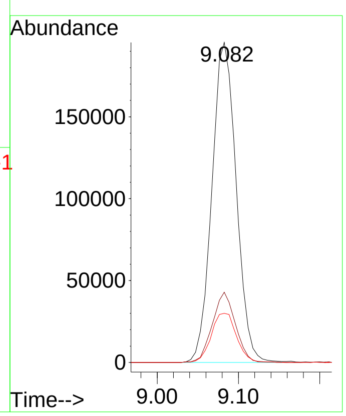




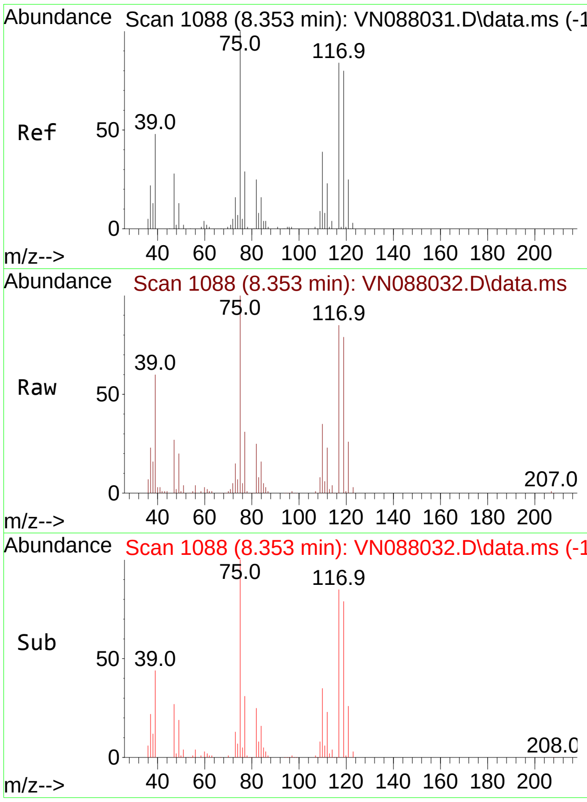
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:114 Resp: 407063

Ion	Ratio	Lower	Upper
114	100		
63	20.8	16.6	25.0
88	15.9	12.6	18.8



ICAL Form



#29
1,1-Dichloropropene
Concen: 48.002 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 75 Resp: 280084

Ion	Ratio	Lower	Upper
75	100		
110	34.8	0.0	72.2
77	30.5	0.0	60.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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Reviewed By :John Carlone 10/09/2025
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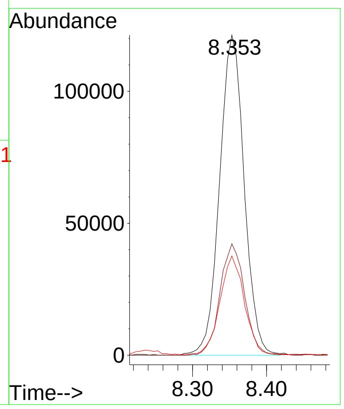
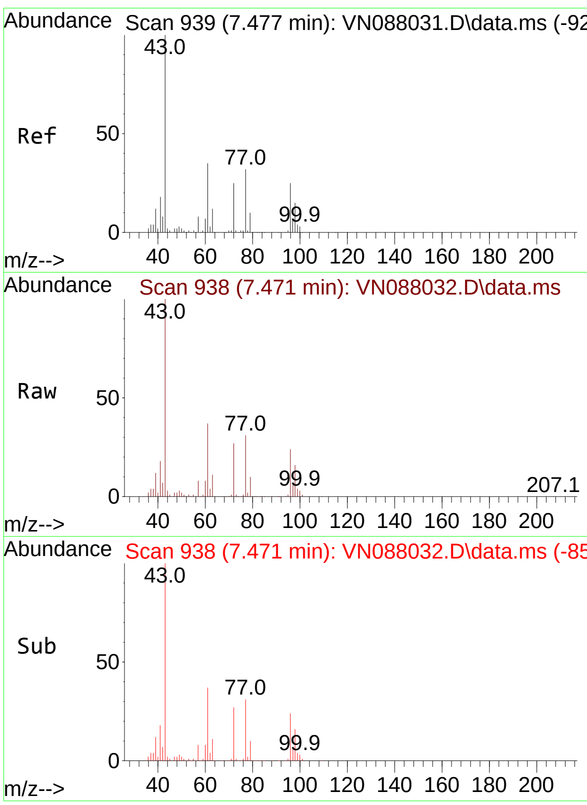
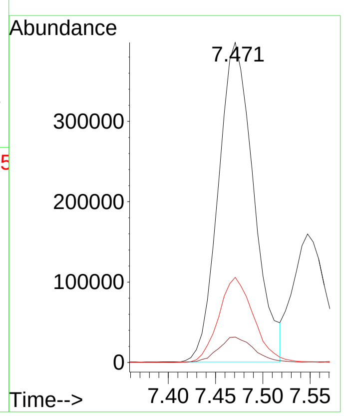




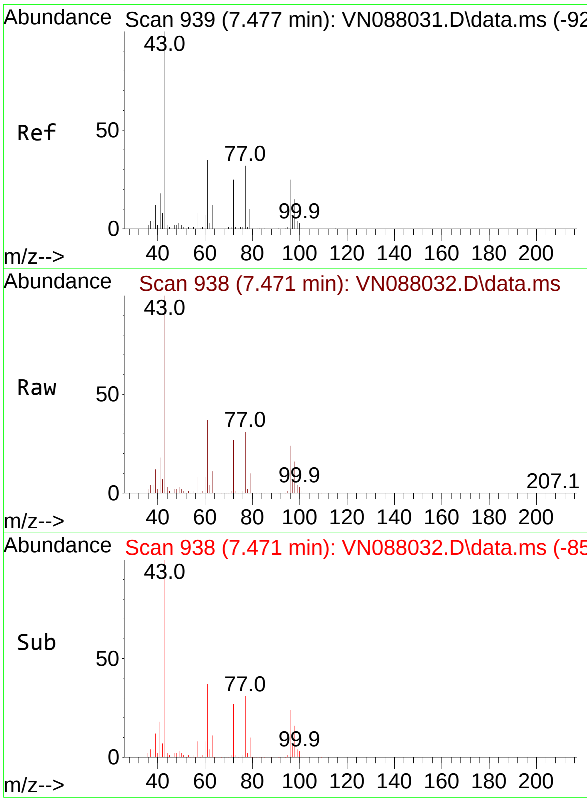
#30
2-Butanone
Concen: 240.318 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 43 Resp: 1034181

Ion	Ratio	Lower	Upper
43	100		
57	7.9	6.5	9.7
72	26.4	21.4	32.2



ICAL Form



#31
2,2-Dichloropropane
Concen: 47.547 ug/l
RT: 7.471 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

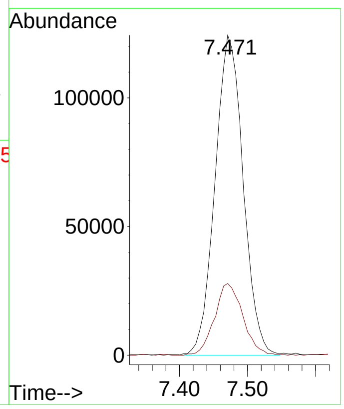
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

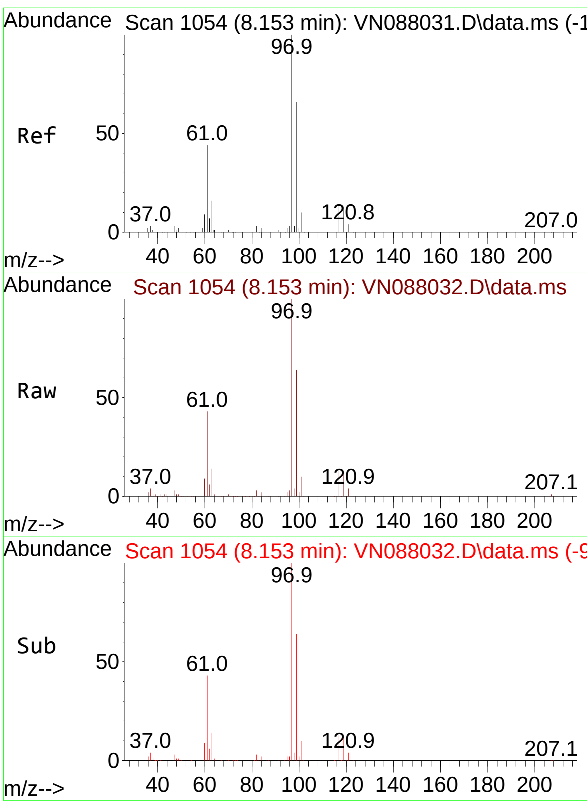
Tgt Ion: 77 Resp: 357940

Ion	Ratio	Lower	Upper
77	100		
97	22.4	17.8	26.8

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

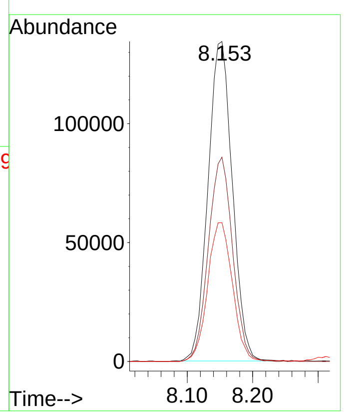




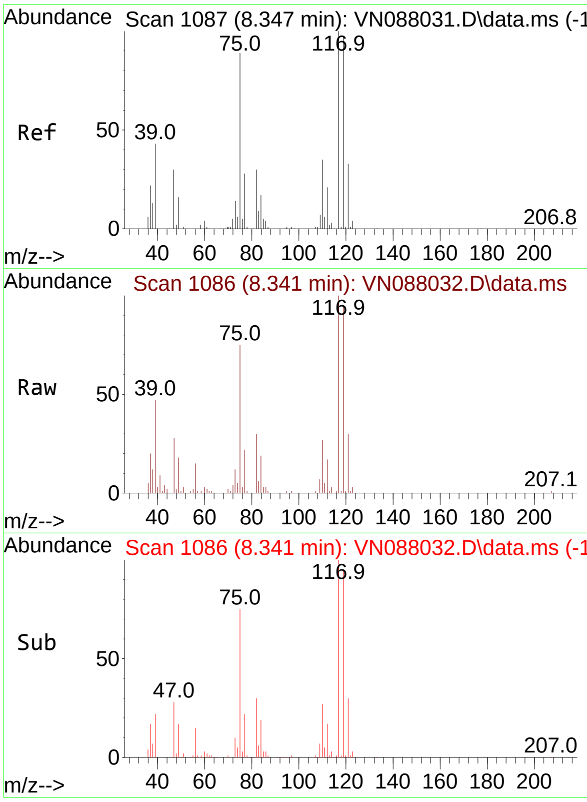
#32
1,1,1-Trichloroethane
Concen: 47.733 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 97 Resp: 348014

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.4	77.2
61	44.0	34.7	52.1



ICAL Form



#33
Carbon Tetrachloride
Concen: 48.335 ug/l
RT: 8.341 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:117 Resp: 29517(

Ion	Ratio	Lower	Upper
117	100		
119	95.0	77.9	116.9
121	30.2	26.4	39.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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Reviewed By :John Carlone 10/09/2025
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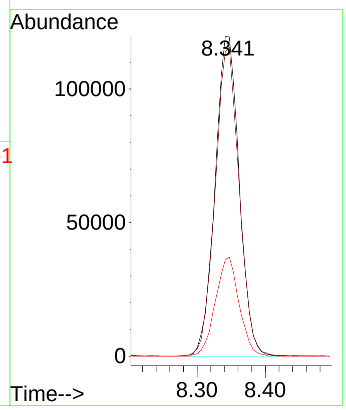
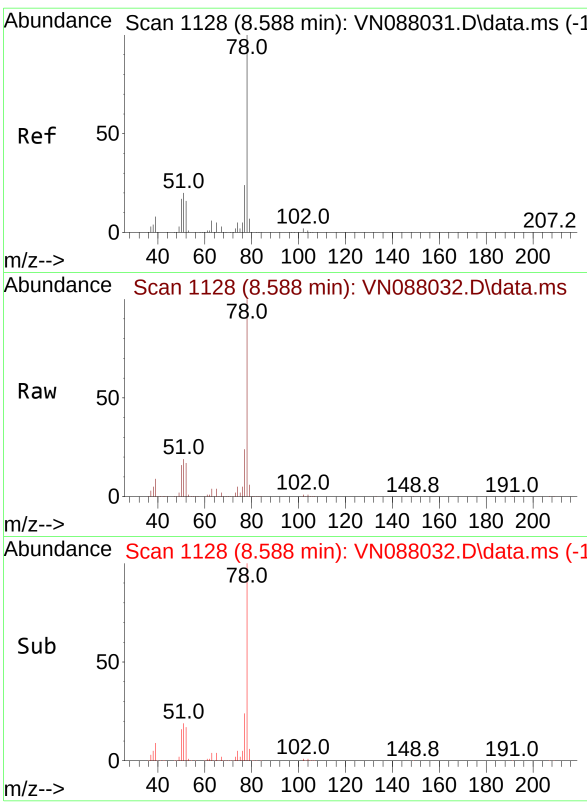
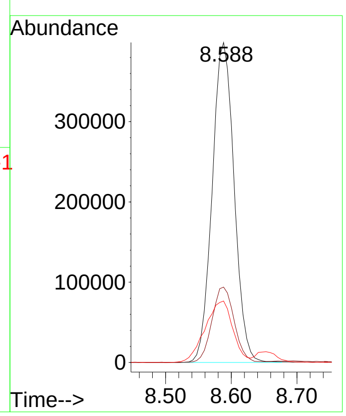




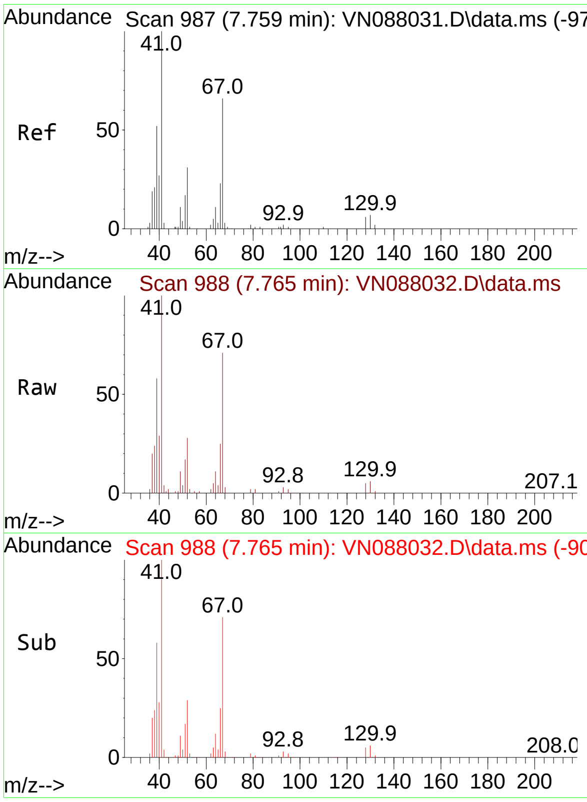
#34
Benzene
Concen: 47.877 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 78 Resp: 926605

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.9	28.3
51	18.9	15.6	23.4



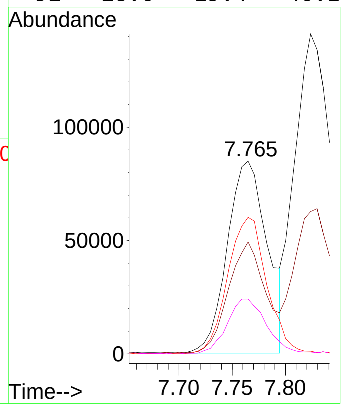
ICAL Form



#35
Methacrylonitrile
Concen: 48.945 ug/l
RT: 7.765 min Scan# 98
Delta R.T. 0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 41 Resp: 221496

Ion	Ratio	Lower	Upper
41	100		
39	57.5	26.1	78.3
67	70.8	33.1	99.2
52	28.6	15.4	46.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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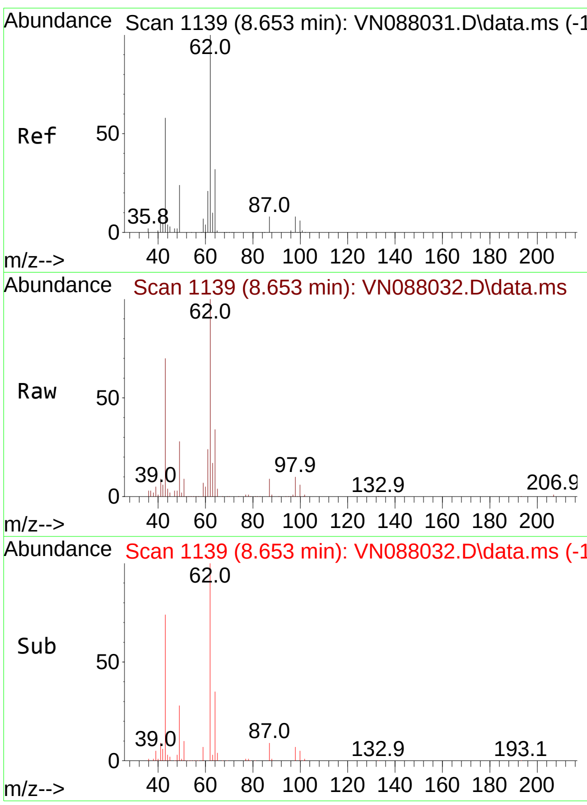
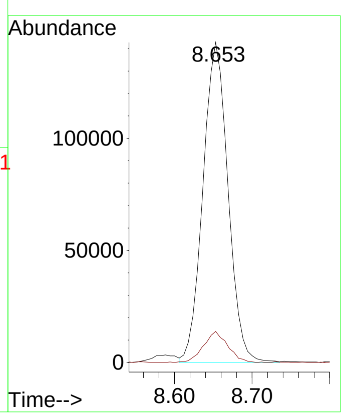
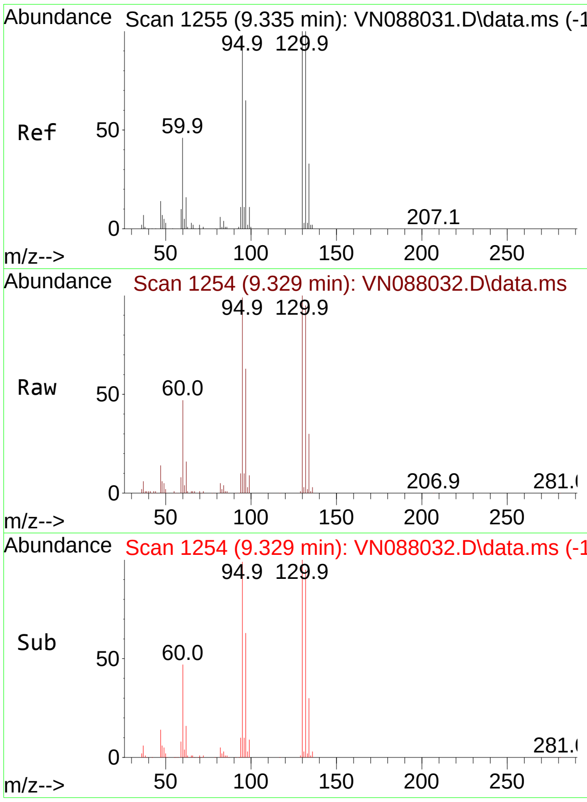


#36
1,2-Dichloroethane
Concen: 47.761 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 62 Resp: 320898

Ion	Ratio	Lower	Upper
62	100		
98	9.4	7.8	11.6





#37
Trichloroethene
Concen: 47.593 ug/l
RT: 9.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:130 Resp: 21822

Ion	Ratio	Lower	Upper
130	100		
95	98.6	78.7	118.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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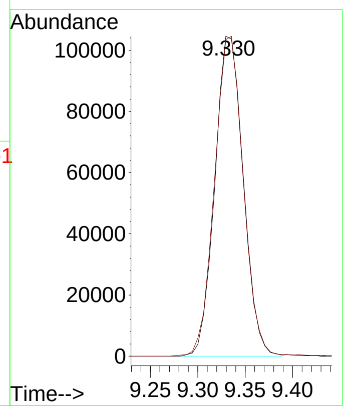
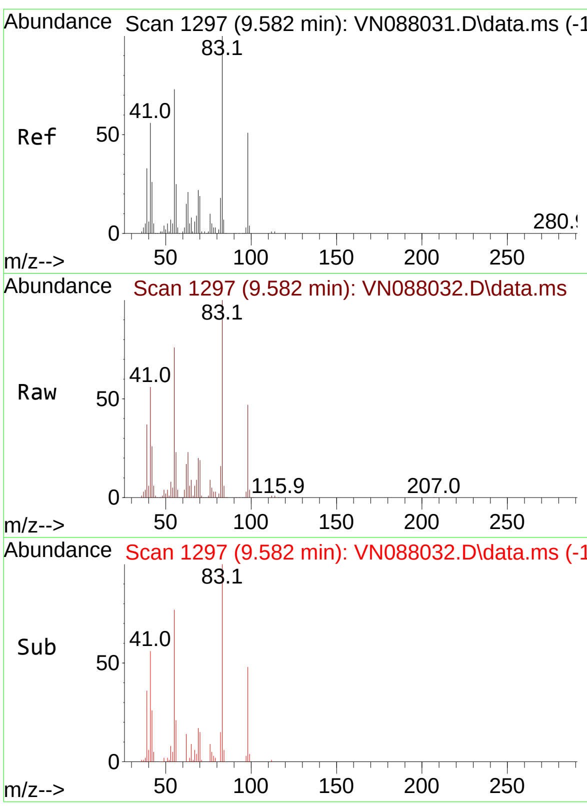
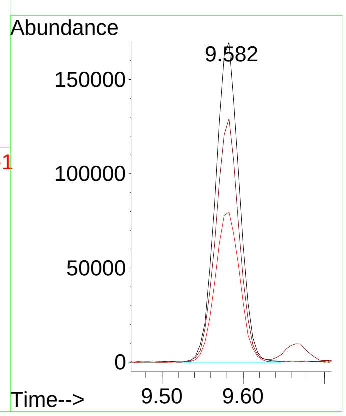




#38
Methylcyclohexane
Concen: 48.271 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 83 Resp: 347822

Ion	Ratio	Lower	Upper
83	100		
55	74.0	37.3	111.9
98	48.9	25.4	76.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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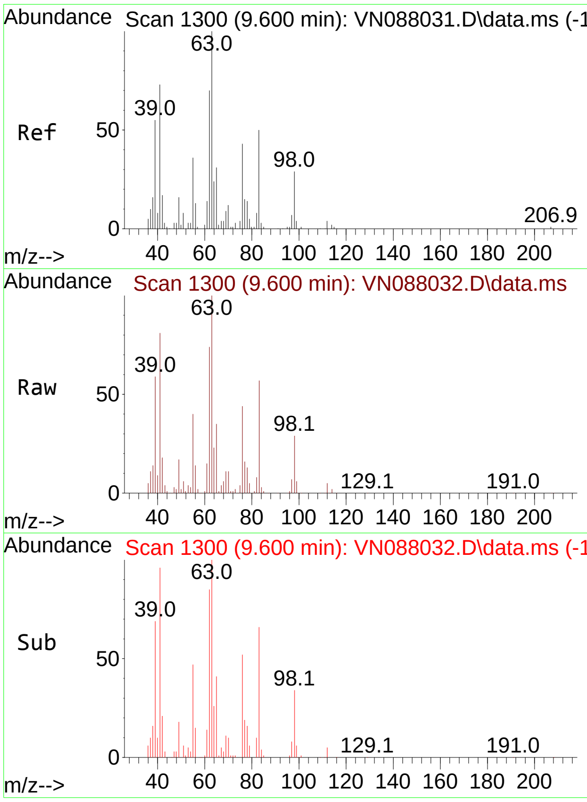
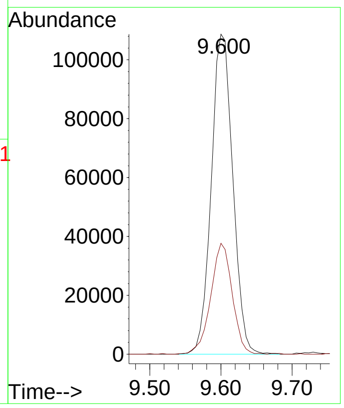
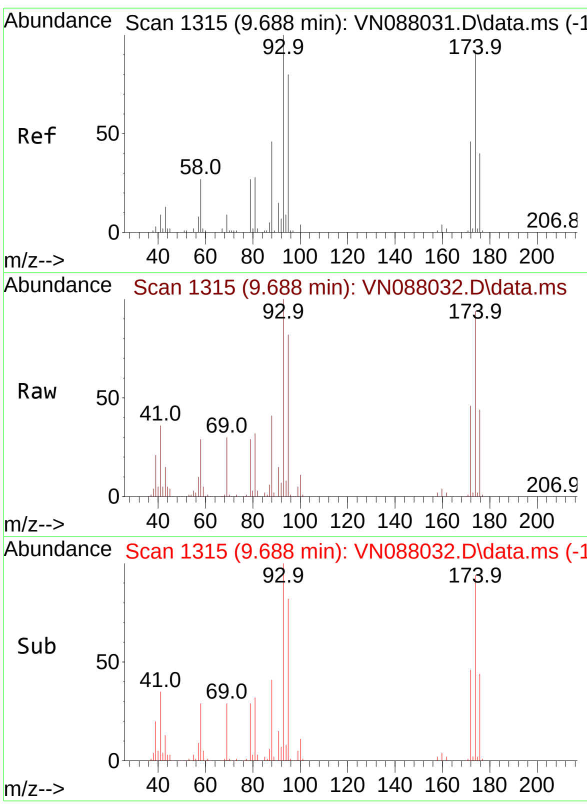


#39
1,2-Dichloropropane
Concen: 47.147 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 63 Resp: 22879

Ion	Ratio	Lower	Upper
63	100		
65	34.5	25.0	37.6

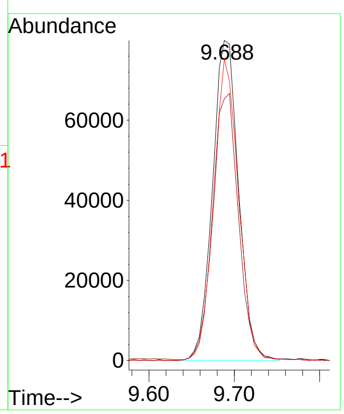


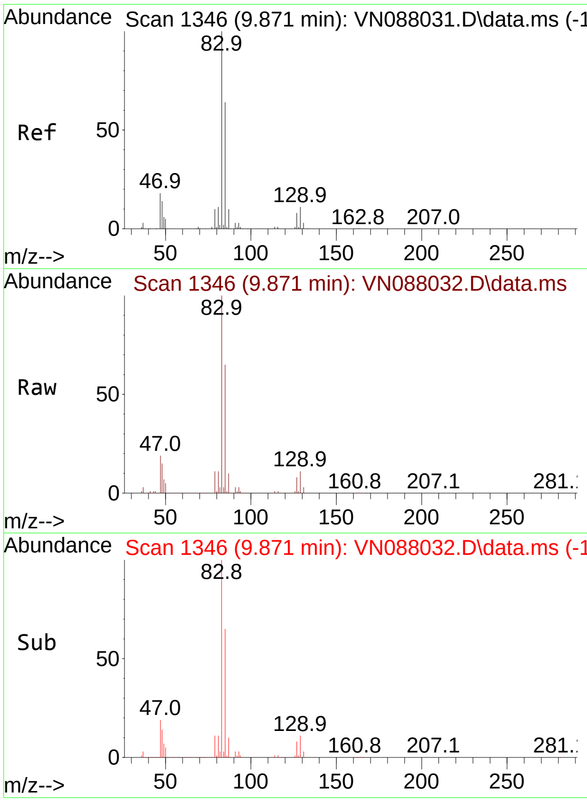


#40
Dibromomethane
Concen: 48.148 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 93 Resp: 170079

Ion	Ratio	Lower	Upper
93	100		
95	81.7	0.0	158.6
174	90.0	0.0	180.8





#41
Bromodichloromethane
Concen: 47.241 ug/l
RT: 9.871 min   Scan# 1
Delta R.T.   0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 83 Resp: 34082

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.0	76.4
127	8.2	6.1	9.1

Manual Integrations
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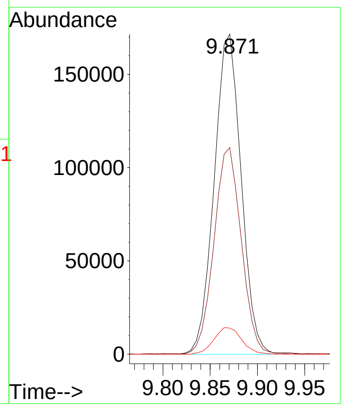
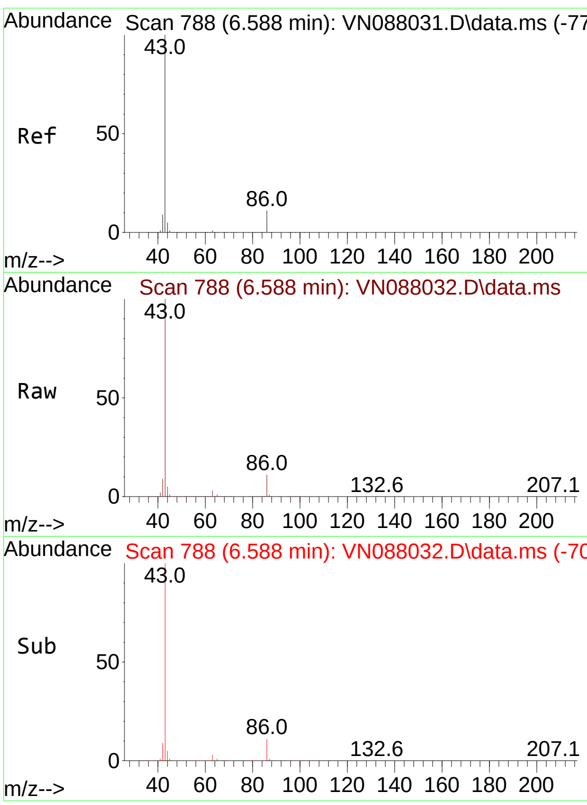
Supervised By :Mahesh Dadoda   10/10/2025

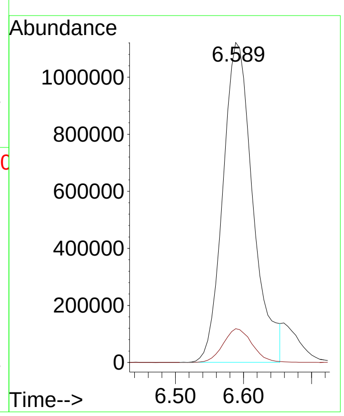


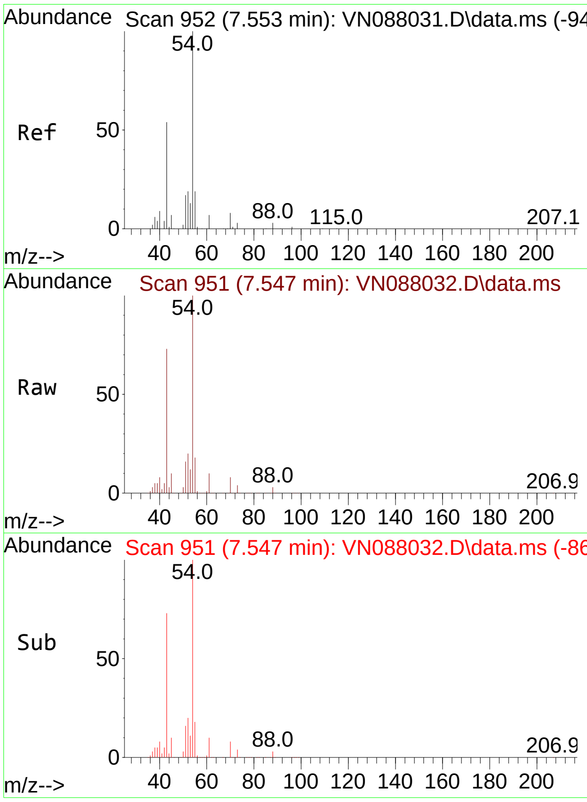


#42
Vinyl Acetate
Concen: 235.274 ug/l
RT: 6.588 min   Scan# 788
Delta R.T.   0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

Tgt Ion: 43 Resp: 3449178

Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.4	12.6





#43
Ethyl Acetate
Concen: 46.753 ug/l
RT: 7.547 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 43 Resp: 38675

Ion	Ratio	Lower	Upper
43	100		
45	15.0	10.2	15.4

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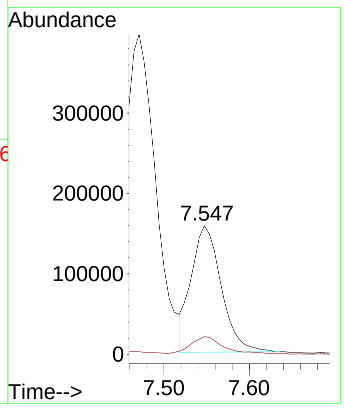
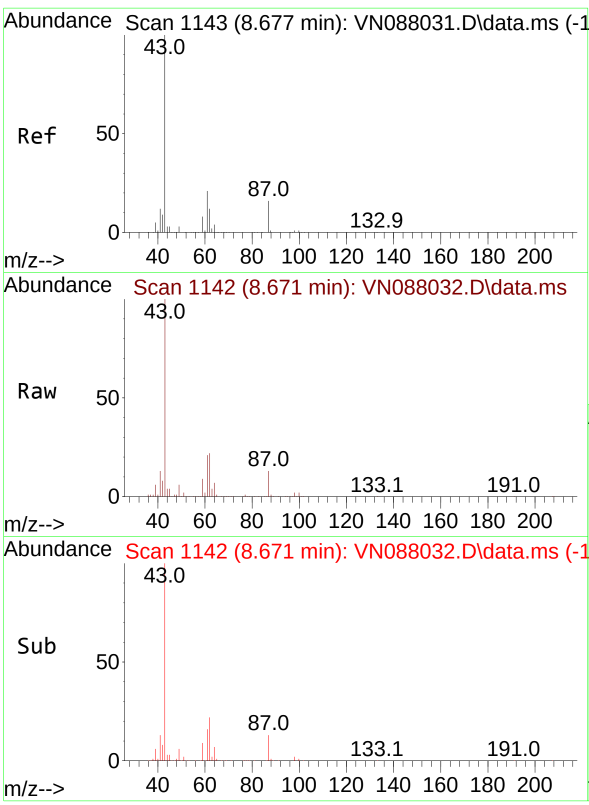
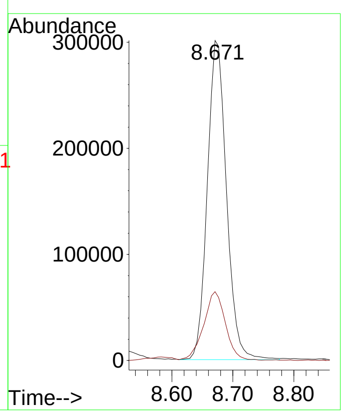


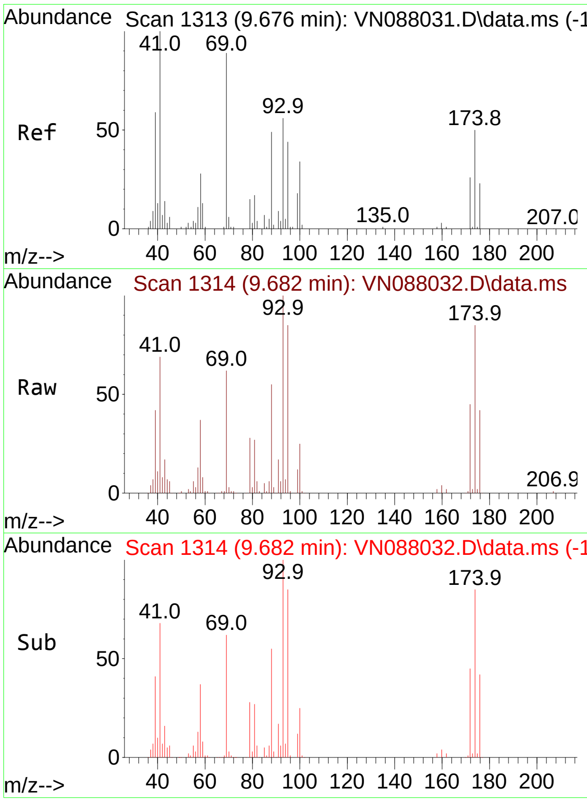


#44
Isopropyl Acetate
Concen: 48.713 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 43 Resp: 658172

Ion	Ratio	Lower	Upper
43	100		
61	24.6	18.7	28.1





#45
1,4-Dioxane
Concen: 982.026 ug/l
RT: 9.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 88 Resp: 88240

Ion	Ratio	Lower	Upper
88	100		
43	26.0	18.6	27.8
58	72.2	57.4	86.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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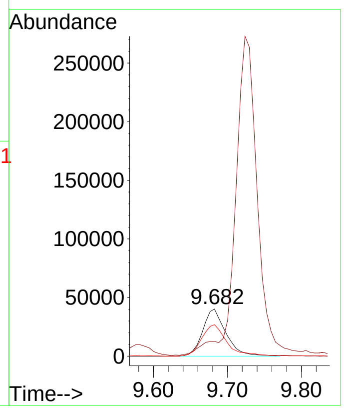
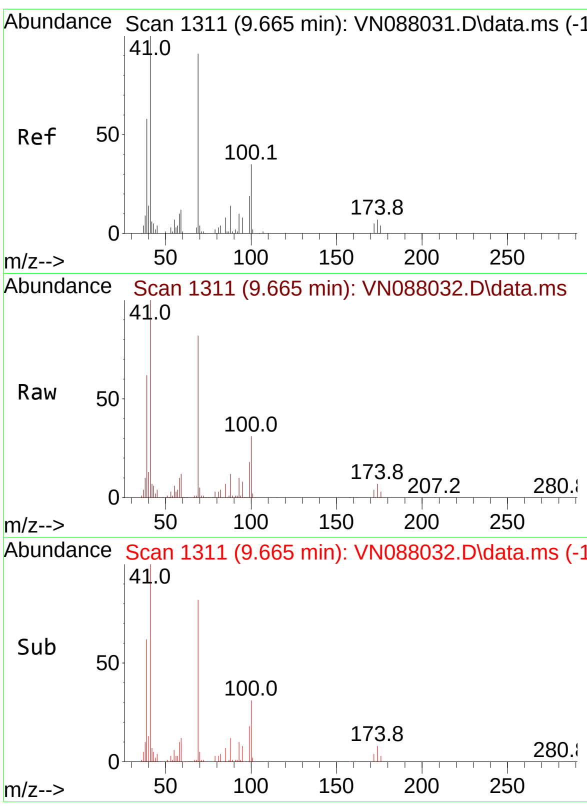
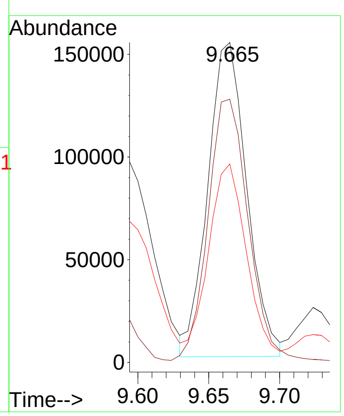


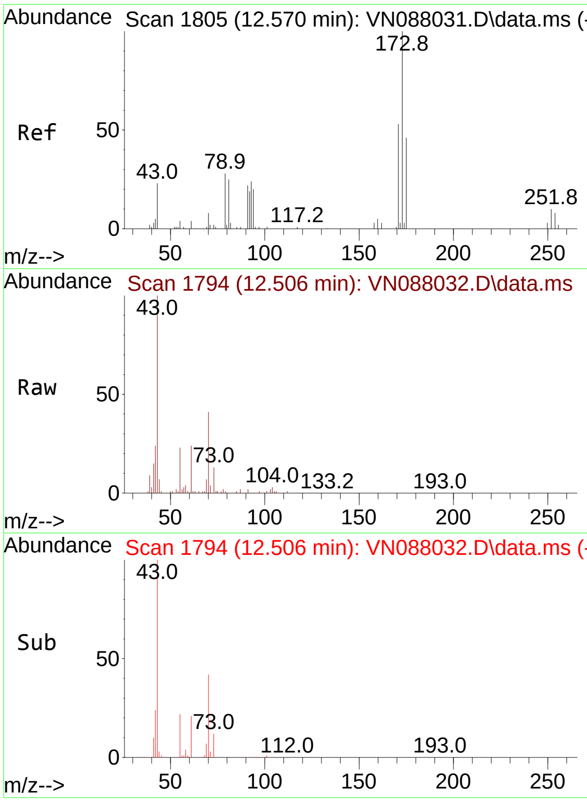


#46
Methyl methacrylate
Concen: 49.080 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 41 Resp: 292033

Ion	Ratio	Lower	Upper
41	100		
69	85.5	44.9	134.7
39	62.5	30.3	90.8





#47
n-amyl Acetate
Concen: 50.755 ug/l m
RT: 12.506 min Scan# 1
Delta R.T. -0.065 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 43 Resp: 30131
Ion Ratio Lower Upper
43 100
55 14.3 0.6 0.8

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
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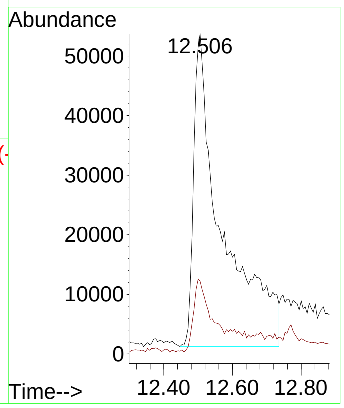
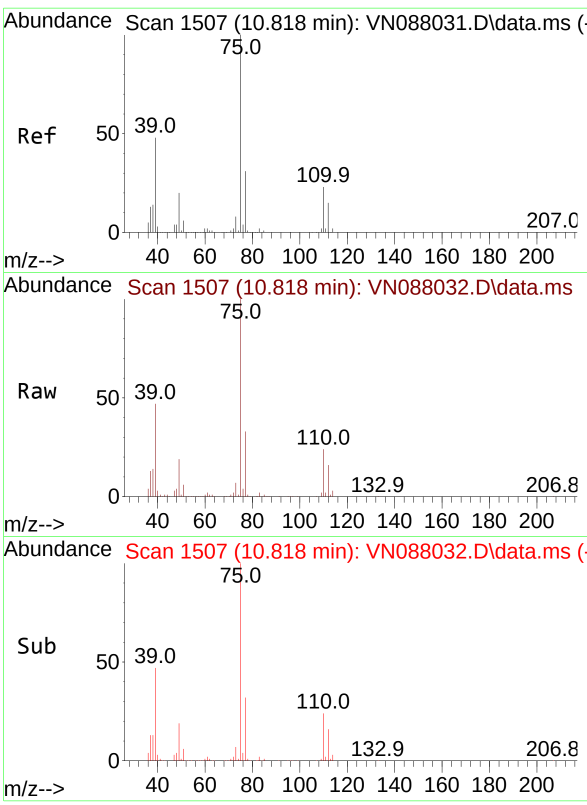
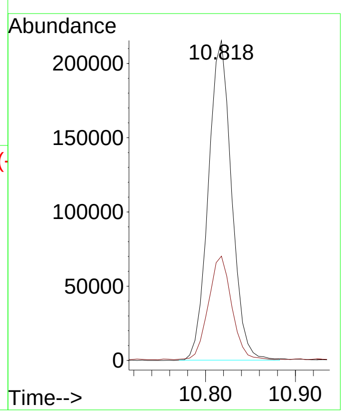




#48
t-1,3-Dichloropropene
Concen: 48.302 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 75 Resp: 387494
Ion Ratio Lower Upper
75 100
77 32.2 24.5 36.7



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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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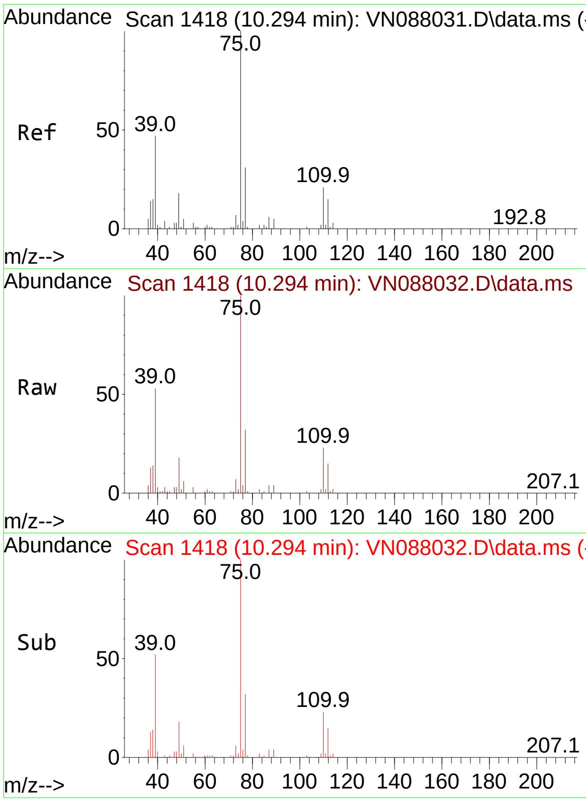
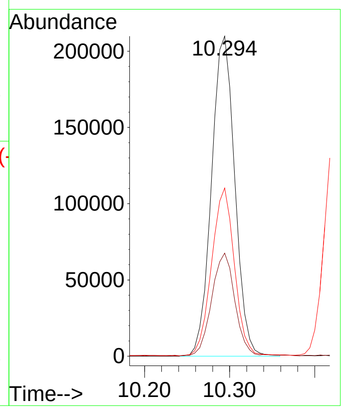
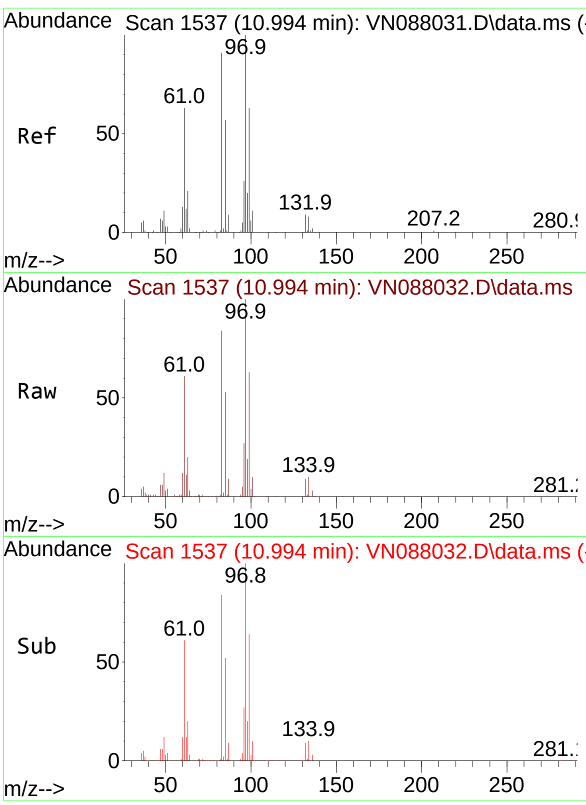


#49
cis-1,3-Dichloropropene
Concen: 47.774 ug/l
RT: 10.294 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 75 Resp: 39978

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.0	37.4
39	52.4	37.4	56.0

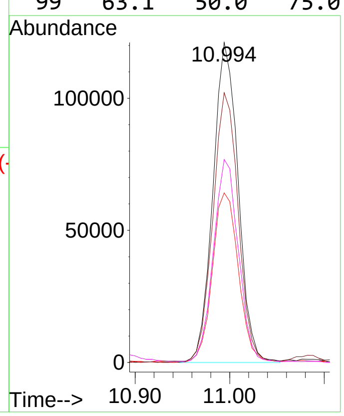




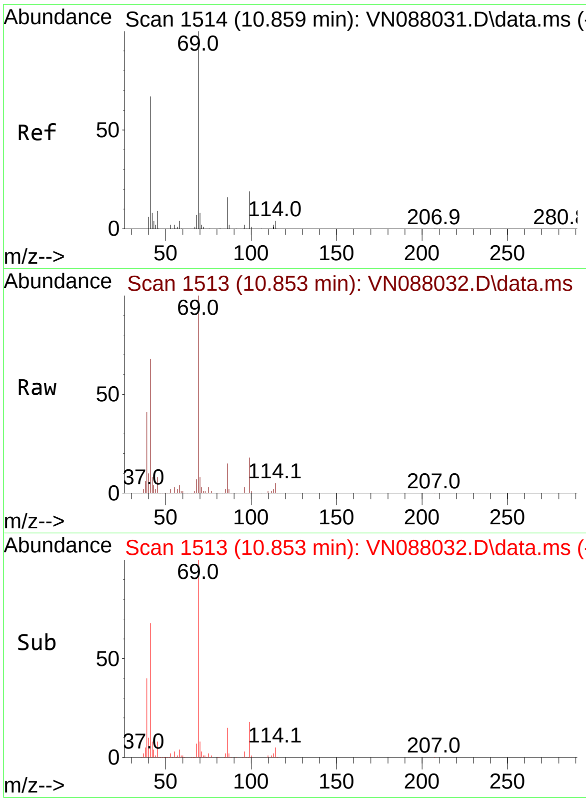
#50
1,1,2-Trichloroethane
Concen: 48.009 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 97 Resp: 224582

Ion	Ratio	Lower	Upper
97	100		
83	84.0	72.5	108.7
85	52.8	45.5	68.3
99	63.1	50.0	75.0



ICAL Form



#51
Ethyl methacrylate
Concen: 49.995 ug/l
RT: 10.853 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 69 Resp: 39580

Ion	Ratio	Lower	Upper
69	100		
41	67.3	33.3	99.8
39	40.0	20.3	61.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

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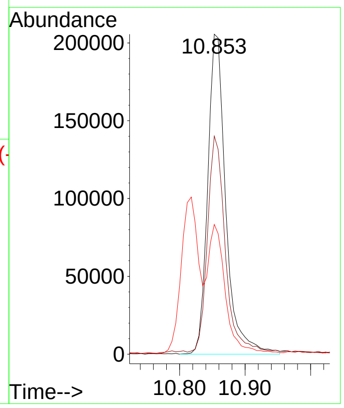
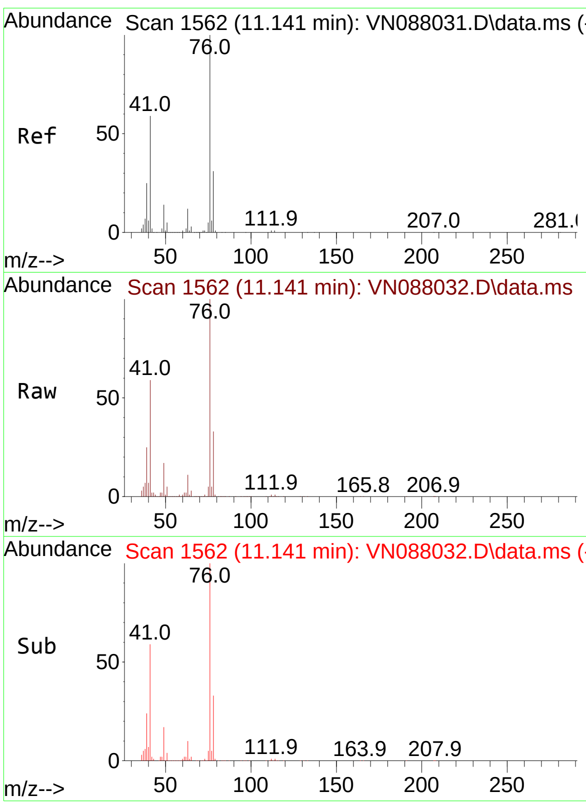
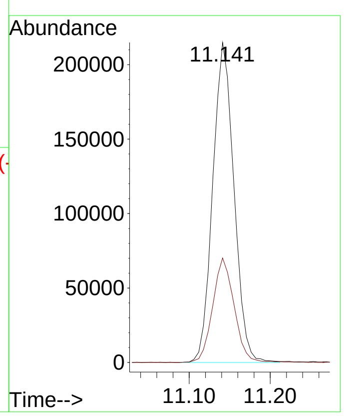


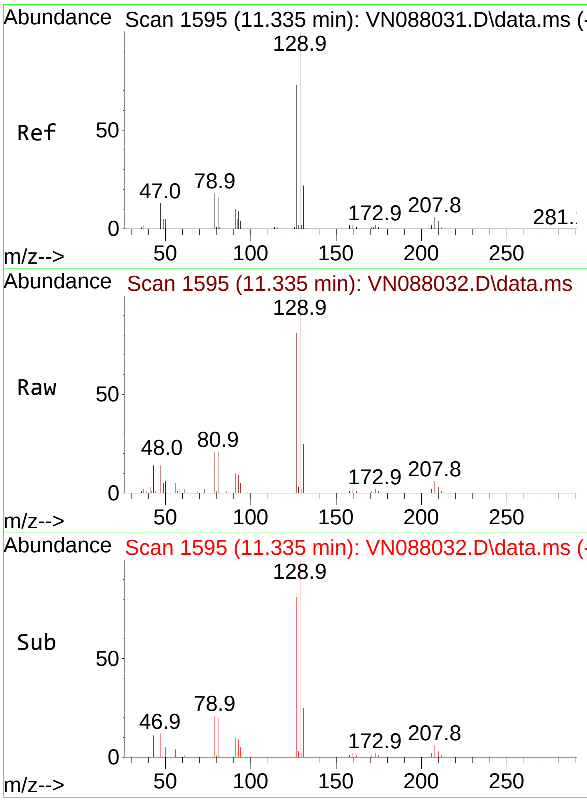


#52
1,3-Dichloropropane
Concen: 47.897 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 76 Resp: 390914

Ion	Ratio	Lower	Upper
76	100		
78	33.0	0.0	65.0





#53
Dibromochloromethane
Concen: 48.222 ug/l
RT: 11.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:129 Resp: 26968

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

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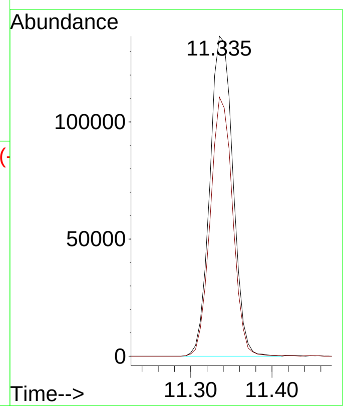
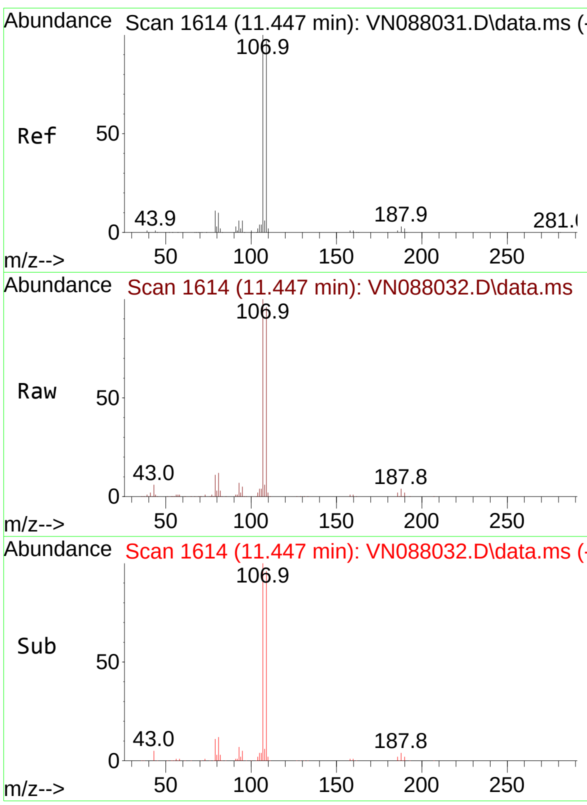
Supervised By :Mahesh Dadoda 10/10/2025

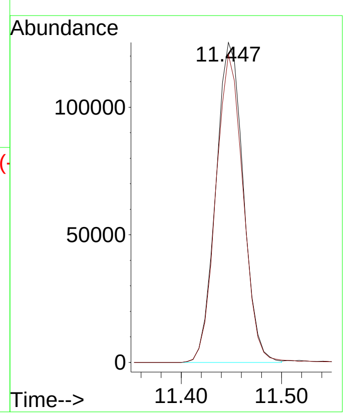


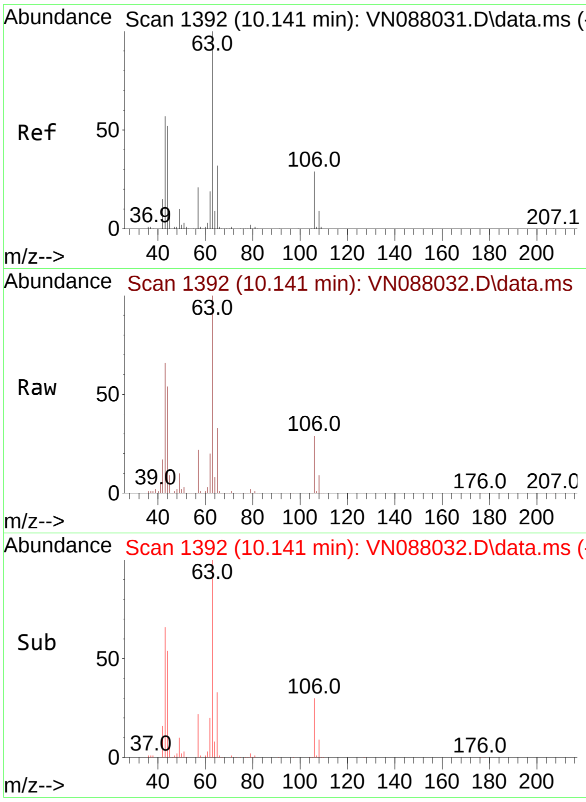


#54
1,2-Dibromoethane
Concen: 47.697 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:107 Resp: 238540

Ion	Ratio	Lower	Upper
107	100		
109	95.4	75.5	113.3





#55
2-Chloroethyl vinyl ether
Concen: 248.447 ug/l
RT: 10.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 63 Resp: 106168

Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.7	38.5
106	28.4	22.6	34.0

Manual Integrations
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Reviewed By :John Carlone 10/09/2025
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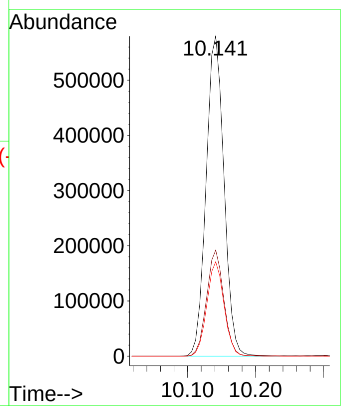
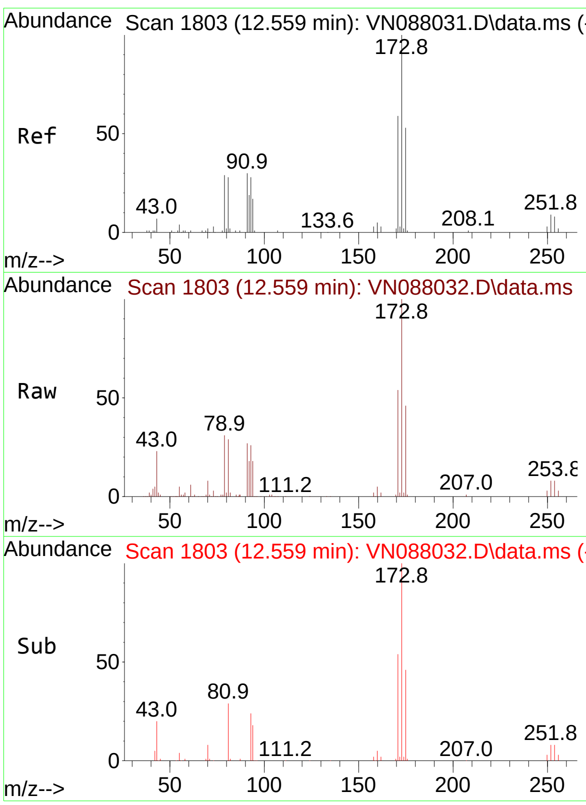
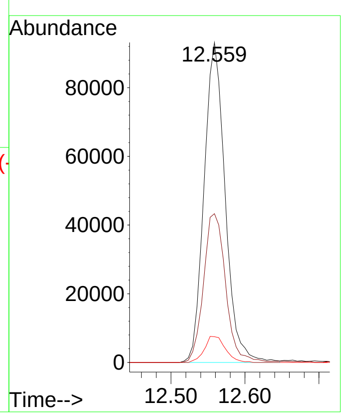




#56
Bromoform
Concen: 48.948 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:173 Resp: 185069

Ion	Ratio	Lower	Upper
173	100		
175	48.5	39.6	59.4
254	8.1	6.6	10.0



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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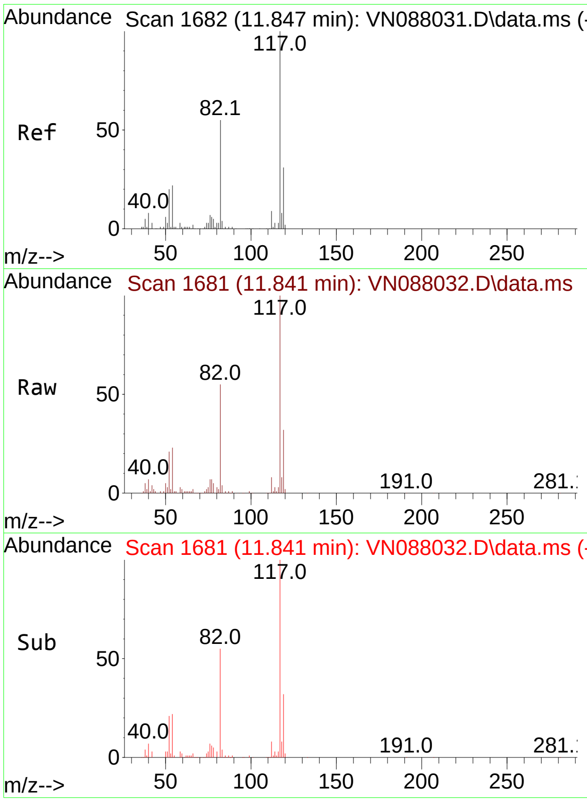
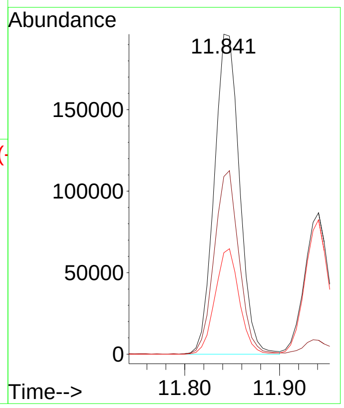
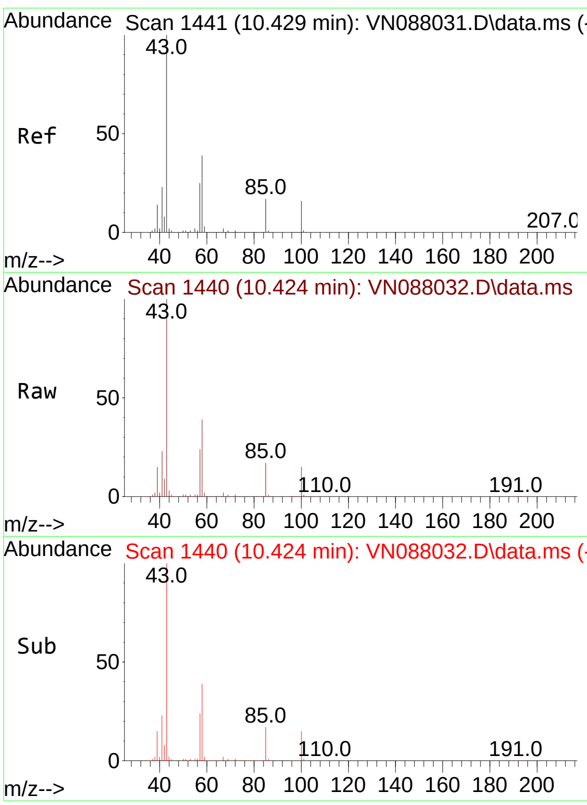


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:117 Resp: 36386

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.2	67.8
119	31.6	25.9	38.9

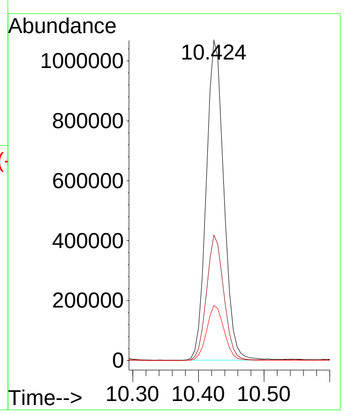




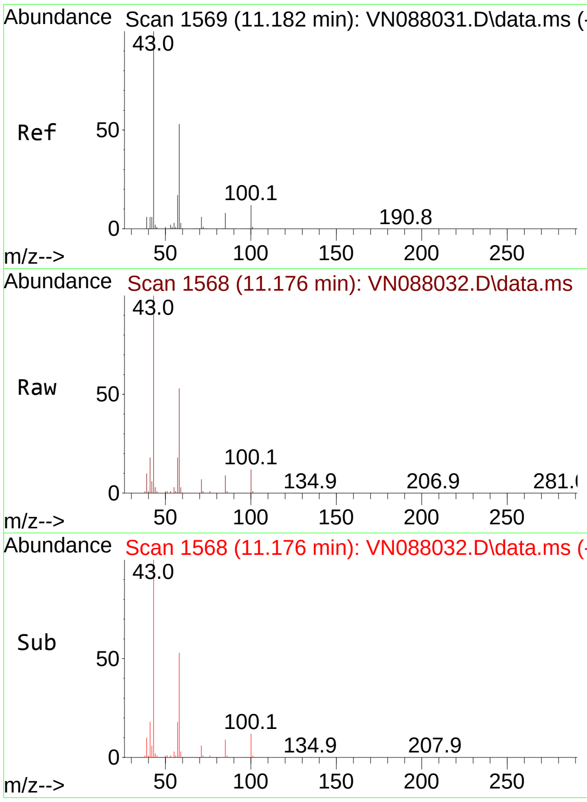
#58
4-Methyl-2-Pentanone
Concen: 244.858 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 43 Resp: 1992861

Ion	Ratio	Lower	Upper
43	100		
58	38.5	31.2	46.8
85	17.2	13.7	20.5



ICAL Form



#59
2-Hexanone
Concen: 257.249 ug/l
RT: 11.176 min Scan# 1!
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 43 Resp: 138234(

Ion	Ratio	Lower	Upper
43	100		
58	54.4	43.1	64.7
57	18.2	14.6	21.8

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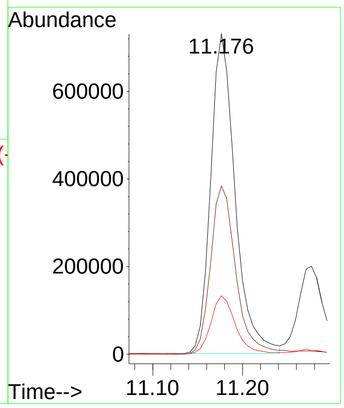
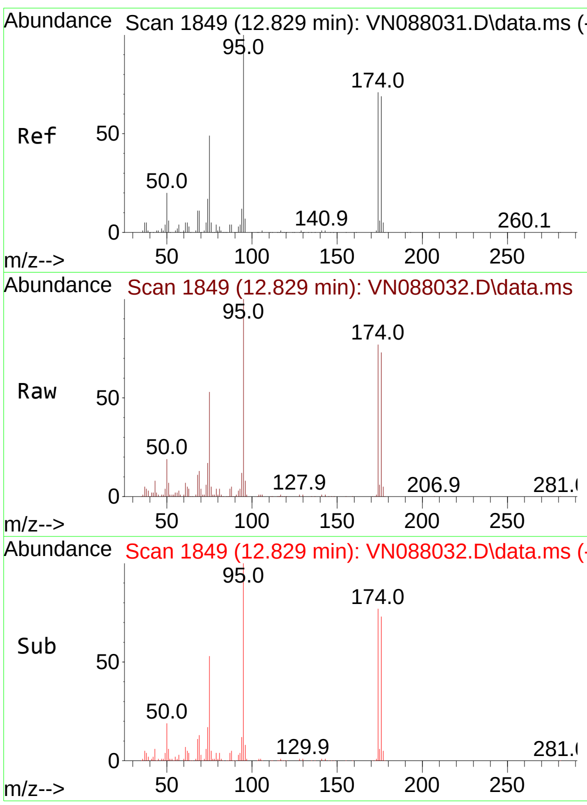
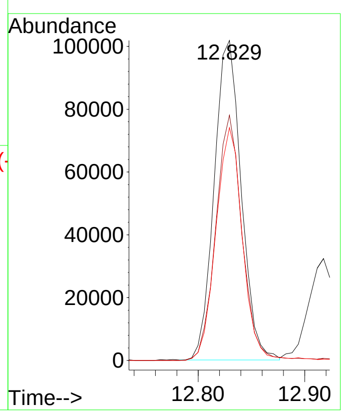




#60
4-Bromofluorobenzene
Concen: 29.897 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 95 Resp: 179340

Ion	Ratio	Lower	Upper
95	100		
174	74.7	57.4	86.0
176	71.4	57.0	85.4



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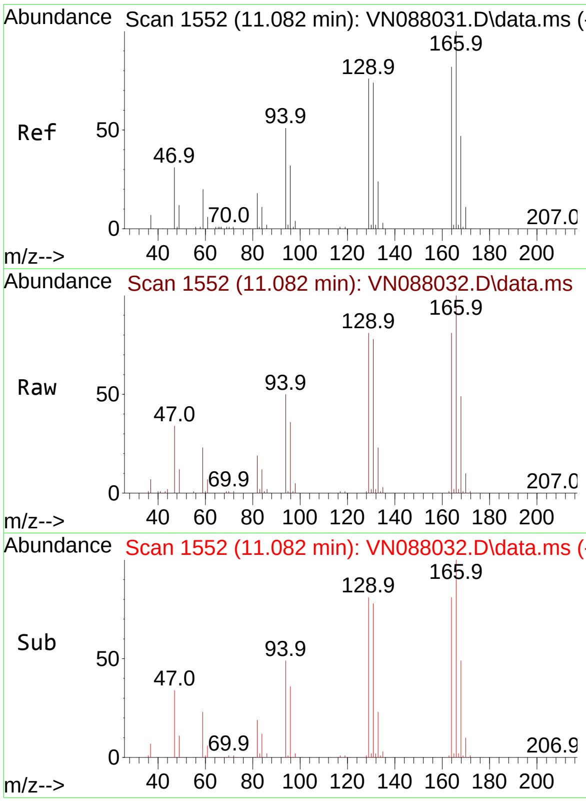
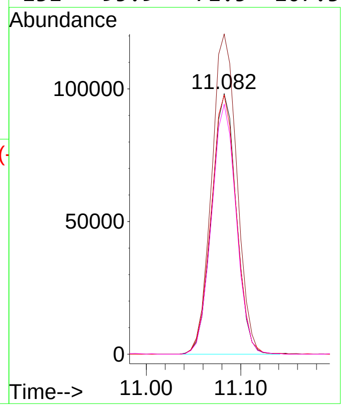


#61
Tetrachloroethene
Concen: 48.289 ug/l
RT: 11.082 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:164 Resp: 17793

Ion	Ratio	Lower	Upper
164	100		
166	122.9	97.2	145.8
129	99.5	73.7	110.5
131	95.9	71.5	107.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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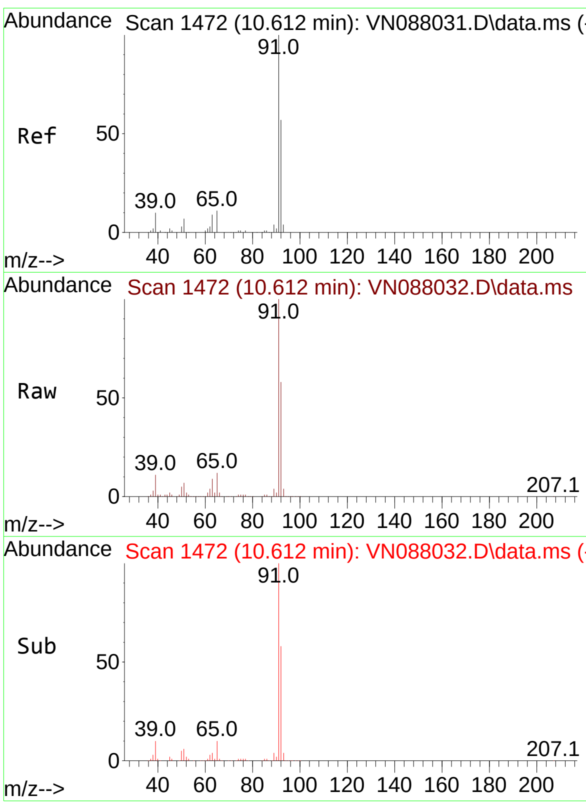
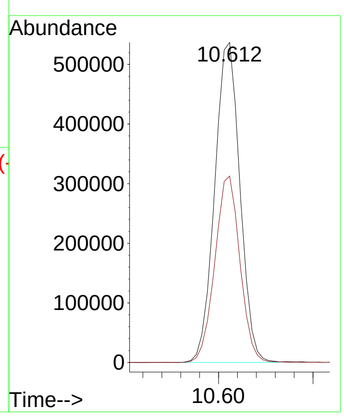


#62
Toluene
Concen: 48.341 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 91 Resp: 997746

Ion	Ratio	Lower	Upper
91	100		
92	57.8	45.8	68.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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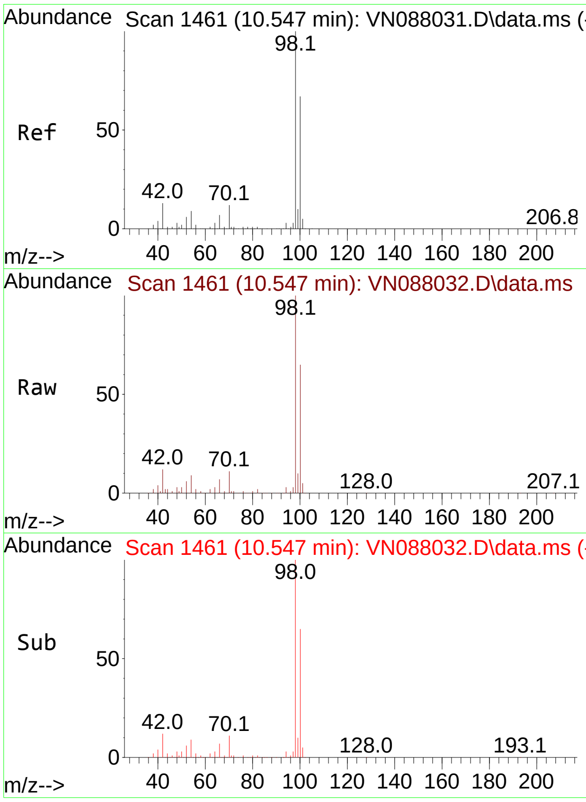
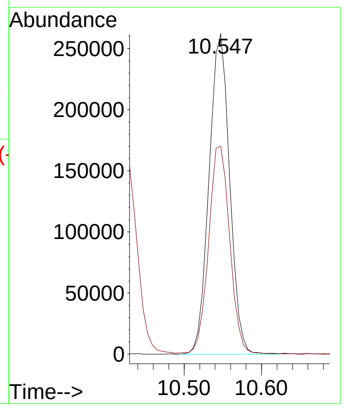
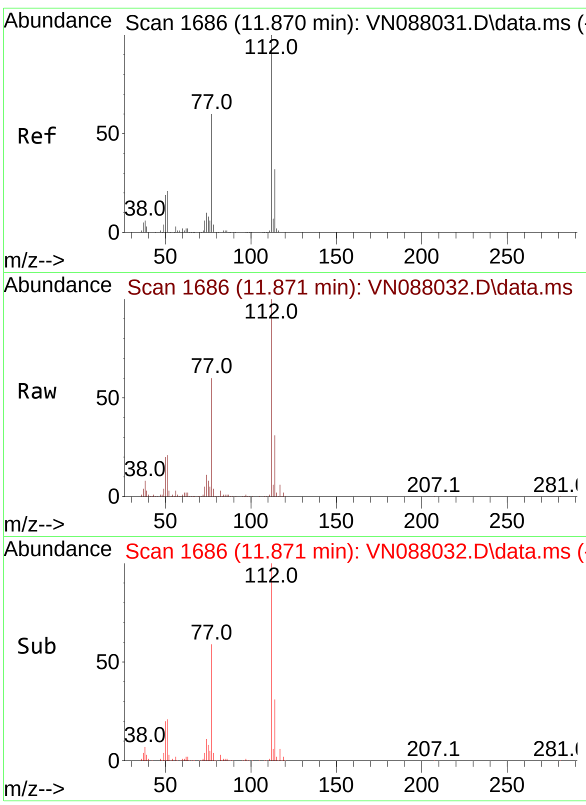
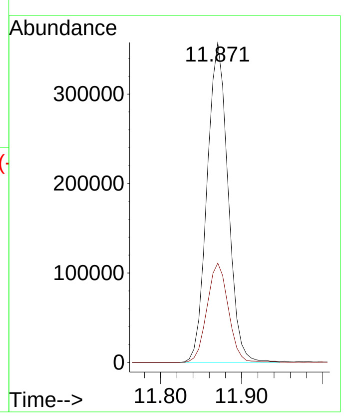


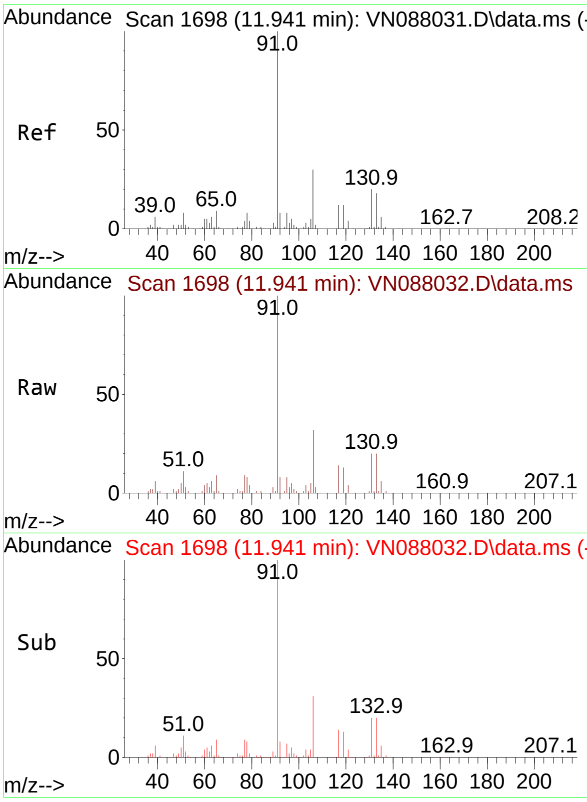

```
#63
Toluene-d8
Concen:   29.917 ug/l
RT:  10.547 min   Scan# 14
Delta R.T.  0.000 min
Lab File:   VN088032.D
Acq: 08 Oct 2025  10:30

Tgt Ion: 98 Resp:  48500
Ion  Ratio  Lower  Upper
 98  100
100   66.4   53.1   79.7
```






```
#64
Chlorobenzene
Concen:   48.738 ug/l
RT:  11.871 min   Scan# 1686
Delta R.T.  0.000 min
Lab File:   VN088032.D
Acq: 08 Oct 2025  10:30

Tgt Ion:112 Resp:  642529
Ion  Ratio  Lower  Upper
112  100
114   31.0   25.7   38.5
```





#65
1,1,1,2-Tetrachloroethane
Concen: 49.257 ug/l
RT: 11.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:131 Resp: 22378

Ion	Ratio	Lower	Upper
131	100		
133	96.1	0.0	183.8
119	64.5	0.0	132.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

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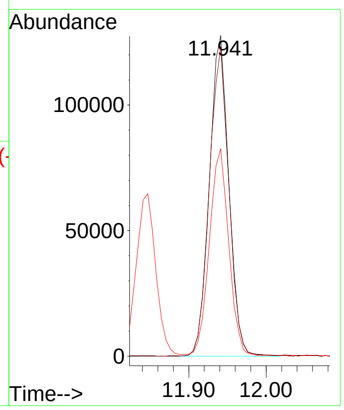
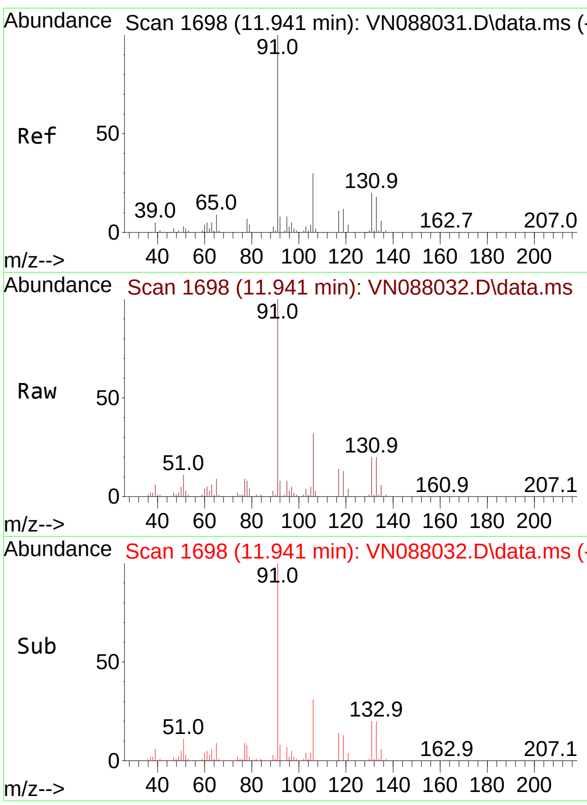
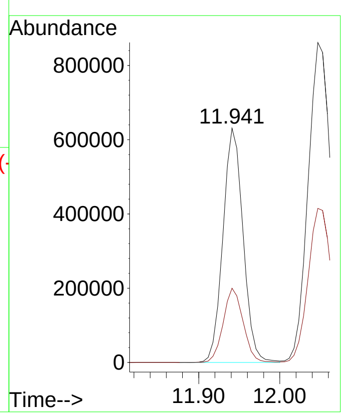




#66
Ethyl Benzene
Concen: 48.639 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 91 Resp: 1091616

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.0	36.0



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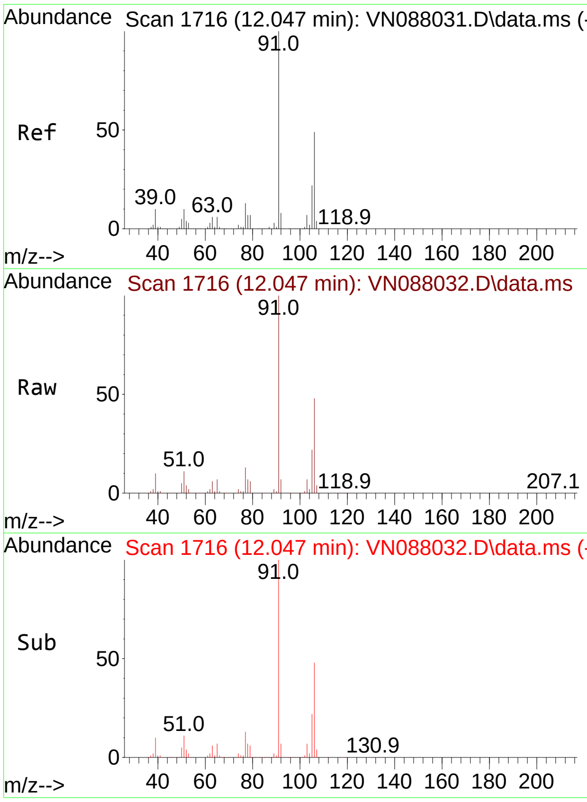


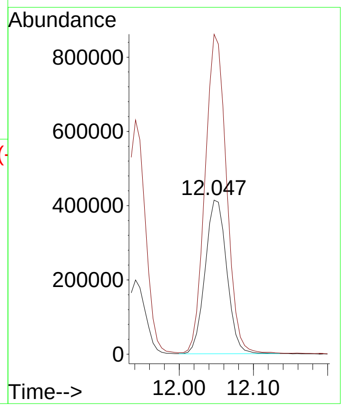
#67
m/p-Xylenes
Concen: 97.174 ug/l
RT: 12.047 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

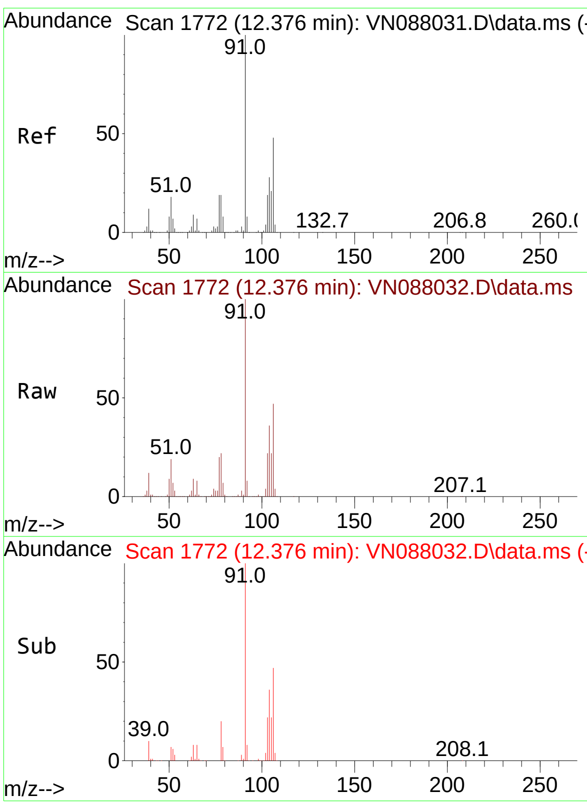
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:106 Resp: 840749
Ion Ratio Lower Upper
106 100
91 203.4 161.4 242.0

Manual Integrations APPROVED

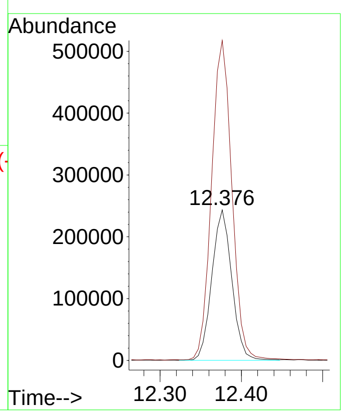
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

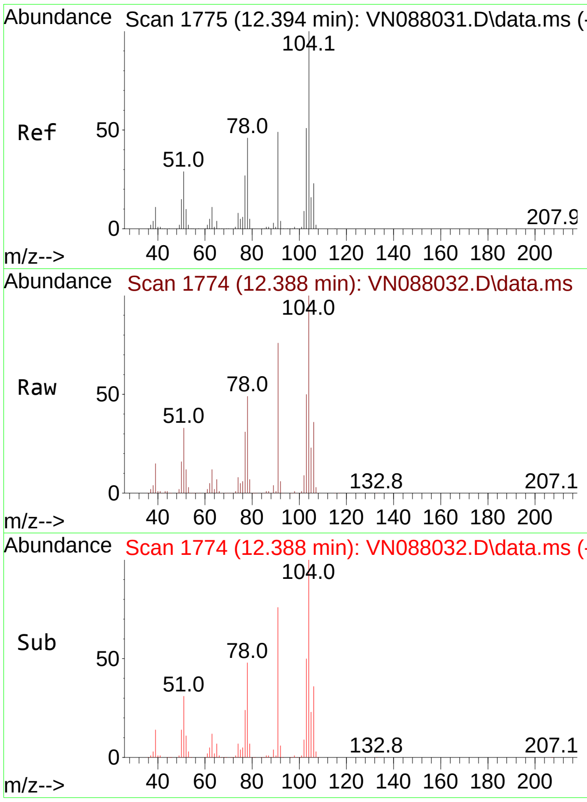




#68
o-Xylene
Concen: 48.257 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:106 Resp: 415634
Ion Ratio Lower Upper
106 100
91 216.6 105.2 315.6





#69
Styrene
Concen: 50.151 ug/l
RT: 12.388 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:104 Resp: 71453

Ion	Ratio	Lower	Upper
104	100		
78	50.8	41.8	62.6
103	54.2	44.9	67.3

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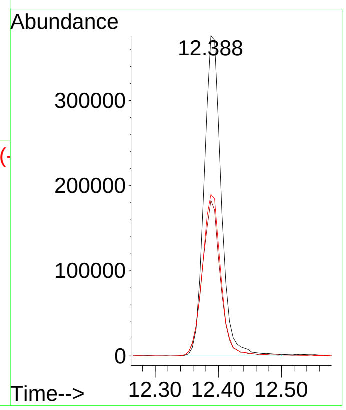
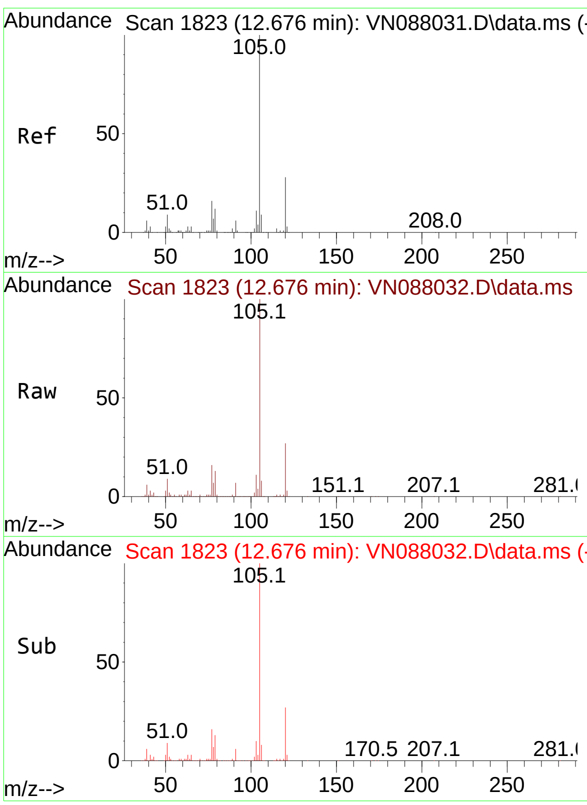
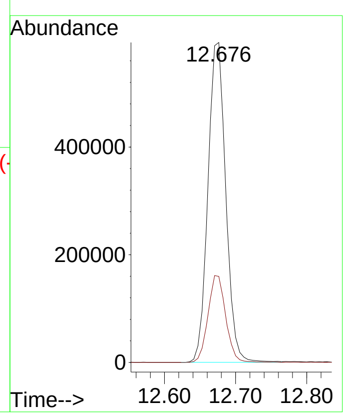


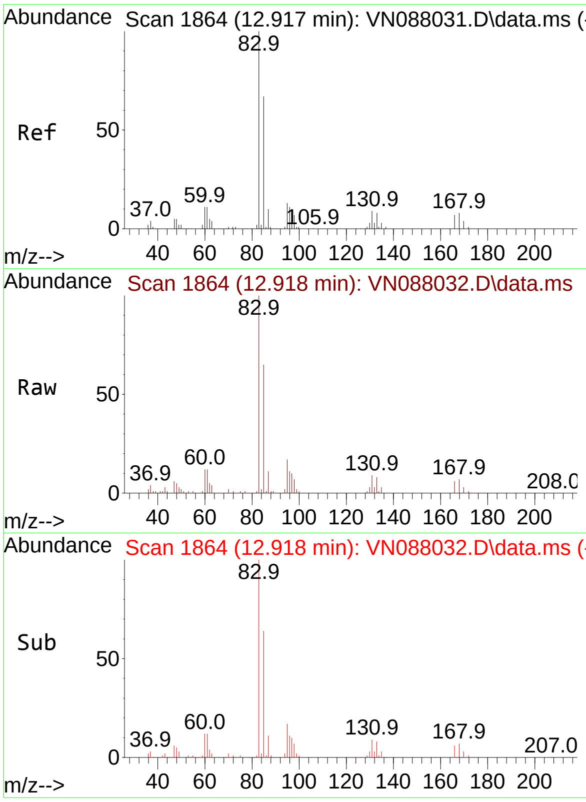


#70
Isopropylbenzene
Concen: 49.025 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:105 Resp: 1034903

Ion	Ratio	Lower	Upper
105	100		
120	27.1	19.1	35.5





#71
1,1,2,2-Tetrachloroethane
Concen: 48.801 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 83 Resp: 34926

Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.8	14.3
85	63.5	32.4	97.2

Manual Integrations APPROVED

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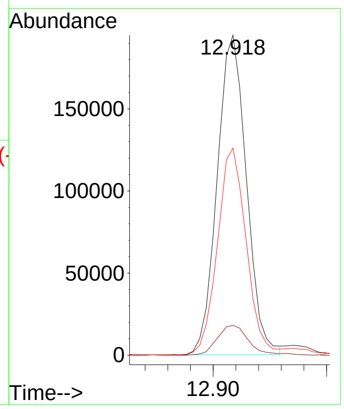
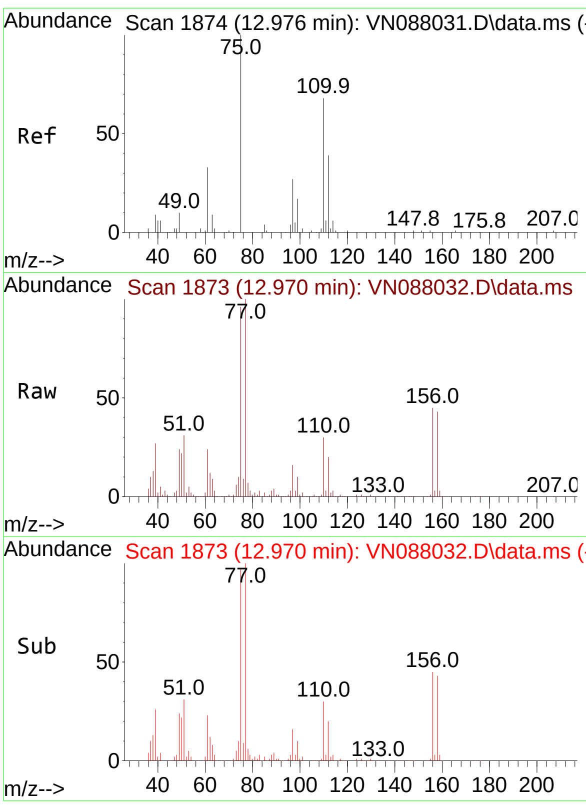
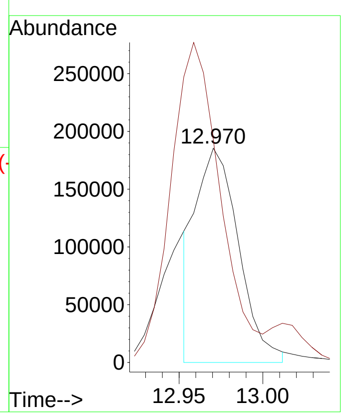




#72
1,2,3-Trichloropropane
Concen: 47.774 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 75 Resp: 331890

Ion	Ratio	Lower	Upper
75	100		
77	172.1	0.0	364.0



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

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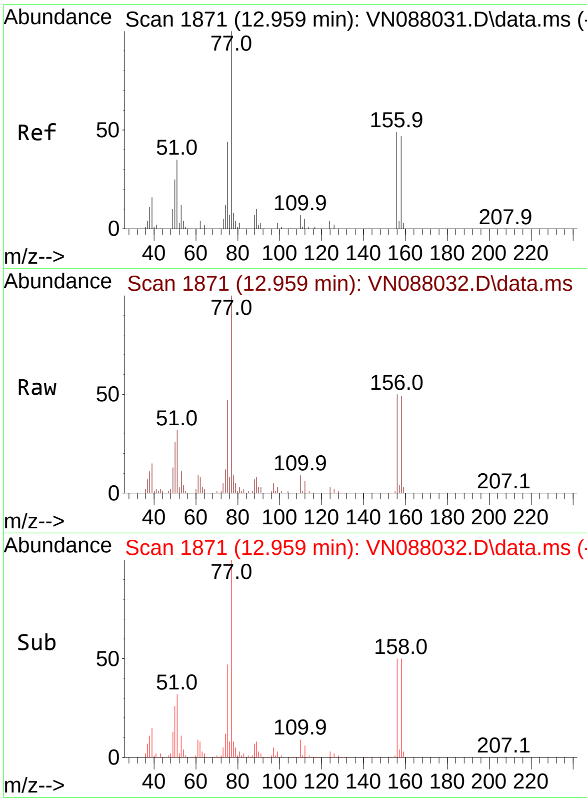
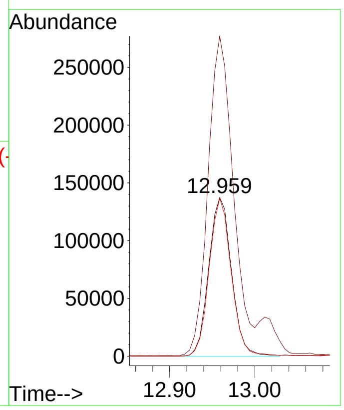
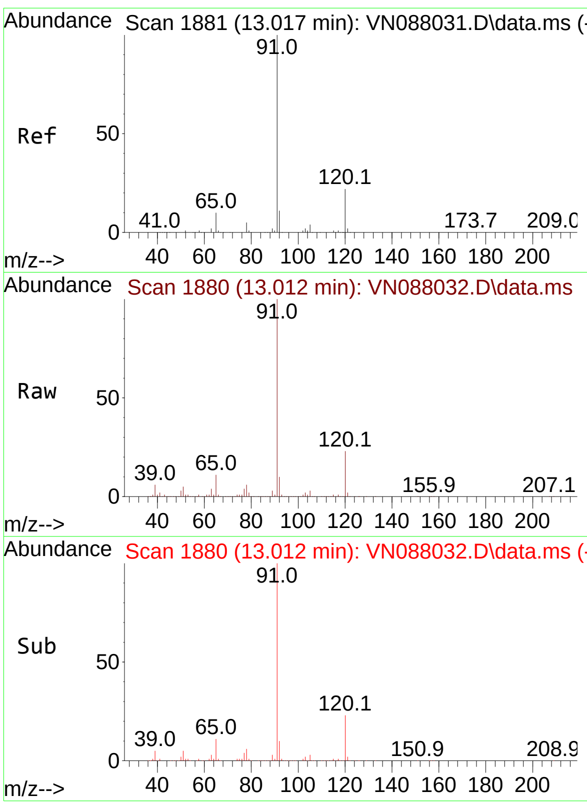


#73
Bromobenzene
Concen: 49.554 ug/l
RT: 12.959 min Scan# 18
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:156 Resp: 25567(

Ion	Ratio	Lower	Upper
156	100		
77	223.4	0.0	439.8
158	96.2	0.0	190.0

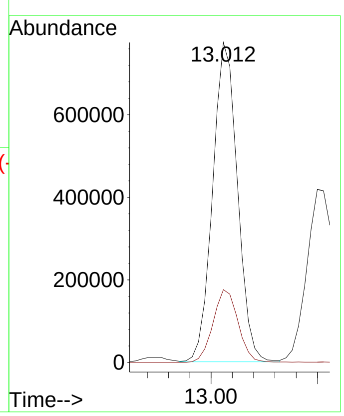




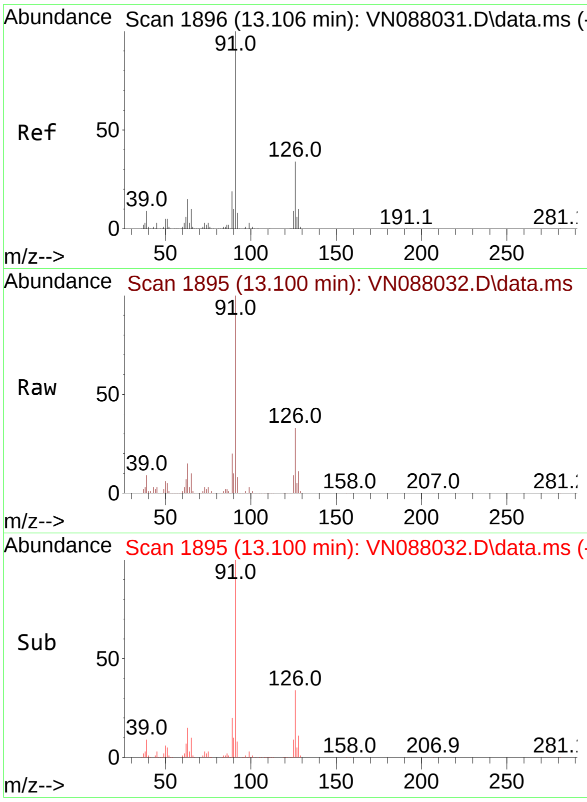
#74
n-propylbenzene
Concen: 49.187 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 91 Resp: 1253446

Ion	Ratio	Lower	Upper
91	100		
120	23.0	0.0	46.2



ICAL Form



#75
2-Chloroluene
Concen: 48.738 ug/l
RT: 13.100 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 91 Resp: 75941

Ion	Ratio	Lower	Upper
91	100		
126	33.7	0.0	66.6

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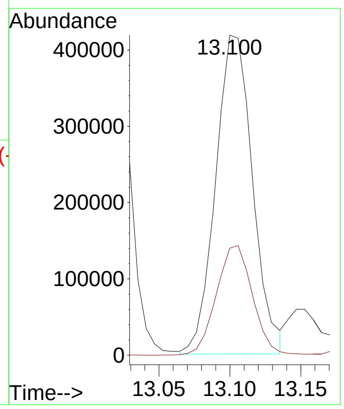
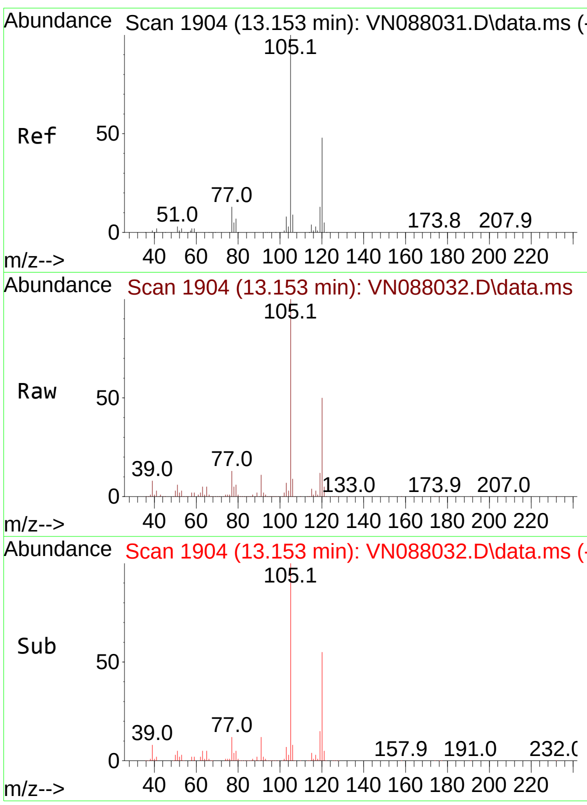
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

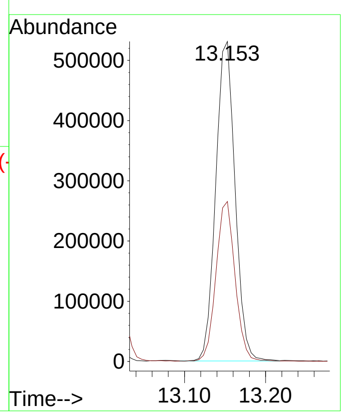


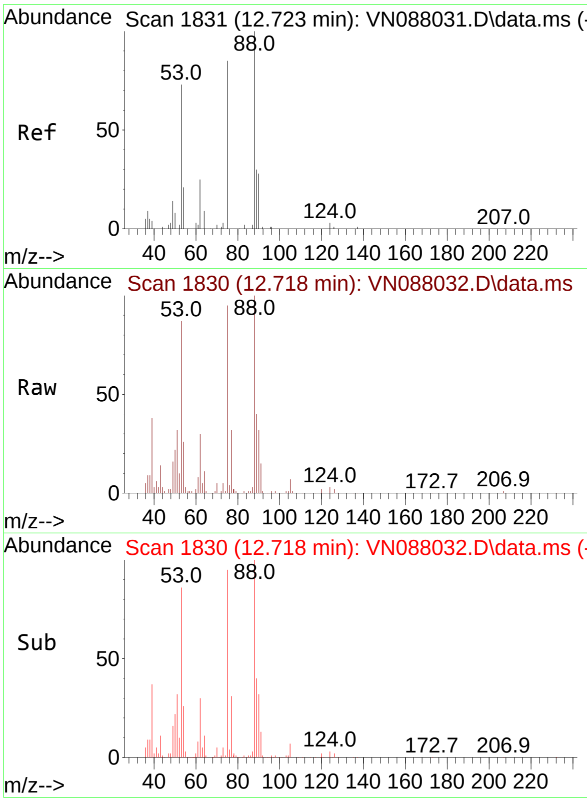


#76
1,3,5-Trimethylbenzene
Concen: 49.143 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:105 Resp: 881209

Ion	Ratio	Lower	Upper
105	100		
120	49.4	0.0	100.6





#77
t-1,4-Dichloro-2-butene
Concen: 50.413 ug/l
RT: 12.718 min   Scan# 1
Delta R.T.   -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

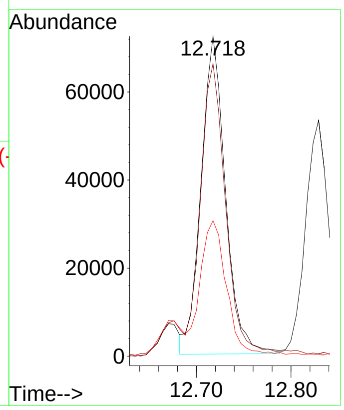
Tgt Ion: 75 Resp: 12960

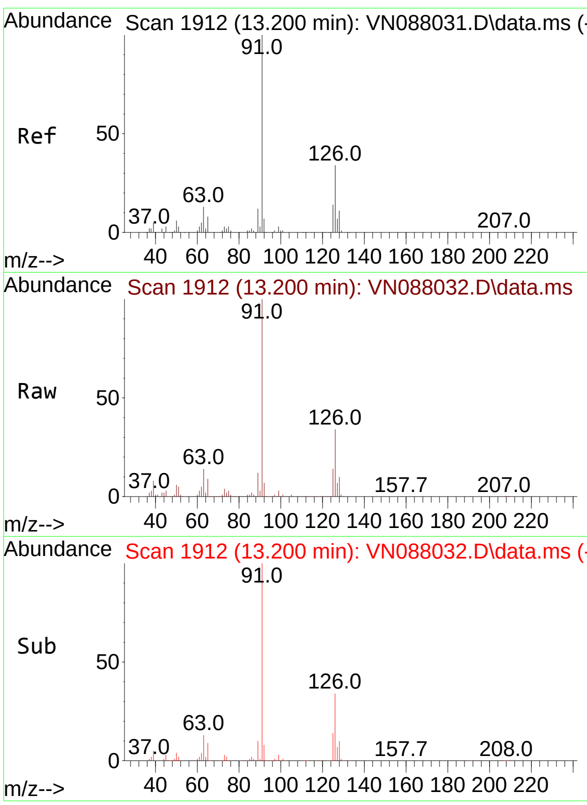
Ion	Ratio	Lower	Upper
75	100		
53	91.8	41.8	125.3
89	41.9	19.9	59.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :John Carlone   10/09/2025
Supervised By :Mahesh Dadoda   10/10/2025

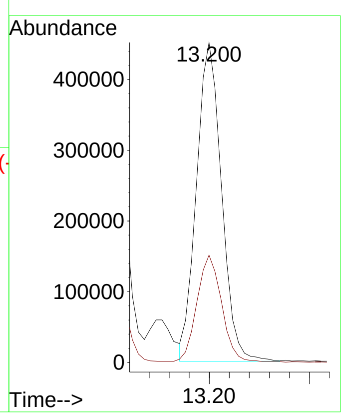




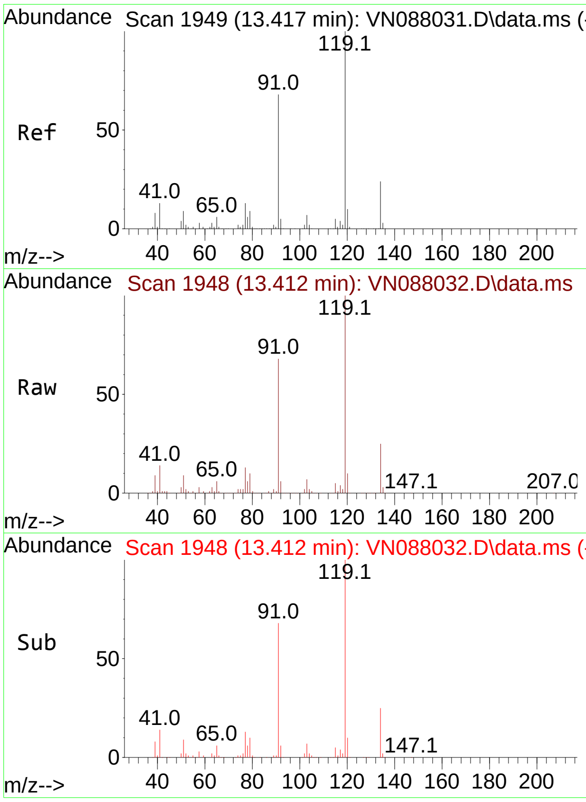
#78
4-Chlorotoluene
Concen: 49.593 ug/l
RT: 13.200 min   Scan# 1912
Delta R.T.   0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

Tgt Ion: 91 Resp: 785069

Ion	Ratio	Lower	Upper
91	100		
126	33.3	0.0	68.8



ICAL Form



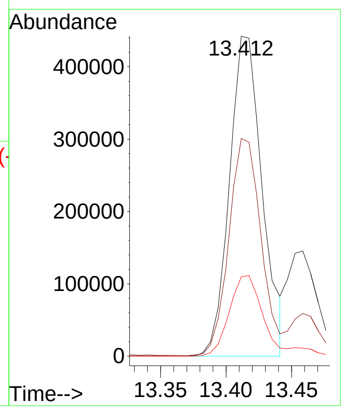
#79
tert-butylbenzene
Concen: 49.475 ug/l
RT: 13.412 min   Scan# 1
Delta R.T.   -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

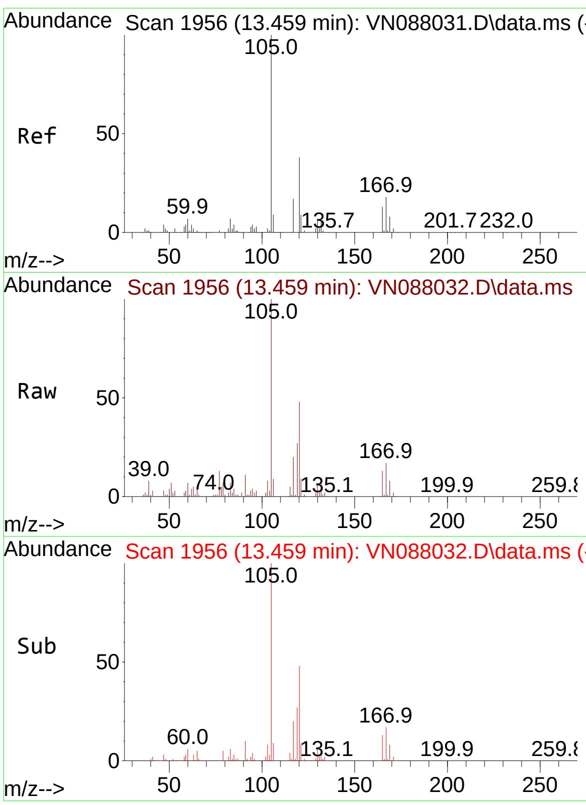
Tgt Ion:119 Resp: 76906

Ion	Ratio	Lower	Upper
119	100		
91	66.6	0.0	132.4
134	25.4	0.0	48.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED
Reviewed By :John Carlone   10/09/2025
Supervised By :Mahesh Dadoda   10/10/2025

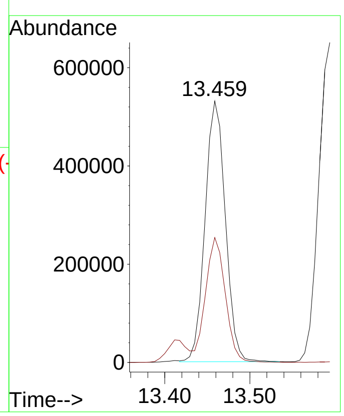


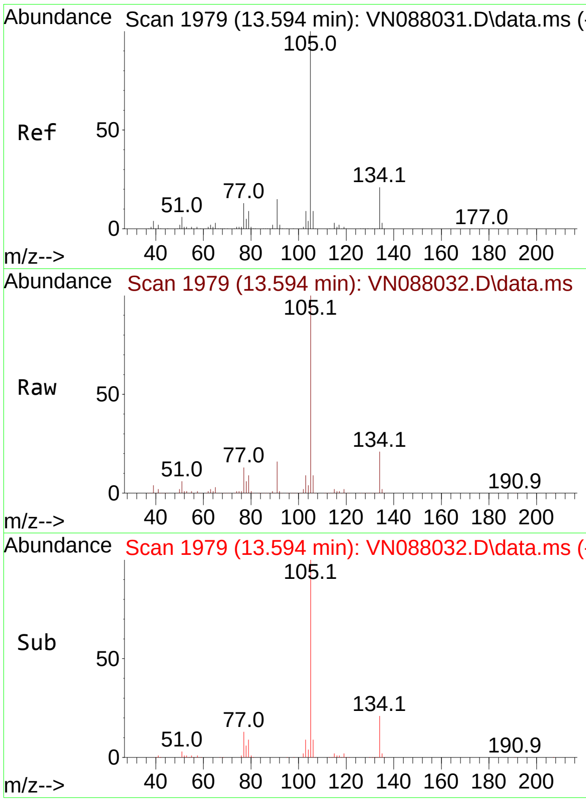


#80
1,2,4-Trimethylbenzene
Concen: 49.081 ug/l
RT: 13.459 min   Scan# 1956
Delta R.T.   0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025   10:30

Tgt Ion:105 Resp: 881036

Ion	Ratio	Lower	Upper
105	100		
120	46.7	0.0	93.8





#81
sec-Butylbenzene
Concen: 49.110 ug/l
RT: 13.594 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

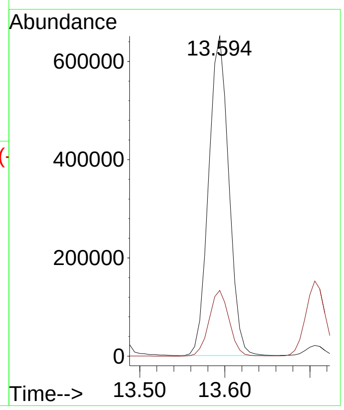
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

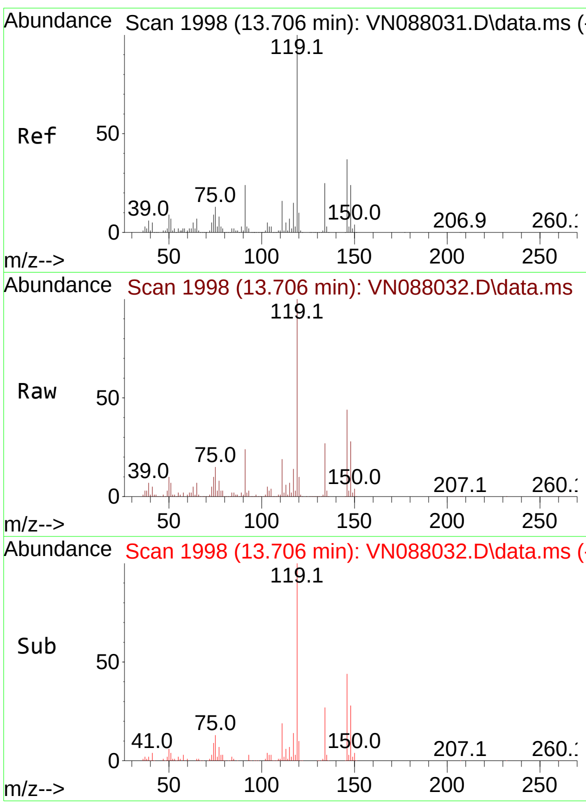
Tgt Ion:105 Resp: 107333

Ion	Ratio	Lower	Upper
105	100		
134	20.5	0.0	41.2

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

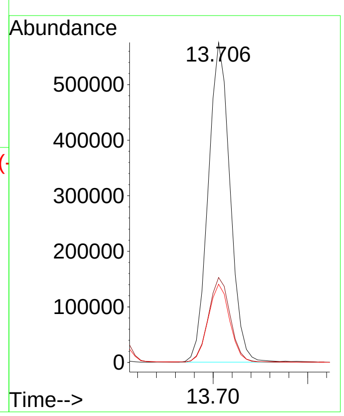




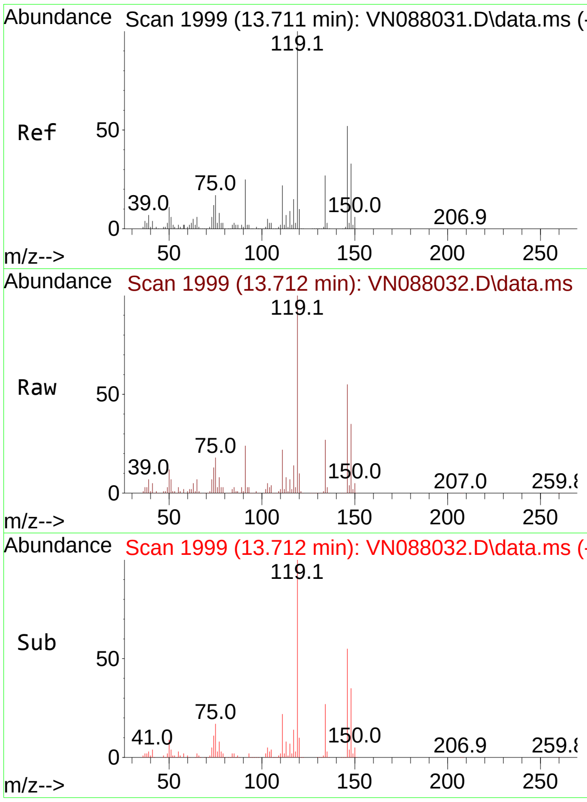
#82
p-Isopropyltoluene
Concen: 49.458 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:119 Resp: 922870

Ion	Ratio	Lower	Upper
119	100		
134	26.8	0.0	52.6
91	23.9	0.0	48.2



ICAL Form



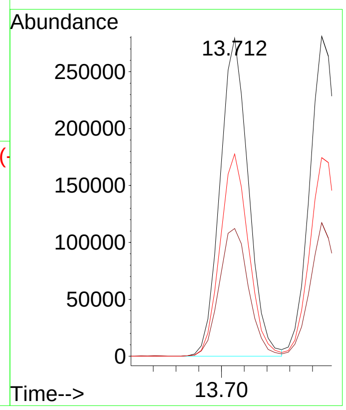
#83
1,3-Dichlorobenzene
Concen: 49.826 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

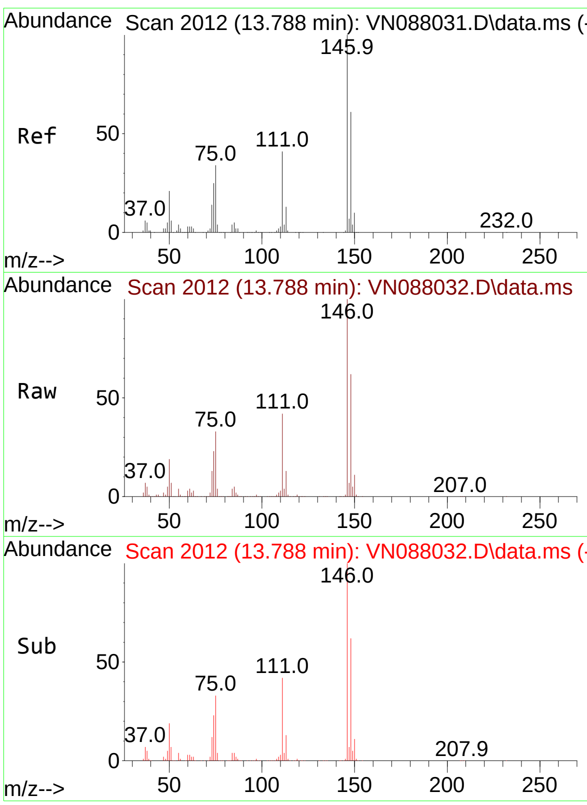
Tgt Ion:146 Resp: 483694

Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.1	63.1
148	63.8	31.5	94.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

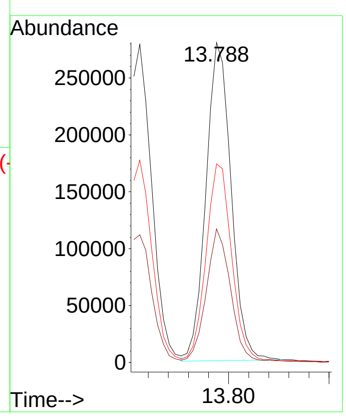




#84
1,4-Dichlorobenzene
Concen: 48.552 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:146 Resp: 486086

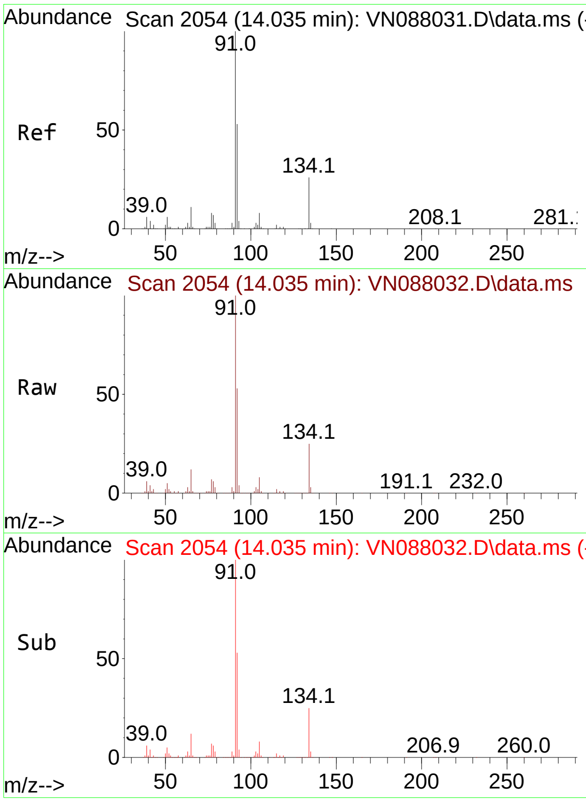
Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.5	61.6
148	64.2	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

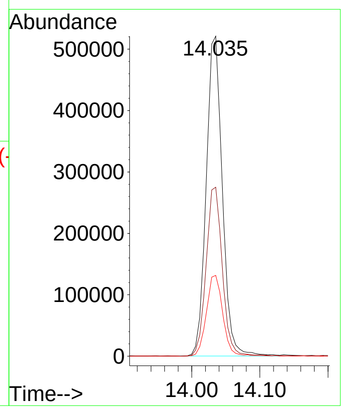
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

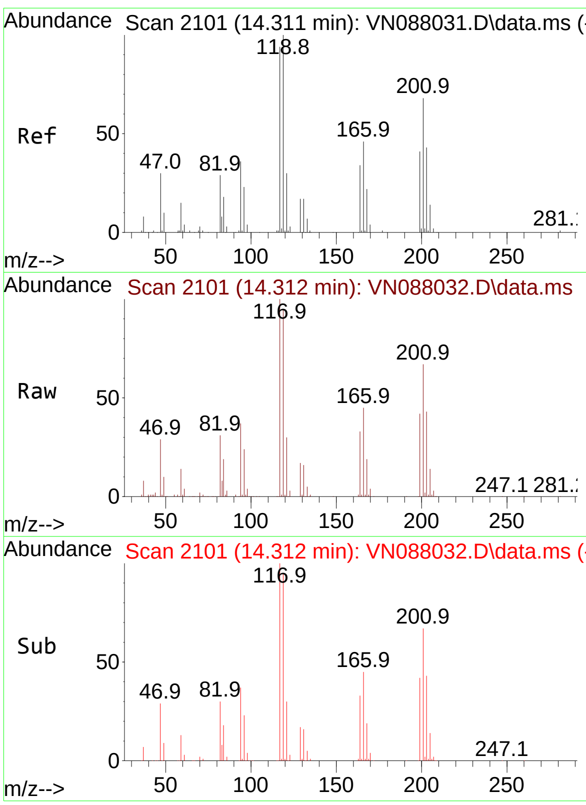


#85
n-Butylbenzene
Concen: 49.601 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 91 Resp: 86107

Ion	Ratio	Lower	Upper
91	100		
92	52.8	0.0	107.6
134	25.5	0.0	52.6

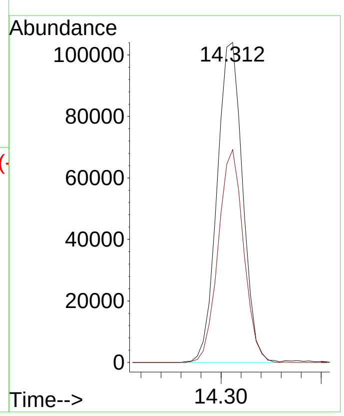


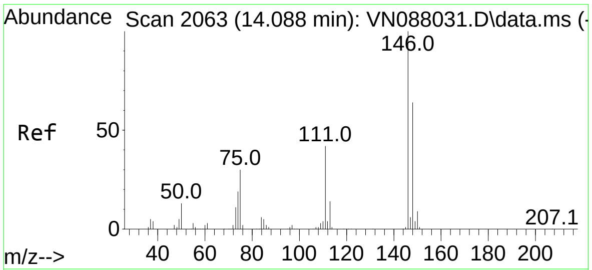


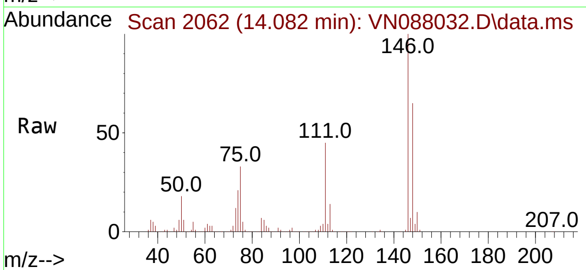
#86
Hexachloroethane
Concen: 49.313 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

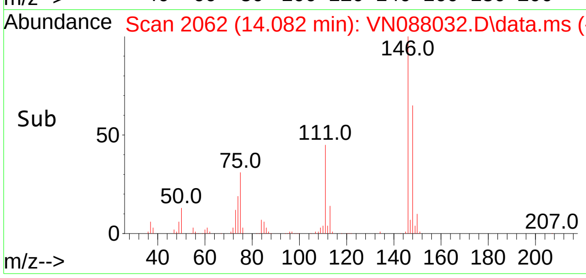
Tgt Ion:117 Resp: 184332

Ion	Ratio	Lower	Upper
117	100		
201	65.9	34.8	104.3









#87
1,2-Dichlorobenzene
Concen: 48.621 ug/l
RT: 14.082 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

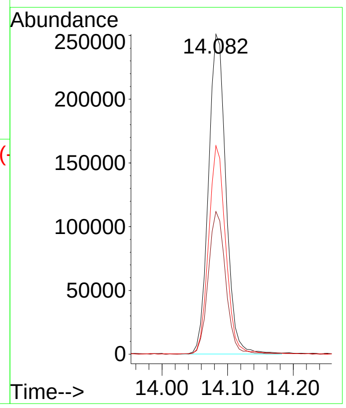
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

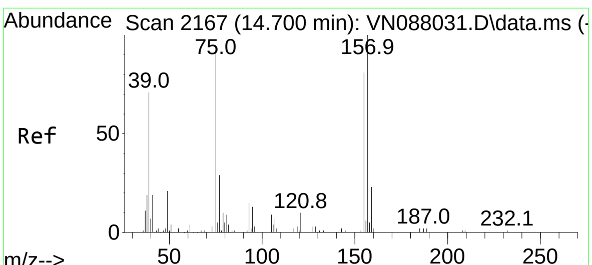
Manual Integrations APPROVED

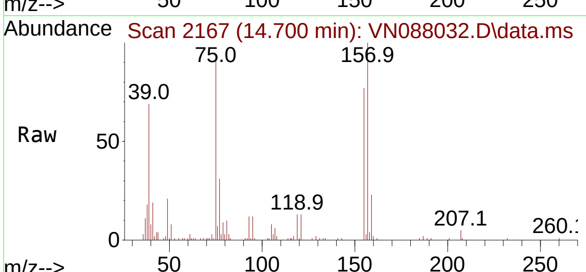
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

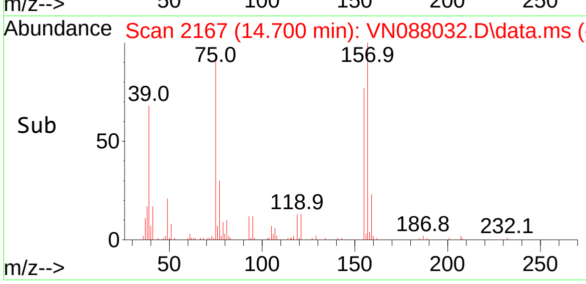
Tgt Ion:146 Resp: 46424

Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.3	66.8
148	63.1	31.4	94.3





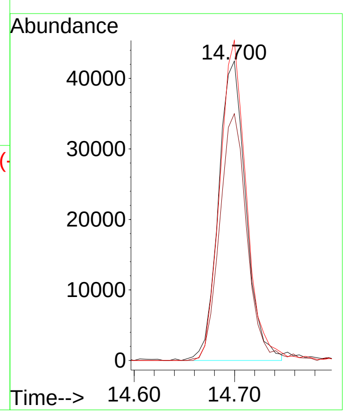




#88
1,2-Dibromo-3-Chloropropane
Concen: 49.043 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion: 75 Resp: 80611

Ion	Ratio	Lower	Upper
75	100		
155	81.8	63.5	95.3
157	103.4	81.7	122.5

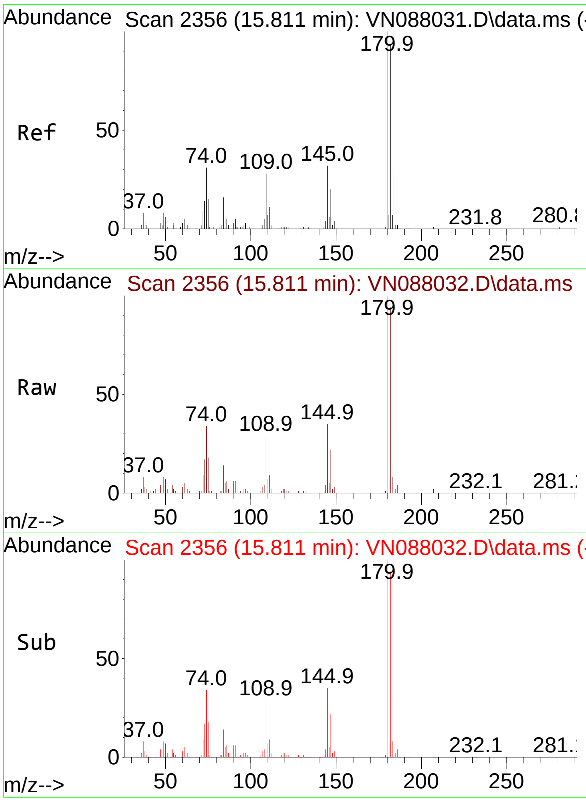


ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

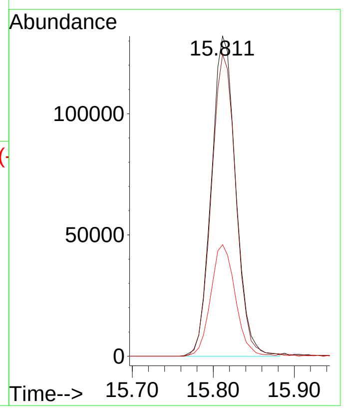
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

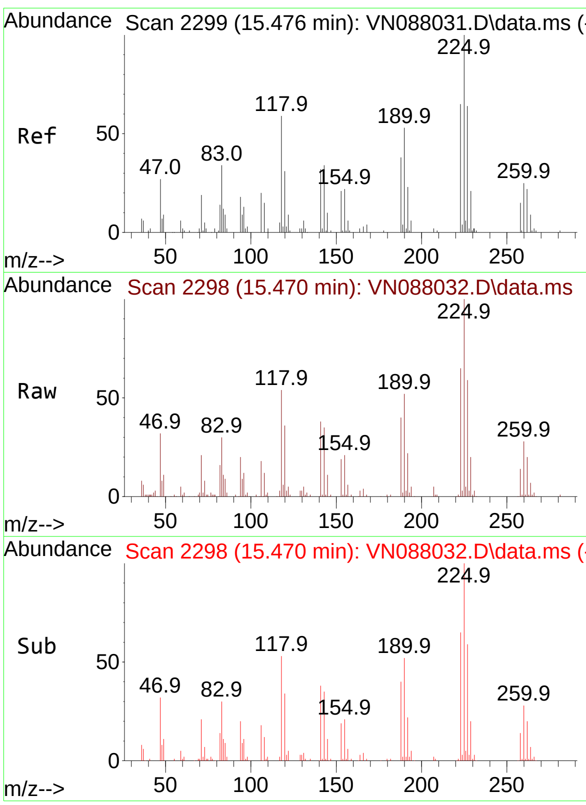


#89
1,2,4-Trichlorobenzene
Concen: 48.506 ug/l
RT: 15.811 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:180 Resp: 27587

Ion	Ratio	Lower	Upper
180	100		
182	95.2	74.6	112.0
145	35.0	27.2	40.8

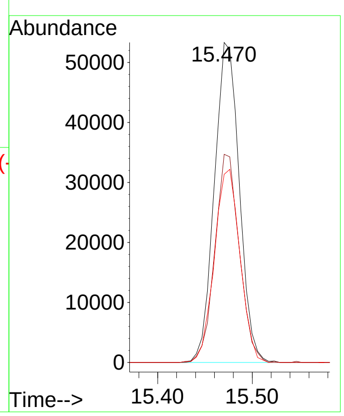




#90
Hexachlorobutadiene
Concen: 49.524 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:225 Resp: 98031

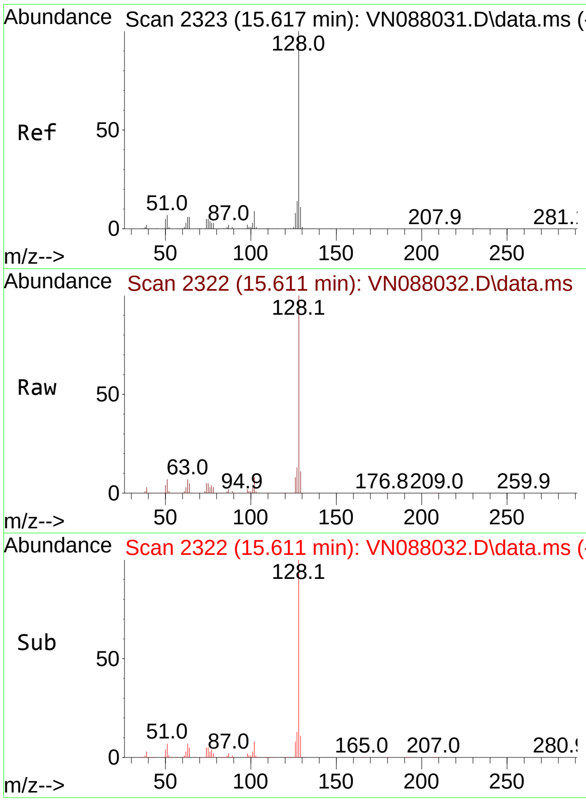
Ion	Ratio	Lower	Upper
225	100		
223	63.7	0.0	129.6
227	61.8	0.0	132.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

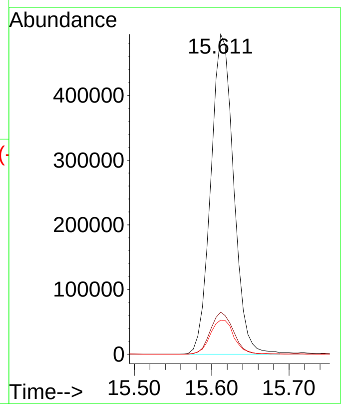
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

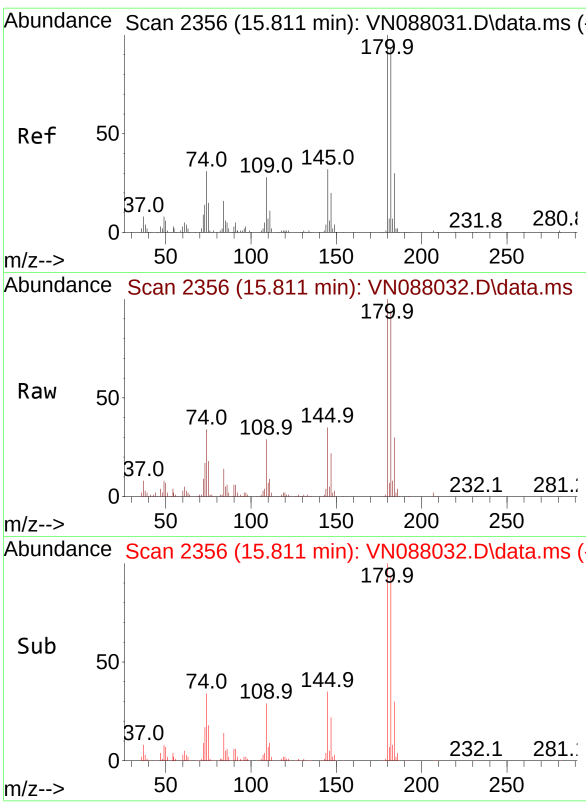


#91
Naphthalene
Concen: 48.760 ug/l
RT: 15.611 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:128 Resp: 101529

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	11.1	8.6	13.0

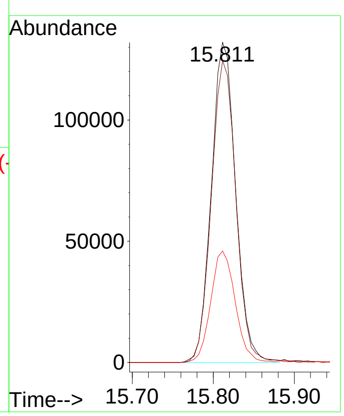




#92
1,2,3-Trichlorobenzene
Concen: 48.506 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088032.D
Acq: 08 Oct 2025 10:30

Tgt Ion:180 Resp: 275876

Ion	Ratio	Lower	Upper
180	100		
182	95.2	0.0	186.6
145	35.0	0.0	68.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088033.D
Acq On : 08 Oct 2025 10:51
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 02:03:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	67628	30.000 ug/l		0.00
28) 1,4-Difluorobenzene	9.083	114	378736	30.000 ug/l		0.00
57) Chlorobenzene-d5	11.847	117	351656	30.000 ug/l		0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	160840	30.543 ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	101.800%		
60) 4-Bromofluorobenzene	12.829	95	178151	30.730 ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.433%		
63) Toluene-d8	10.547	98	467474	29.837 ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.467%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	420916	108.665 ug/l		95
3) Chloromethane	2.383	50	463730	105.596 ug/l		98
4) Vinyl Chloride	2.536	62	482888	105.455 ug/l		100
5) Bromomethane	2.959	94	273063	110.897 ug/l		98
6) Chloroethane	3.130	64	314009	103.956 ug/l		100
7) Trichlorofluoromethane	3.501	101	654258	105.071 ug/l		97
8) Diethyl Ether	3.959	74	290416	103.221 ug/l		99
9) 1,1,2-Trichlorotrifluo...	4.365	101	351149	105.345 ug/l		97
10) 1,1-Dichloroethene	4.336	96	359076	100.983 ug/l		99
11) Methyl Iodide	4.577	142	430900	131.483 ug/l		94
12) Methyl Acetate	5.012	43	608023m	108.115 ug/l		
13) Acrolein	4.177	56	463612	518.261 ug/l	#	7
14) Acrylonitrile	5.712	53	1467014	525.879 ug/l		99
15) Acetone	4.424	58	407619	497.406 ug/l		93
16) Carbon Disulfide	4.700	76	1166017	104.606 ug/l		100
17) Allyl chloride	5.012	41	683636	101.888 ug/l		96
18) Methylene Chloride	5.259	84	461958	102.216 ug/l		95
19) trans-1,2-Dichloroethene	5.771	96	426250	103.682 ug/l		93
20) Diisopropyl ether	6.659	45	1616050	105.793 ug/l		98
21) 1,1-Dichloroethane	6.553	63	830085	104.385 ug/l		95
22) cis-1,2-Dichloroethene	7.471	96	536722	104.292 ug/l		99
23) tert-Butyl Alcohol	5.530	59	576246	515.047 ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	1604709	104.553 ug/l		98
25) Chloroform	7.947	83	840390	102.409 ug/l		100
26) Cyclohexane	8.236	56	682990	103.662 ug/l	#	95
29) 1,1-Dichloropropene	8.353	75	570703	105.125 ug/l		98
30) 2-Butanone	7.471	43	2104280	525.556 ug/l		99
31) 2,2-Dichloropropane	7.471	77	713241	101.828 ug/l		100
32) 1,1,1-Trichloroethane	8.147	97	703319	103.680 ug/l		99
33) Carbon Tetrachloride	8.341	117	599874	105.575 ug/l		98
34) Benzene	8.588	78	1880026	104.406 ug/l		98
35) Methacrylonitrile	7.765	41	432524	102.726 ug/l		94
36) 1,2-Dichloroethane	8.653	62	649488	103.896 ug/l		99
37) Trichloroethene	9.335	130	443090	103.860 ug/l		100
38) Methylcyclohexane	9.582	83	700603	104.502 ug/l		99
39) 1,2-Dichloropropane	9.600	63	473093	104.780 ug/l		99
40) Dibromomethane	9.688	93	342480	104.205 ug/l		97
41) Bromodichloromethane	9.871	83	701393	104.491 ug/l		99
42) Vinyl Acetate	6.589	43	7544223	553.092 ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088033.D
Acq On : 08 Oct 2025 10:51
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 02:03:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	824040	107.065	ug/l	96
44) Isopropyl Acetate	8.671	43	1339571	106.561	ug/l	98
45) 1,4-Dioxane	9.682	88	178569	2135.793	ug/l	96
46) Methyl methacrylate	9.665	41	606493	109.554	ug/l	96
47) n-amyl Acetate	12.488	43	635857	115.116	ug/l #	64
48) t-1,3-Dichloropropene	10.818	75	804743	107.816	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	826516	106.155	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	450541	103.515	ug/l	99
51) Ethyl methacrylate	10.853	69	831363	112.866	ug/l	98
52) 1,3-Dichloropropane	11.141	76	810597	106.748	ug/l	98
53) Dibromochloromethane	11.335	129	559787	107.583	ug/l	98
54) 1,2-Dibromoethane	11.447	107	493699	106.100	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	2132450	536.342	ug/l	100
56) Bromoform	12.559	173	386003	109.728	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	4116685	523.371	ug/l	99
59) 2-Hexanone	11.177	43	2928211	563.852	ug/l	99
61) Tetrachloroethene	11.082	164	362506	101.796	ug/l	93
62) Toluene	10.612	91	2027659	101.652	ug/l	98
64) Chlorobenzene	11.871	112	1317139	103.379	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	448505	102.148	ug/l	98
66) Ethyl Benzene	11.941	91	2249065	103.692	ug/l	97
67) m/p-Xylenes	12.047	106	1731517	207.080	ug/l	99
68) o-Xylene	12.376	106	858288	103.111	ug/l	97
69) Styrene	12.388	104	1459636	106.005	ug/l	98
70) Isopropylbenzene	12.676	105	2115128	103.677	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	717005	103.664	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	669076m	99.654	ug/l	
73) Bromobenzene	12.959	156	514996	103.282	ug/l	95
74) n-propylbenzene	13.012	91	2606776	105.847	ug/l	99
75) 2-Chlorotoluene	13.100	91	1584486	105.221	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	1814925	104.730	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	290843	117.060	ug/l	89
78) 4-Chlorotoluene	13.200	91	1632331	106.695	ug/l	98
79) tert-butylbenzene	13.418	119	1573625	104.749	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	1831829	105.591	ug/l	98
81) sec-Butylbenzene	13.594	105	2207832	104.528	ug/l	99
82) p-Isopropyltoluene	13.706	119	1878975	104.194	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	978389	104.286	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	993969	102.730	ug/l	98
85) n-Butylbenzene	14.035	91	1765582	105.237	ug/l	99
86) Hexachloroethane	14.312	117	371189	102.750	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	959910	104.023	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	165583	104.237	ug/l	95
89) 1,2,4-Trichlorobenzene	15.812	180	577645	105.091	ug/l	98
90) Hexachlorobutadiene	15.476	225	194567	101.706	ug/l	98
91) Naphthalene	15.611	128	2133295	106.010	ug/l	100
92) 1,2,3-Trichlorobenzene	15.812	180	577645	105.091	ug/l	98

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

Quantitation Report (QT Reviewed)

ICAL Form

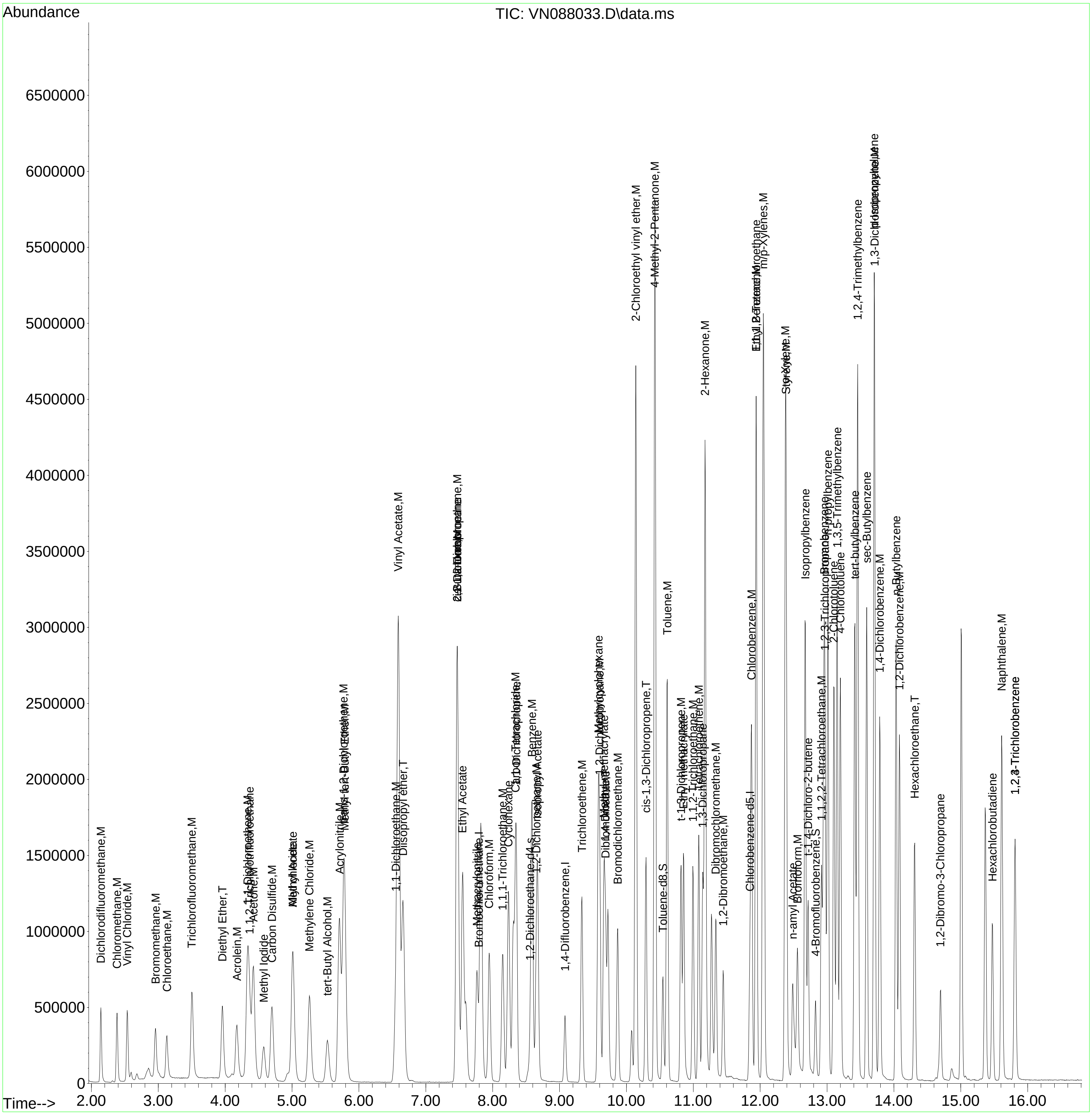
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088033.D
Acq On : 08 Oct 2025 10:51
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 09 02:03:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

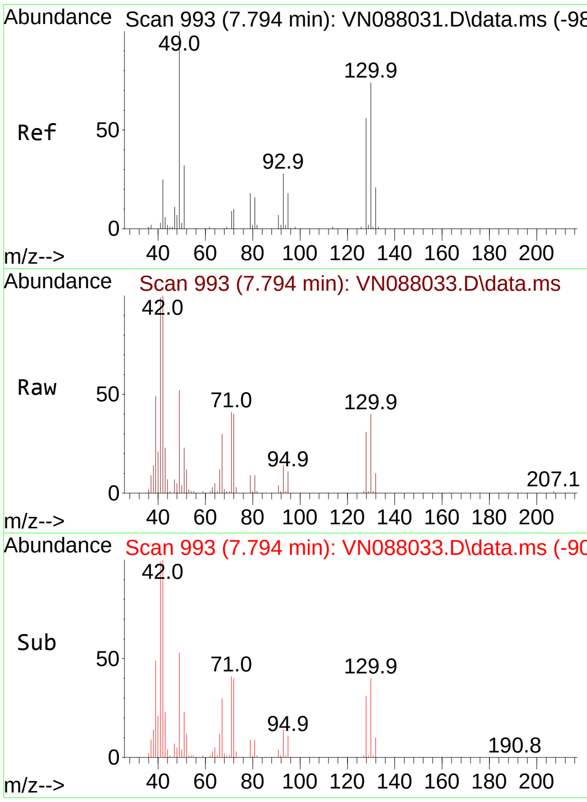
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



ICAL Form



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

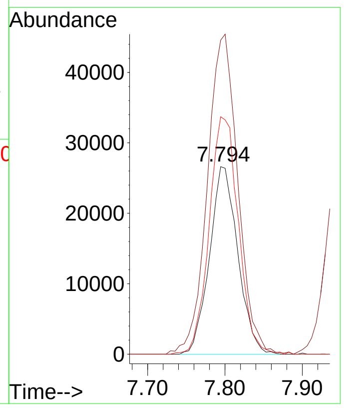
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

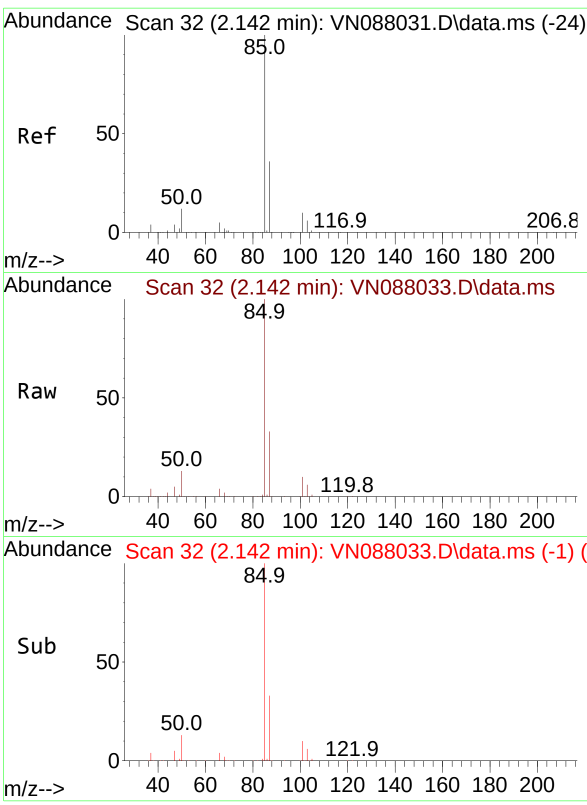
Tgt Ion:128 Resp: 67628

Ion	Ratio	Lower	Upper
128	100		
49	184.1	0.0	439.8
130	130.7	0.0	325.8

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

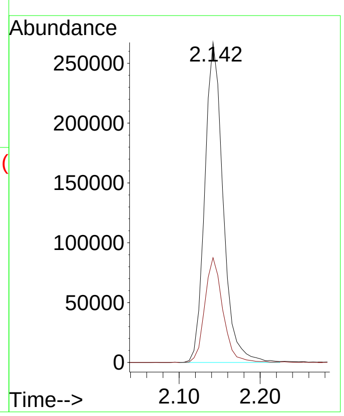




#2
Dichlorodifluoromethane
Concen: 108.665 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 85 Resp: 420916

Ion	Ratio	Lower	Upper
85	100		
87	32.8	17.9	53.8

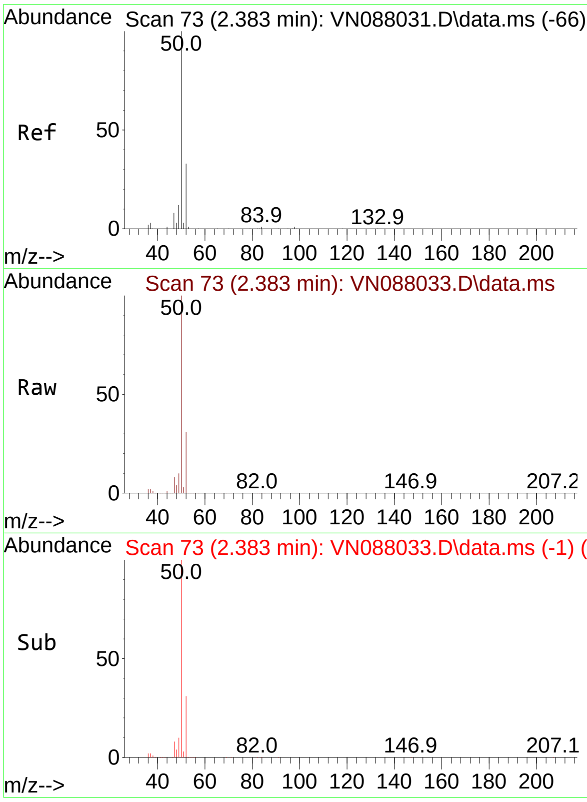


ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

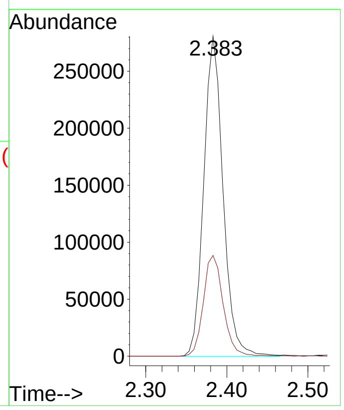
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

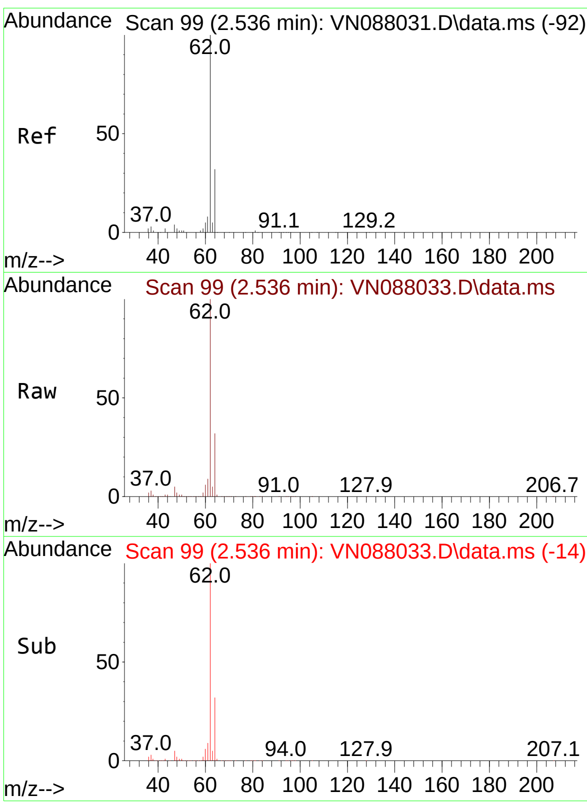


#3
Chloromethane
Concen: 105.596 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 50 Resp: 46373

Ion	Ratio	Lower	Upper
50	100		
52	31.5	26.3	39.5

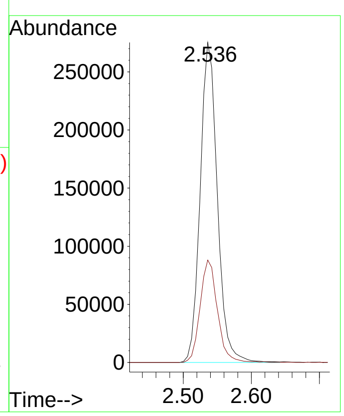




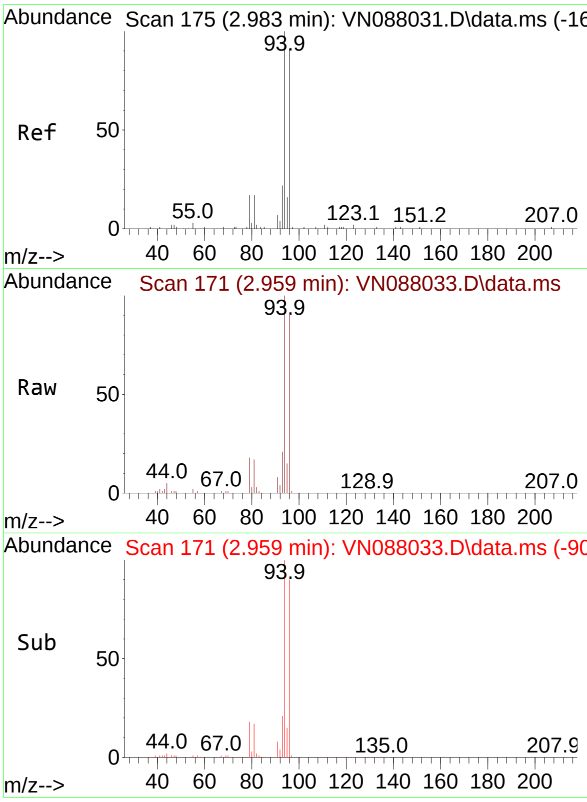
#4
Vinyl Chloride
Concen: 105.455 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 62 Resp: 482888

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.7	38.5



ICAL Form



#5
Bromomethane
Concen: 110.897 ug/l
RT: 2.959 min Scan# 1
Delta R.T. -0.023 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

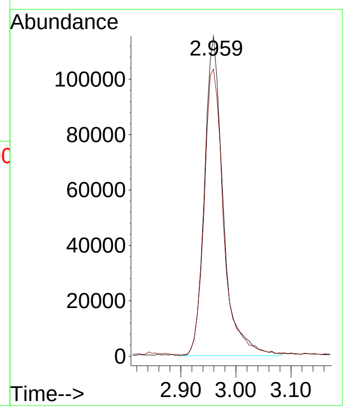
Tgt Ion: 94 Resp: 27306

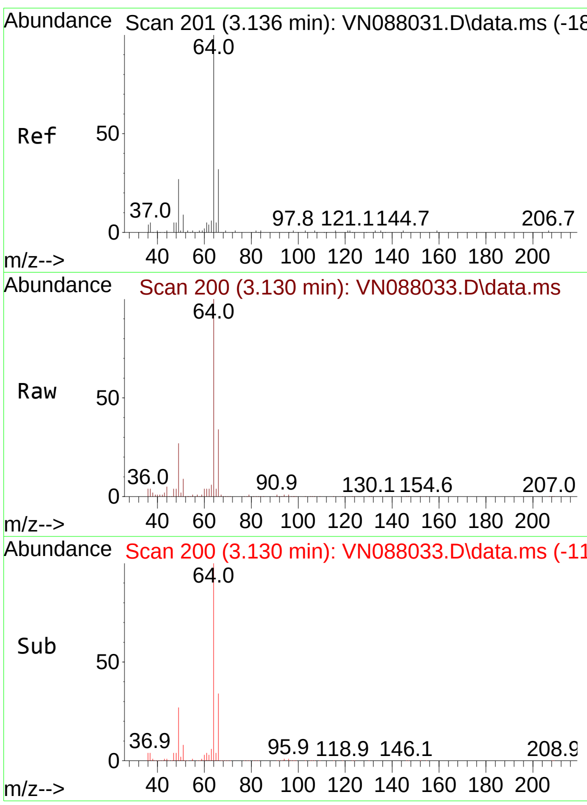
Ion	Ratio	Lower	Upper
94	100		
96	89.5	73.0	109.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

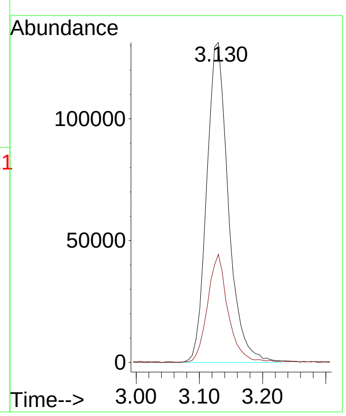




#6
Chloroethane
Concen: 103.956 ug/l
RT: 3.130 min Scan# 200
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 64 Resp: 314009

Ion	Ratio	Lower	Upper
64	100		
66	33.6	26.8	40.2

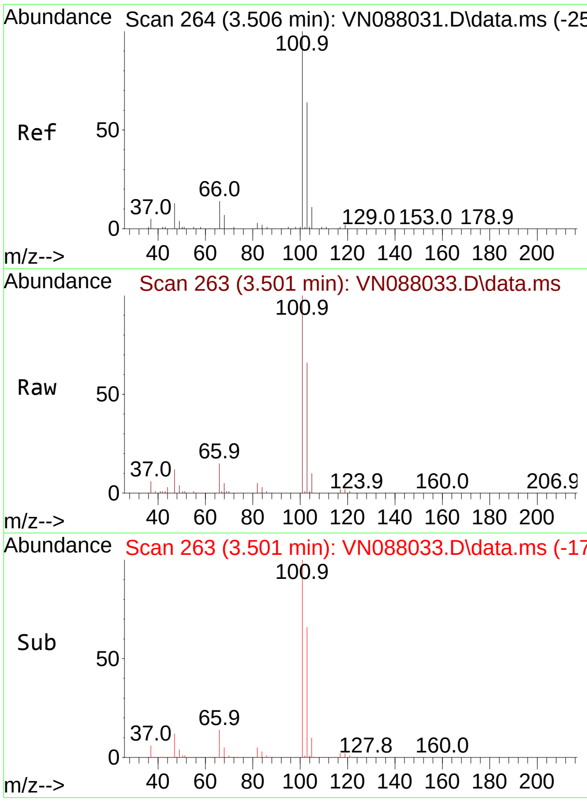


ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

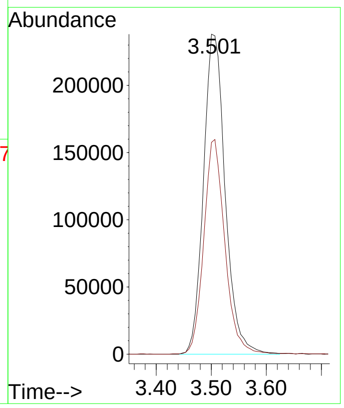
Manual Integrations APPROVED

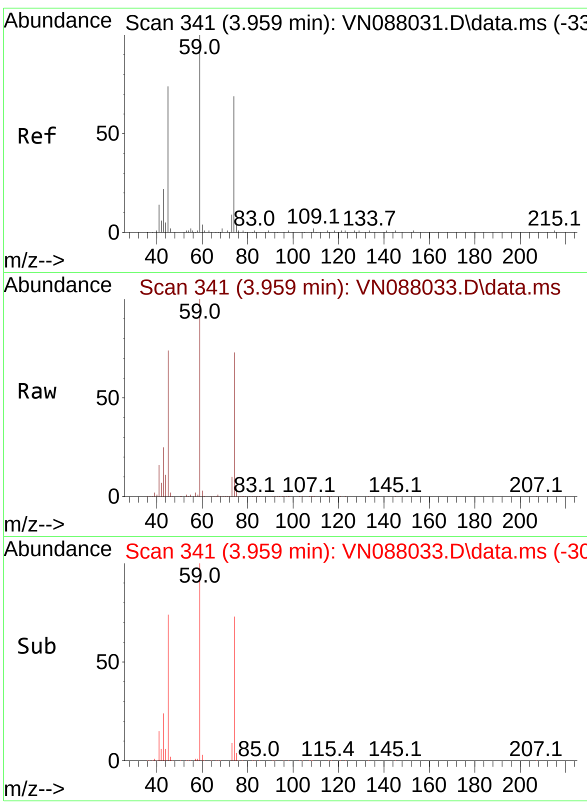
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#7
Trichlorofluoromethane
Concen: 105.071 ug/l
RT: 3.501 min Scan# 2(
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

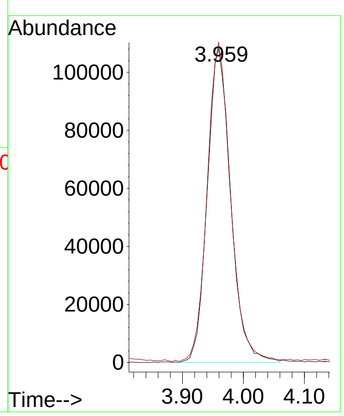
Tgt Ion:101 Resp: 65425
Ion Ratio Lower Upper
101 100
103 66.1 51.0 76.4



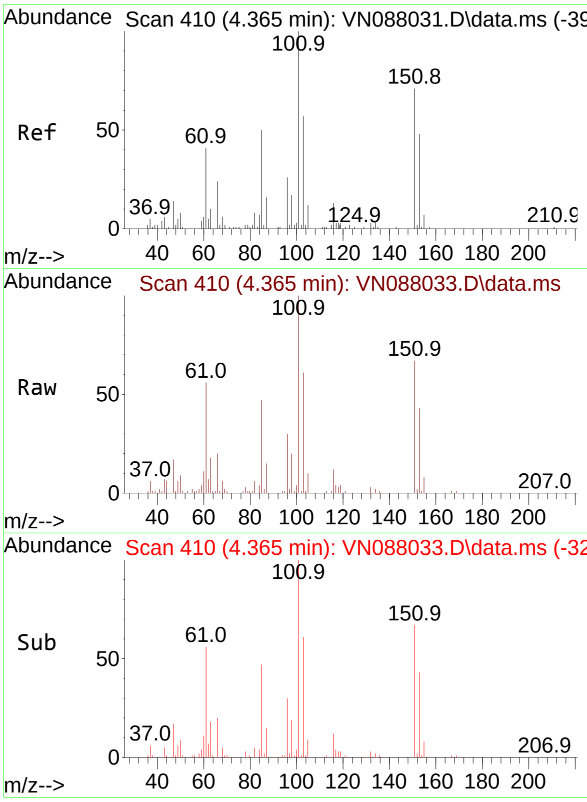


#8
Diethyl Ether
Concen: 103.221 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 74 Resp: 290416
Ion Ratio Lower Upper
74 100
45 100.7 20.4 183.8



ICAL Form



#9
1,1,2-Trichlorotrifluoroethane
Concen: 105.345 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

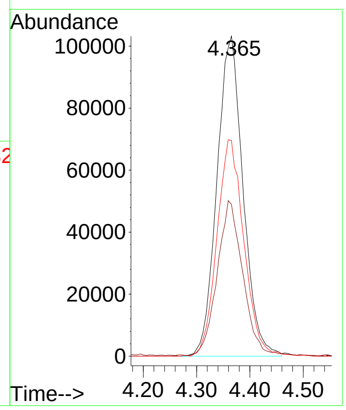
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

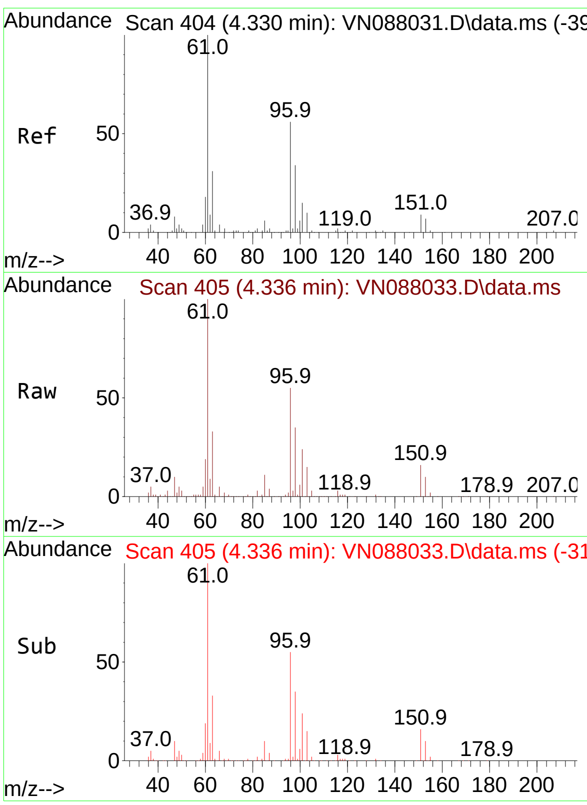
Tgt Ion:101 Resp: 35114

Ion	Ratio	Lower	Upper
101	100		
85	47.8	0.0	103.2
151	69.1	0.0	141.4

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

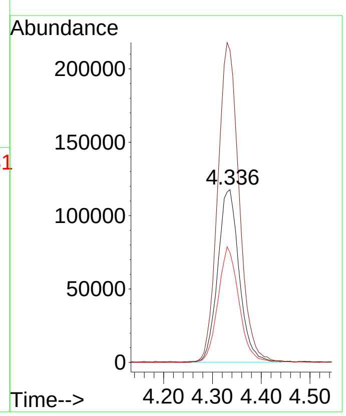




#10
1,1-Dichloroethene
Concen: 100.983 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 96 Resp: 359076

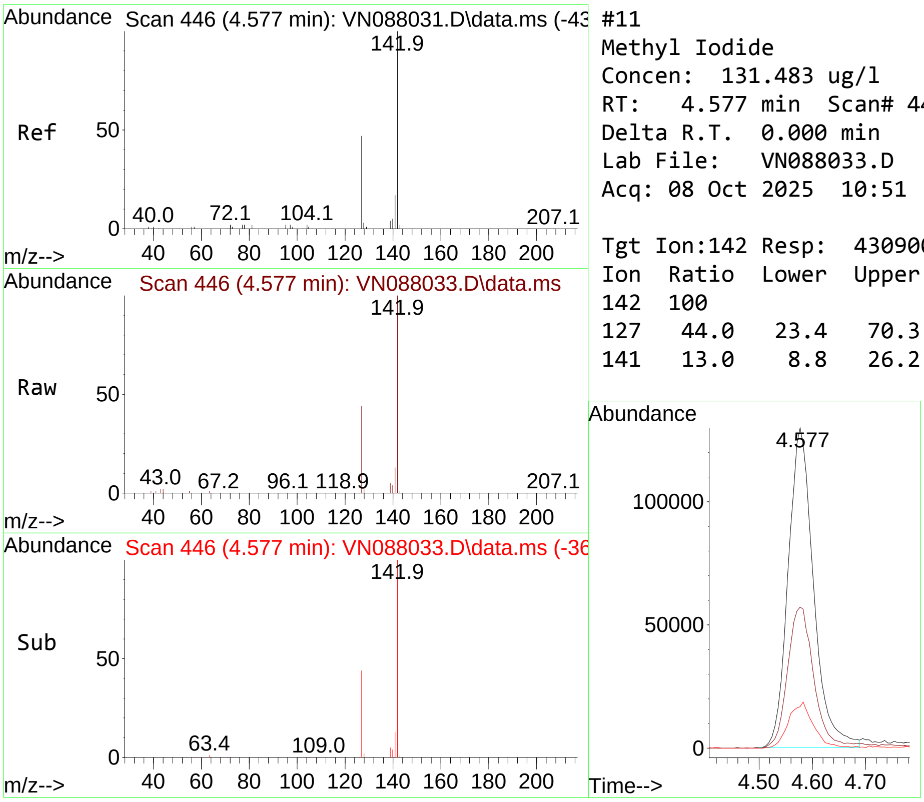
Ion	Ratio	Lower	Upper
96	100		
61	181.1	144.1	216.1
98	63.5	49.0	73.6



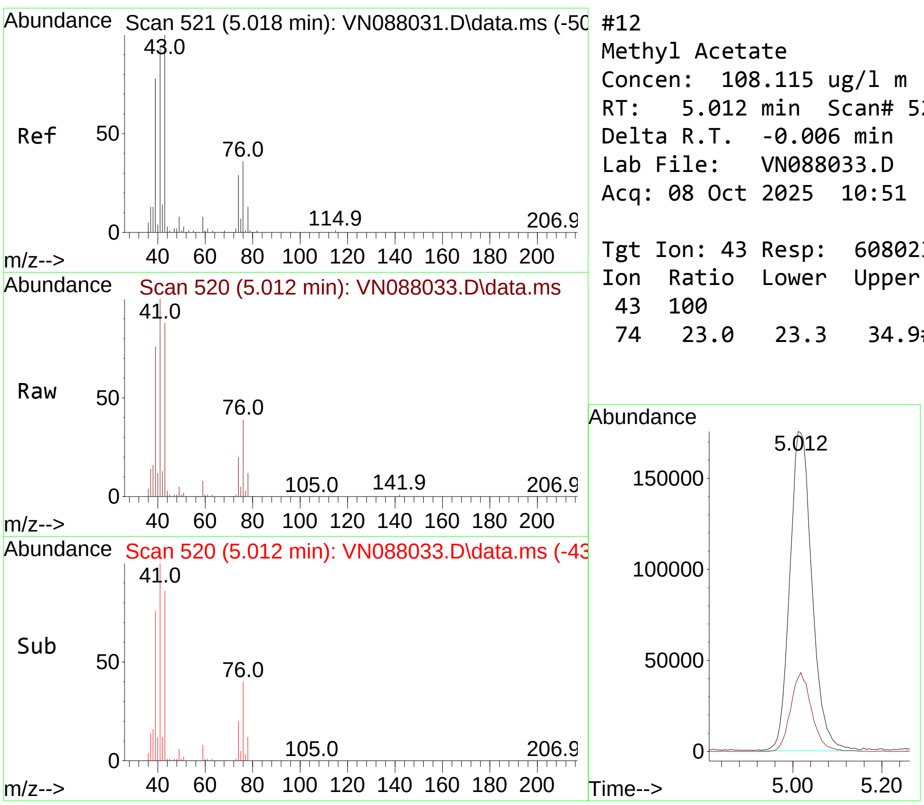
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

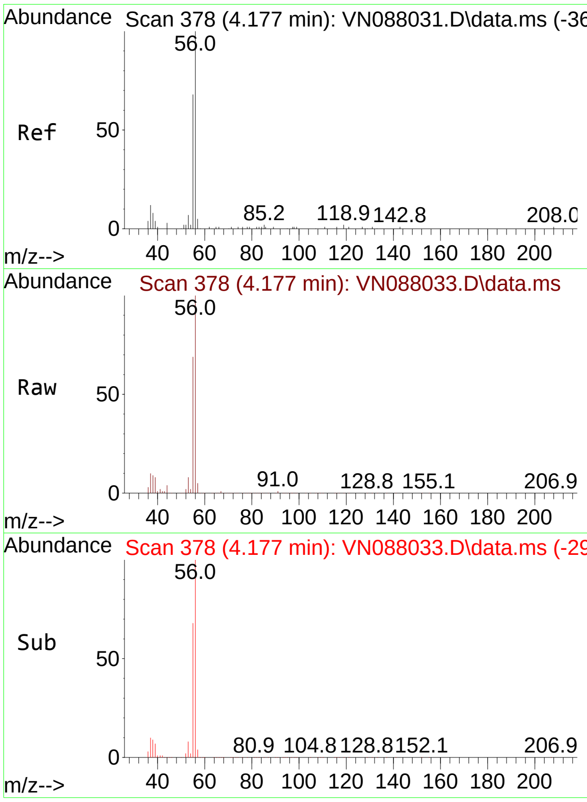



```
#11
Methyl Iodide
Concen:  131.483 ug/l
RT:   4.577 min  Scan# 44
Delta R.T.  0.000 min
Lab File:   VN088033.D
Acq: 08 Oct 2025  10:51

Tgt Ion:142 Resp:  430900
Ion  Ratio  Lower  Upper
142  100
127   44.0   23.4   70.3
141   13.0    8.8   26.2
```




```
#12
Methyl Acetate
Concen:  108.115 ug/l m
RT:   5.012 min  Scan# 520
Delta R.T.  -0.006 min
Lab File:   VN088033.D
Acq: 08 Oct 2025  10:51

Tgt Ion: 43 Resp:  608023
Ion  Ratio  Lower  Upper
 43  100
 74   23.0   23.3   34.9#
```

ICAL Form



#13
Acrolein
Concen: 518.261 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

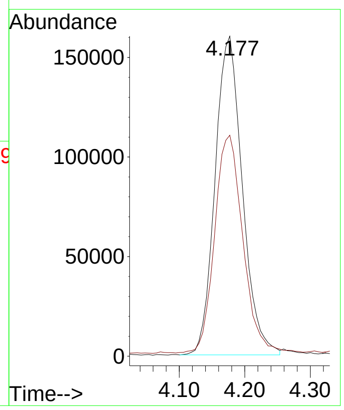
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

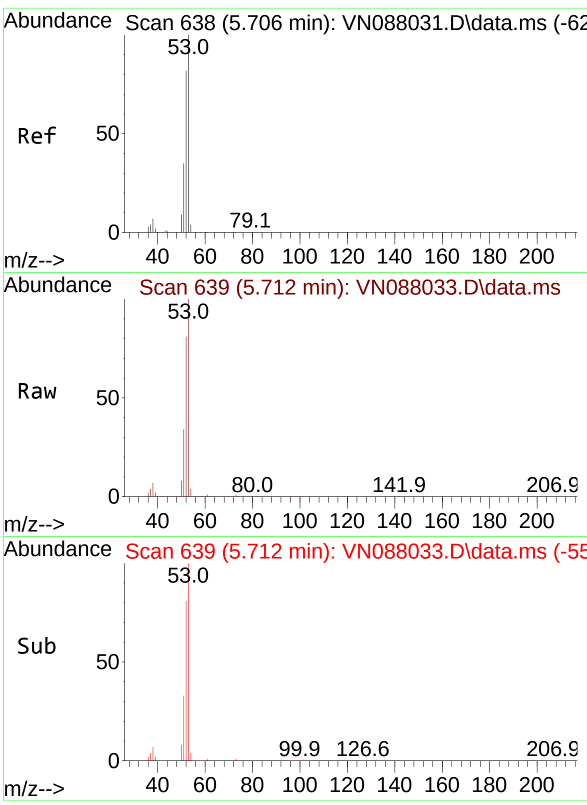
Tgt Ion: 56 Resp: 46361

Ion	Ratio	Lower	Upper
56	100		
55	70.2	0.3	0.5

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

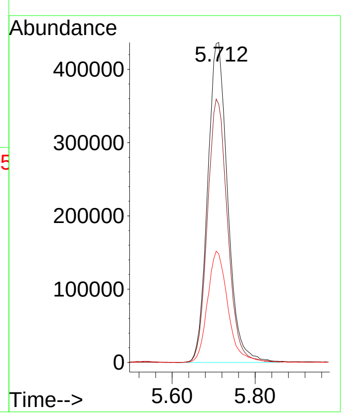


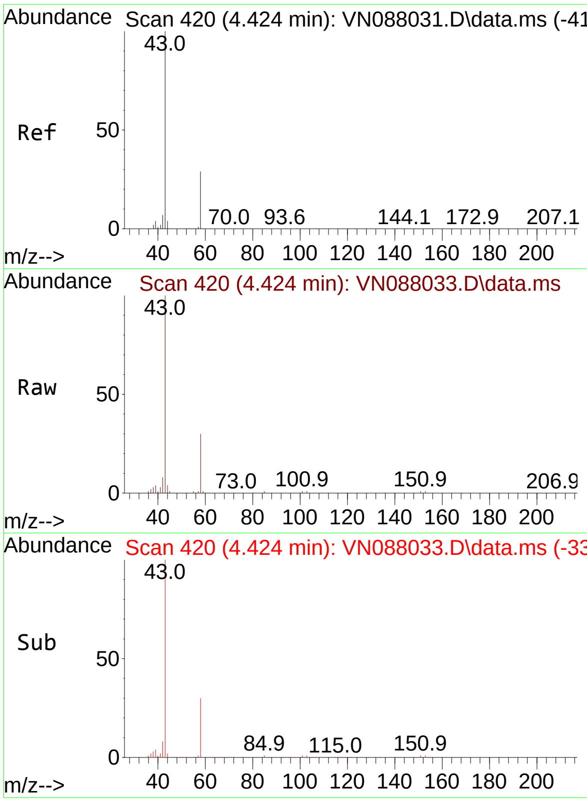


#14
Acrylonitrile
Concen: 525.879 ug/l
RT: 5.712 min Scan# 639
Delta R.T. 0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 53 Resp: 1467014

Ion	Ratio	Lower	Upper
53	100		
52	82.1	41.3	124.1
51	35.2	18.0	54.0





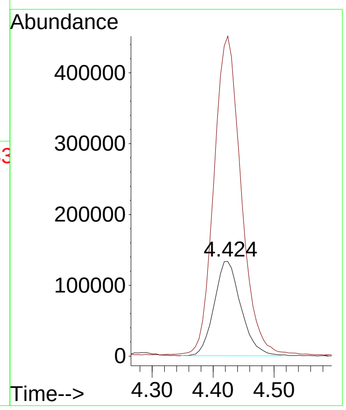
#15
Acetone
Concen: 497.406 ug/l
RT: 4.424 min Scan# 42
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

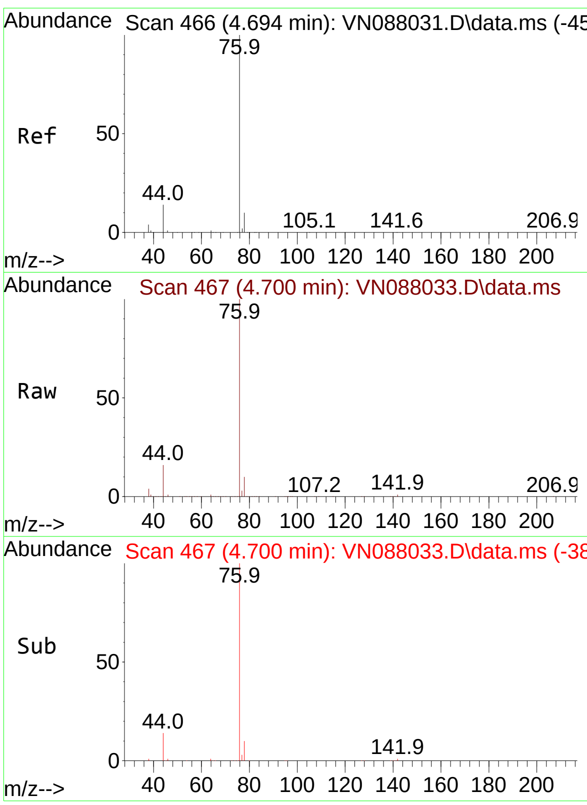
Tgt Ion: 58 Resp: 407619
Ion Ratio Lower Upper
58 100
43 337.2 282.6 424.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

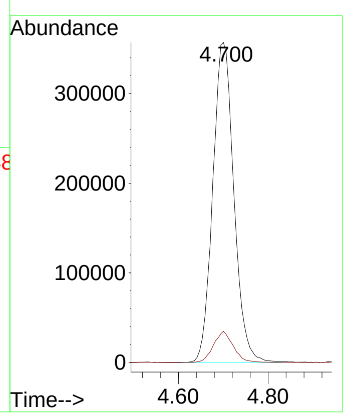
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025





#16
Carbon Disulfide
Concen: 104.606 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

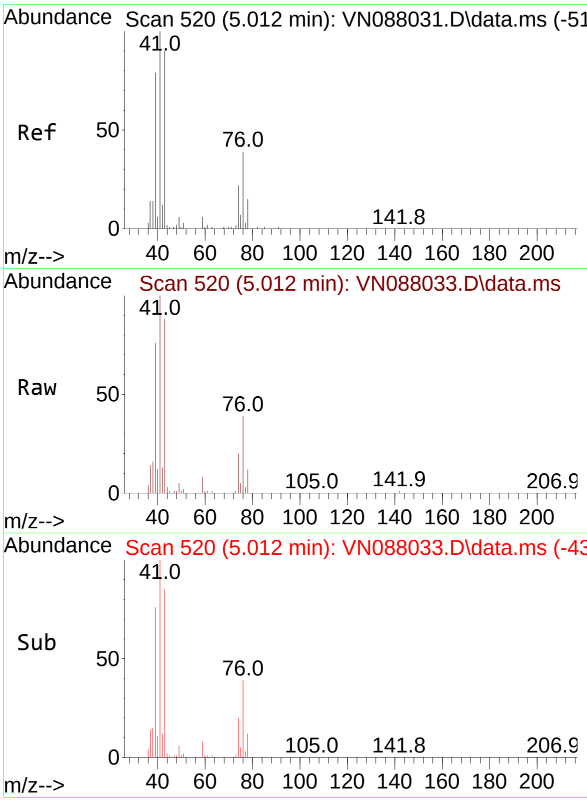
Tgt Ion: 76 Resp: 1166017
Ion Ratio Lower Upper
76 100
78 9.7 7.8 11.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

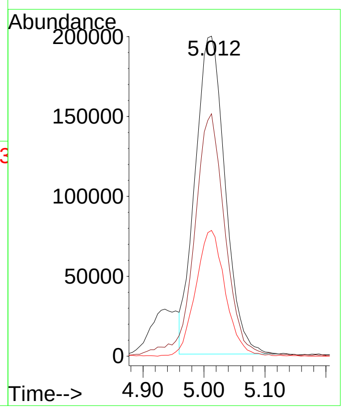
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

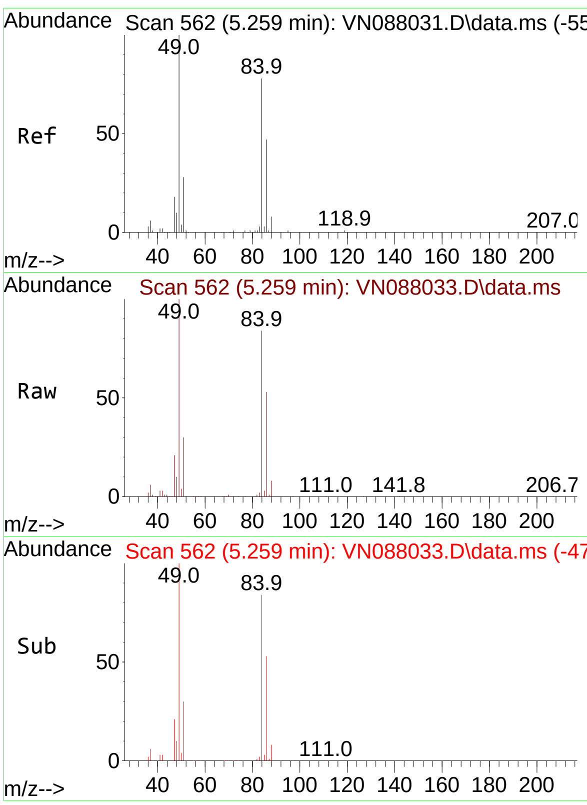


#17
Allyl chloride
Concen: 101.888 ug/l
RT: 5.012 min Scan# 5
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 41 Resp: 68363

Ion	Ratio	Lower	Upper
41	100		
39	75.6	36.4	109.2
76	39.3	18.1	54.1

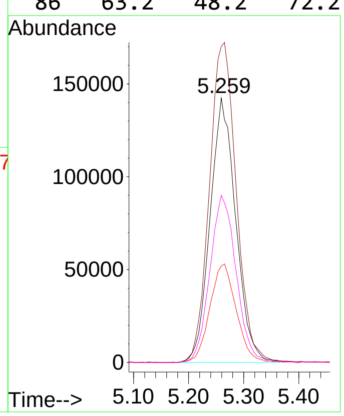


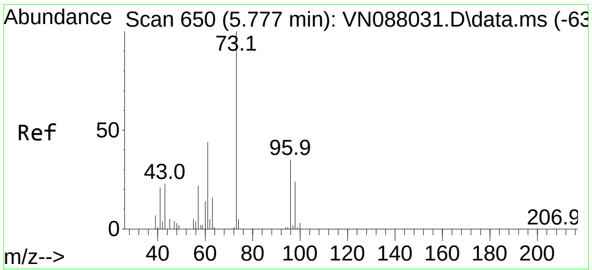


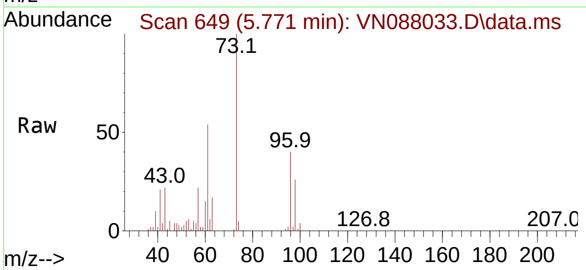
#18
Methylene Chloride
Concen: 102.216 ug/l
RT: 5.259 min Scan# 562
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

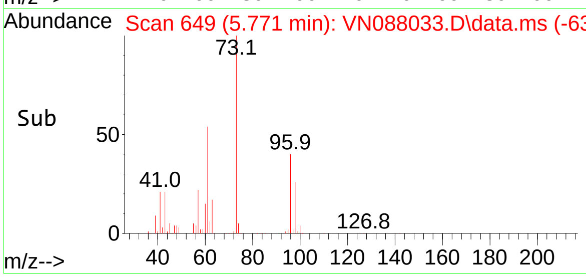
Tgt Ion: 84 Resp: 461958

Ion	Ratio	Lower	Upper
84	100		
49	119.6	102.6	153.8
51	36.2	28.6	42.8
86	63.2	48.2	72.2









#19
trans-1,2-Dichloroethene
Concen: 103.682 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

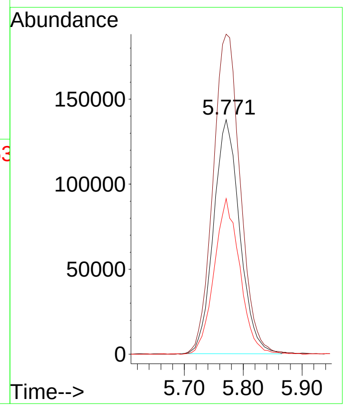
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

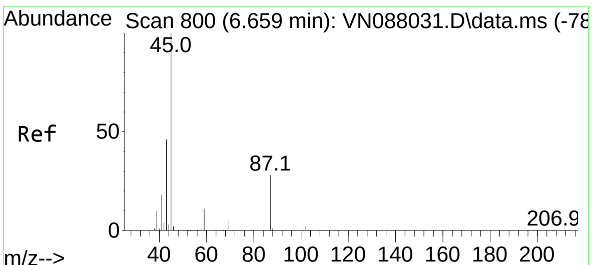
Manual Integrations APPROVED

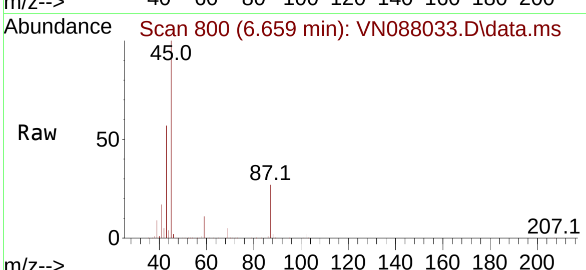
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

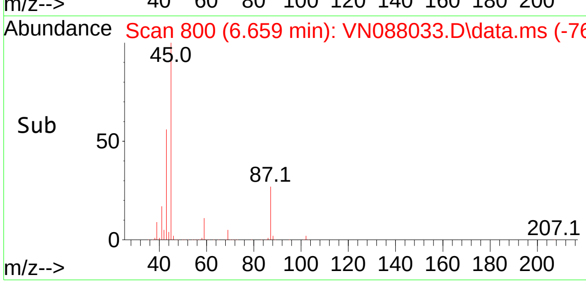
Tgt Ion: 96 Resp: 42625

Ion	Ratio	Lower	Upper
96	100		
61	136.7	100.6	151.0
98	66.5	54.0	81.0





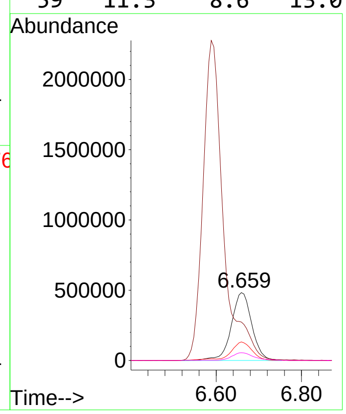


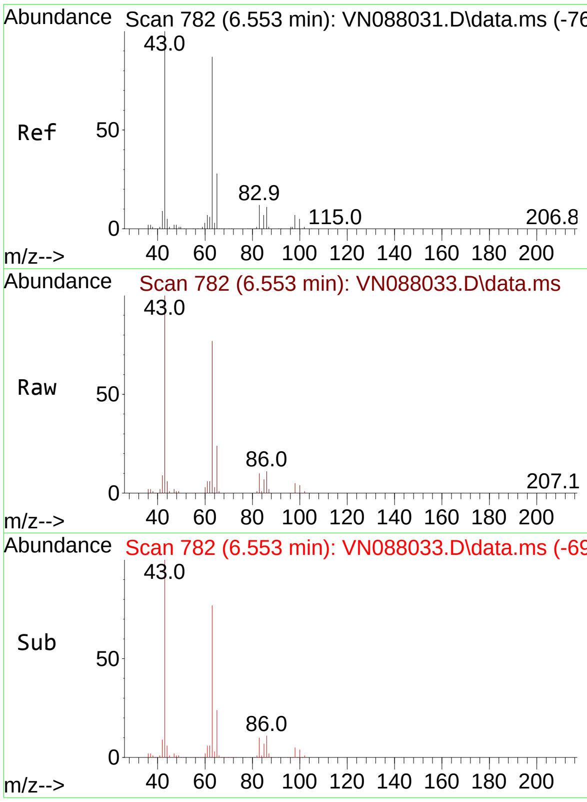


#20
Diisopropyl ether
Concen: 105.793 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 45 Resp: 1616050

Ion	Ratio	Lower	Upper
45	100		
43	56.2	46.1	69.1
87	27.2	22.3	33.5
59	11.3	8.6	13.0

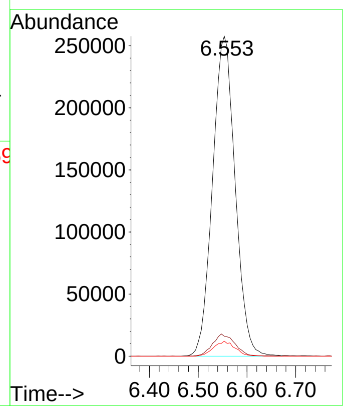




#21
1,1-Dichloroethane
Concen: 104.385 ug/l
RT: 6.553 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 63 Resp: 830085

Ion	Ratio	Lower	Upper
63	100		
98	6.3	4.3	12.8
100	4.7	2.6	8.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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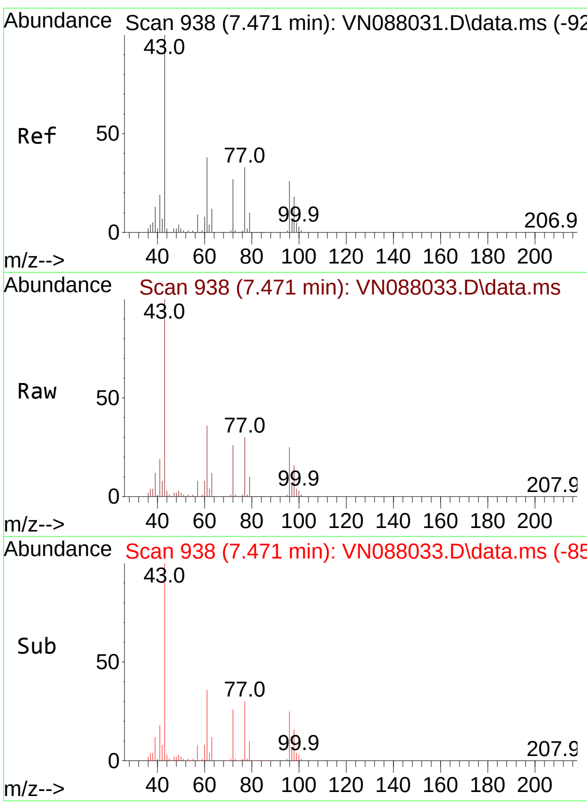
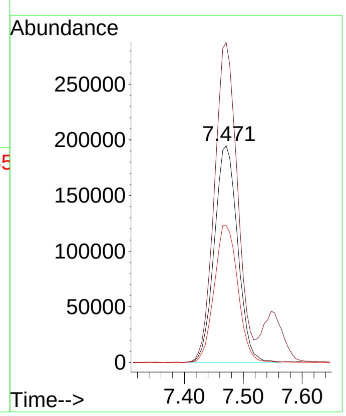


#22
cis-1,2-Dichloroethene
Concen: 104.292 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 96 Resp: 536722

Ion	Ratio	Lower	Upper
96	100		
61	145.2	117.0	175.6
98	64.1	52.6	79.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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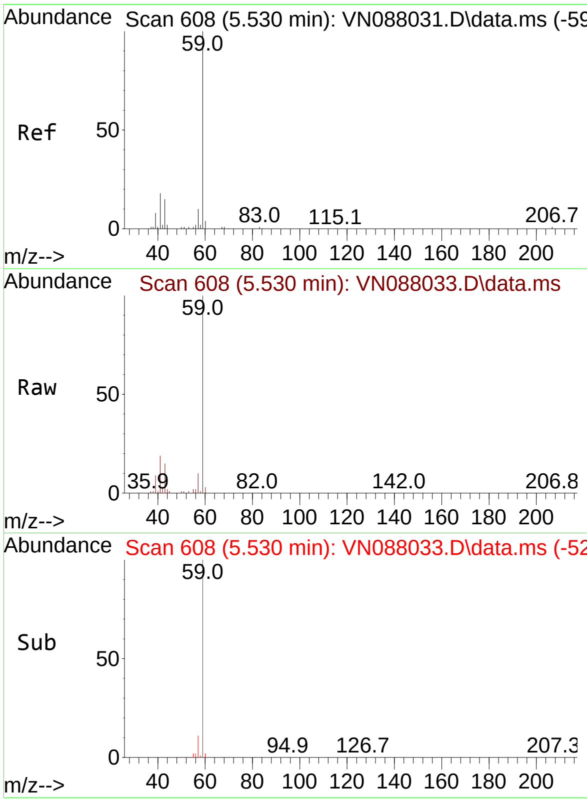
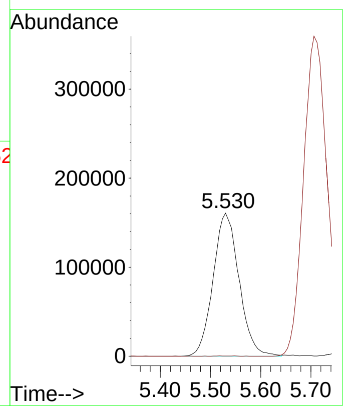
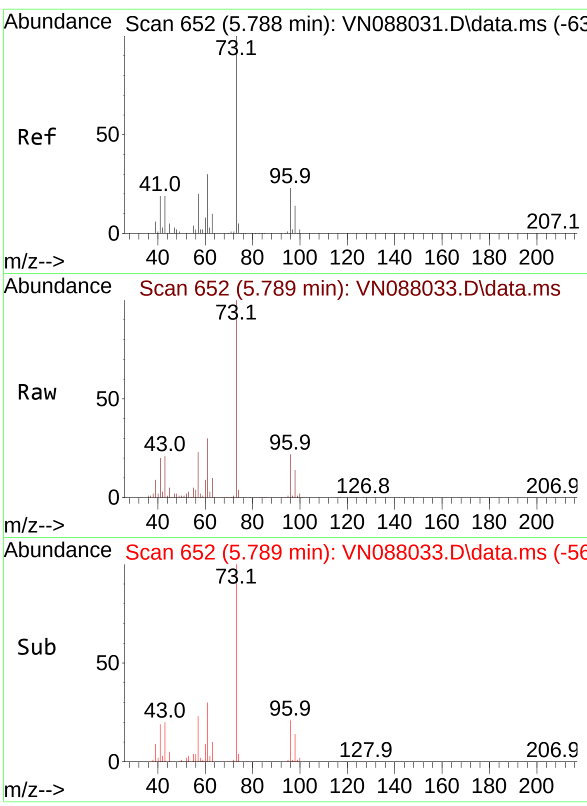


#23
tert-Butyl Alcohol
Concen: 515.047 ug/l
RT: 5.530 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

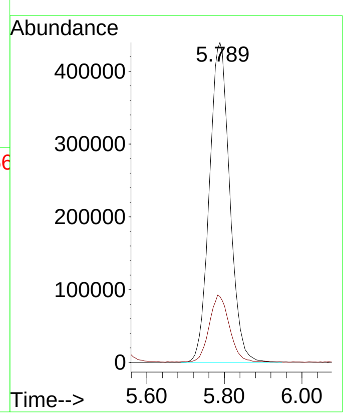
Tgt Ion: 59 Resp: 57624
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0#

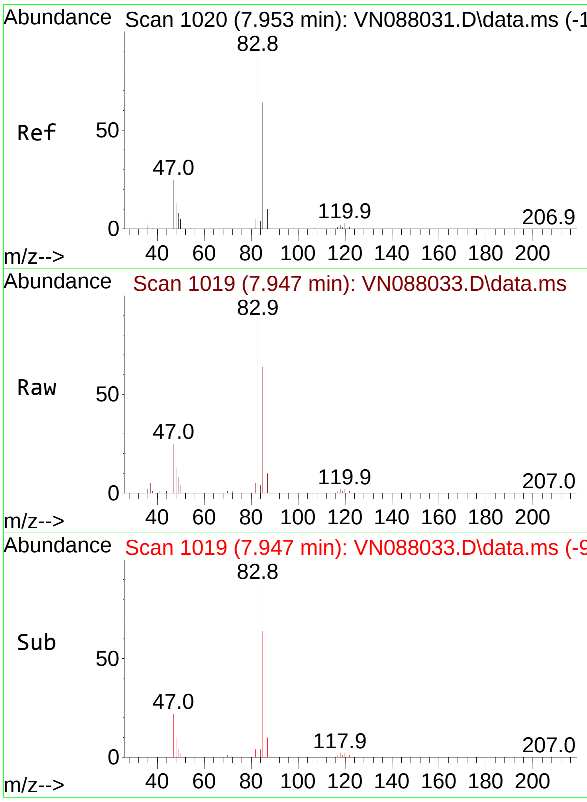




#24
Methyl tert-Butyl Ether
Concen: 104.553 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 73 Resp: 1604709
Ion Ratio Lower Upper
73 100
43 20.3 17.0 25.4





#25
Chloroform
Concen: 102.409 ug/l
RT: 7.947 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 83 Resp: 84039

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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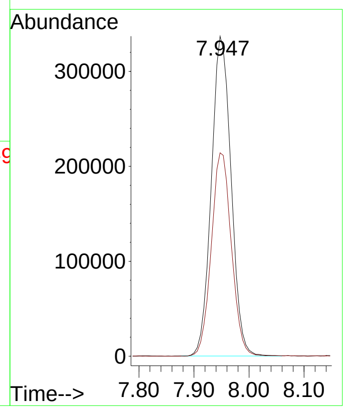
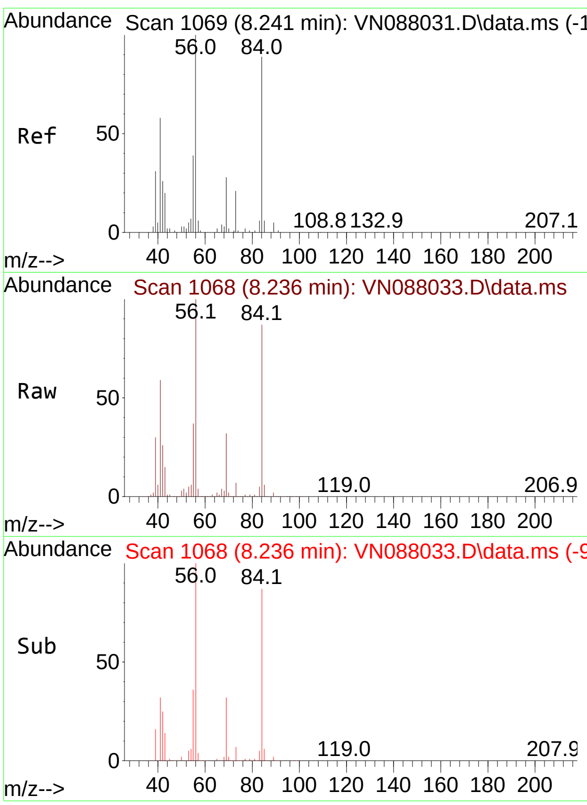
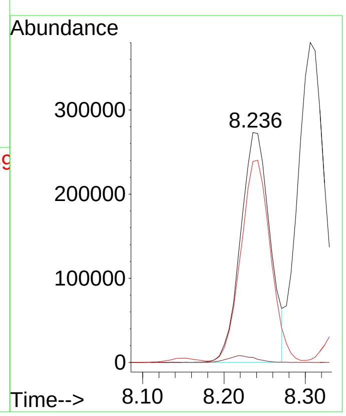




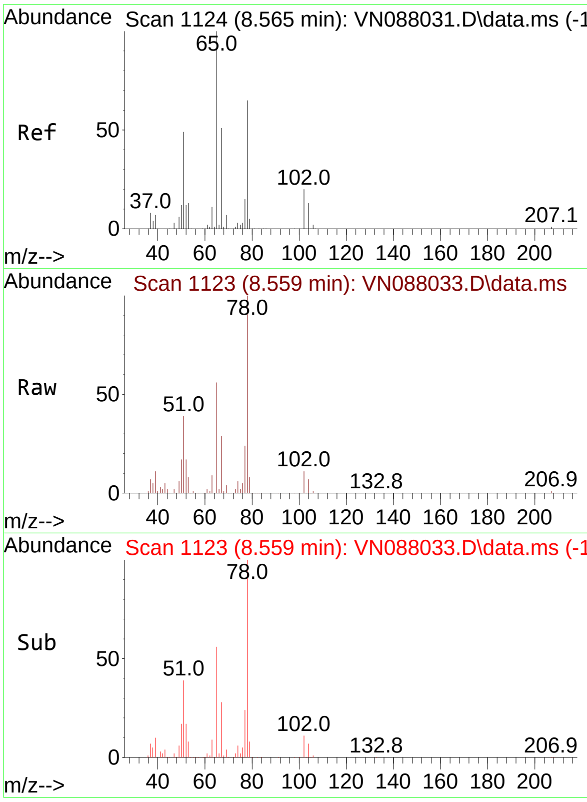
#26
Cyclohexane
Concen: 103.662 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 56 Resp: 682990

Ion	Ratio	Lower	Upper
56	100		
89	2.9	8.6	12.8#
84	90.0	69.6	104.4



ICAL Form



#27
1,2-Dichloroethane-d4
Concen: 30.543 ug/l
RT: 8.559 min   Scan# 1
Delta R.T.   -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025   10:51

Tgt Ion: 65 Resp: 16084

Ion	Ratio	Lower	Upper
65	100		
67	53.7	41.9	62.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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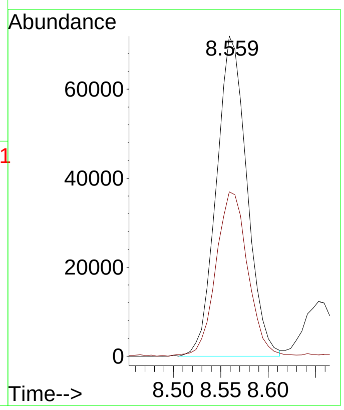
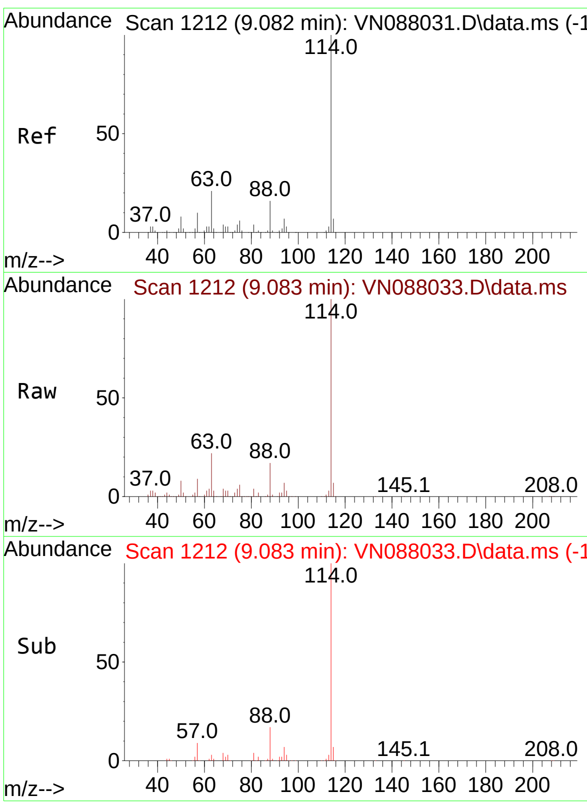
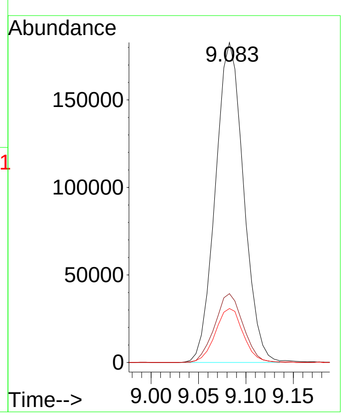




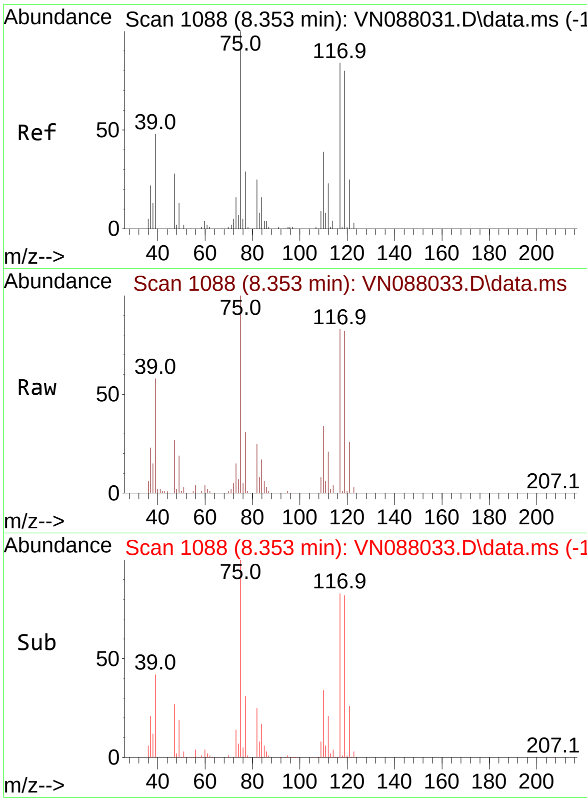
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min   Scan# 1212
Delta R.T.   0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025   10:51

Tgt Ion:114 Resp: 378736

Ion	Ratio	Lower	Upper
114	100		
63	21.5	16.6	25.0
88	16.6	12.6	18.8



ICAL Form



#29
1,1-Dichloropropene
Concen: 105.125 ug/l
RT: 8.353 min   Scan# 1(
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025   10:51

Tgt Ion: 75 Resp: 57070

Ion	Ratio	Lower	Upper
75	100		
110	35.2	0.0	72.2
77	31.2	0.0	60.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
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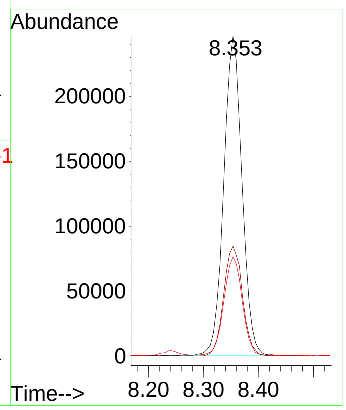
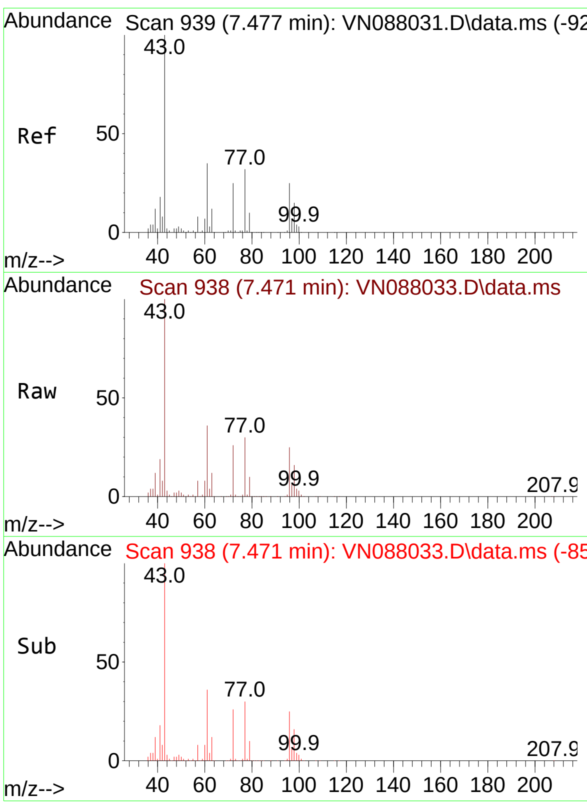
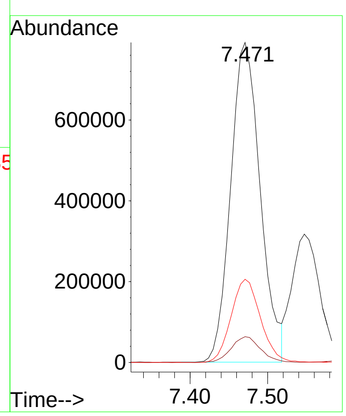


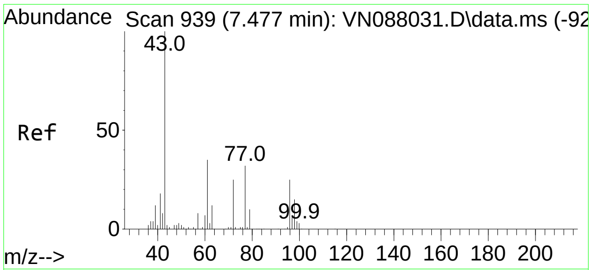


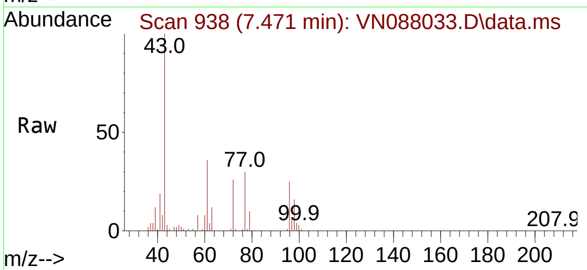
#30
2-Butanone
Concen: 525.556 ug/l
RT: 7.471 min   Scan# 938
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025   10:51

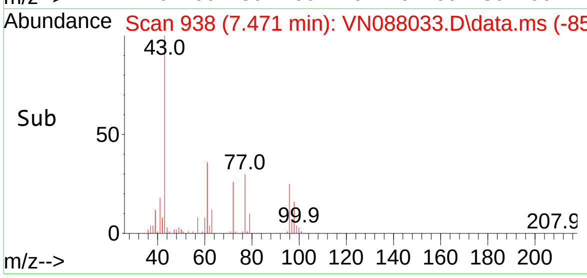
Tgt Ion: 43 Resp: 2104280

Ion	Ratio	Lower	Upper
43	100		
57	8.0	6.5	9.7
72	25.9	21.4	32.2









#31
2,2-Dichloropropane
Concen: 101.828 ug/l
RT: 7.471 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 77 Resp: 71324

Ion	Ratio	Lower	Upper
77	100		
97	22.4	17.8	26.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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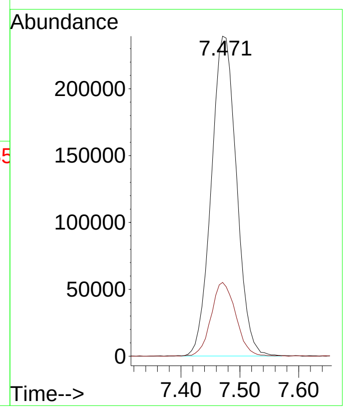
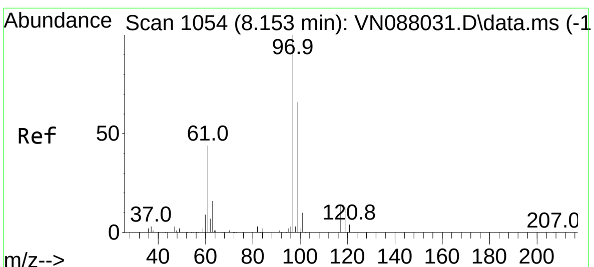
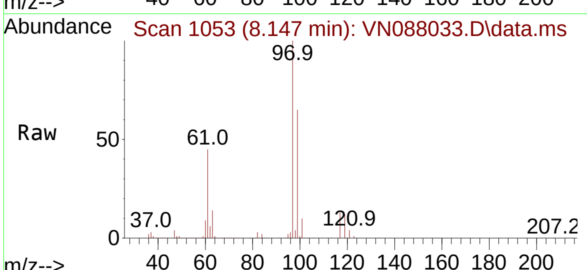
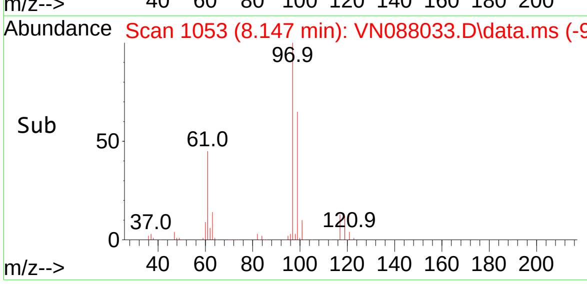




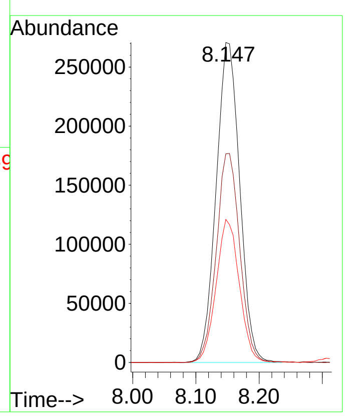


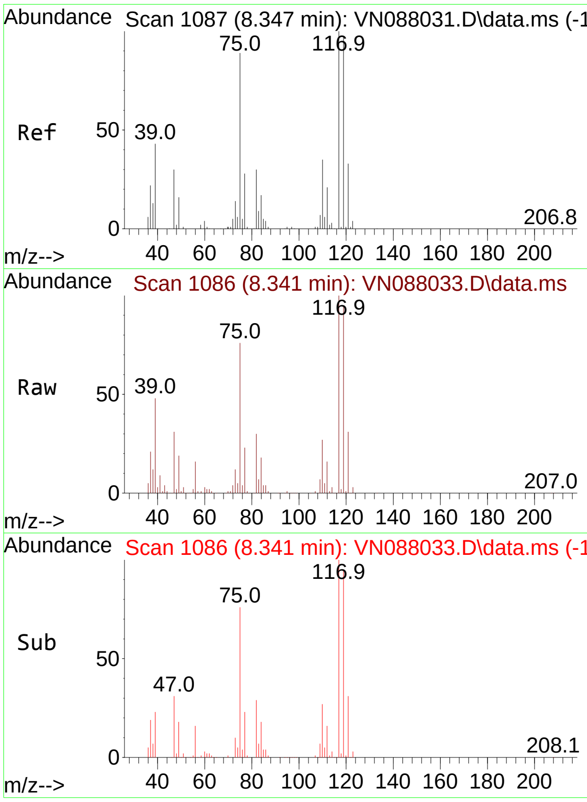


#32
1,1,1-Trichloroethane
Concen: 103.680 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 97 Resp: 703319

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.4	77.2
61	43.9	34.7	52.1

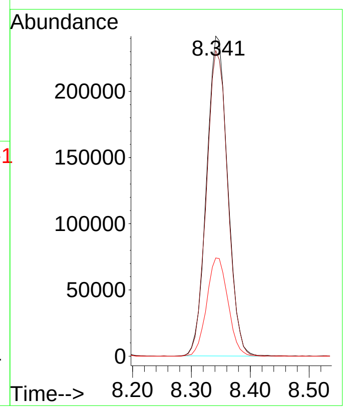




#33
Carbon Tetrachloride
Concen: 105.575 ug/l
RT: 8.341 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:117 Resp: 599874

Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.9	116.9
121	30.7	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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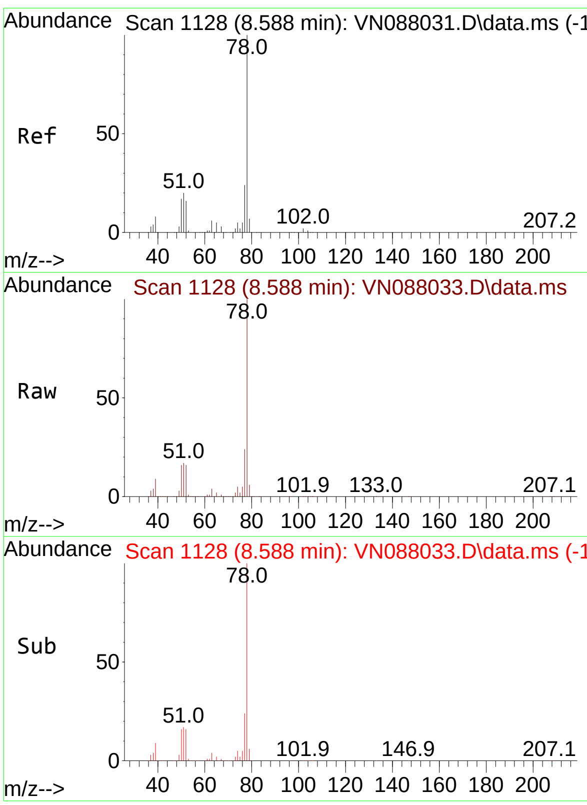
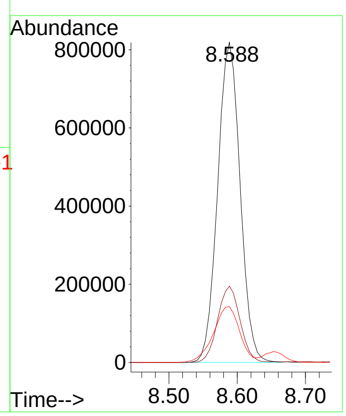
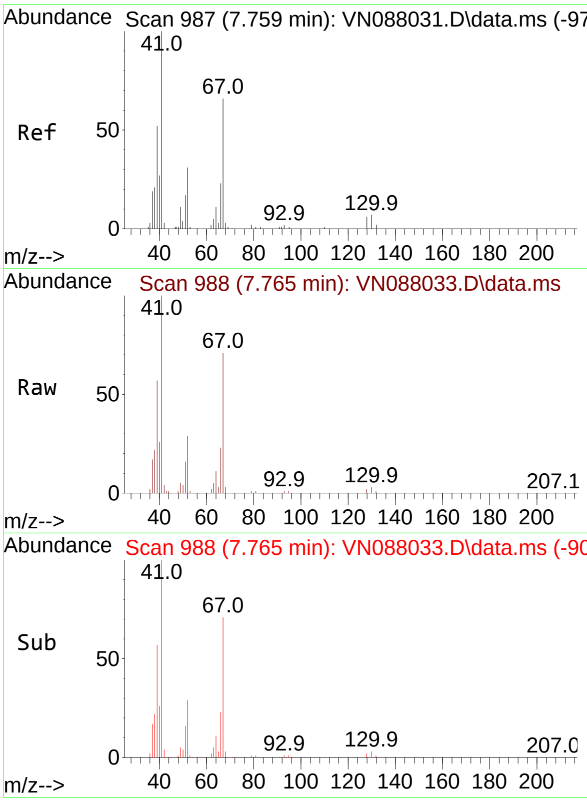


#34
Benzene
Concen: 104.406 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 78 Resp: 1880026

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.9	28.3
51	17.3	15.6	23.4

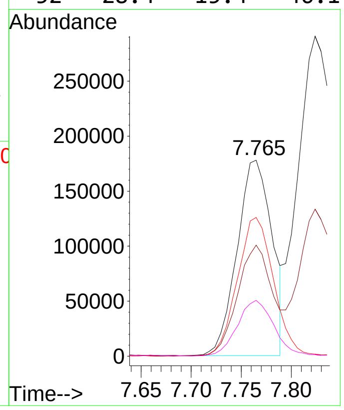




#35
Methacrylonitrile
Concen: 102.726 ug/l
RT: 7.765 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 41 Resp: 43252

Ion	Ratio	Lower	Upper
41	100		
39	56.5	26.1	78.3
67	70.8	33.1	99.2
52	28.4	15.4	46.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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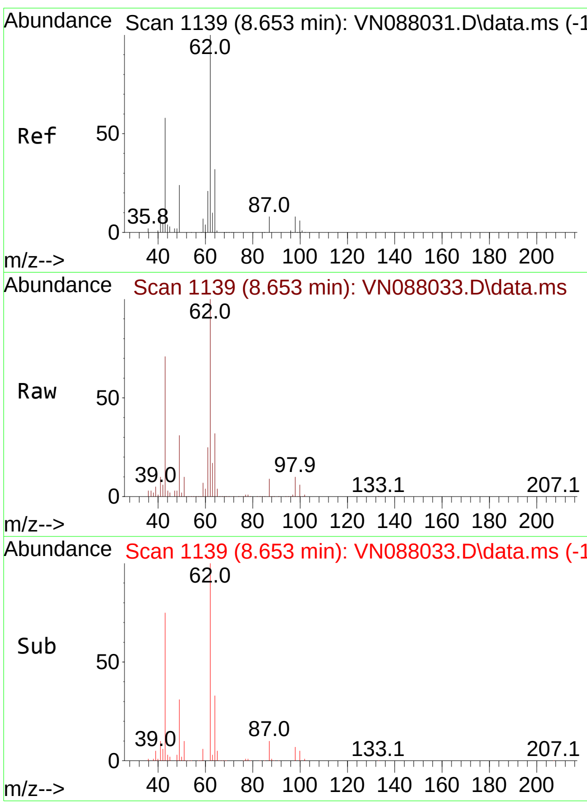
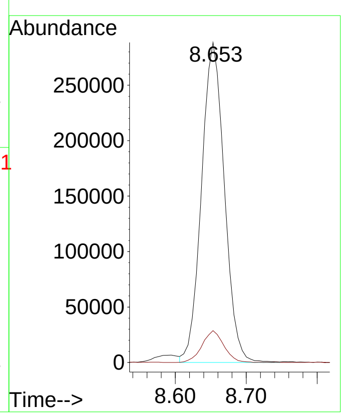
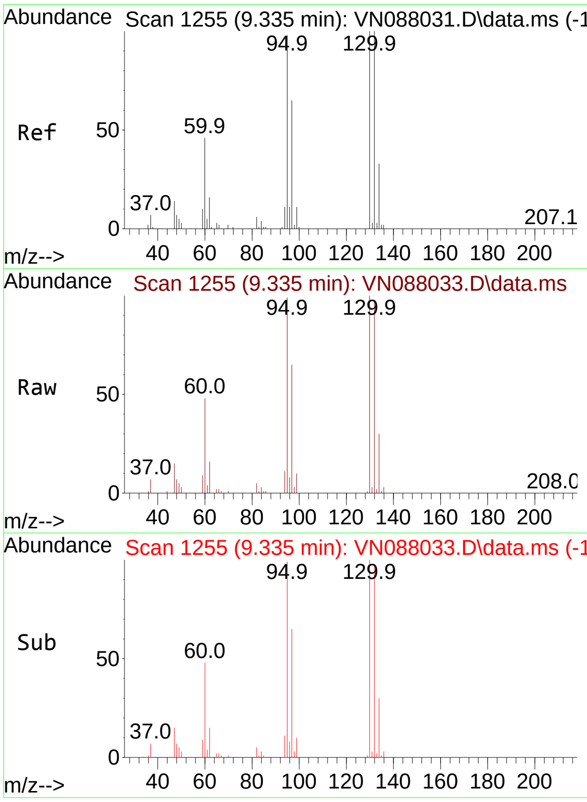


#36
1,2-Dichloroethane
Concen: 103.896 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 62 Resp: 649488

Ion	Ratio	Lower	Upper
62	100		
98	9.4	7.8	11.6





#37
Trichloroethene
Concen: 103.860 ug/l
RT: 9.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:130 Resp: 44309

Ion	Ratio	Lower	Upper
130	100		
95	98.5	78.7	118.1

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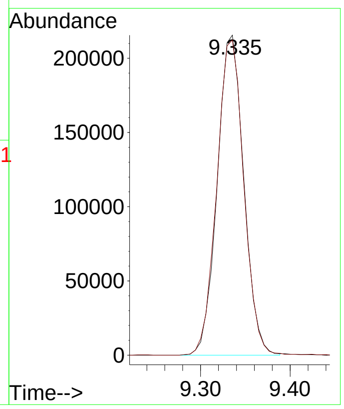
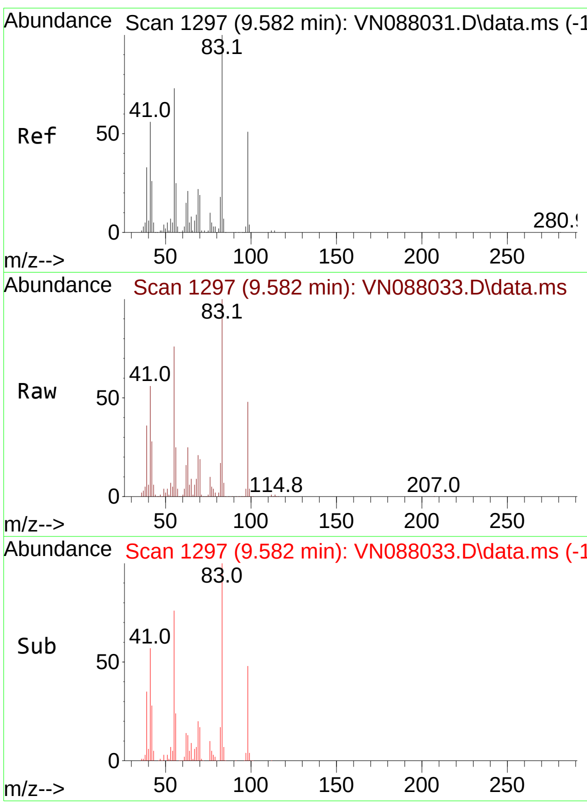
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

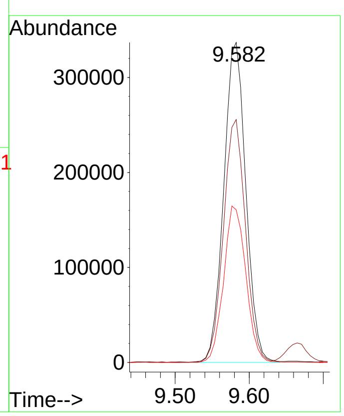


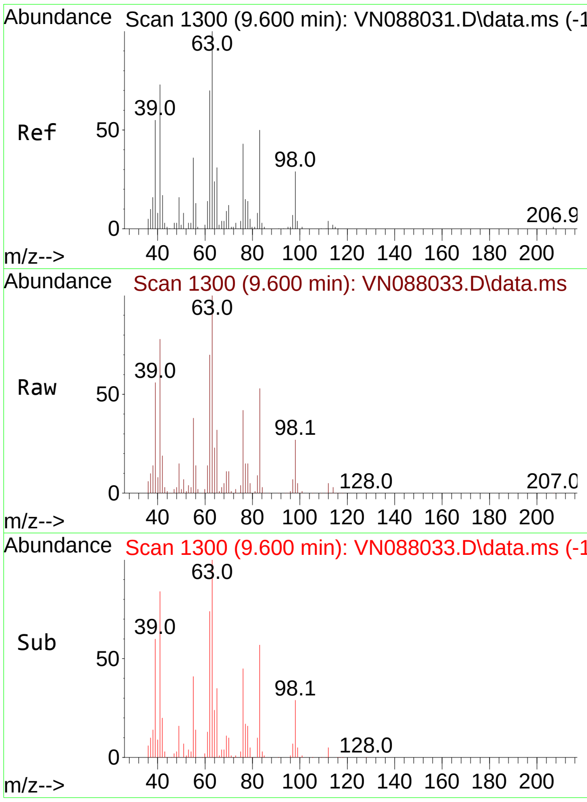


#38
Methylcyclohexane
Concen: 104.502 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 83 Resp: 700603

Ion	Ratio	Lower	Upper
83	100		
55	75.5	37.3	111.9
98	49.2	25.4	76.0





#39
1,2-Dichloropropane
Concen: 104.780 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

Tgt Ion: 63 Resp: 473091

Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.0	37.6

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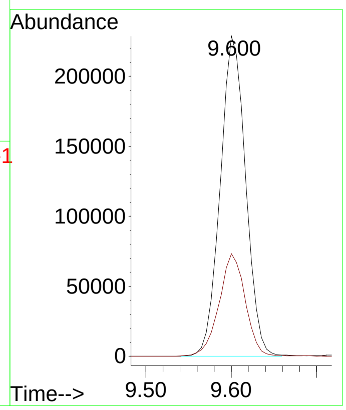
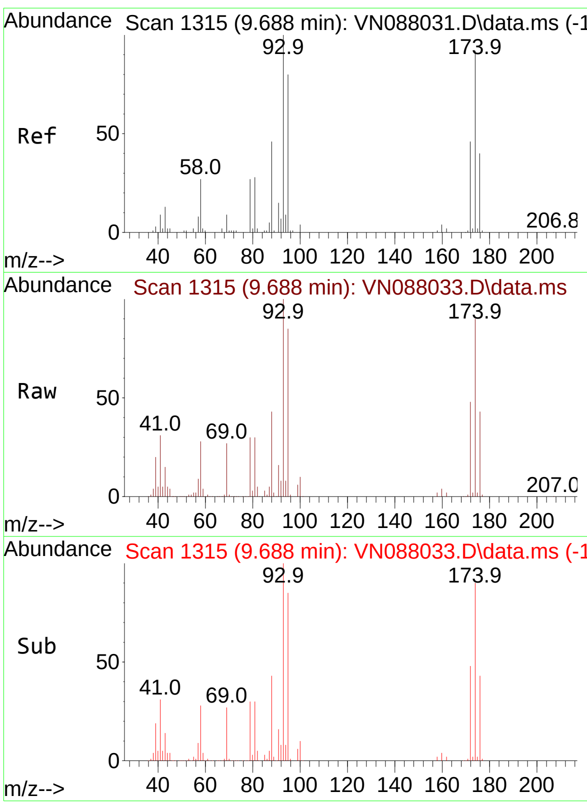
Supervised By :Mahesh Dadoda 10/10/2025

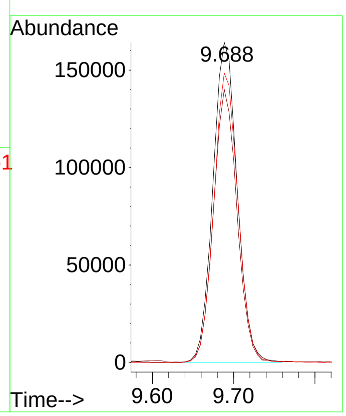




#40
Dibromomethane
Concen: 104.205 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 93 Resp: 342480

Ion	Ratio	Lower	Upper
93	100		
95	83.5	0.0	158.6
174	89.8	0.0	180.8



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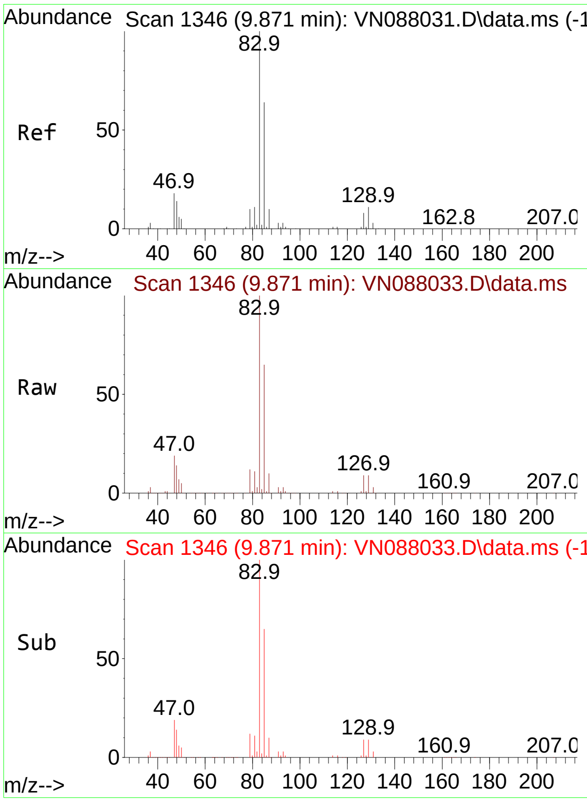
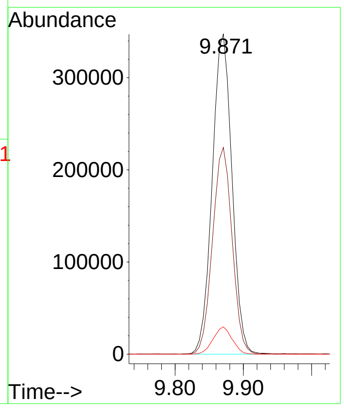


#41
Bromodichloromethane
Concen: 104.491 ug/l
RT: 9.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 83 Resp: 70139

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.0	76.4
127	8.6	6.1	9.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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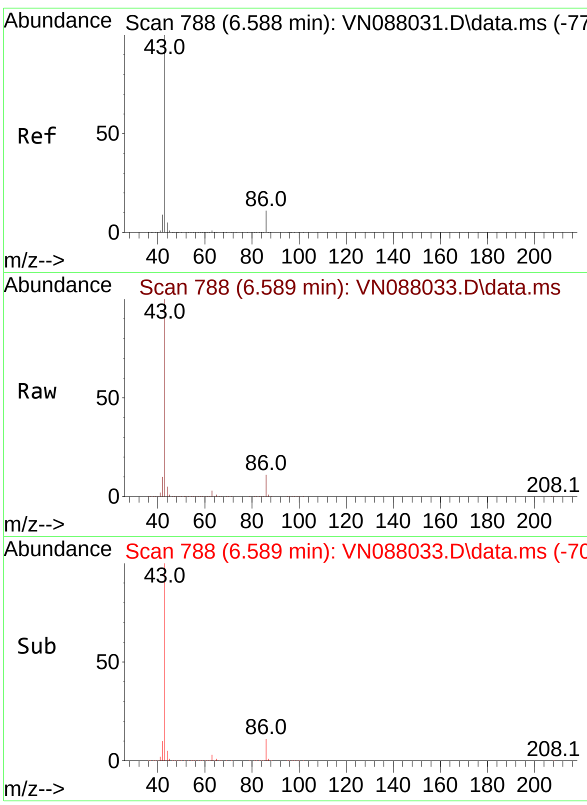
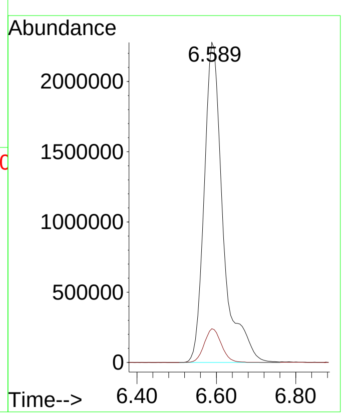
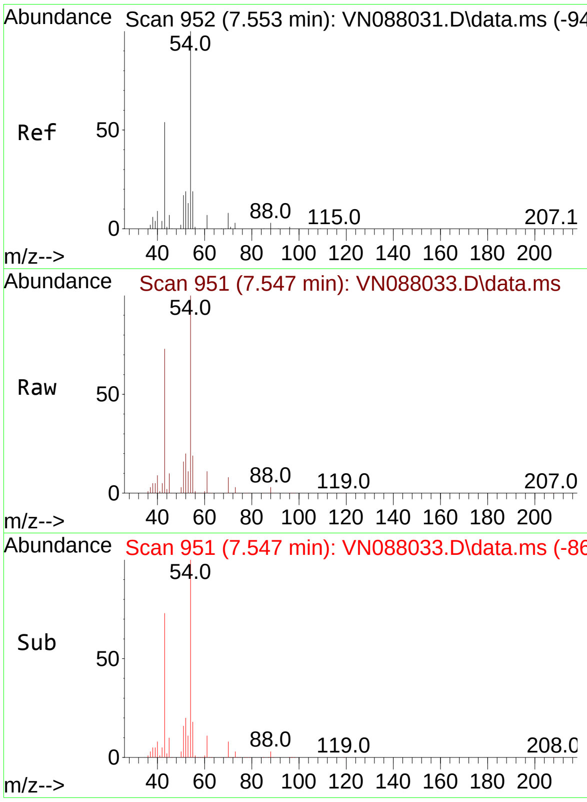


#42
Vinyl Acetate
Concen: 553.092 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 43 Resp: 7544223

Ion	Ratio	Lower	Upper
43	100		
86	9.5	8.4	12.6





#43
Ethyl Acetate
Concen: 107.065 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 82404

Ion	Ratio	Lower	Upper
43	100		
45	14.2	10.2	15.4

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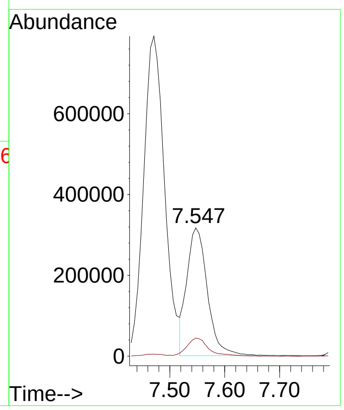
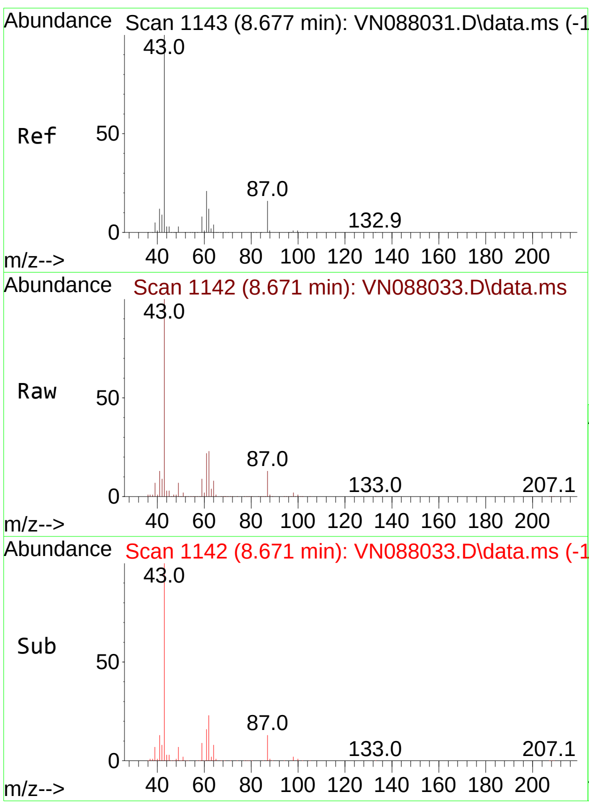
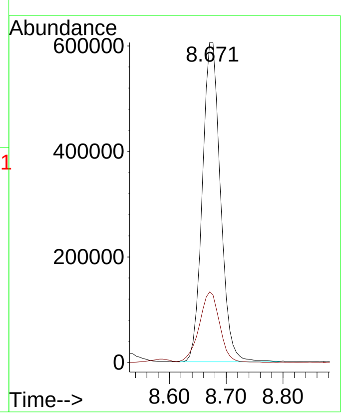




#44
Isopropyl Acetate
Concen: 106.561 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 43 Resp: 1339571

Ion	Ratio	Lower	Upper
43	100		
61	24.6	18.7	28.1



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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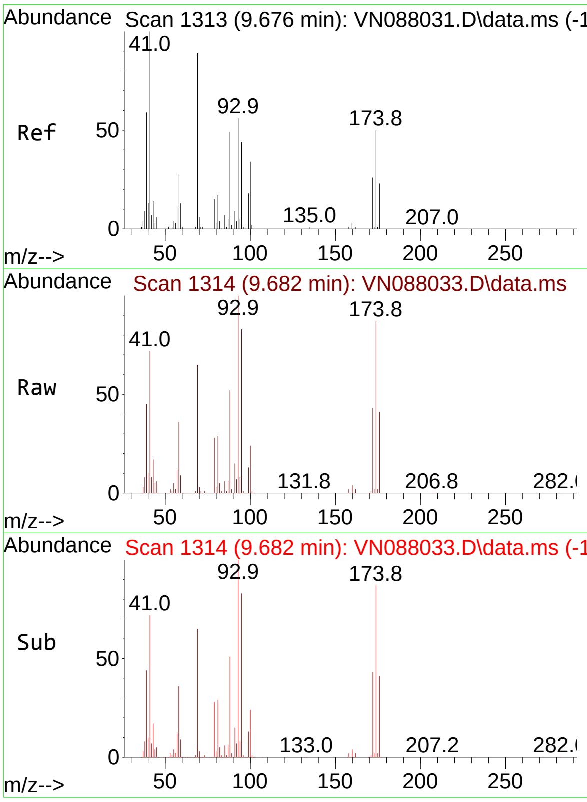
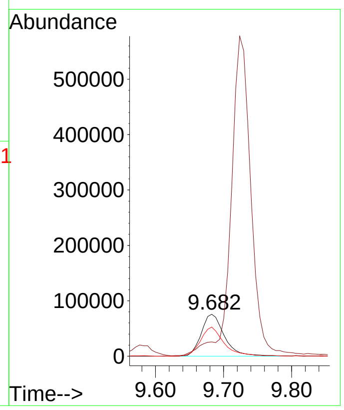
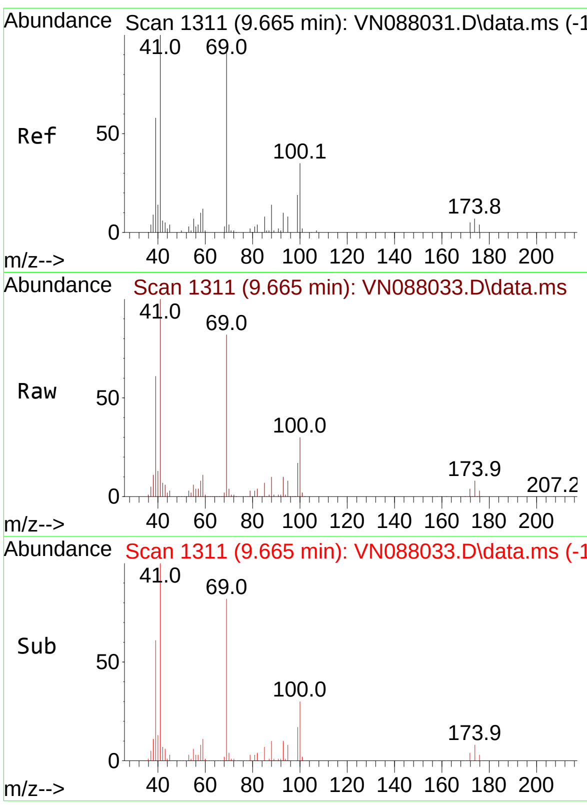


#45
1,4-Dioxane
Concen: 2135.793 ug/l
RT: 9.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 88 Resp: 17856

Ion	Ratio	Lower	Upper
88	100		
43	27.5	18.6	27.8
58	70.0	57.4	86.2

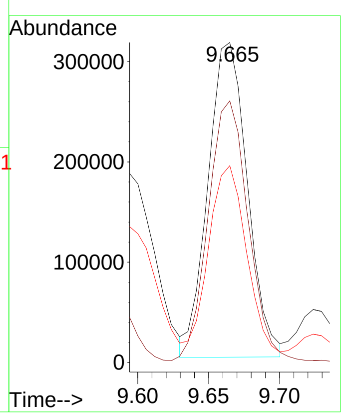




#46
Methyl methacrylate
Concen: 109.554 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 41 Resp: 606493

Ion	Ratio	Lower	Upper
41	100		
69	84.8	44.9	134.7
39	61.8	30.3	90.8



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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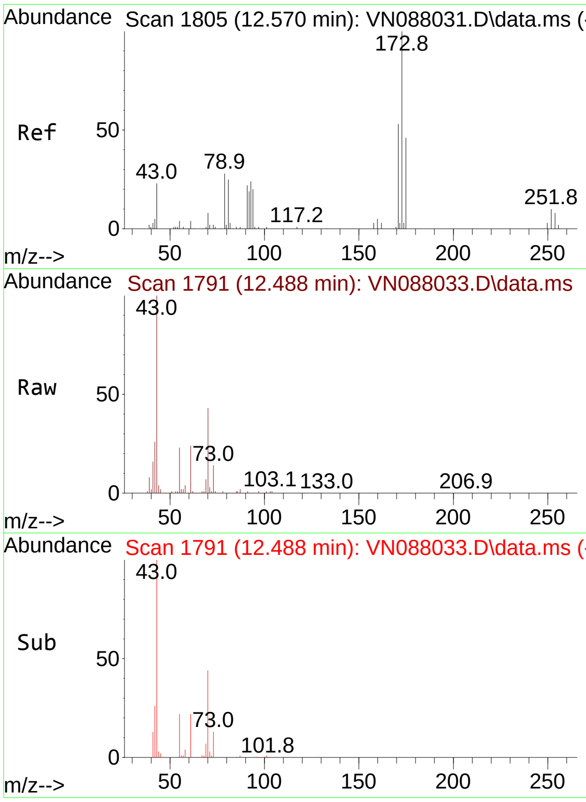
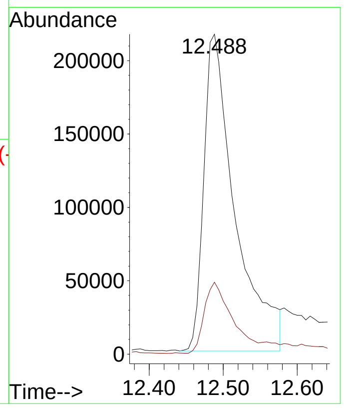
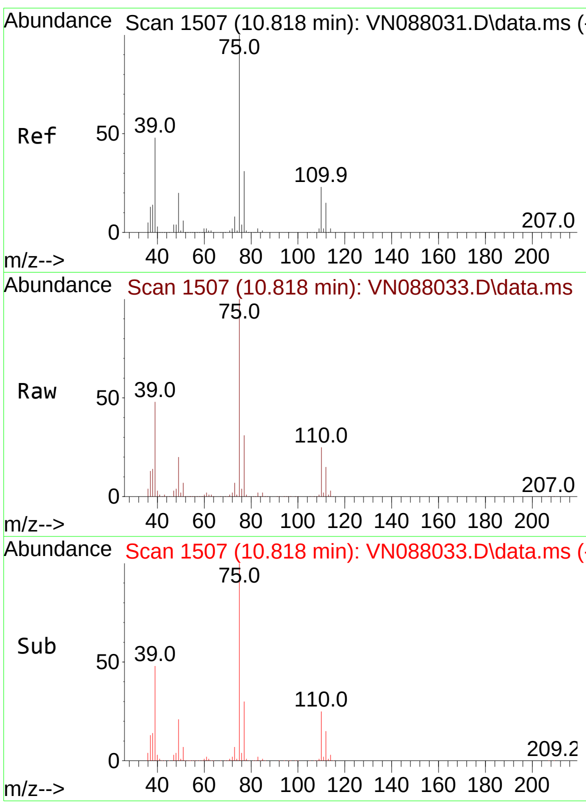


#47
n-amyl Acetate
Concen: 115.116 ug/l
RT: 12.488 min Scan# 1
Delta R.T. -0.082 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 43 Resp: 63585

Ion	Ratio	Lower	Upper
43	100		
55	19.9	0.6	0.8

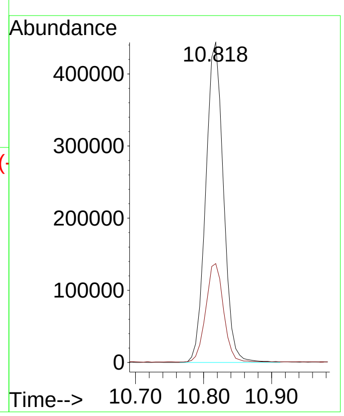




#48
t-1,3-Dichloropropene
Concen: 107.816 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 75 Resp: 804743

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.5	36.7



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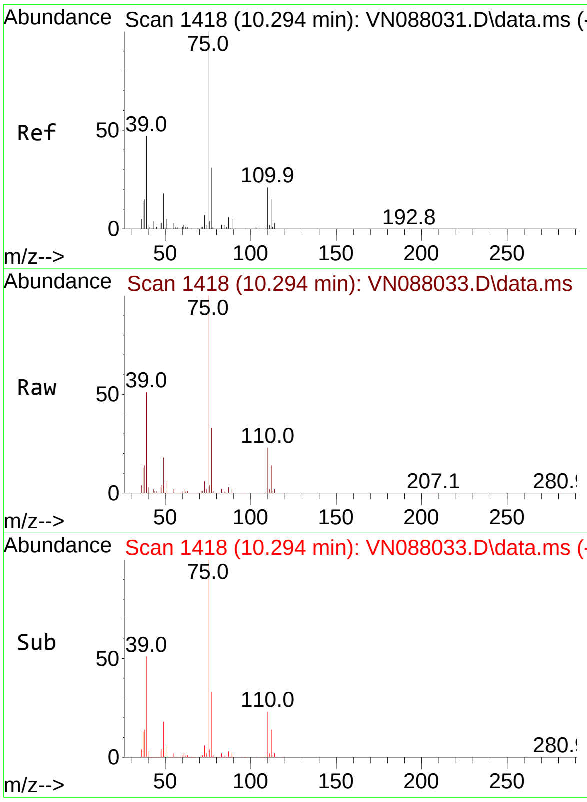
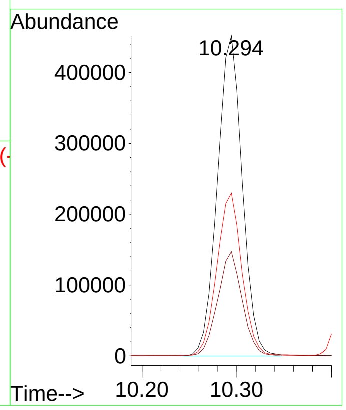


#49
cis-1,3-Dichloropropene
Concen: 106.155 ug/l
RT: 10.294 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 75 Resp: 82651(

Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.0	37.4
39	50.7	37.4	56.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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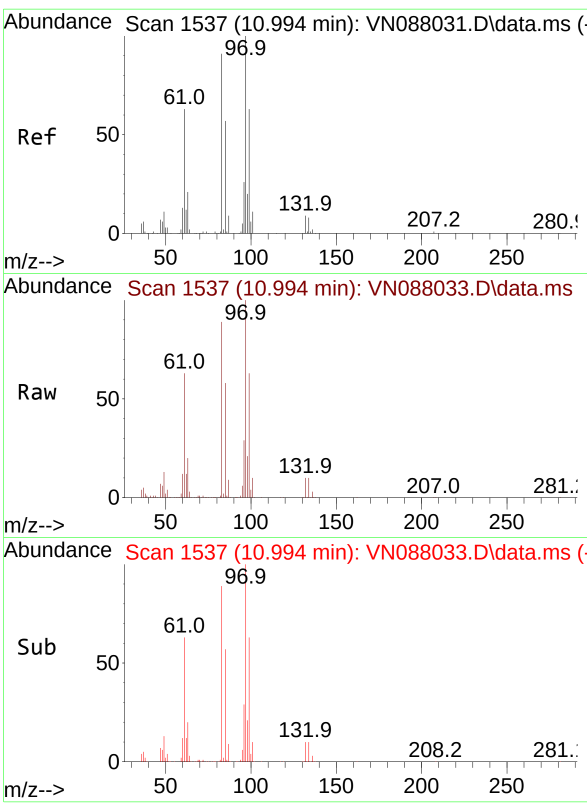
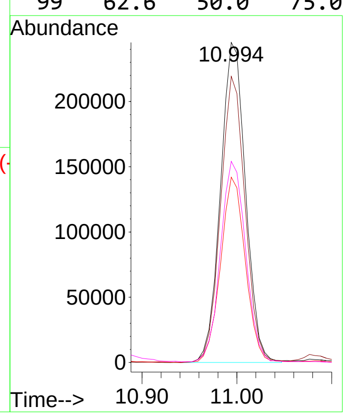
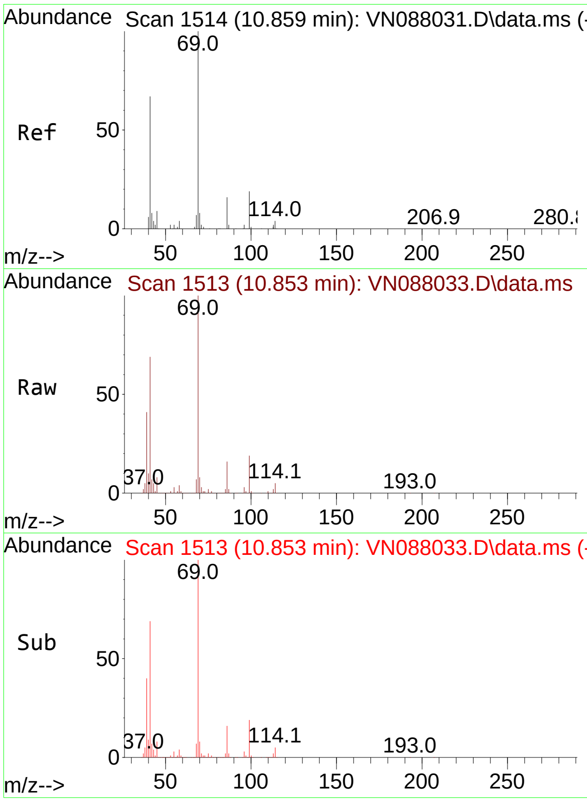


#50
1,1,2-Trichloroethane
Concen: 103.515 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 97 Resp: 450541

Ion	Ratio	Lower	Upper
97	100		
83	89.4	72.5	108.7
85	57.9	45.5	68.3
99	62.6	50.0	75.0





#51
Ethyl methacrylate
Concen: 112.866 ug/l
RT: 10.853 min Scan# 1!
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 69 Resp: 83136

Ion	Ratio	Lower	Upper
69	100		
41	68.7	33.3	99.8
39	40.1	20.3	61.0

Manual Integrations
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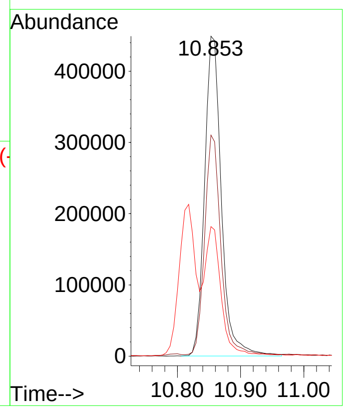
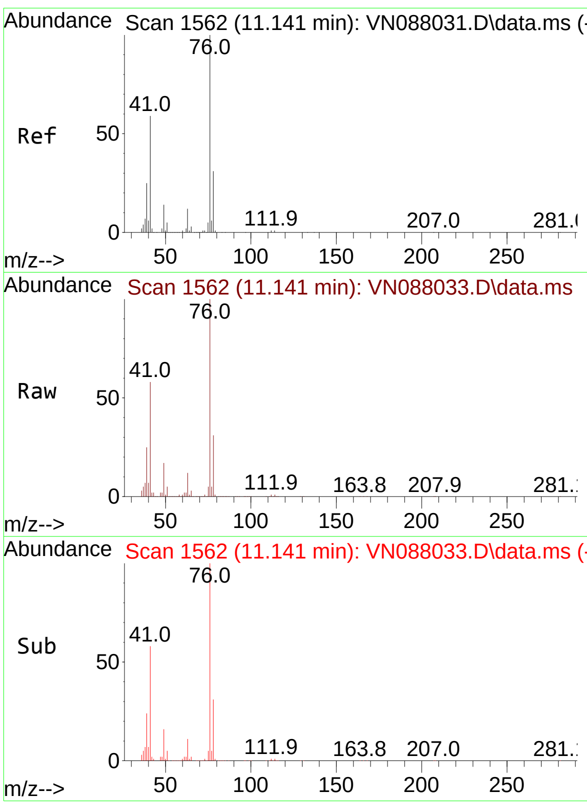
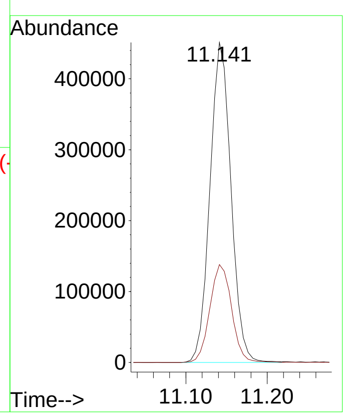




#52
1,3-Dichloropropane
Concen: 106.748 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 76 Resp: 810597

Ion	Ratio	Lower	Upper
76	100		
78	31.6	0.0	65.0



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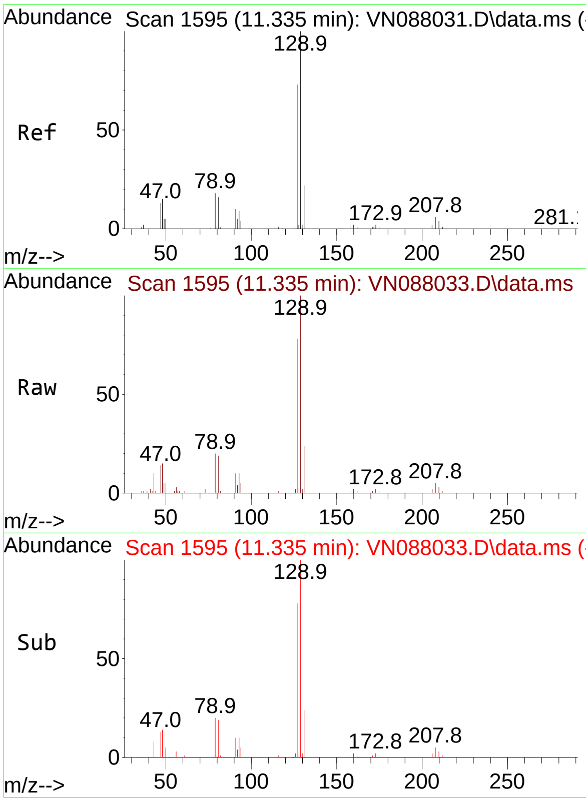

#53
Dibromochloromethane
Concen: 107.583 ug/l
RT: 11.335 min Scan# 1!
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:129 Resp: 55978

Ion	Ratio	Lower	Upper
129	100		
127	76.5	39.1	117.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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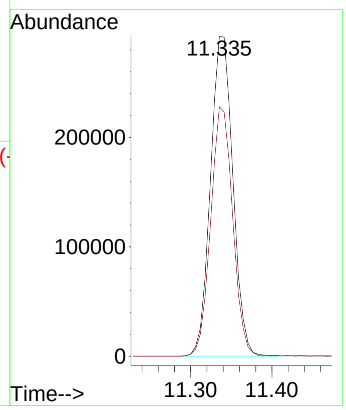
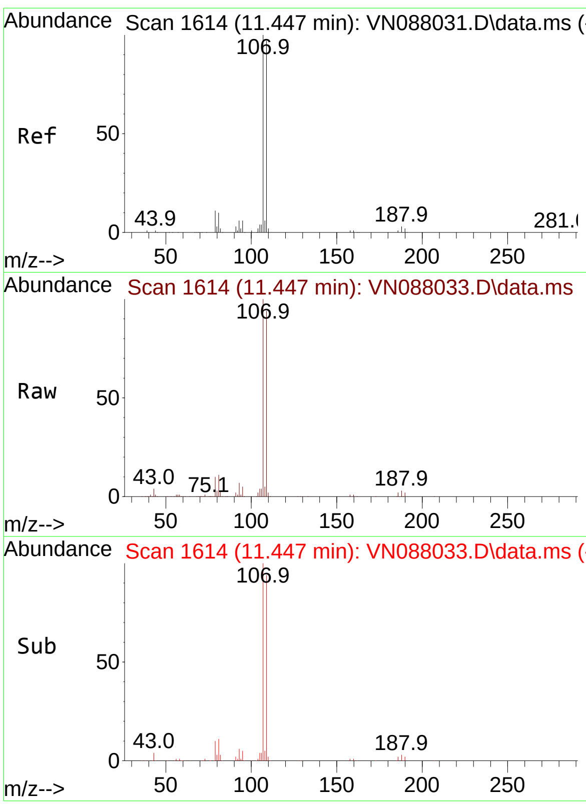
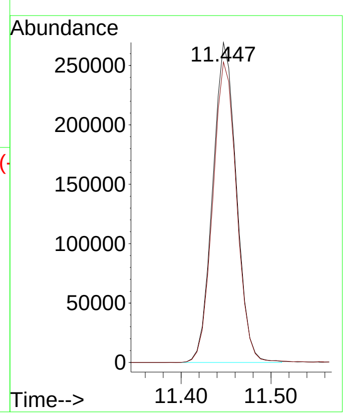


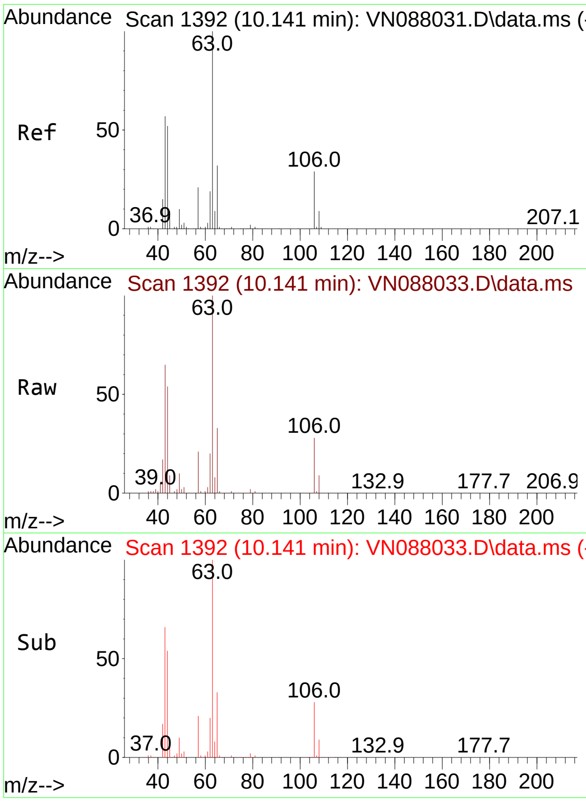


#54
1,2-Dibromoethane
Concen: 106.100 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:107 Resp: 493699

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.5	113.3





#55
2-Chloroethyl vinyl ether
Concen: 536.342 ug/l
RT: 10.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 213245

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.7	38.5
106	27.8	22.6	34.0

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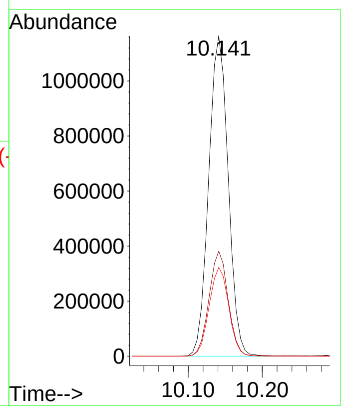
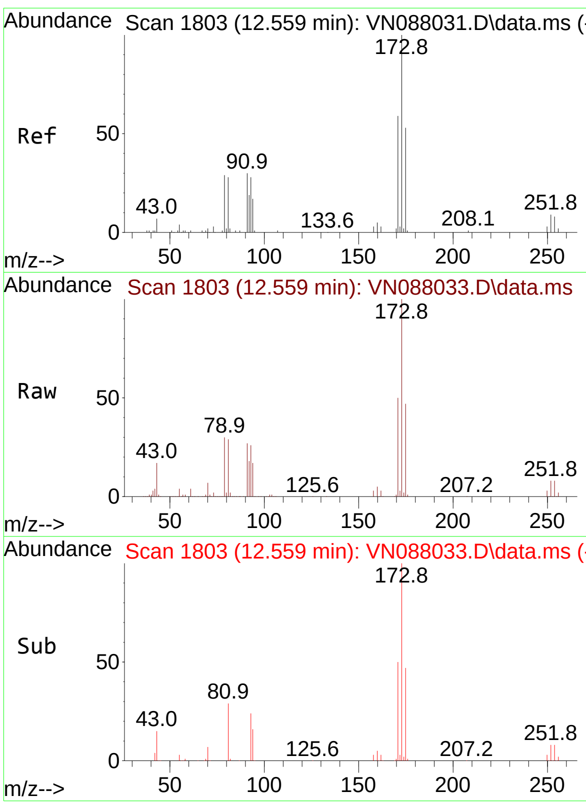
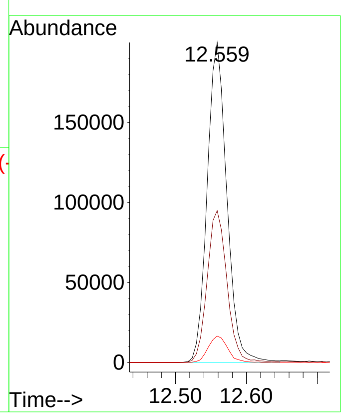


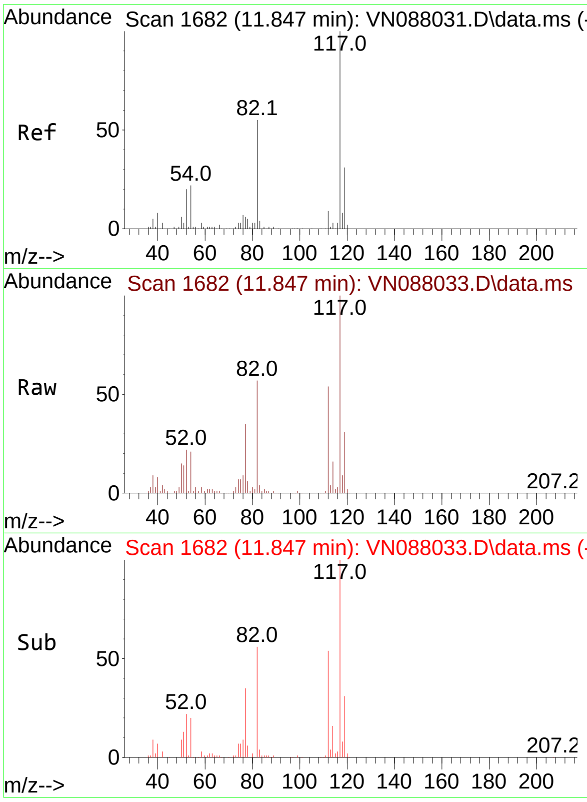


#56
Bromoform
Concen: 109.728 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:173 Resp: 386003

Ion	Ratio	Lower	Upper
173	100		
175	47.8	39.6	59.4
254	8.1	6.6	10.0





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 35165

Ion	Ratio	Lower	Upper
117	100		
82	57.7	45.2	67.8
119	32.2	25.9	38.9

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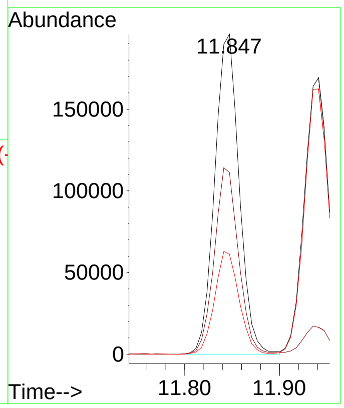
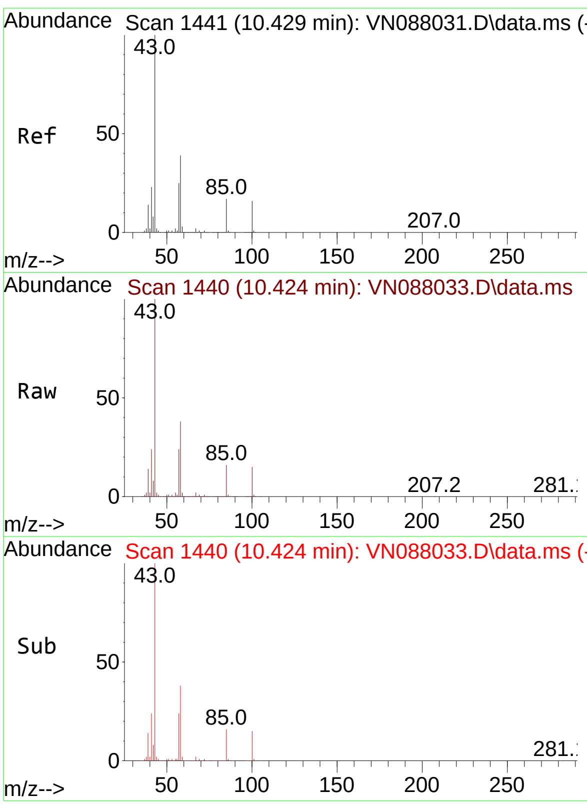
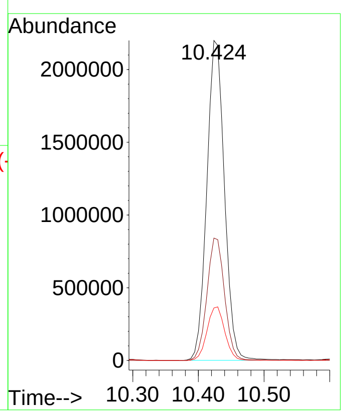




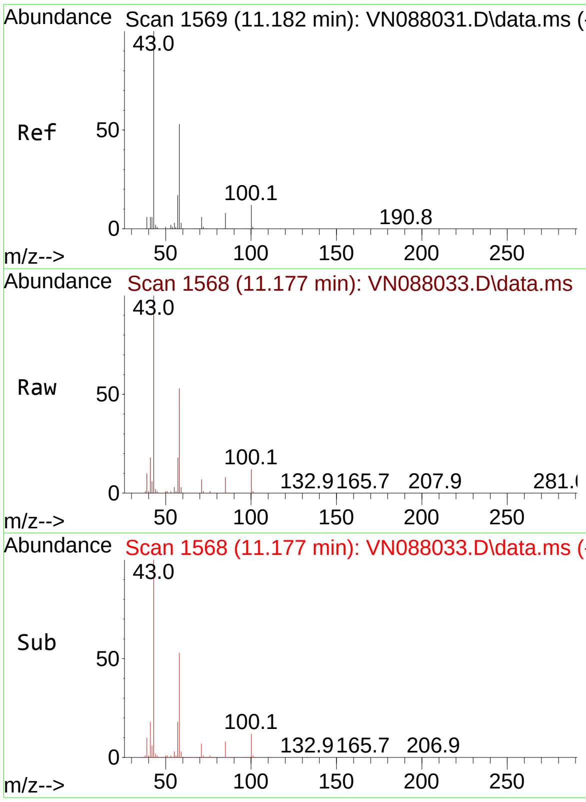
#58
4-Methyl-2-Pentanone
Concen: 523.371 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 43 Resp: 4116685

Ion	Ratio	Lower	Upper
43	100		
58	38.2	31.2	46.8
85	16.9	13.7	20.5



ICAL Form



#59
2-Hexanone
Concen: 563.852 ug/l
RT: 11.177 min Scan# 1!
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 43 Resp: 292821

Ion	Ratio	Lower	Upper
43	100		
58	53.7	43.1	64.7
57	18.7	14.6	21.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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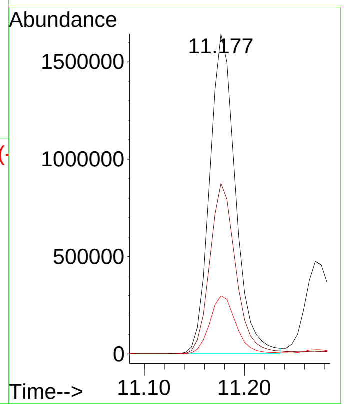
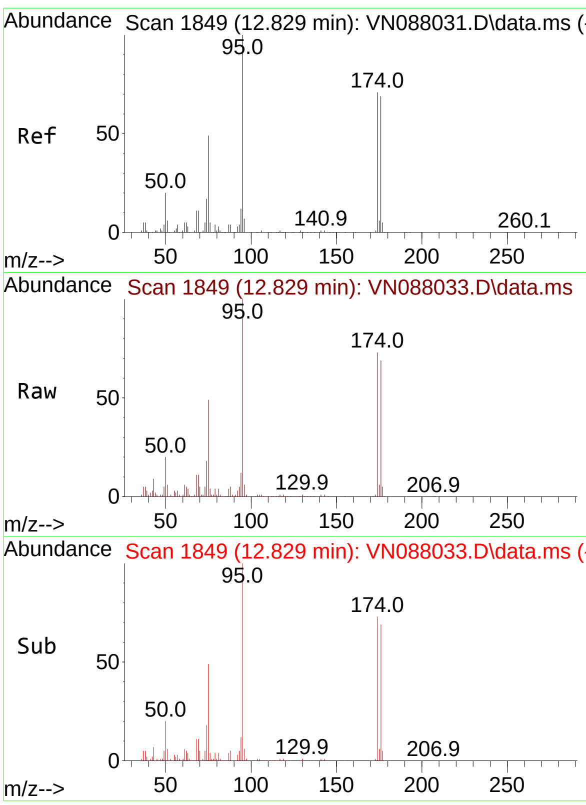
Supervised By :Mahesh Dadoda 10/10/2025

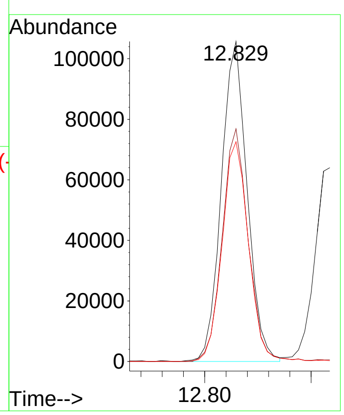


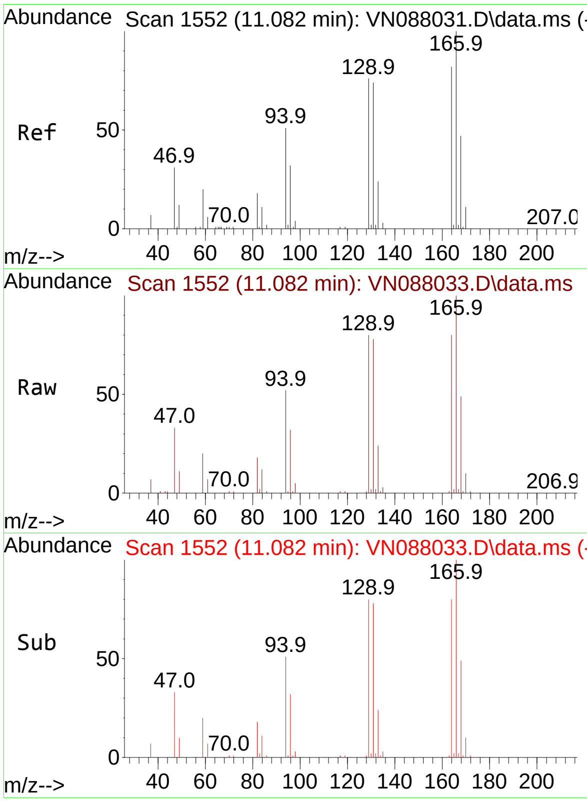


#60
4-Bromofluorobenzene
Concen: 30.730 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 95 Resp: 178151

Ion	Ratio	Lower	Upper
95	100		
174	73.0	57.4	86.0
176	70.4	57.0	85.4





#61
Tetrachloroethene
Concen: 101.796 ug/l
RT: 11.082 min Scan# 1!
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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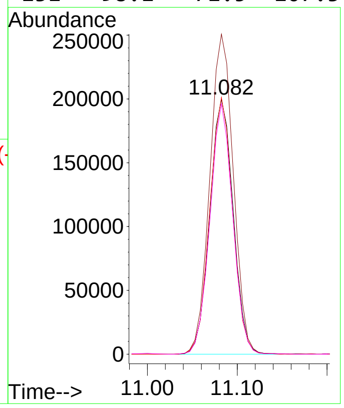
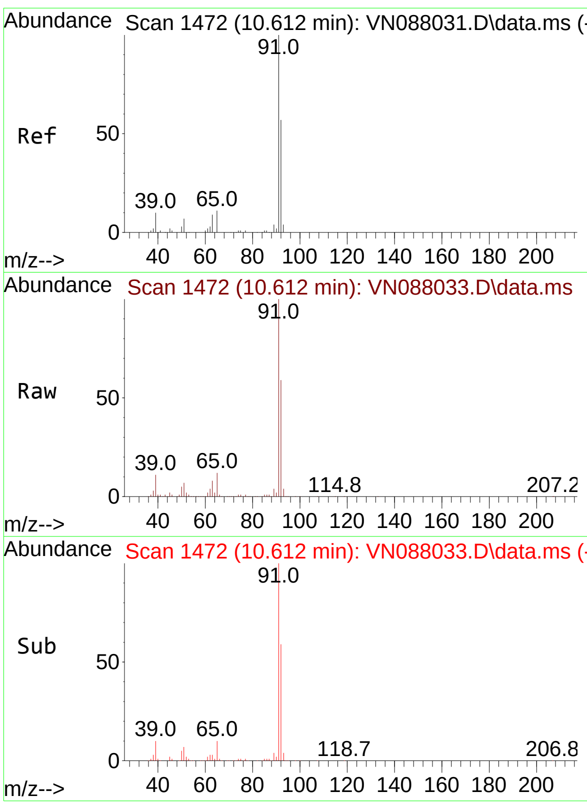
Tgt Ion:164 Resp: 36250(

Ion	Ratio	Lower	Upper
164	100		
166	125.5	97.2	145.8
129	100.8	73.7	110.5
131	98.1	71.5	107.3

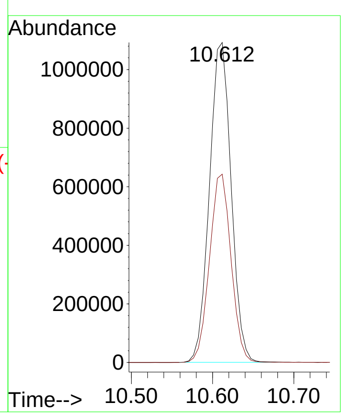




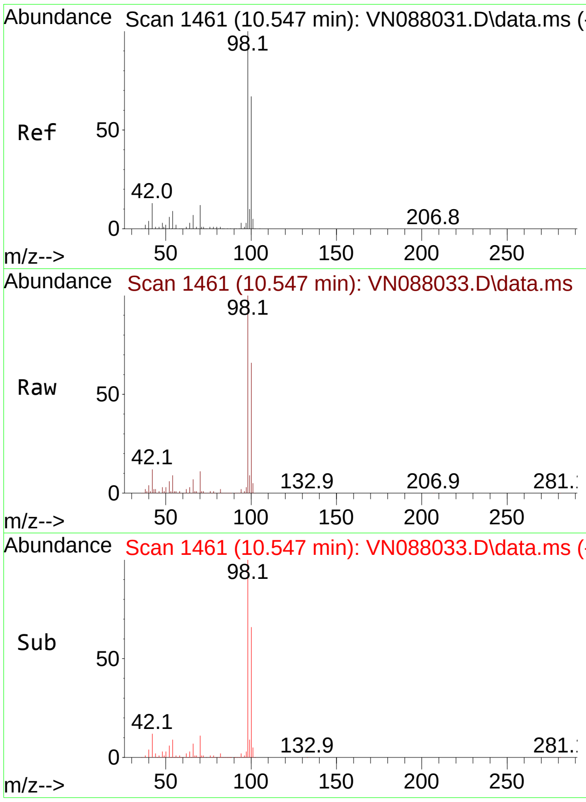
#62
Toluene
Concen: 101.652 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 91 Resp: 2027659

Ion	Ratio	Lower	Upper
91	100		
92	58.5	45.8	68.8



ICAL Form



#63
Toluene-d8
Concen: 29.837 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 98 Resp: 46747

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.1	79.7

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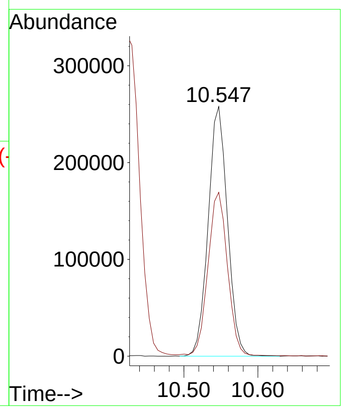
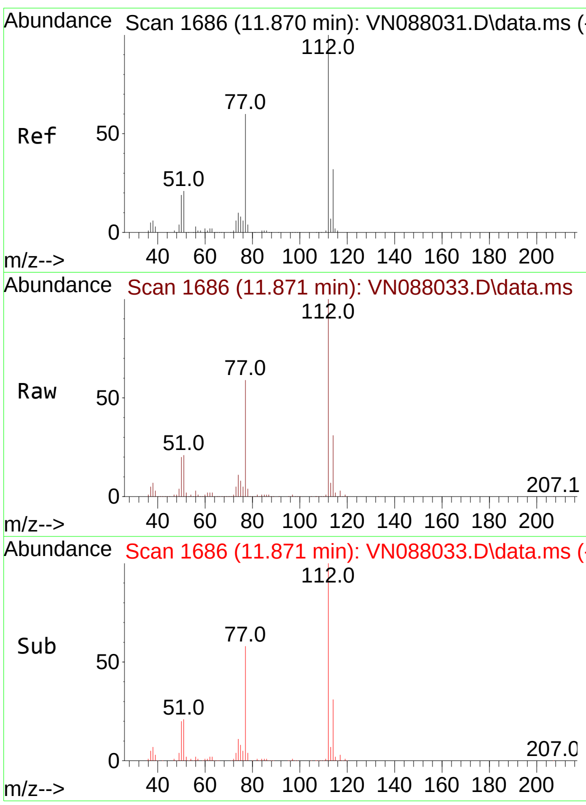
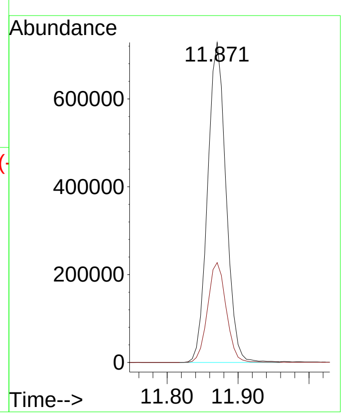




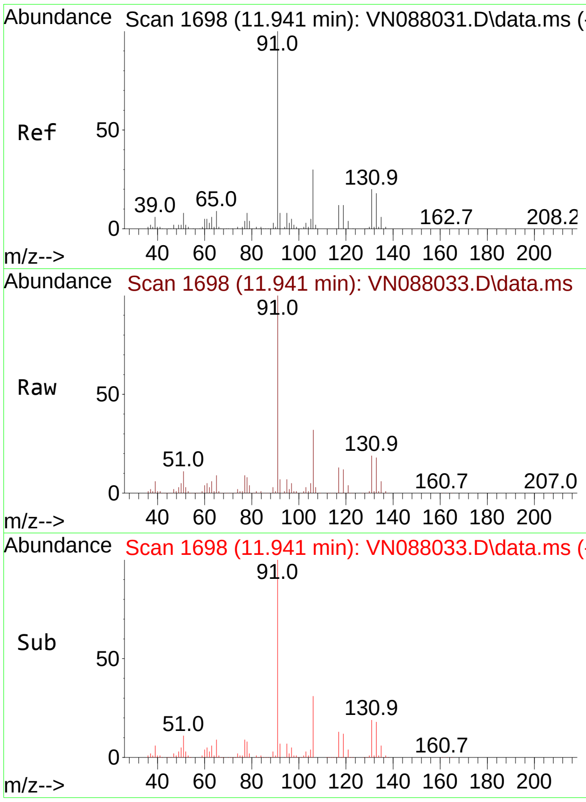
#64
Chlorobenzene
Concen: 103.379 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:112 Resp: 1317139

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.7	38.5



ICAL Form



#65
1,1,1,2-Tetrachloroethane
Concen: 102.148 ug/l
RT: 11.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:131 Resp: 44850

Ion	Ratio	Lower	Upper
131	100		
133	95.0	0.0	183.8
119	66.5	0.0	132.0

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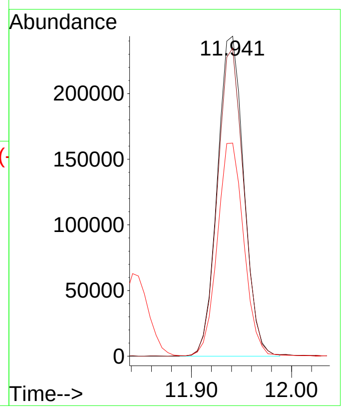
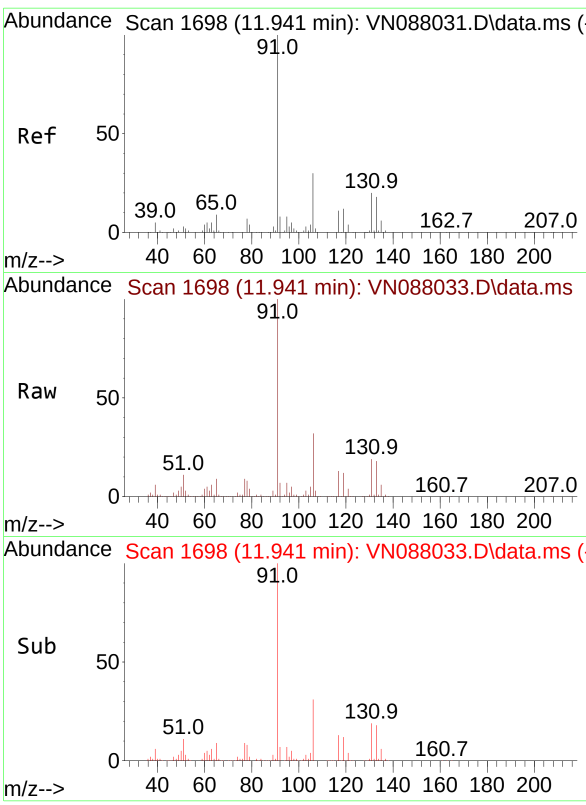
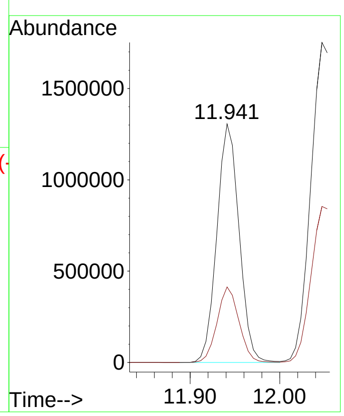




#66
Ethyl Benzene
Concen: 103.692 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 91 Resp: 2249065

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.0	36.0



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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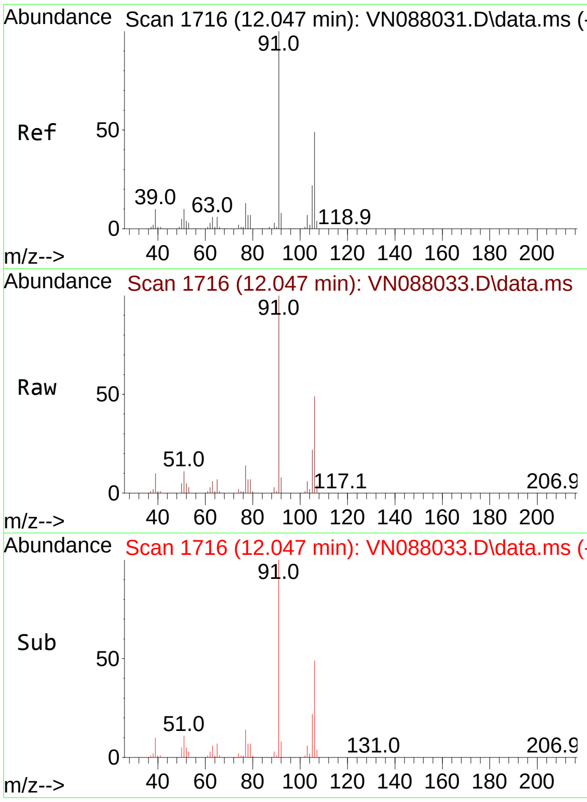
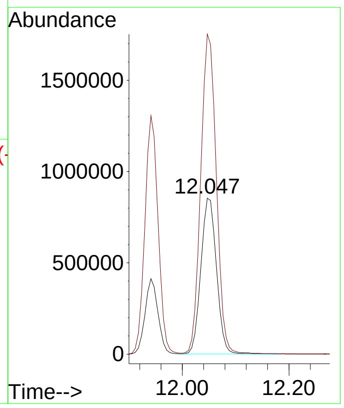
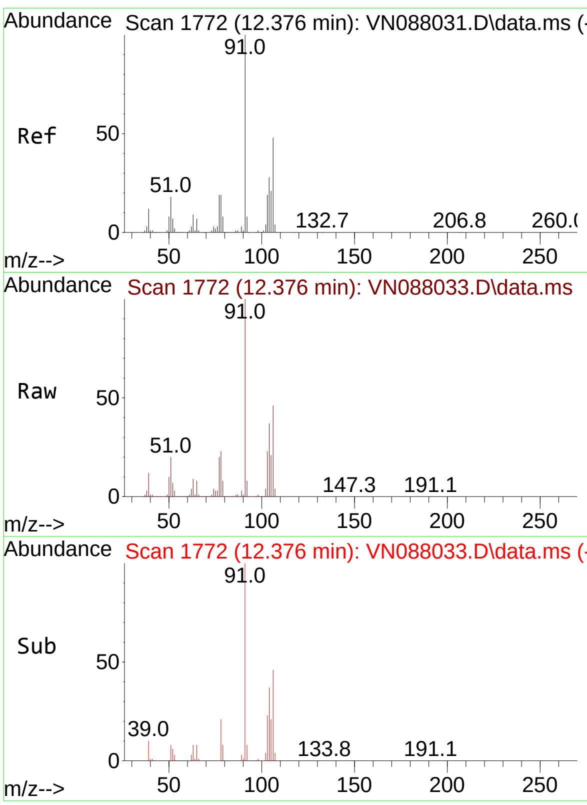


#67
m/p-Xylenes
Concen: 207.080 ug/l
RT: 12.047 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:106 Resp: 173151

Ion	Ratio	Lower	Upper
106	100		
91	203.3	161.4	242.0

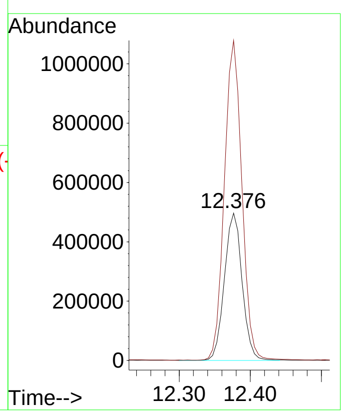




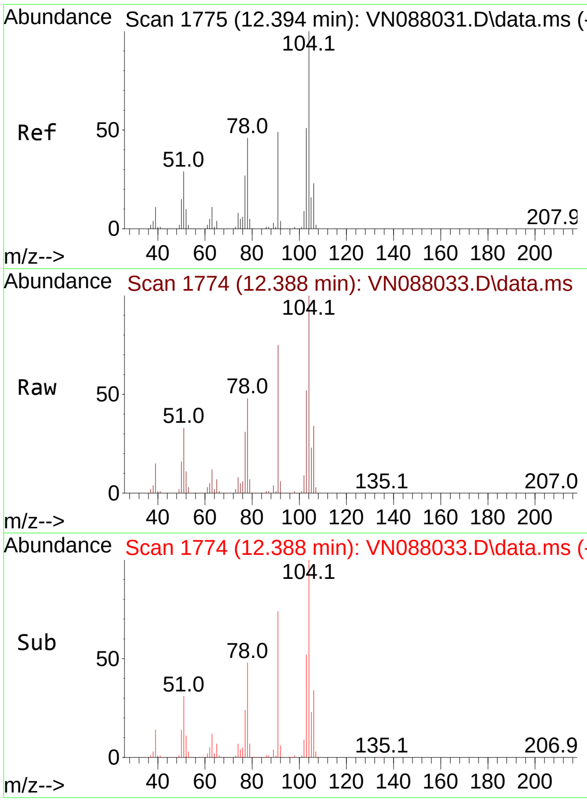
#68
o-Xylene
Concen: 103.111 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:106 Resp: 858288

Ion	Ratio	Lower	Upper
106	100		
91	214.7	105.2	315.6



ICAL Form



#69
Styrene
Concen: 106.005 ug/l
RT: 12.388 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:104 Resp: 145963

Ion	Ratio	Lower	Upper
104	100		
78	51.6	41.8	62.6
103	54.5	44.9	67.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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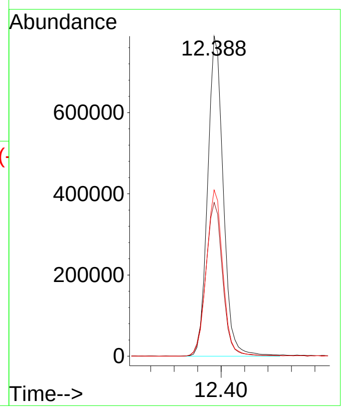
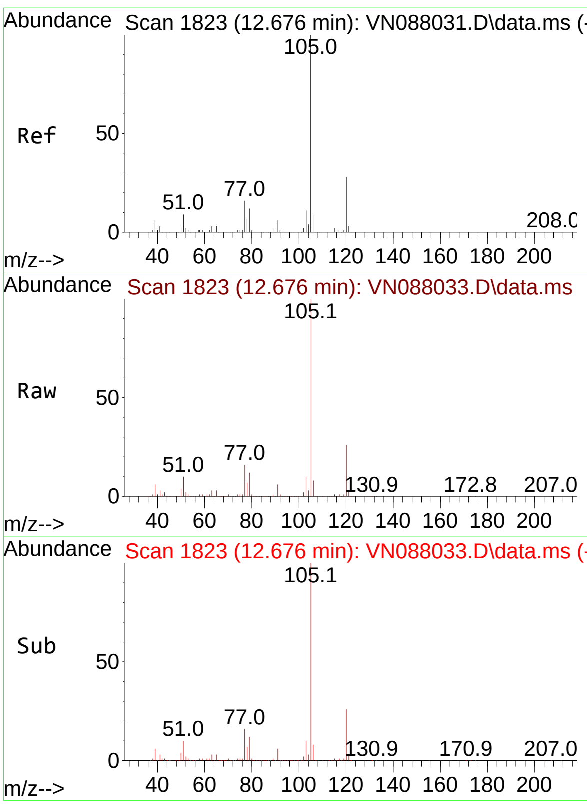
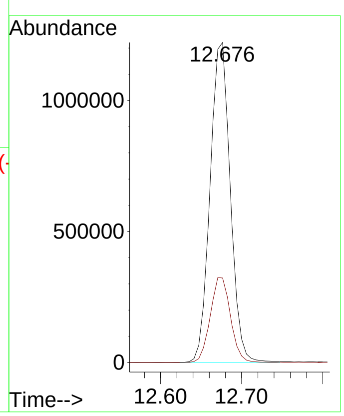




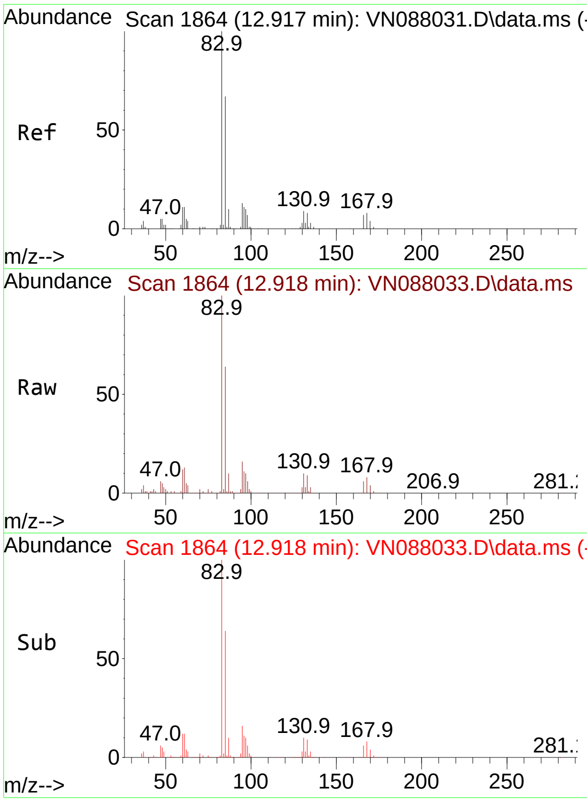
#70
Isopropylbenzene
Concen: 103.677 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:105 Resp: 2115128

Ion	Ratio	Lower	Upper
105	100		
120	26.6	19.1	35.5



ICAL Form



#71
1,1,2,2-Tetrachloroethane
Concen: 103.664 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

Tgt Ion: 83 Resp: 71700

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.3
85	64.1	32.4	97.2

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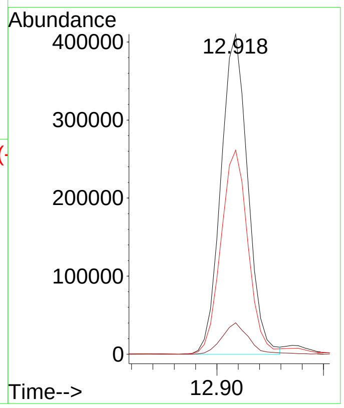
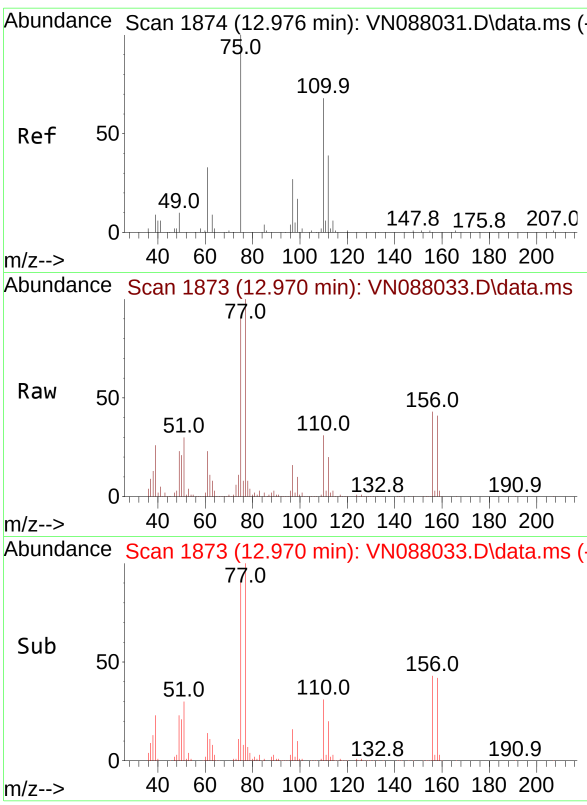
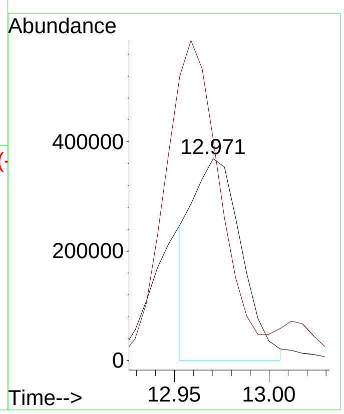




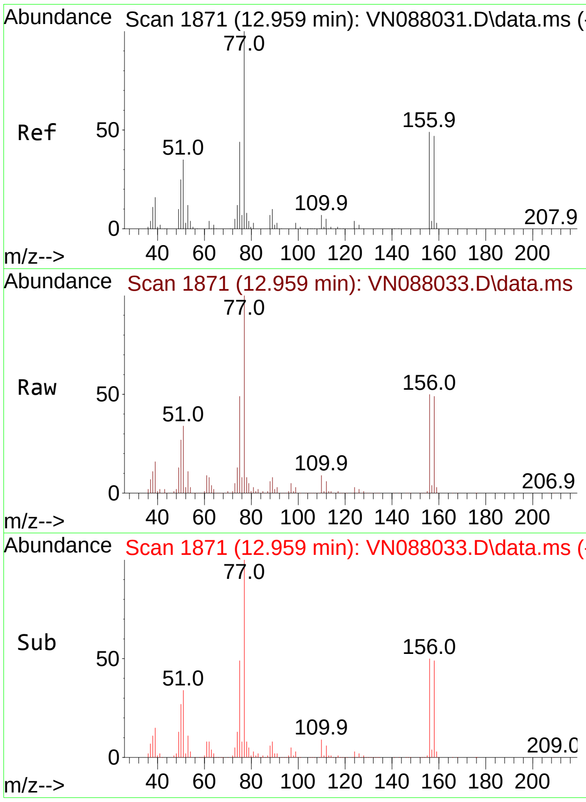
#72
1,2,3-Trichloropropane
Concen: 99.654 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 75 Resp: 669076

Ion	Ratio	Lower	Upper
75	100		
77	176.6	0.0	364.0



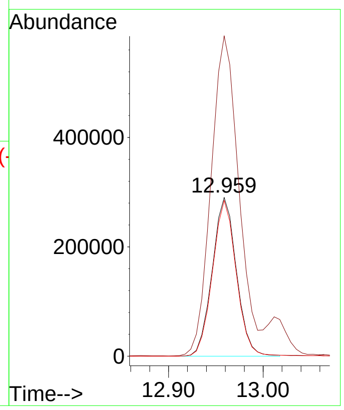
ICAL Form



#73
Bromobenzene
Concen: 103.282 ug/l
RT: 12.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:156 Resp: 51499

Ion	Ratio	Lower	Upper
156	100		
77	229.5	0.0	439.8
158	96.6	0.0	190.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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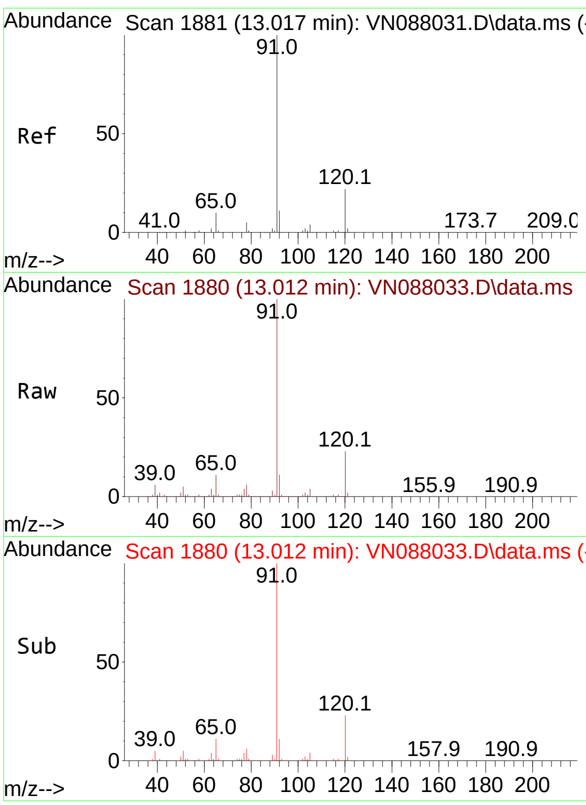
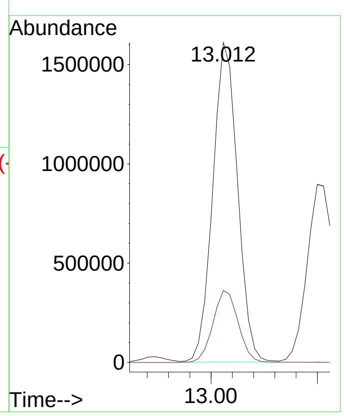


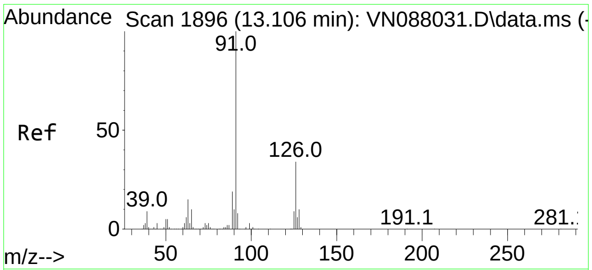
#74
n-propylbenzene
Concen: 105.847 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

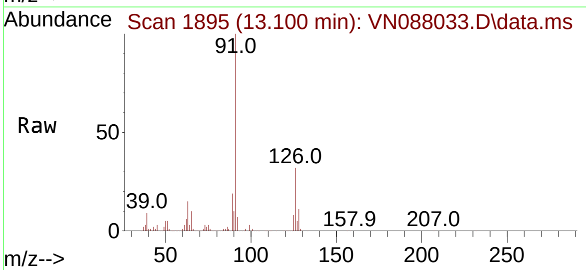
Tgt Ion: 91 Resp: 2606776

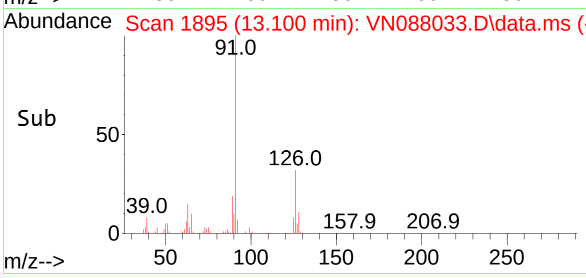
Ion	Ratio	Lower	Upper
91	100		
120	22.8	0.0	46.2



ICAL Form







#75
2-Chlorotoluene
Concen: 105.221 ug/l
RT: 13.100 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 158448

Ion	Ratio	Lower	Upper
91	100		
126	32.7	0.0	66.6

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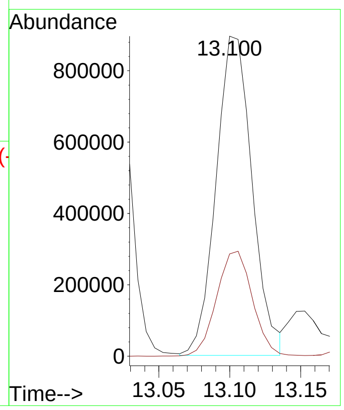
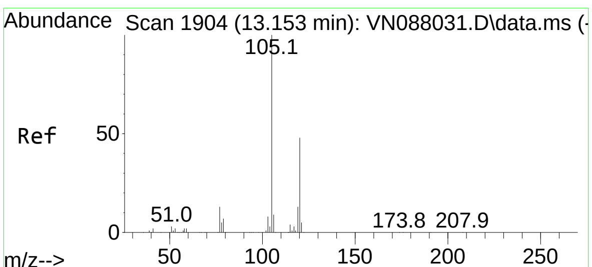
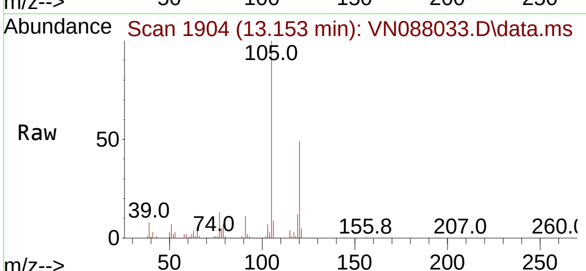
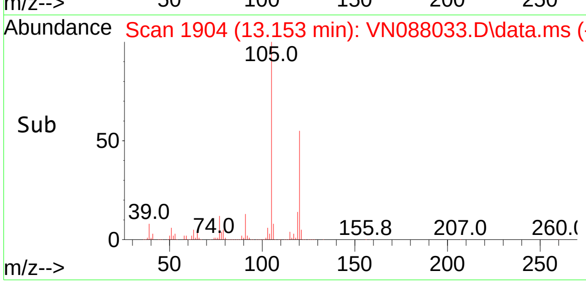




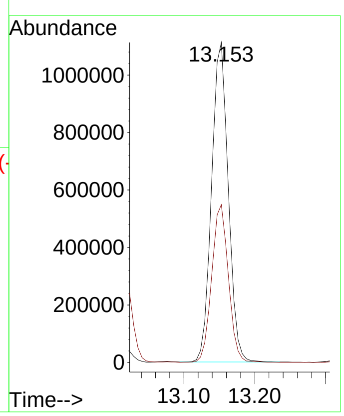




#76
1,3,5-Trimethylbenzene
Concen: 104.730 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:105 Resp: 1814925

Ion	Ratio	Lower	Upper
105	100		
120	49.2	0.0	100.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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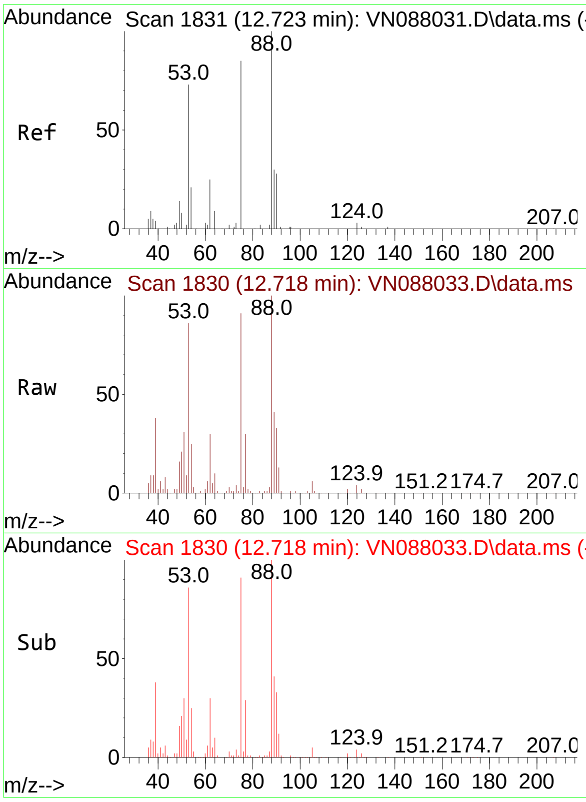
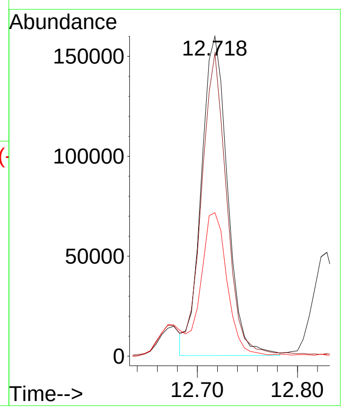
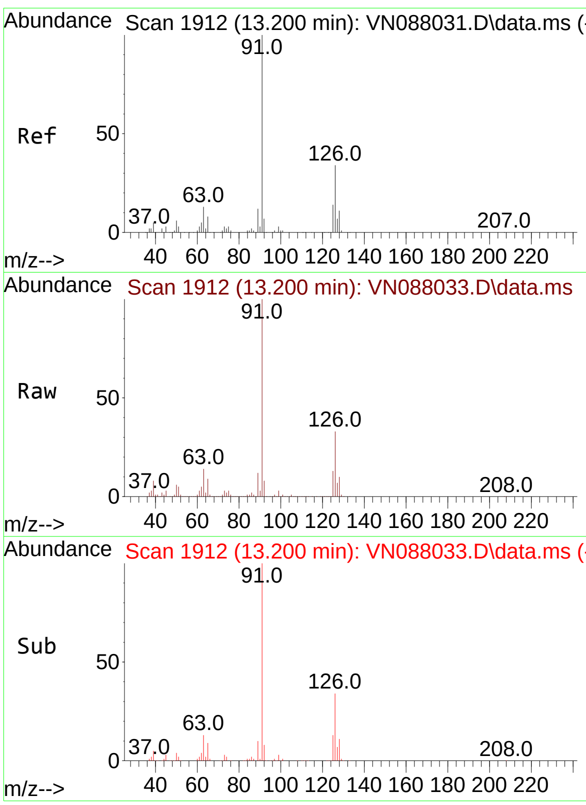


#77
t-1,4-Dichloro-2-butene
Concen: 117.060 ug/l
RT: 12.718 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 75 Resp: 29084

Ion	Ratio	Lower	Upper
75	100		
53	94.6	41.8	125.3
89	44.7	19.9	59.6

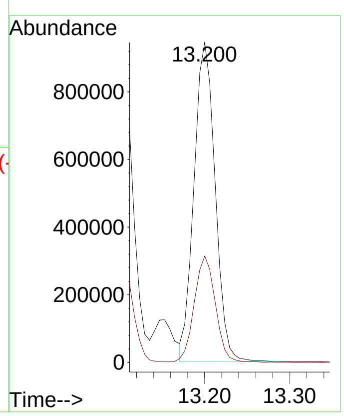




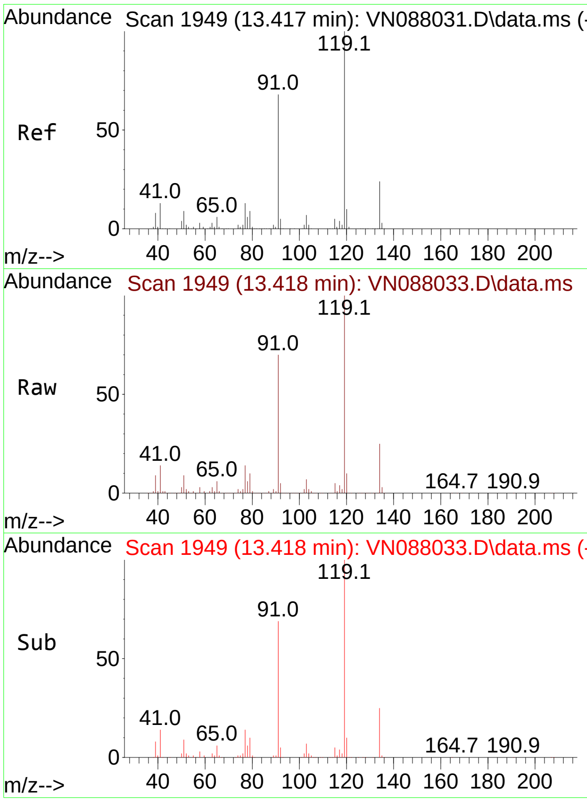
#78
4-Chlorotoluene
Concen: 106.695 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 91 Resp: 1632331

Ion	Ratio	Lower	Upper
91	100		
126	33.0	0.0	68.8



ICAL Form



#79
tert-butylbenzene
Concen: 104.749 ug/l
RT: 13.418 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

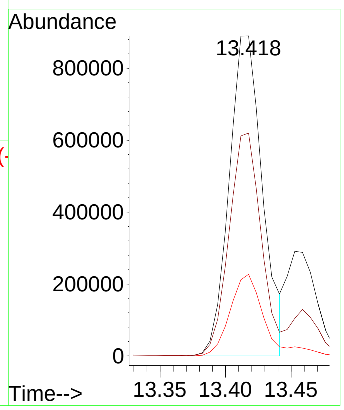
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

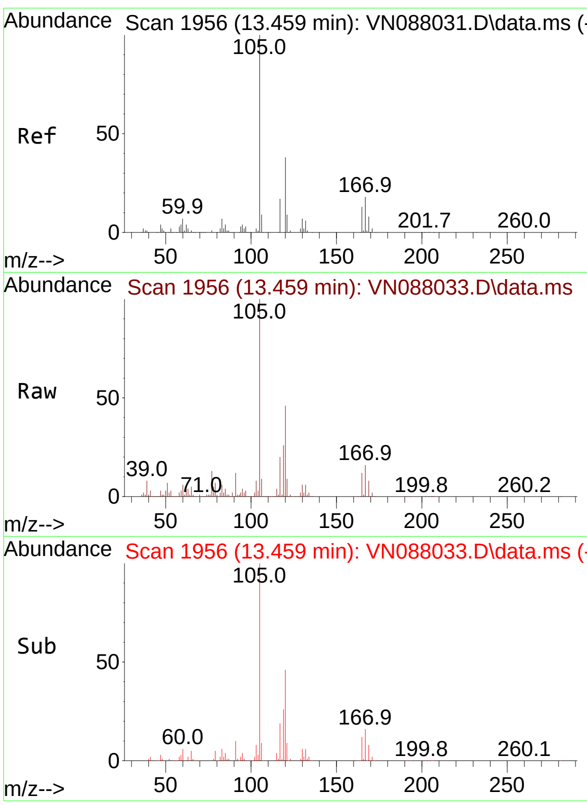
Tgt Ion:119 Resp: 157362

Ion	Ratio	Lower	Upper
119	100		
91	66.9	0.0	132.4
134	24.6	0.0	48.6

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

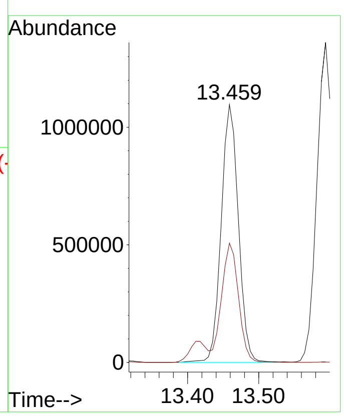




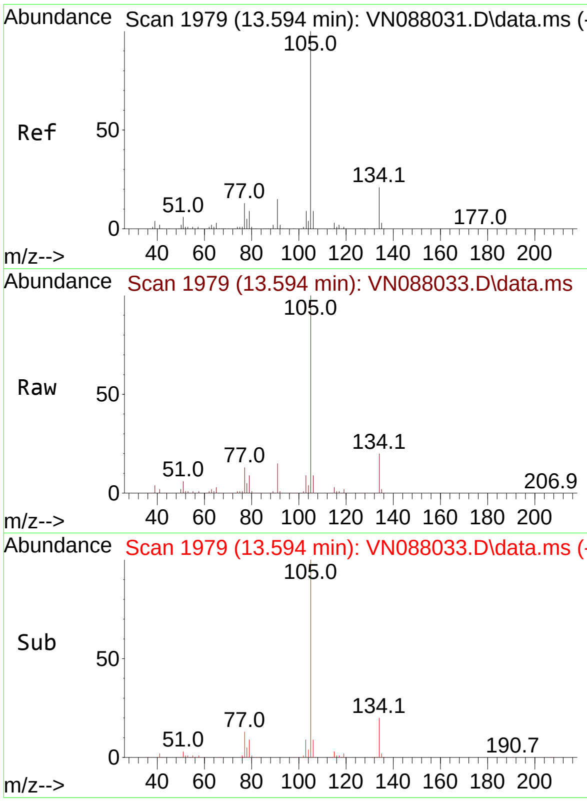
#80
1,2,4-Trimethylbenzene
Concen: 105.591 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:105 Resp: 1831829

Ion	Ratio	Lower	Upper
105	100		
120	45.7	0.0	93.8



ICAL Form



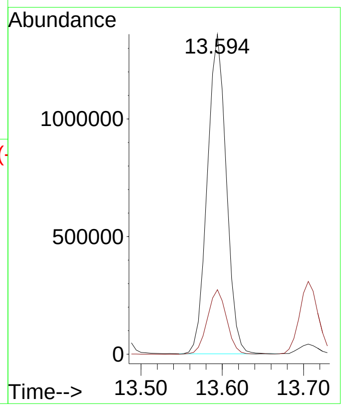
#81
sec-Butylbenzene
Concen: 104.528 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

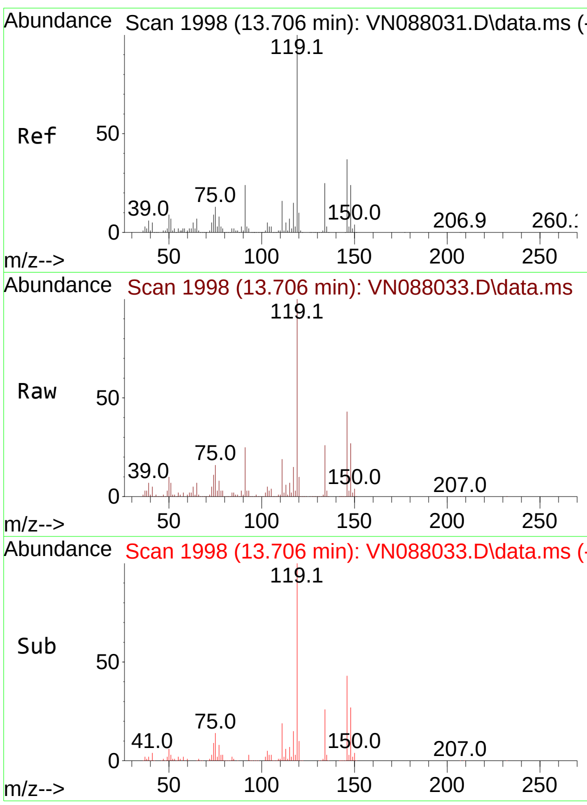
Tgt Ion:105 Resp: 2207832

Ion	Ratio	Lower	Upper
105	100		
134	20.3	0.0	41.2

Instrument : MSVOA_N
ClientSampleId : VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

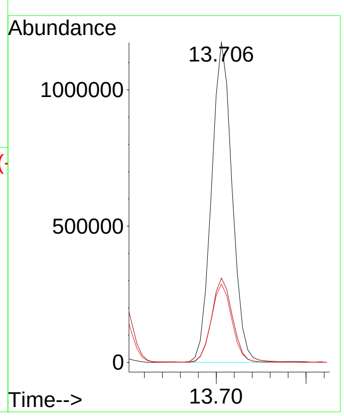




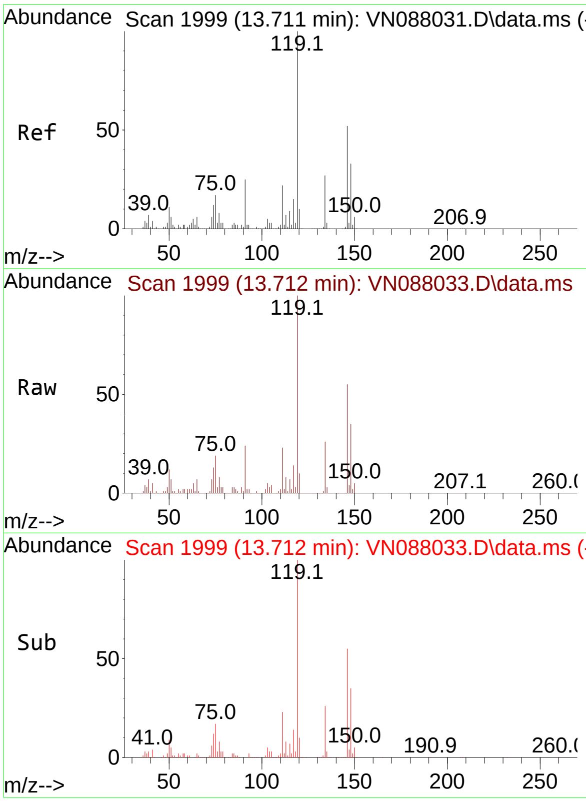
#82
p-Isopropyltoluene
Concen: 104.194 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:119 Resp: 1878975

Ion	Ratio	Lower	Upper
119	100		
134	26.3	0.0	52.6
91	24.3	0.0	48.2



ICAL Form



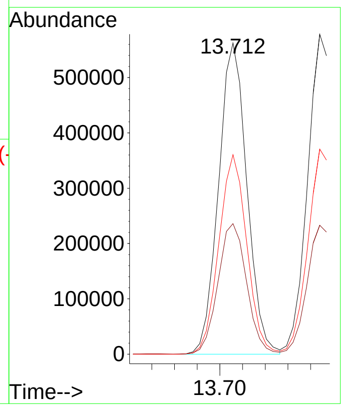
#83
1,3-Dichlorobenzene
Concen: 104.286 ug/l
RT: 13.712 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

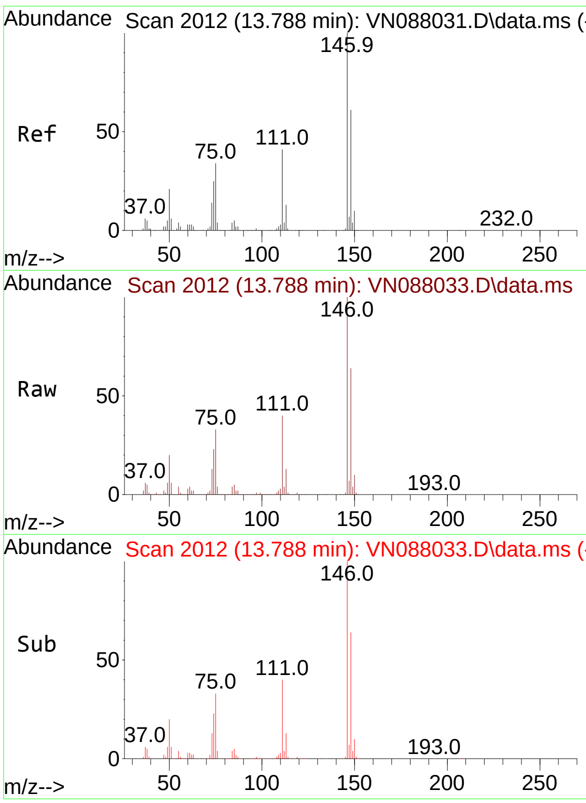
Tgt Ion:146 Resp: 97838

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.1	63.1
148	63.2	31.5	94.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

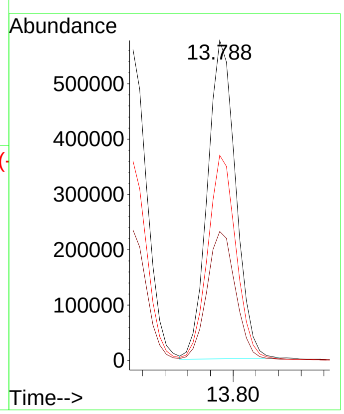


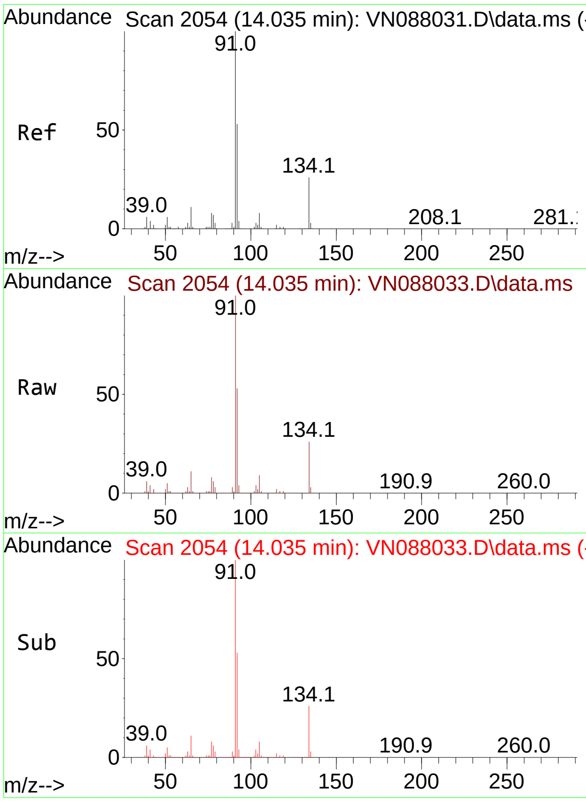


#84
1,4-Dichlorobenzene
Concen: 102.730 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:146 Resp: 993969

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.5	61.6
148	65.4	31.9	95.9





#85
n-Butylbenzene
Concen: 105.237 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

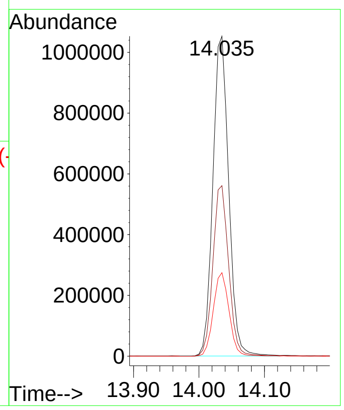
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

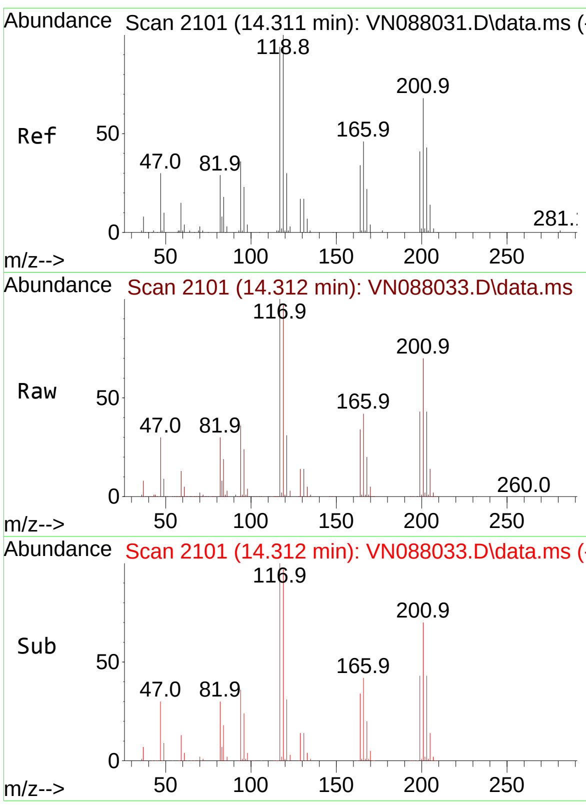
Tgt Ion: 91 Resp: 176558

Ion	Ratio	Lower	Upper
91	100		
92	53.1	0.0	107.6
134	26.0	0.0	52.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

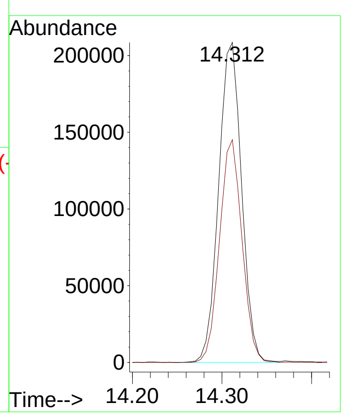


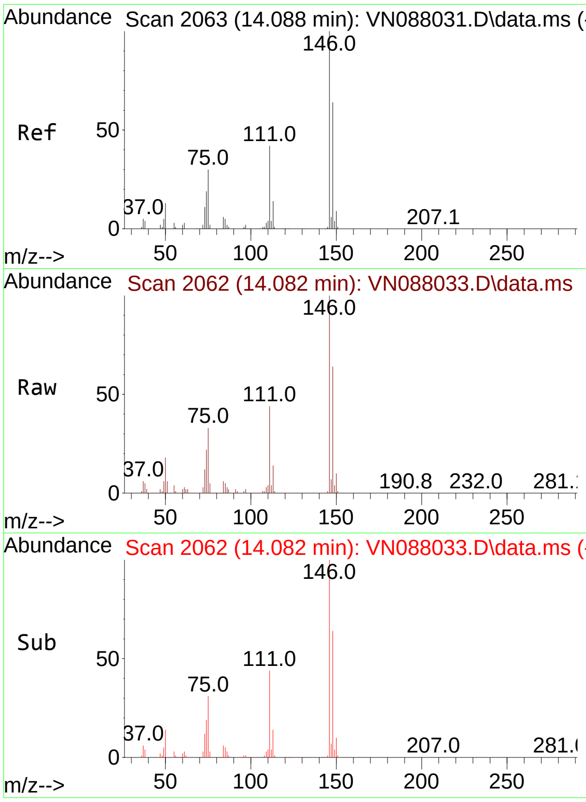


#86
Hexachloroethane
Concen: 102.750 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:117 Resp: 371189

Ion	Ratio	Lower	Upper
117	100		
201	68.1	34.8	104.3





#87
1,2-Dichlorobenzene
Concen: 104.023 ug/l
RT: 14.082 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

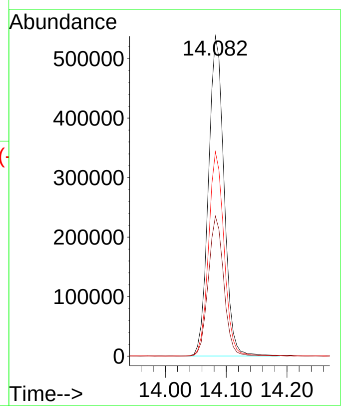
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

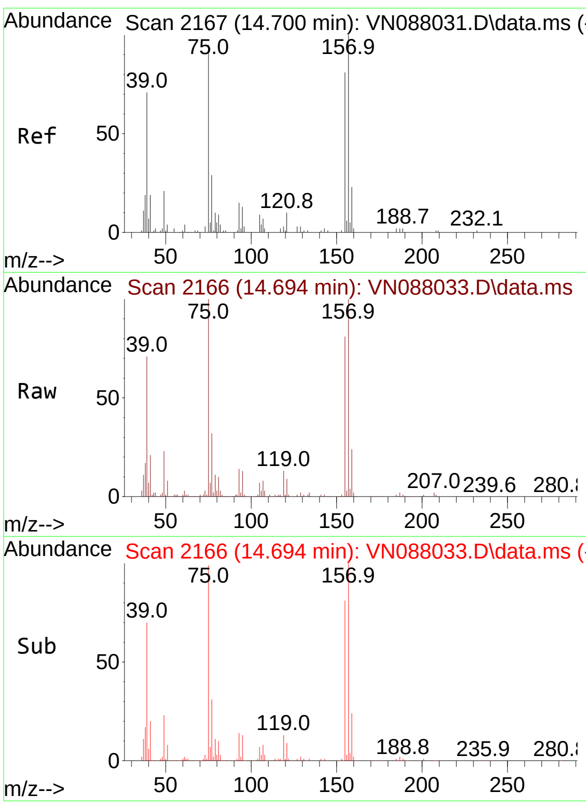
Tgt Ion:146 Resp: 95991

Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.3	66.8
148	63.3	31.4	94.3

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

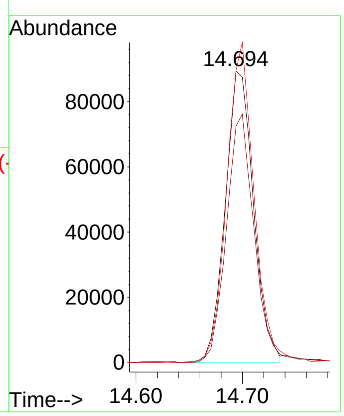


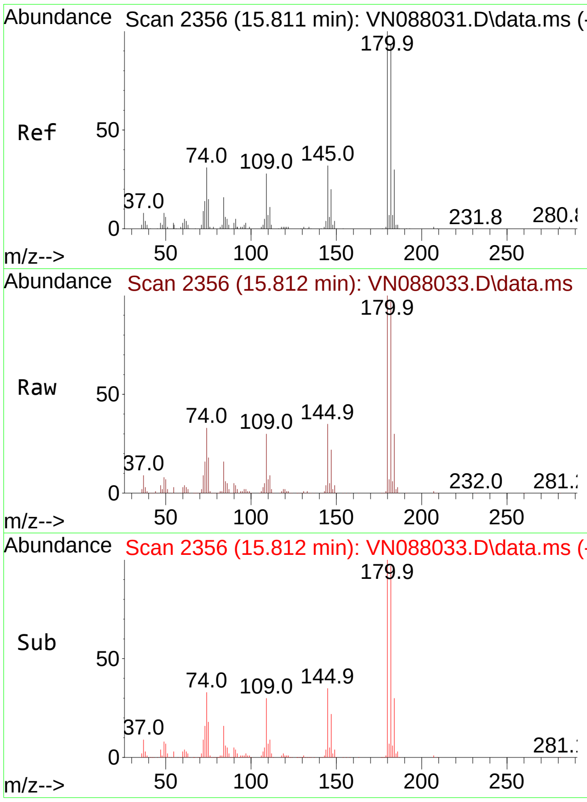


#88
1,2-Dibromo-3-Chloropropane
Concen: 104.237 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion: 75 Resp: 165583

Ion	Ratio	Lower	Upper
75	100		
155	83.9	63.5	95.3
157	106.3	81.7	122.5





#89
1,2,4-Trichlorobenzene
Concen: 105.091 ug/l
RT: 15.812 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

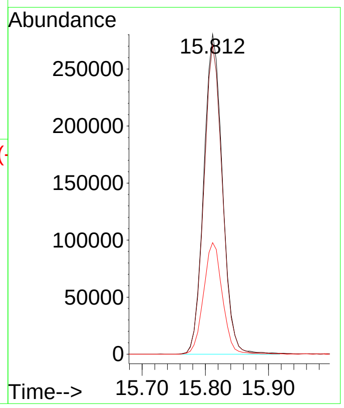
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

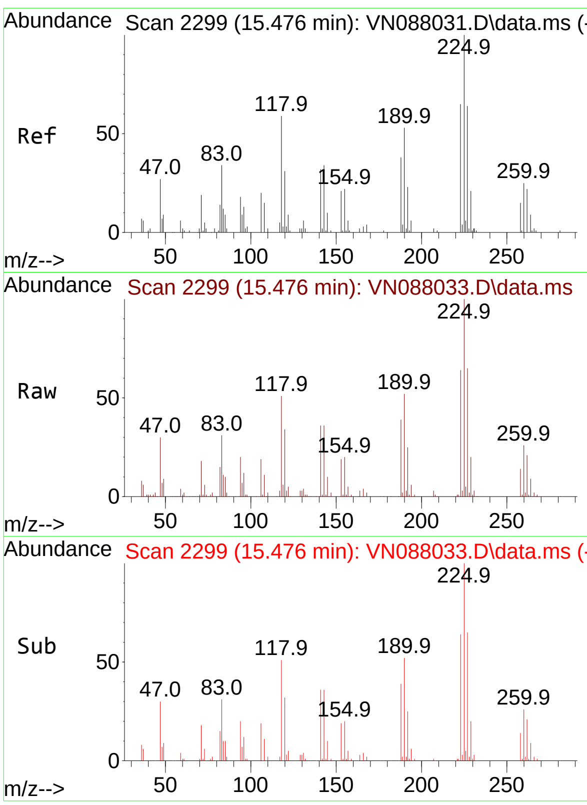
Tgt Ion:180 Resp: 57764

Ion	Ratio	Lower	Upper
180	100		
182	95.2	74.6	112.0
145	34.9	27.2	40.8

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

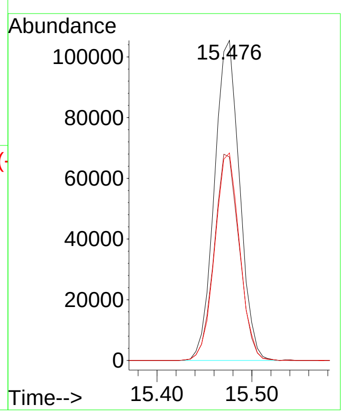




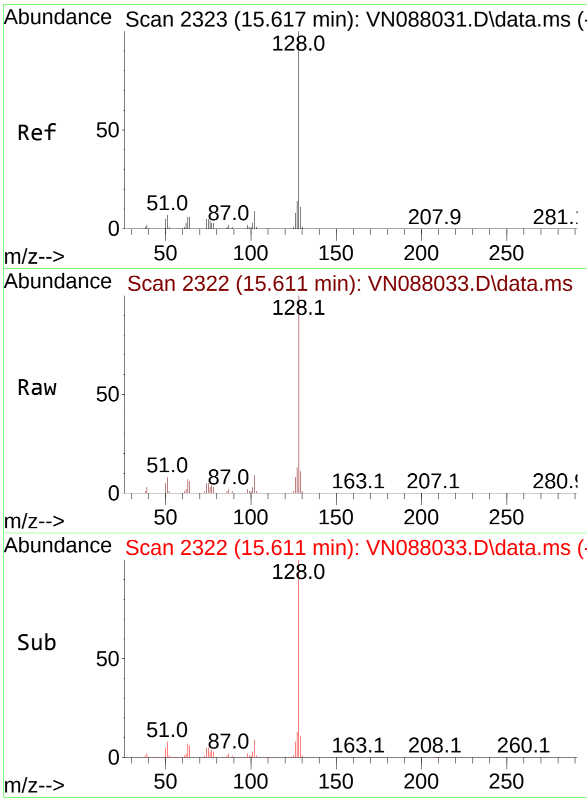
#90
Hexachlorobutadiene
Concen: 101.706 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:225 Resp: 194567

Ion	Ratio	Lower	Upper
225	100		
223	64.2	0.0	129.6
227	64.1	0.0	132.2



ICAL Form



#91
Naphthalene
Concen: 106.010 ug/l
RT: 15.611 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

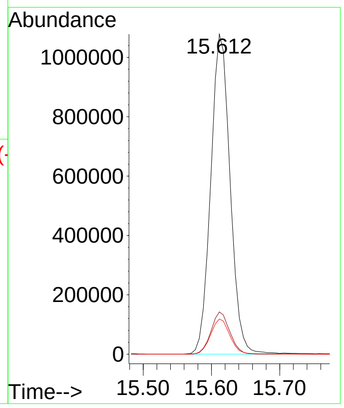
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

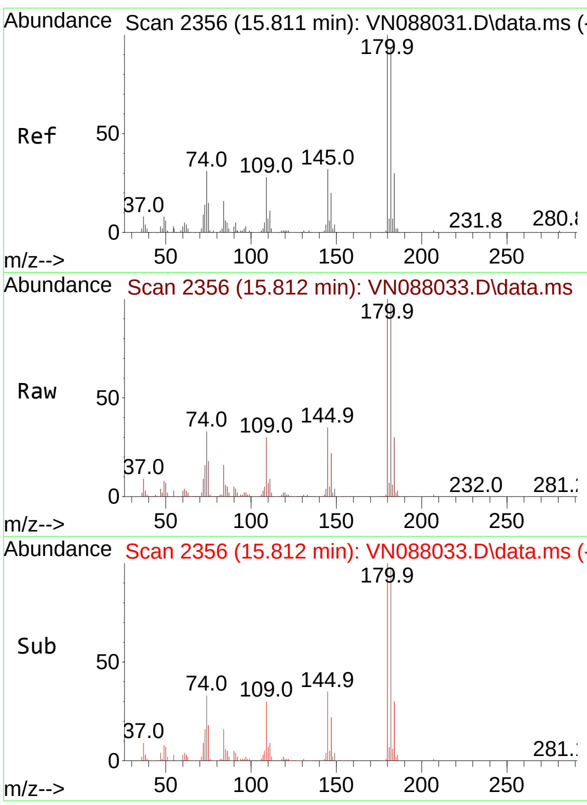
Tgt Ion:128 Resp: 2133295

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.9	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

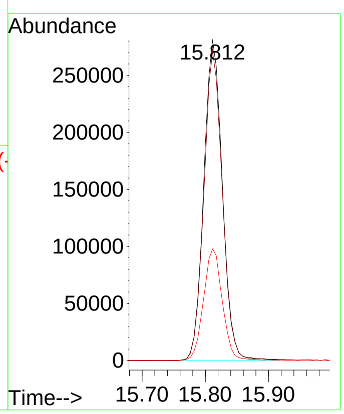




#92
1,2,3-Trichlorobenzene
Concen: 105.091 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088033.D
Acq: 08 Oct 2025 10:51

Tgt Ion:180 Resp: 577645

Ion	Ratio	Lower	Upper
180	100		
182	95.2	0.0	186.6
145	34.9	0.0	68.0



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088034.D
Acq On : 08 Oct 2025 11:12
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 02:04:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	70768	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	396399	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	360347	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	164118	29.782	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.829	95	176216	29.663	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.867%		
63) Toluene-d8	10.547	98	480539	29.931	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.767%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	614191	151.526	ug/l	95
3) Chloromethane	2.383	50	688323	149.783	ug/l	98
4) Vinyl Chloride	2.536	62	700818	146.257	ug/l	100
5) Bromomethane	2.954	94	390993	151.745	ug/l	96
6) Chloroethane	3.124	64	447592	141.605	ug/l	95
7) Trichlorofluoromethane	3.506	101	939283	144.151	ug/l	100
8) Diethyl Ether	3.959	74	416480	141.459	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	499641	143.242	ug/l	97
10) 1,1-Dichloroethene	4.330	96	529290	142.248	ug/l	98
11) Methyl Iodide	4.577	142	649112	189.280	ug/l	96
12) Methyl Acetate	5.018	43	874170	148.543	ug/l	90
13) Acrolein	4.171	56	722228	771.539	ug/l #	6
14) Acrylonitrile	5.706	53	2111000	723.151	ug/l	100
15) Acetone	4.424	58	565771	659.761	ug/l	92
16) Carbon Disulfide	4.700	76	1690921	144.966	ug/l	100
17) Allyl chloride	5.006	41	1008388	143.620	ug/l	98
18) Methylene Chloride	5.259	84	670686	141.817	ug/l	97
19) trans-1,2-Dichloroethene	5.771	96	628517	146.099	ug/l	89
20) Diisopropyl ether	6.659	45	2377730	148.749	ug/l	97
21) 1,1-Dichloroethane	6.547	63	1214899	145.997	ug/l	96
22) cis-1,2-Dichloroethene	7.471	96	768626	142.727	ug/l	98
23) tert-Butyl Alcohol	5.536	59	789077	673.981	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	2330339	145.094	ug/l	99
25) Chloroform	7.947	83	1228670	143.082	ug/l	97
26) Cyclohexane	8.241	56	1000427	145.104	ug/l #	96
29) 1,1-Dichloropropene	8.353	75	836265	147.179	ug/l	97
30) 2-Butanone	7.471	43	2998106	715.429	ug/l	98
31) 2,2-Dichloropropane	7.471	77	1019106	139.013	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	1018706	143.482	ug/l	99
33) Carbon Tetrachloride	8.341	117	869642	146.233	ug/l	97
34) Benzene	8.588	78	2743909	145.591	ug/l	98
35) Methacrylonitrile	7.765	41	627210	142.327	ug/l	97
36) 1,2-Dichloroethane	8.653	62	954996	145.960	ug/l	99
37) Trichloroethene	9.335	130	642810	143.961	ug/l	100
38) Methylcyclohexane	9.582	83	1002978	142.937	ug/l	98
39) 1,2-Dichloropropane	9.600	63	688269	145.644	ug/l	99
40) Dibromomethane	9.688	93	497967	144.763	ug/l	98
41) Bromodichloromethane	9.871	83	1015193	144.501	ug/l	98
42) Vinyl Acetate	6.589	43	11007914	771.067	ug/l	97

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088034.D
Acq On : 08 Oct 2025 11:12
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 02:04:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.547	43	1168944	145.110 ug/l	94
44) Isopropyl Acetate	8.677	43	1946213	147.920 ug/l	98
45) 1,4-Dioxane	9.682	88	230506	2634.144 ug/l	98
46) Methyl methacrylate	9.665	41	878594	151.633 ug/l	98
47) n-amyl Acetate	12.482	43	1141223	197.401 ug/l #	64
48) t-1,3-Dichloropropene	10.818	75	1169571	149.712 ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	1203477	147.684 ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	657933	144.430 ug/l	97
51) Ethyl methacrylate	10.853	69	1210974	157.077 ug/l	99
52) 1,3-Dichloropropane	11.141	76	1159064	145.836 ug/l	100
53) Dibromochloromethane	11.341	129	802448	147.348 ug/l	100
54) 1,2-Dibromoethane	11.447	107	713476	146.499 ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	3115151	748.593 ug/l	99
56) Bromoform	12.559	173	556224	151.071 ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	5819803	722.051 ug/l	99
59) 2-Hexanone	11.177	43	4169658	783.538 ug/l	100
61) Tetrachloroethene	11.082	164	517435	141.798 ug/l	94
62) Toluene	10.612	91	2951946	144.419 ug/l	99
64) Chlorobenzene	11.871	112	1890882	144.832 ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	643792	143.089 ug/l	98
66) Ethyl Benzene	11.941	91	3229064	145.284 ug/l	98
67) m/p-Xylenes	12.047	106	2496336	291.347 ug/l	99
68) o-Xylene	12.376	106	1219294	142.948 ug/l	95
69) Styrene	12.388	104	2093655	148.383 ug/l	99
70) Isopropylbenzene	12.671	105	3025763	144.736 ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	1009711	142.462 ug/l	99
72) 1,2,3-Trichloropropane	12.971	75	944811m	137.329 ug/l	
73) Bromobenzene	12.959	156	732655	143.390 ug/l	95
74) n-propylbenzene	13.012	91	3681361	145.874 ug/l	99
75) 2-Chlorotoluene	13.106	91	2247982	145.681 ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	2531712	142.568 ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	417387	163.941 ug/l	90
78) 4-Chlorotoluene	13.200	91	2320550	148.022 ug/l	98
79) tert-butylbenzene	13.418	119	2189957	142.259 ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	2534010	142.543 ug/l	98
81) sec-Butylbenzene	13.594	105	3085212	142.543 ug/l	99
82) p-Isopropyltoluene	13.706	119	2589136	140.112 ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	1360760	141.545 ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	1422602	143.484 ug/l	99
85) n-Butylbenzene	14.035	91	2454577	142.775 ug/l	99
86) Hexachloroethane	14.312	117	525061	141.838 ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	1340645	141.778 ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	233320	143.337 ug/l	96
89) 1,2,4-Trichlorobenzene	15.812	180	829215	147.221 ug/l	99
90) Hexachlorobutadiene	15.476	225	273878	139.711 ug/l	96
91) Naphthalene	15.612	128	3044921	147.662 ug/l	100
92) 1,2,3-Trichlorobenzene	15.812	180	829215	147.221 ug/l	99

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

Quantitation Report (QT Reviewed)

ICAL Form

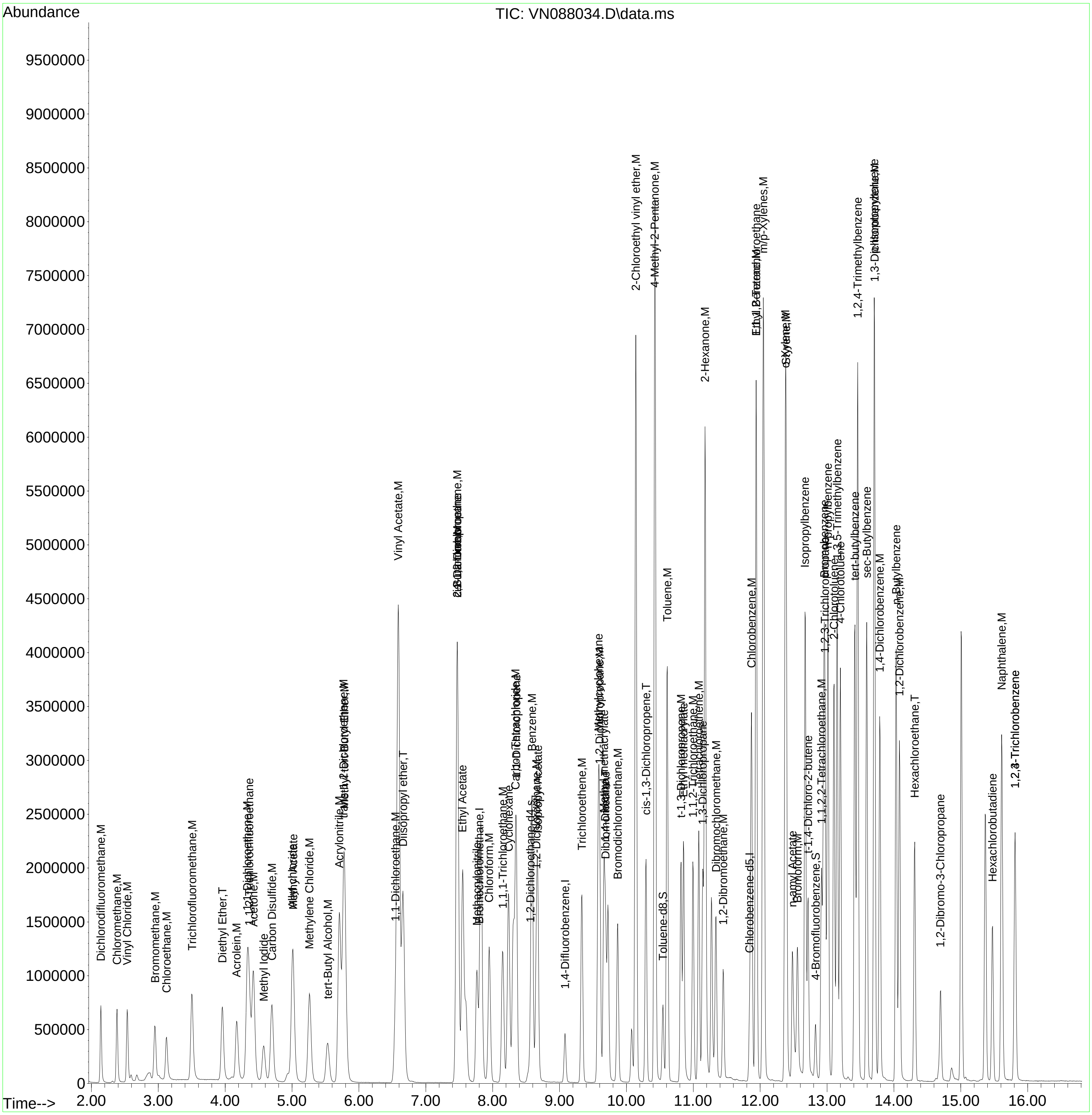
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088034.D
Acq On : 08 Oct 2025 11:12
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 09 02:04:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 01:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

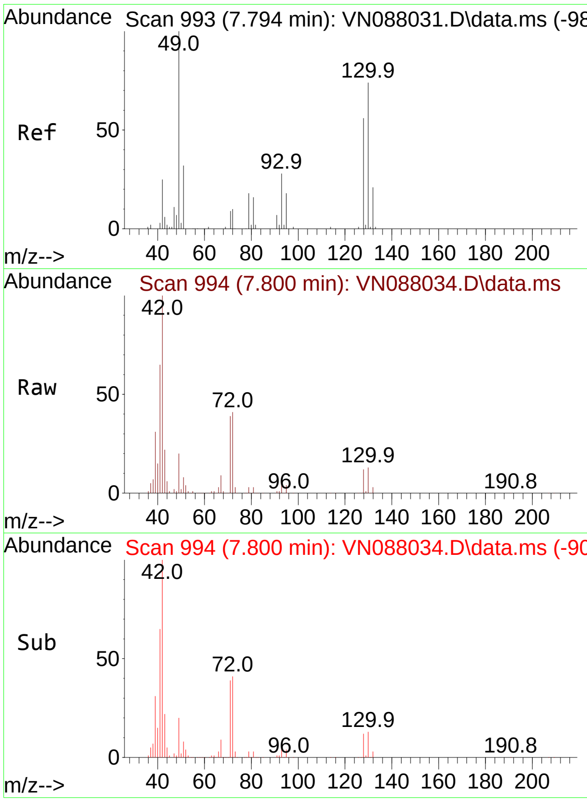
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

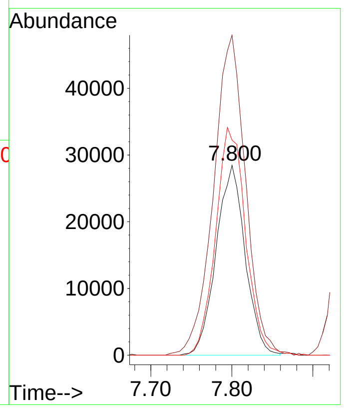
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

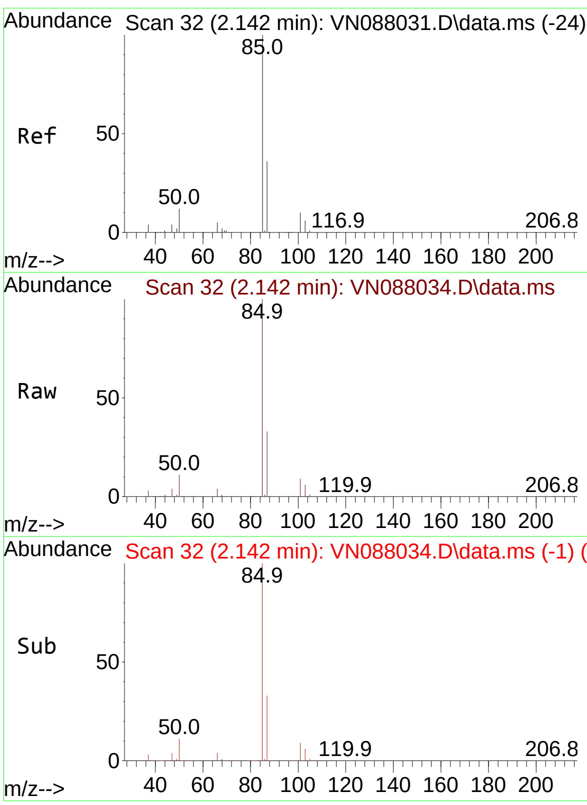


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:128 Resp: 70768

Ion	Ratio	Lower	Upper
128	100		
49	186.8	0.0	439.8
130	124.4	0.0	325.8

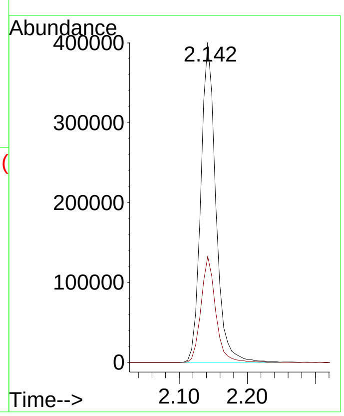




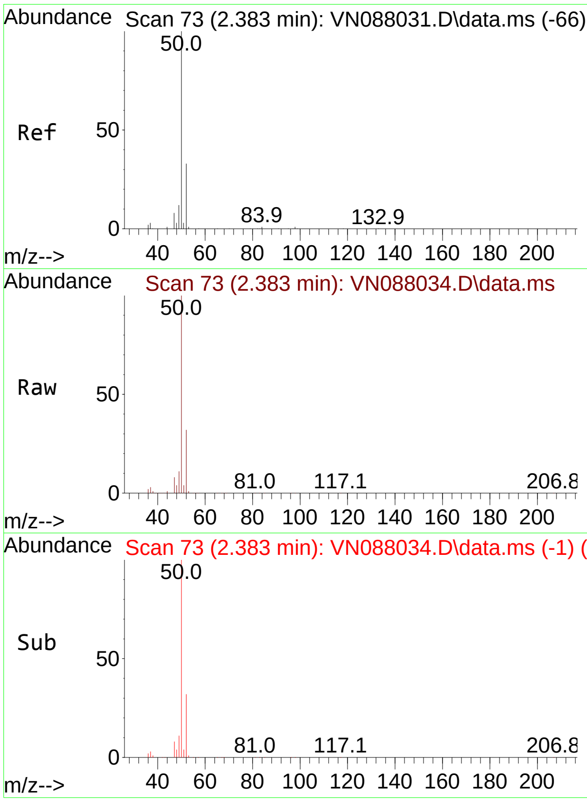
#2
Dichlorodifluoromethane
Concen: 151.526 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 85 Resp: 614191

Ion	Ratio	Lower	Upper
85	100		
87	33.2	17.9	53.8



ICAL Form



#3
Chloromethane
Concen: 149.783 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

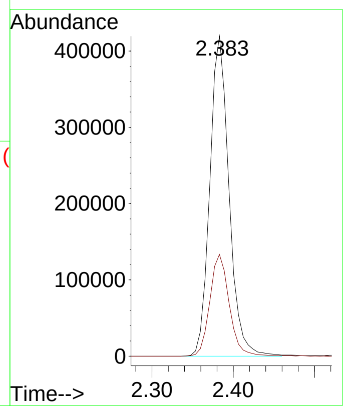
Tgt Ion: 50 Resp: 68832

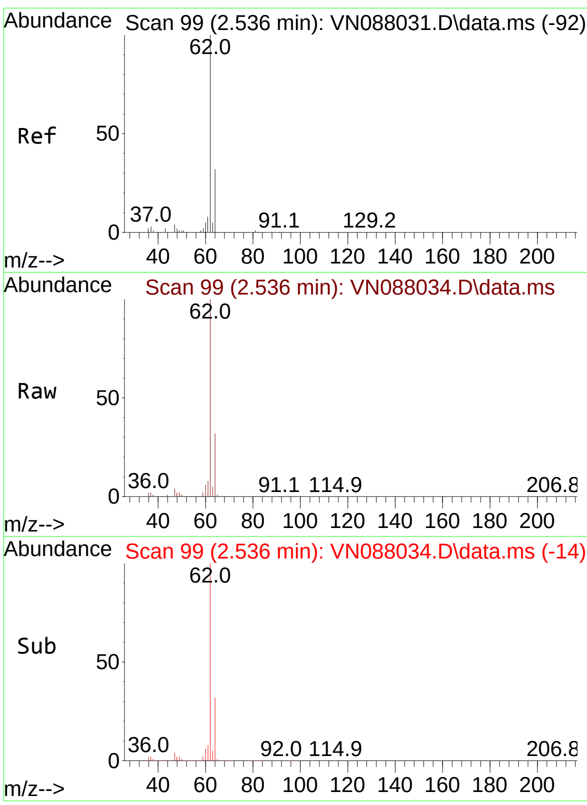
Ion	Ratio	Lower	Upper
50	100		
52	31.8	26.3	39.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

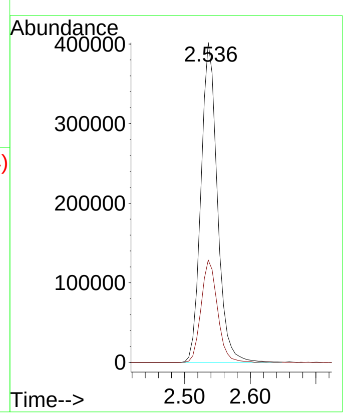




#4
Vinyl Chloride
Concen: 146.257 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 62 Resp: 700818

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.7	38.5



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
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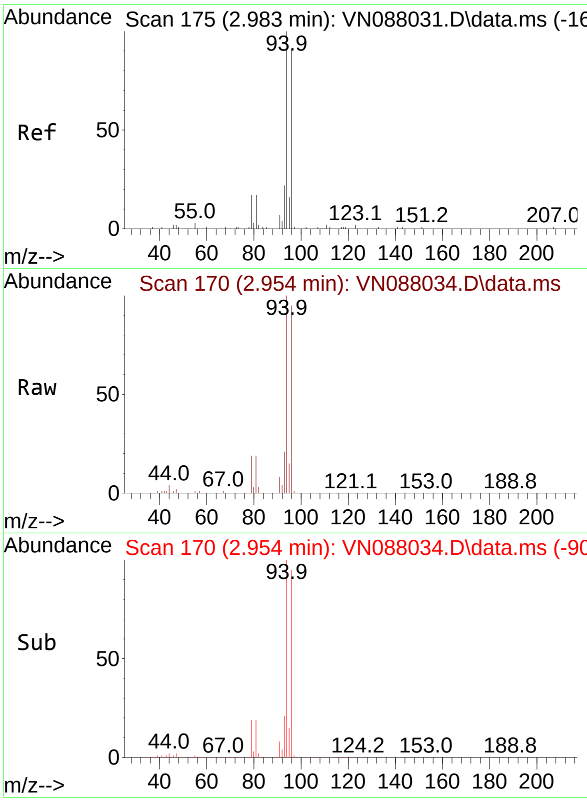
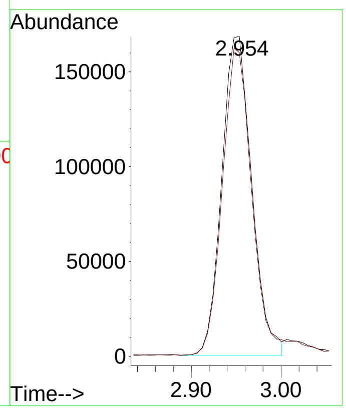
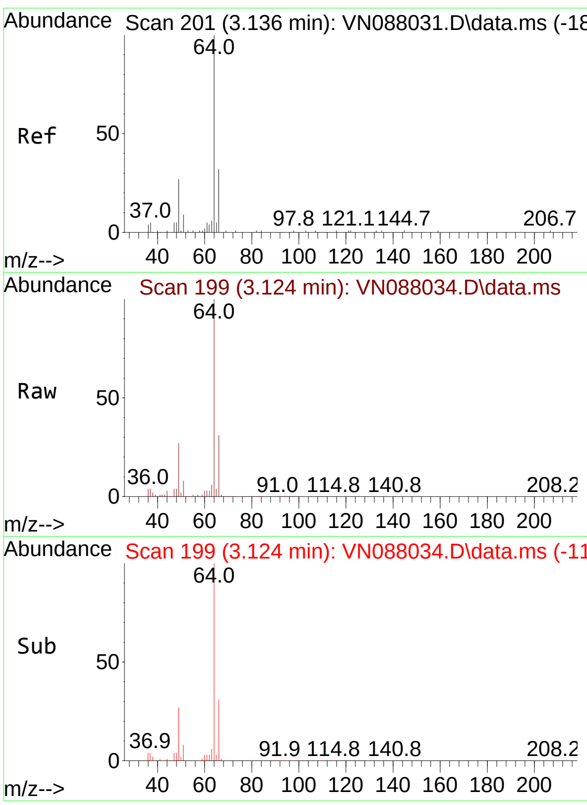
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

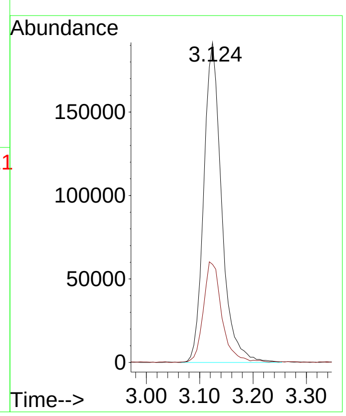


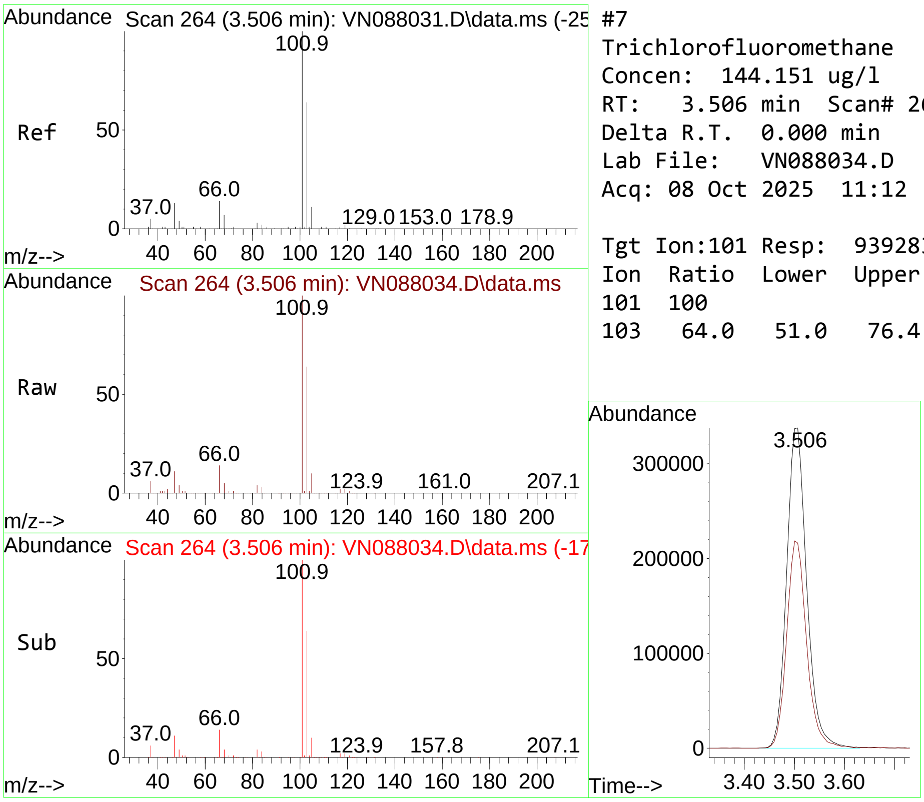

```
#5
Bromomethane
Concen:  151.745 ug/l
RT:   2.954 min  Scan# 1
Delta R.T.  -0.029 min
Lab File:   VN088034.D
Acq: 08 Oct 2025  11:12

Tgt Ion: 94 Resp:  39099
Ion  Ratio  Lower  Upper
 94  100
 96   94.7   73.0  109.4
```






```
#6
Chloroethane
Concen:  141.605 ug/l
RT:   3.124 min  Scan# 199
Delta R.T.  -0.012 min
Lab File:   VN088034.D
Acq: 08 Oct 2025  11:12

Tgt Ion: 64 Resp:  447592
Ion  Ratio  Lower  Upper
 64  100
 66   30.5   26.8   40.2
```





#7
Trichlorofluoromethane
Concen: 144.151 ug/l
RT: 3.506 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

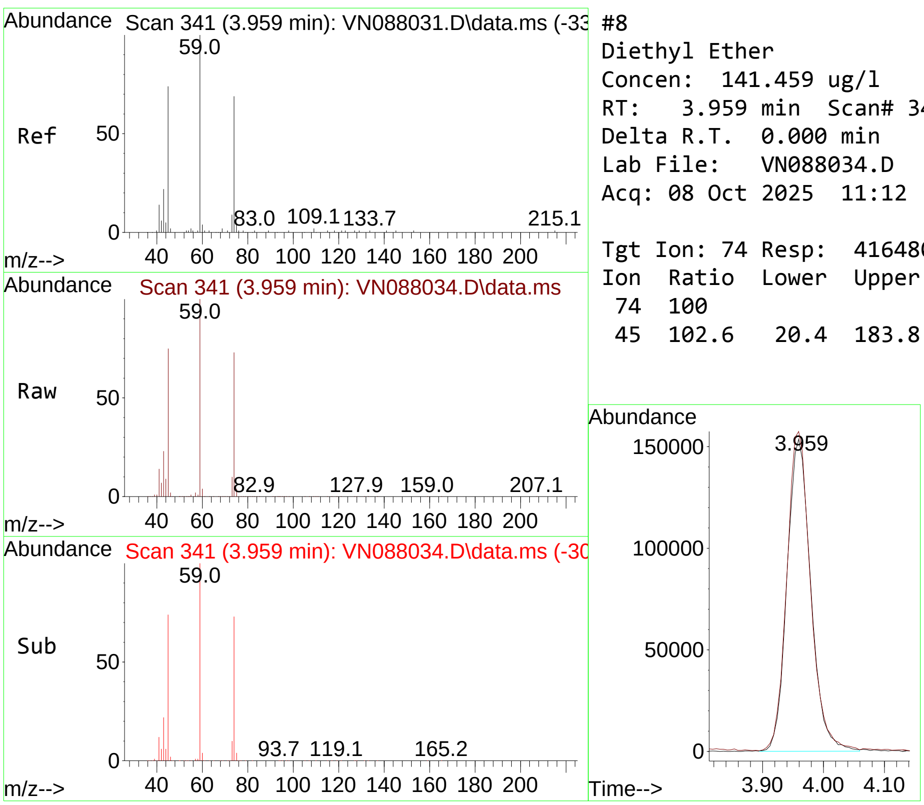
Tgt Ion:101 Resp: 93928

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.0	76.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

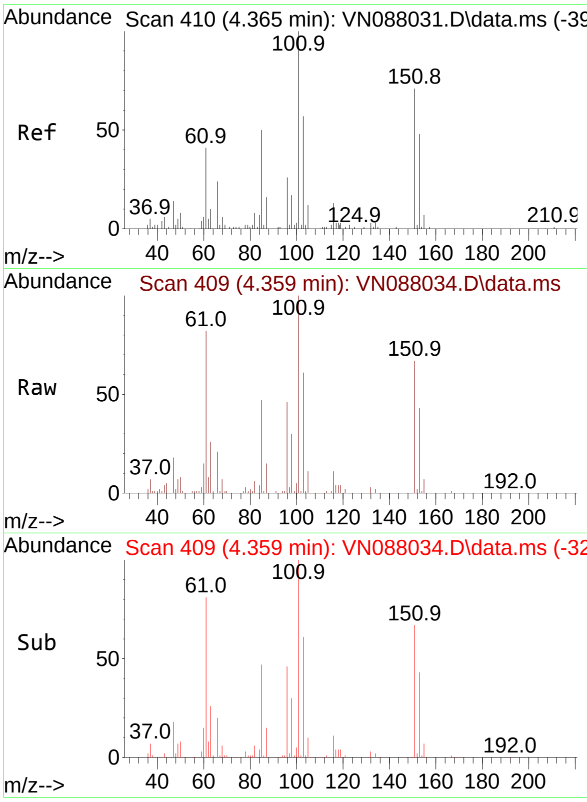


#8
Diethyl Ether
Concen: 141.459 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 74 Resp: 416480

Ion	Ratio	Lower	Upper
74	100		
45	102.6	20.4	183.8

ICAL Form



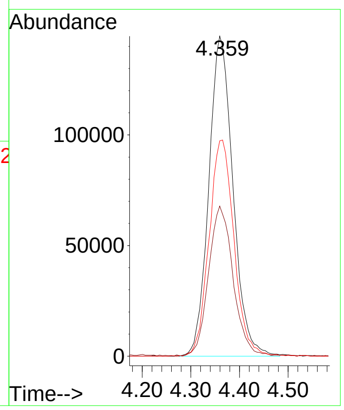
#9
1,1,2-Trichlorotrifluoroethane
Concen: 143.242 ug/l
RT: 4.359 min Scan# 40
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

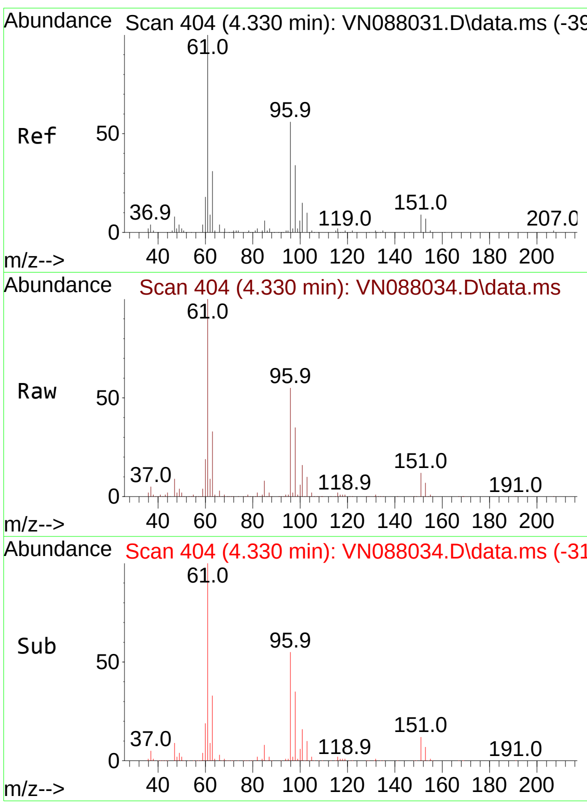
Tgt Ion:101 Resp: 49964

Ion	Ratio	Lower	Upper
101	100		
85	47.5	0.0	103.2
151	69.5	0.0	141.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

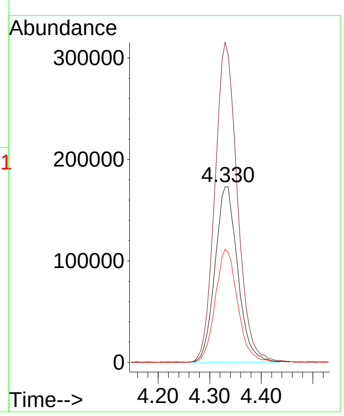




#10
1,1-Dichloroethene
Concen: 142.248 ug/l
RT: 4.330 min Scan# 404
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 96 Resp: 529290

Ion	Ratio	Lower	Upper
96	100		
61	182.4	144.1	216.1
98	64.4	49.0	73.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2025
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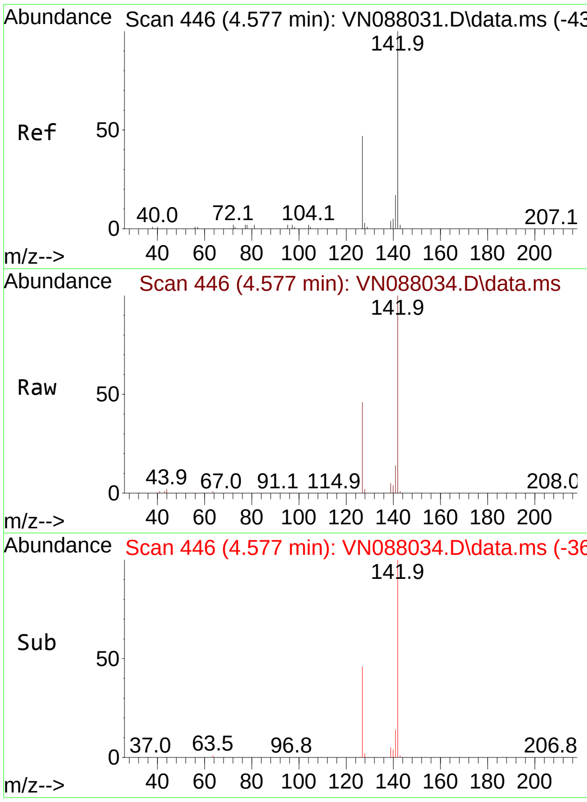
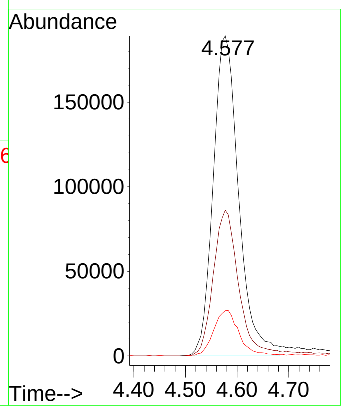
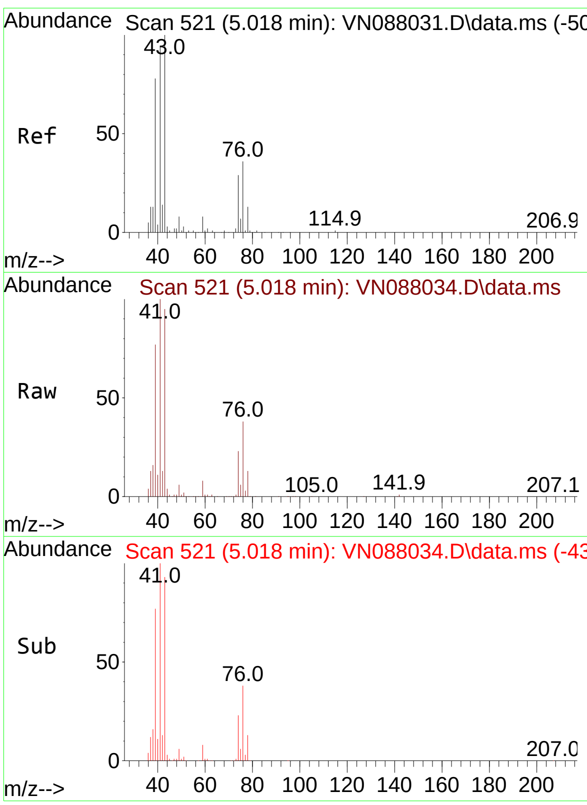


#11
Methyl Iodide
Concen: 189.280 ug/l
RT: 4.577 min Scan# 44
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:142 Resp: 649111

Ion	Ratio	Lower	Upper
142	100		
127	45.5	23.4	70.3
141	14.1	8.8	26.2

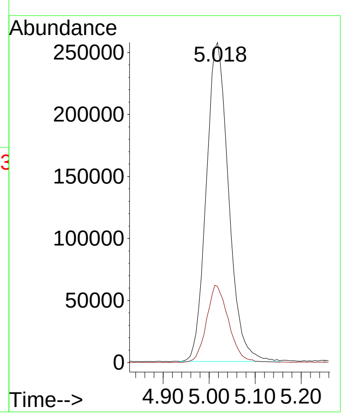




#12
Methyl Acetate
Concen: 148.543 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 43 Resp: 874170

Ion	Ratio	Lower	Upper
43	100		
74	23.8	23.3	34.9

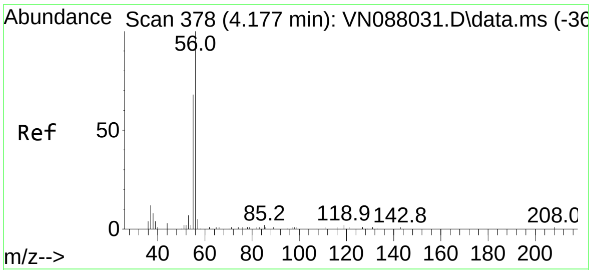


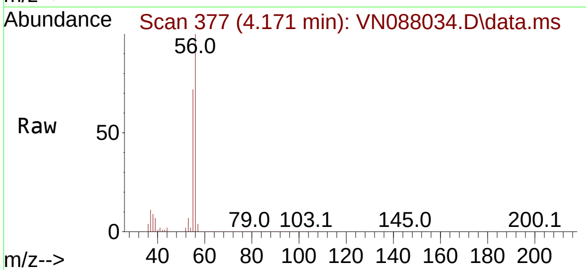
ICAL Form

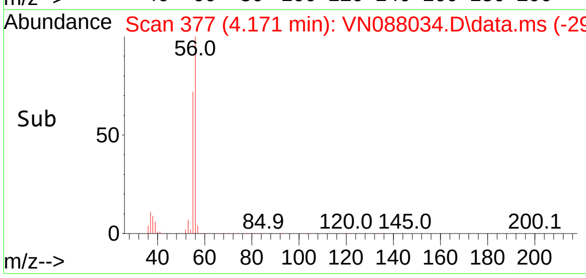
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

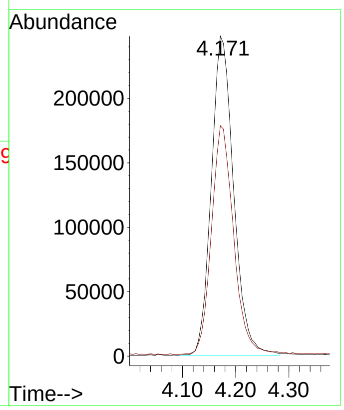


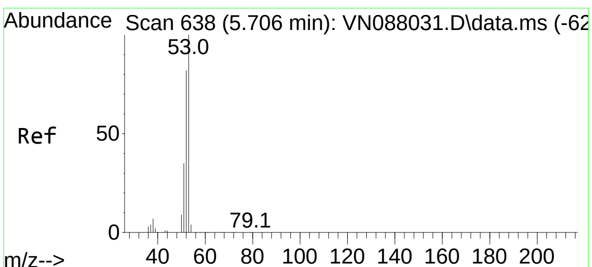


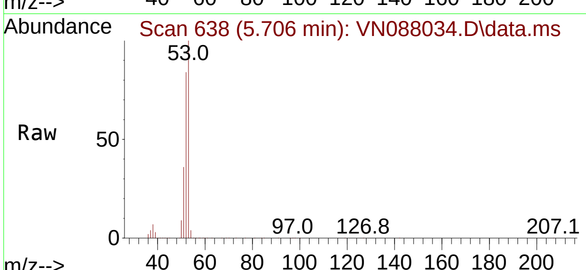


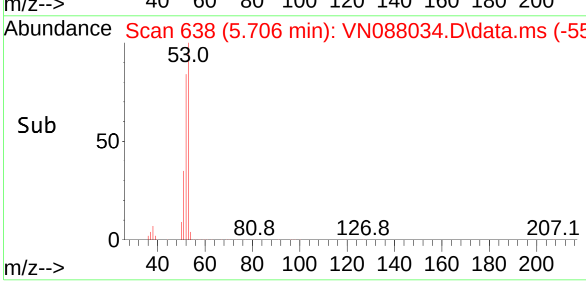

```
#13
Acrolein
Concen:  771.539 ug/l
RT:   4.171 min  Scan# 3
Delta R.T.  -0.006 min
Lab File:   VN088034.D
Acq: 08 Oct 2025  11:12

Tgt Ion: 56 Resp:  72222
Ion  Ratio  Lower  Upper
 56  100
 55   71.0    0.3    0.5
```



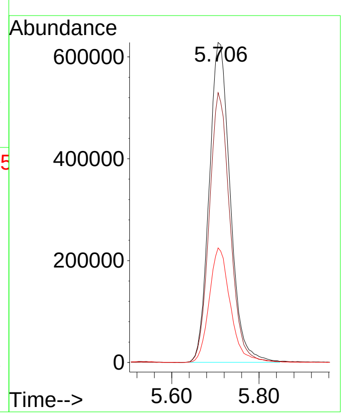


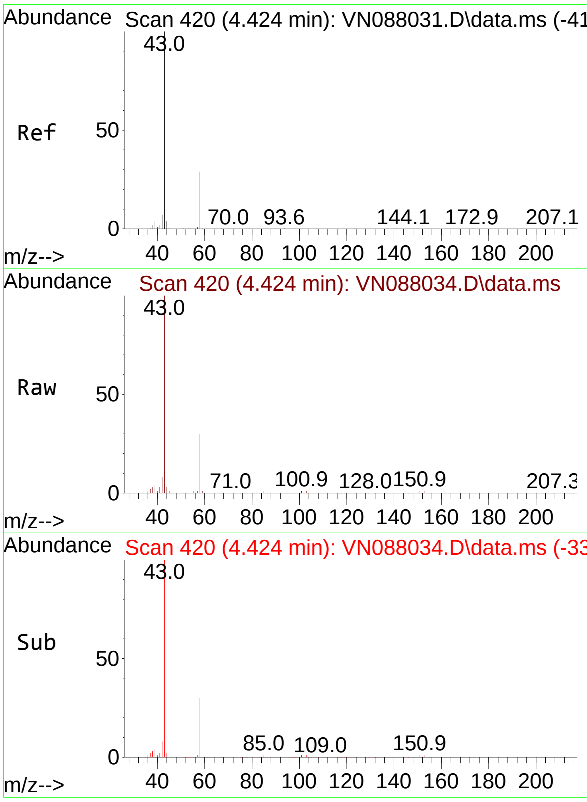





```
#14
Acrylonitrile
Concen:  723.151 ug/l
RT:   5.706 min  Scan# 638
Delta R.T.  0.000 min
Lab File:   VN088034.D
Acq: 08 Oct 2025  11:12

Tgt Ion: 53 Resp: 2111000
Ion  Ratio  Lower  Upper
 53  100
 52   82.8   41.3  124.1
 51   36.0   18.0   54.0
```





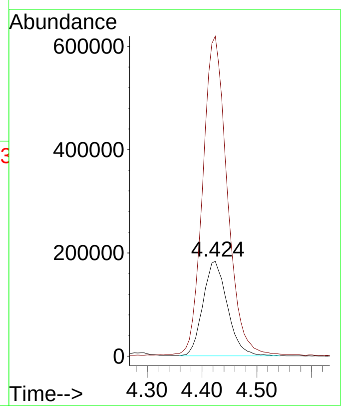
#15
Acetone
Concen: 659.761 ug/l
RT: 4.424 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

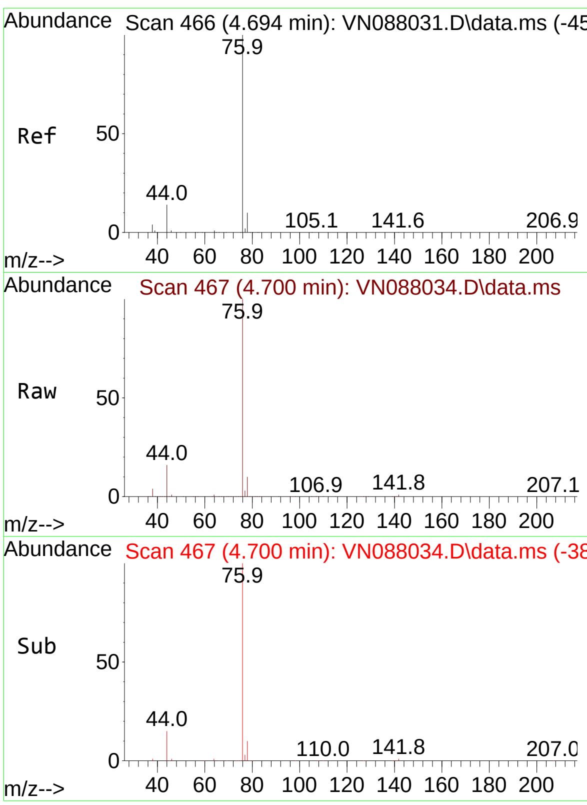
Tgt Ion: 58 Resp: 56577

Ion	Ratio	Lower	Upper
58	100		
43	336.2	282.6	424.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

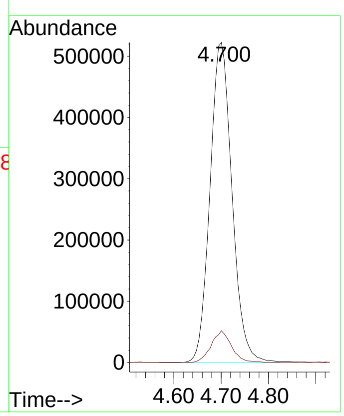




#16
Carbon Disulfide
Concen: 144.966 ug/l
RT: 4.700 min Scan# 467
Delta R.T. 0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

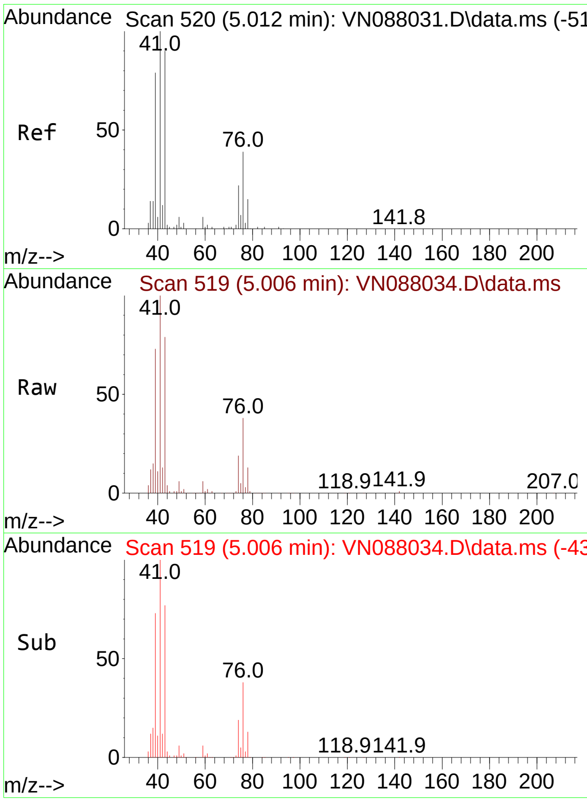
Tgt Ion: 76 Resp: 1690921

Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.8	11.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

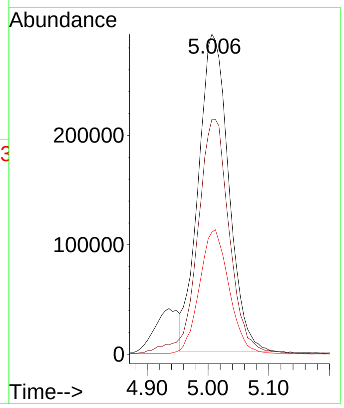
Manual Integrations
APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

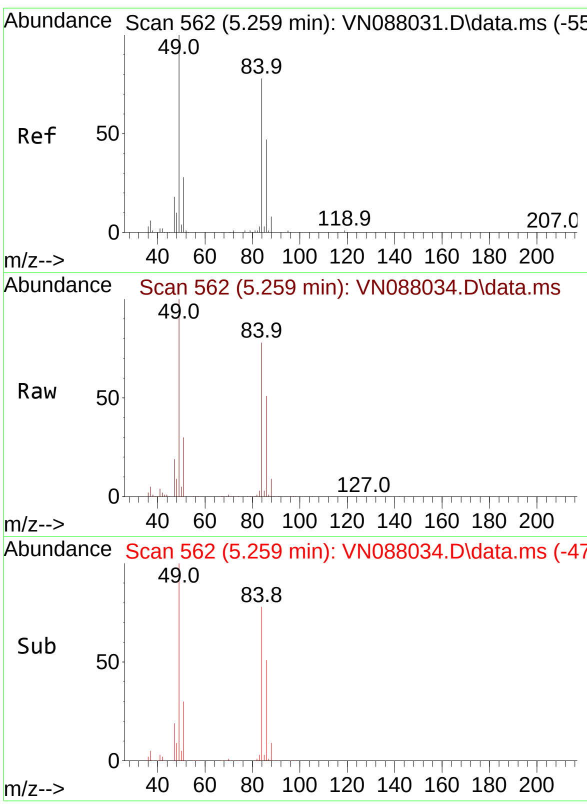


#17
Allyl chloride
Concen: 143.620 ug/l
RT: 5.006 min Scan# 5
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 41 Resp: 100838

Ion	Ratio	Lower	Upper
41	100		
39	73.3	36.4	109.2
76	38.3	18.1	54.1

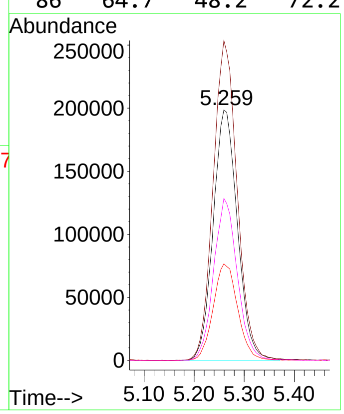


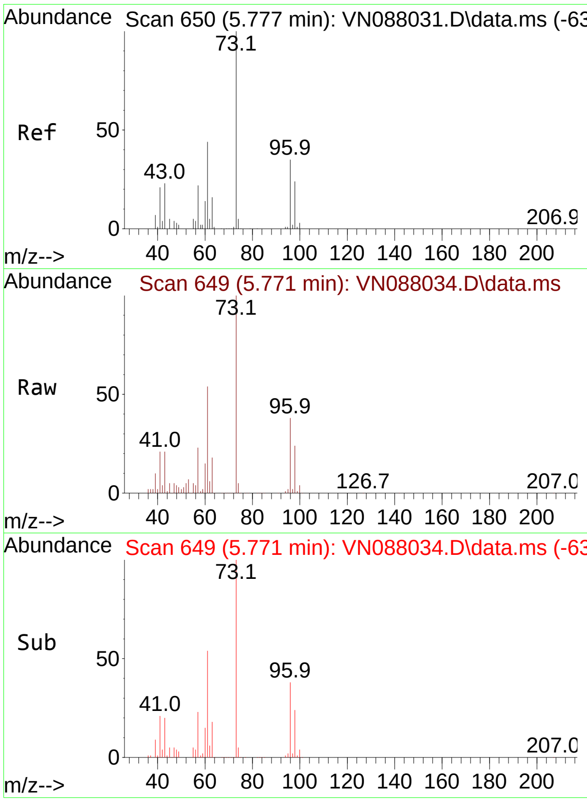


#18
Methylene Chloride
Concen: 141.817 ug/l
RT: 5.259 min Scan# 562
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 84 Resp: 670686

Ion	Ratio	Lower	Upper
84	100		
49	127.9	102.6	153.8
51	38.5	28.6	42.8
86	64.7	48.2	72.2





#19
trans-1,2-Dichloroethene
Concen: 146.099 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

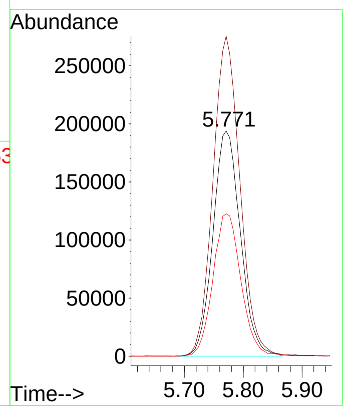
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

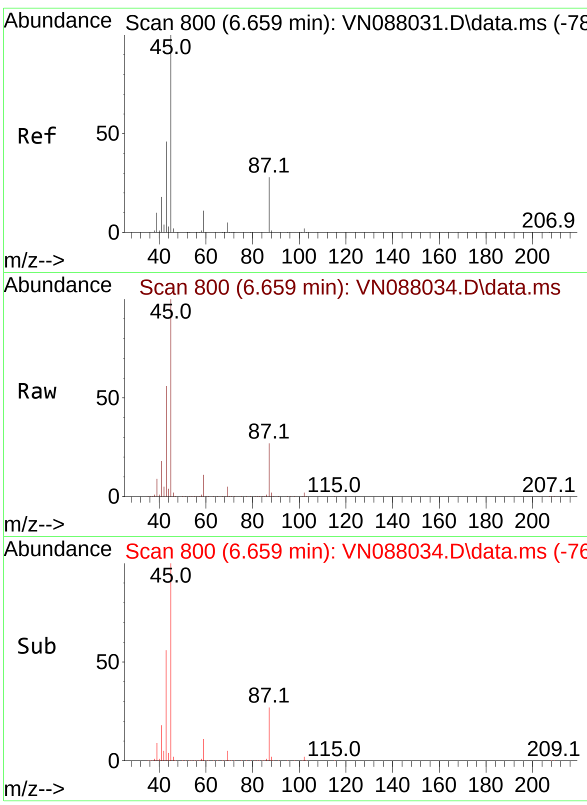
Tgt Ion: 96 Resp: 62851

Ion	Ratio	Lower	Upper
96	100		
61	142.0	100.6	151.0
98	63.1	54.0	81.0

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

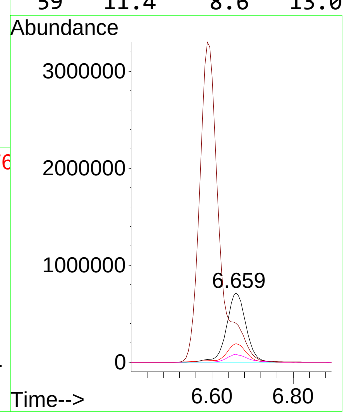




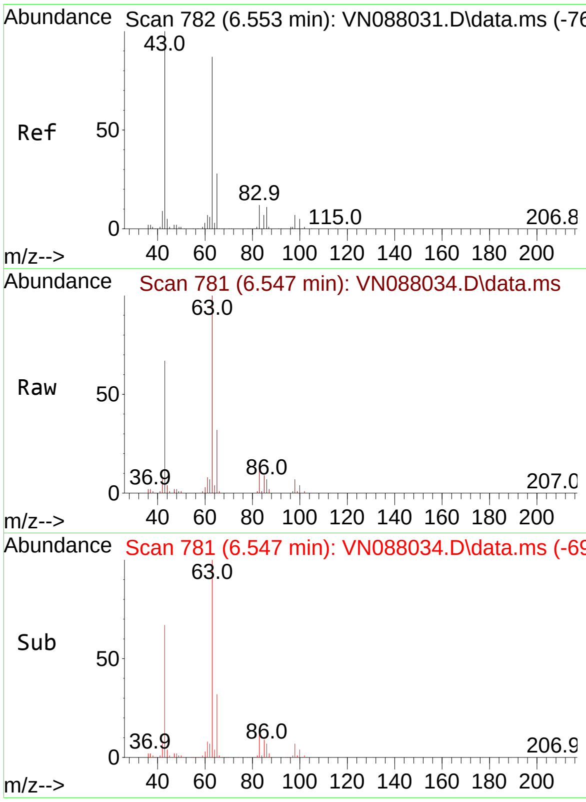
#20
Diisopropyl ether
Concen: 148.749 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 45 Resp: 2377730

Ion	Ratio	Lower	Upper
45	100		
43	55.2	46.1	69.1
87	26.7	22.3	33.5
59	11.4	8.6	13.0



ICAL Form



#21
1,1-Dichloroethane
Concen: 145.997 ug/l
RT: 6.547 min Scan# 78
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

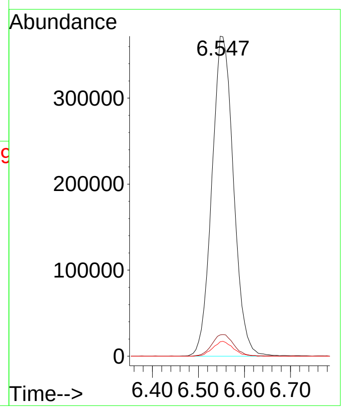
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

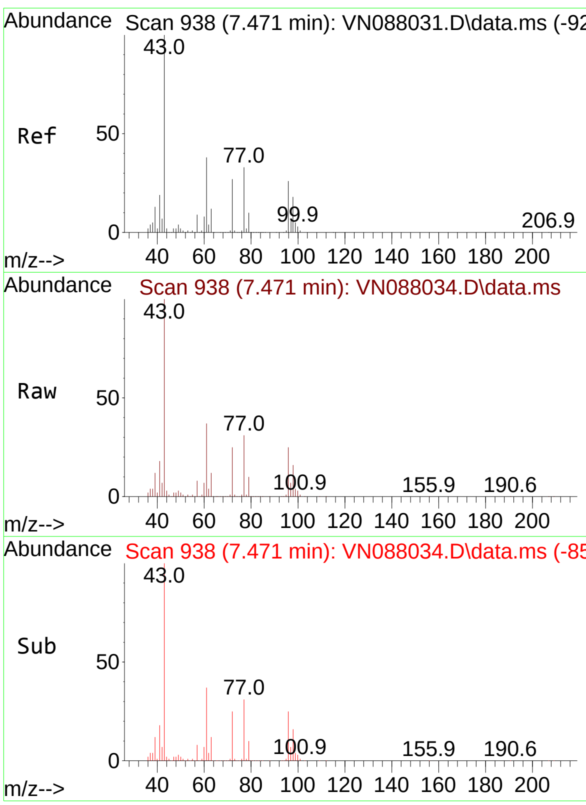
Tgt Ion: 63 Resp: 1214899

Ion	Ratio	Lower	Upper
63	100		
98	6.6	4.3	12.8
100	4.5	2.6	8.0

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

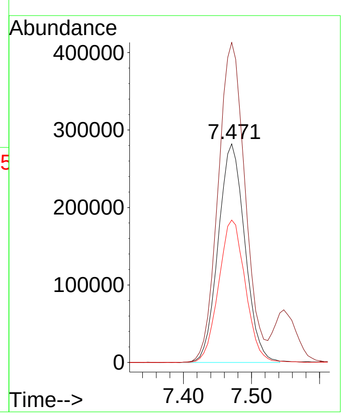




#22
cis-1,2-Dichloroethene
Concen: 142.727 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 96 Resp: 768626

Ion	Ratio	Lower	Upper
96	100		
61	148.8	117.0	175.6
98	65.5	52.6	79.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
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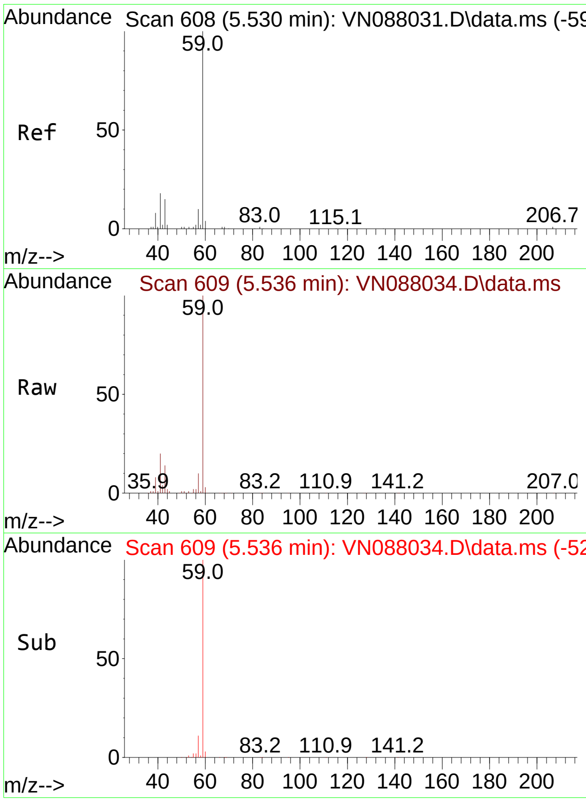
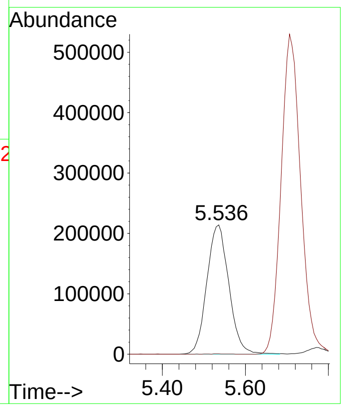
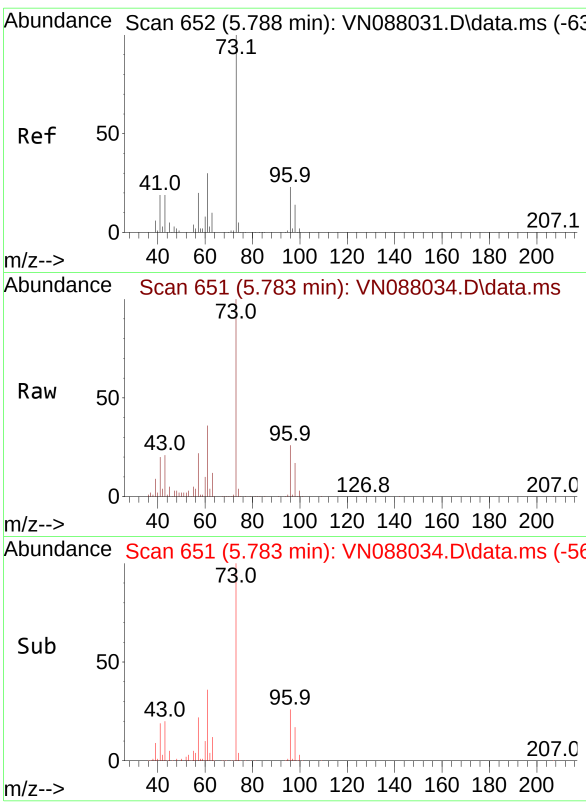


#23
tert-Butyl Alcohol
Concen: 673.981 ug/l
RT: 5.536 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

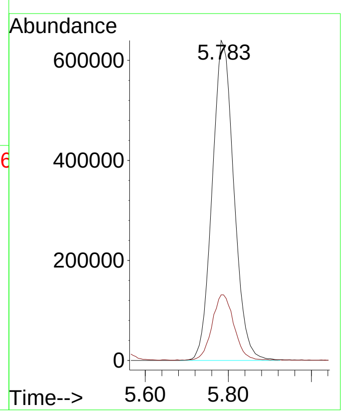
Tgt Ion: 59 Resp: 78907
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0



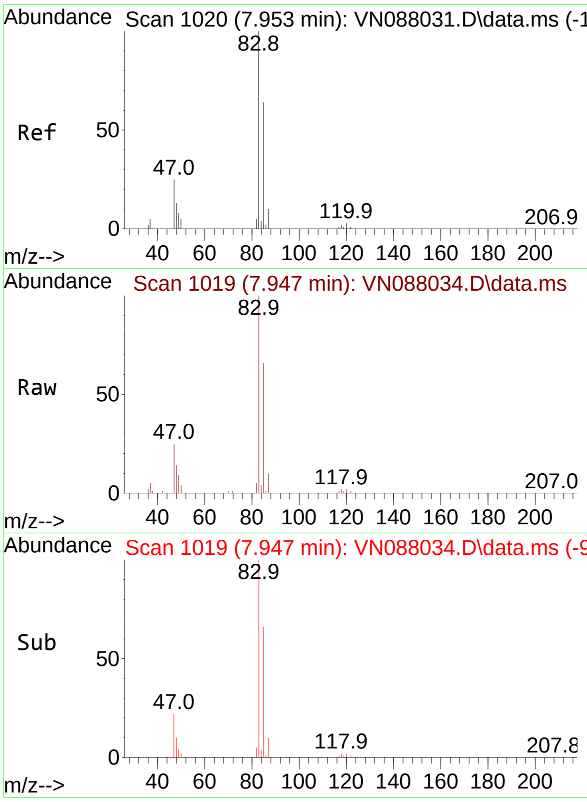


#24
Methyl tert-Butyl Ether
Concen: 145.094 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 73 Resp: 2330339
Ion Ratio Lower Upper
73 100
43 20.5 17.0 25.4



ICAL Form



#25
Chloroform
Concen: 143.082 ug/l
RT: 7.947 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 83 Resp: 1228670
Ion Ratio Lower Upper
83 100
85 65.8 50.9 76.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
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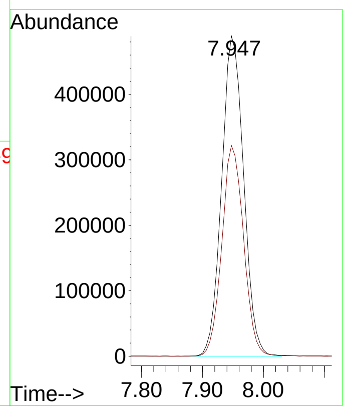
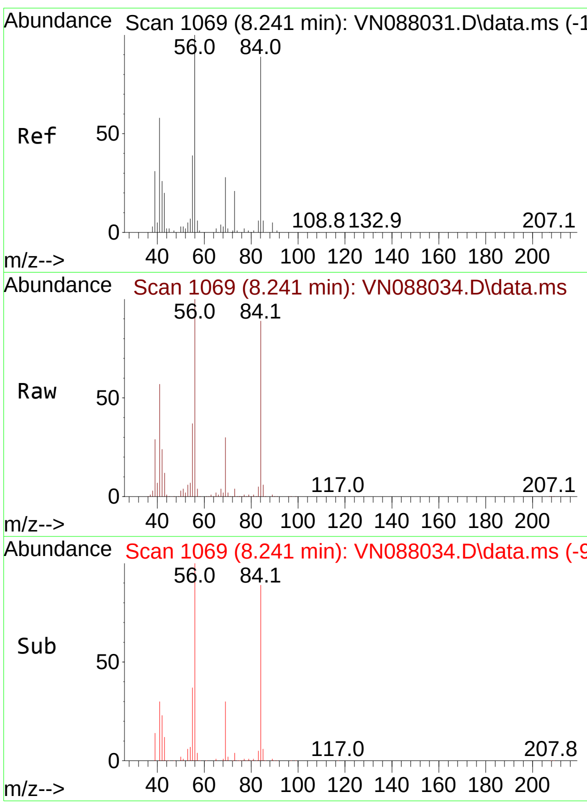
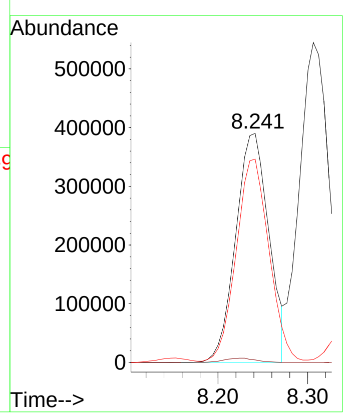
Supervised By :Mahesh Dadoda   10/10/2025



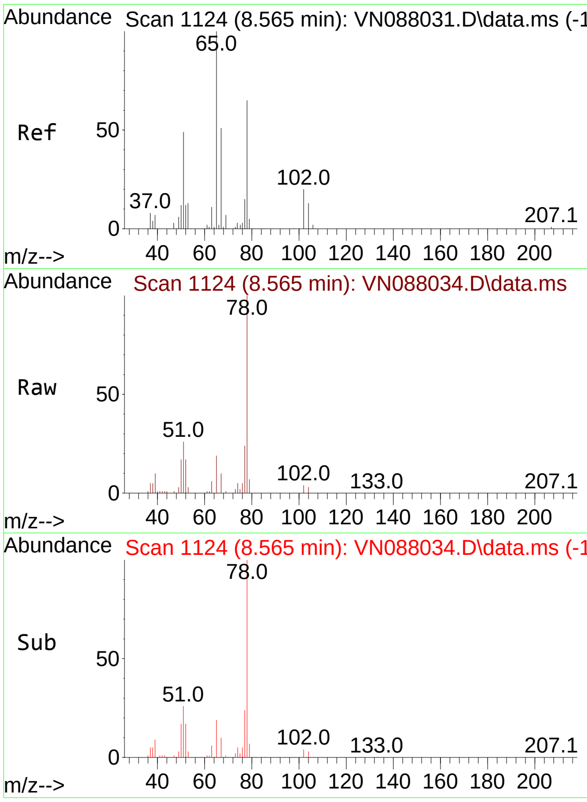


#26
Cyclohexane
Concen: 145.104 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 56 Resp: 1000427
Ion Ratio Lower Upper
56 100
89 1.8 8.6 12.8#
84 88.4 69.6 104.4



ICAL Form



#27
1,2-Dichloroethane-d4
Concen: 29.782 ug/l
RT: 8.565 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 16411

Ion	Ratio	Lower	Upper
65	100		
67	53.2	41.9	62.9

Manual Integrations APPROVED

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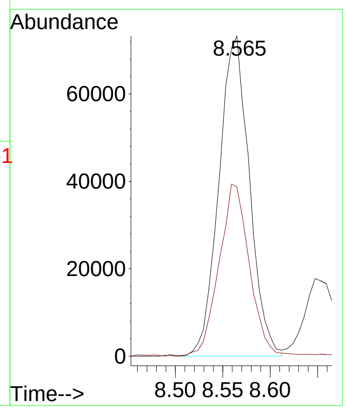
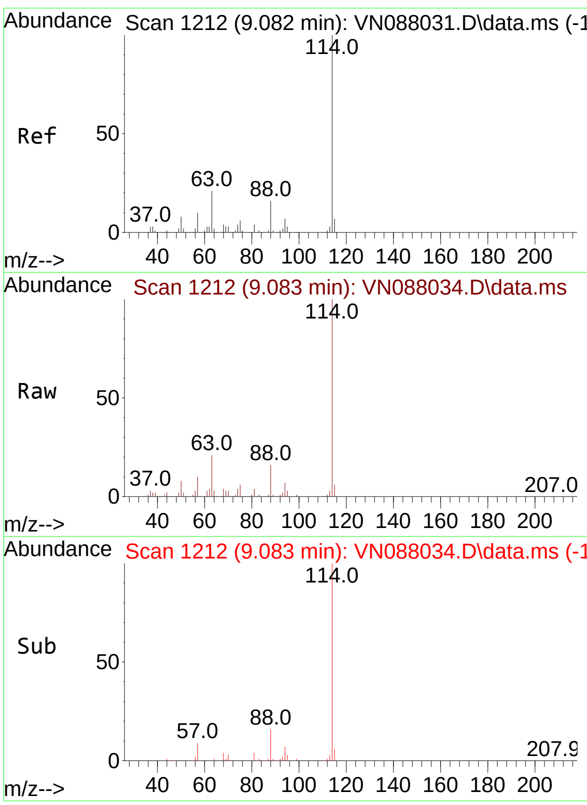
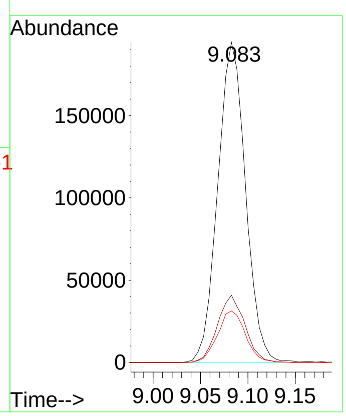




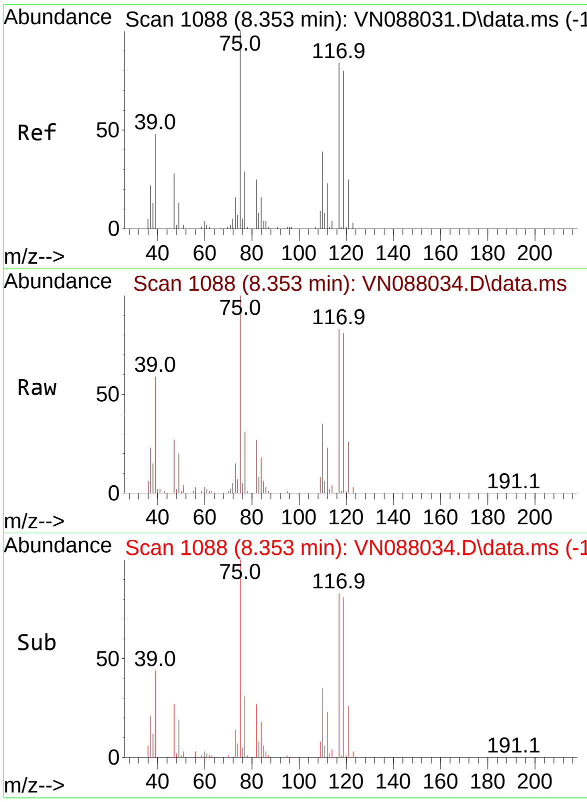
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:114 Resp: 396399

Ion	Ratio	Lower	Upper
114	100		
63	20.7	16.6	25.0
88	16.2	12.6	18.8



ICAL Form



#29
1,1-Dichloropropene
Concen: 147.179 ug/l
RT: 8.353 min   Scan# 1(
Delta R.T.   0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025   11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 83626

Ion	Ratio	Lower	Upper
75	100		
110	33.7	0.0	72.2
77	30.7	0.0	60.6

Manual Integrations APPROVED

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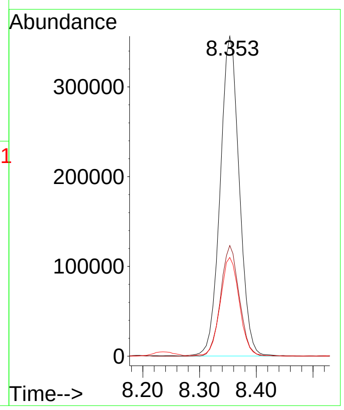
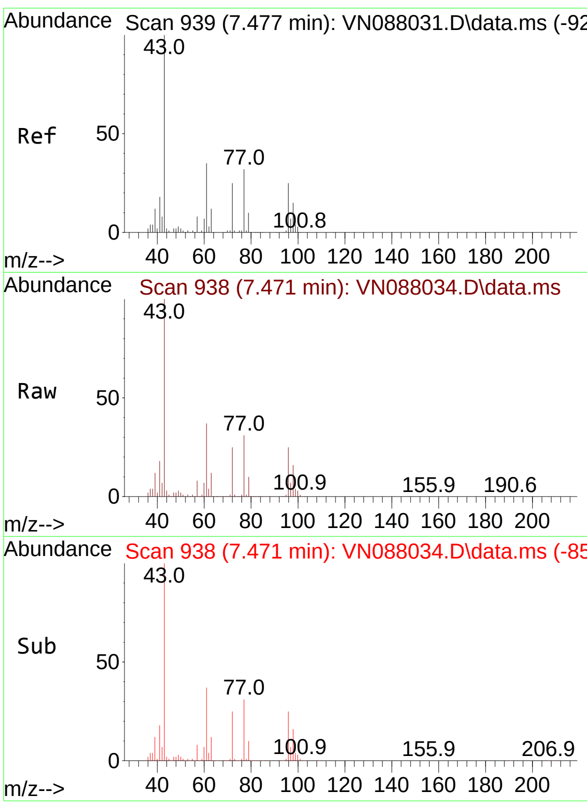
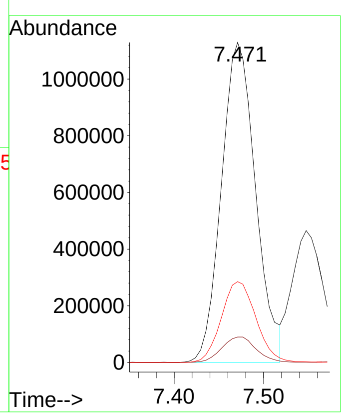




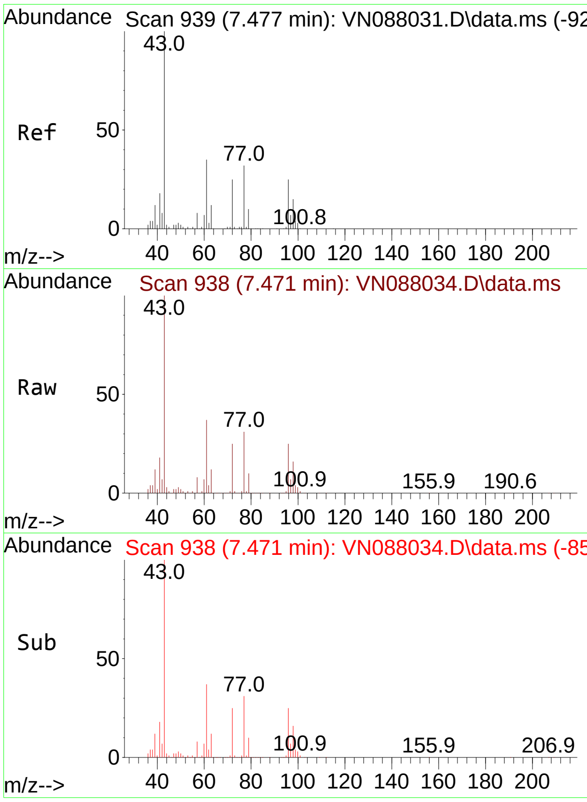
#30
2-Butanone
Concen: 715.429 ug/l
RT: 7.471 min   Scan# 938
Delta R.T.   -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025   11:12

Tgt Ion: 43 Resp: 2998106

Ion	Ratio	Lower	Upper
43	100		
57	8.0	6.5	9.7
72	25.7	21.4	32.2



ICAL Form



#31
2,2-Dichloropropane
Concen: 139.013 ug/l
RT: 7.471 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 77 Resp: 101910

Ion	Ratio	Lower	Upper
77	100		
97	22.4	17.8	26.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
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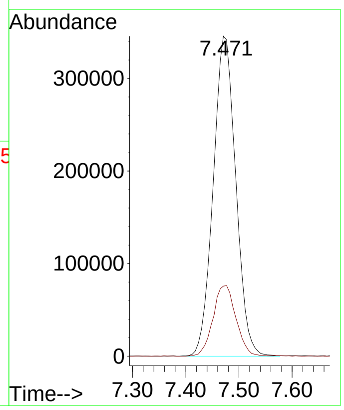
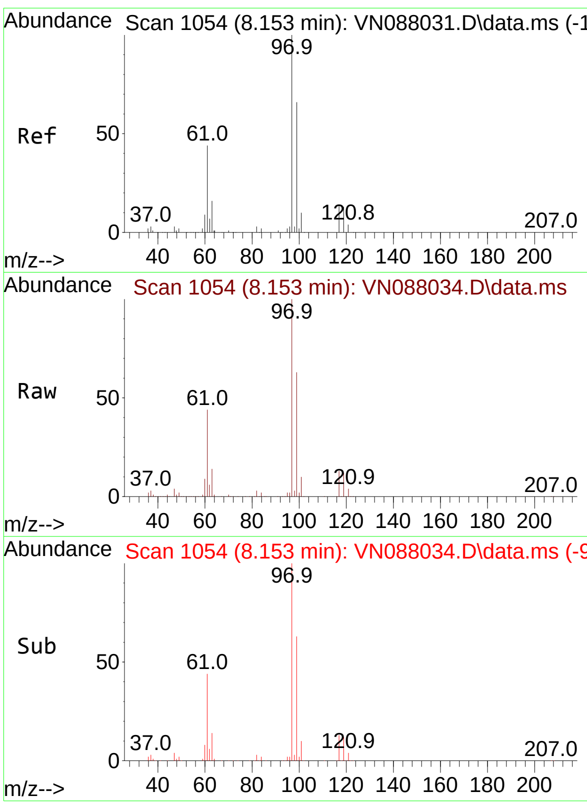
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

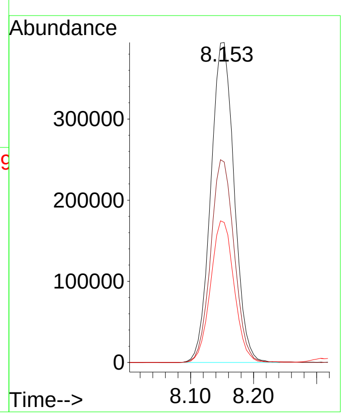




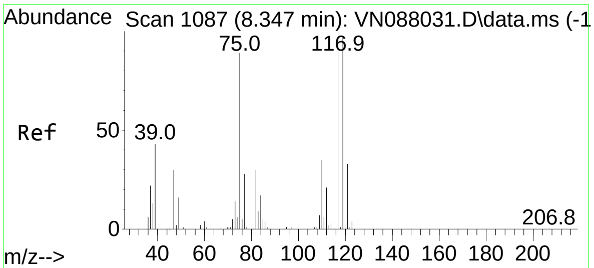
#32
1,1,1-Trichloroethane
Concen: 143.482 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

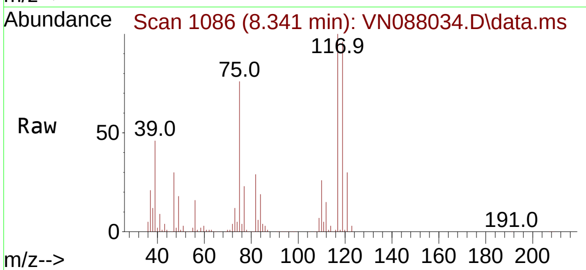
Tgt Ion: 97 Resp: 1018706

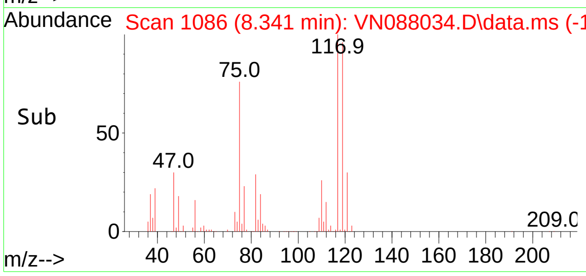
Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.4	77.2
61	44.5	34.7	52.1



ICAL Form







#33
Carbon Tetrachloride
Concen: 146.233 ug/l
RT: 8.341 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

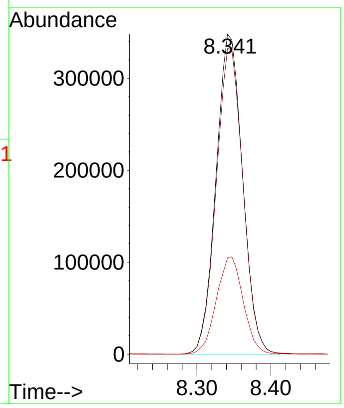
Tgt Ion:117 Resp: 86964

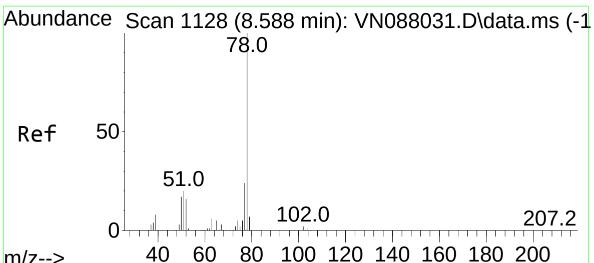
Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.9	116.9
121	30.1	26.4	39.6

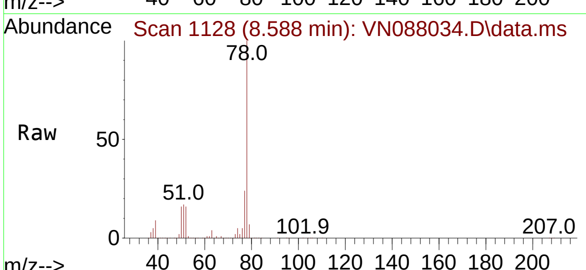
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

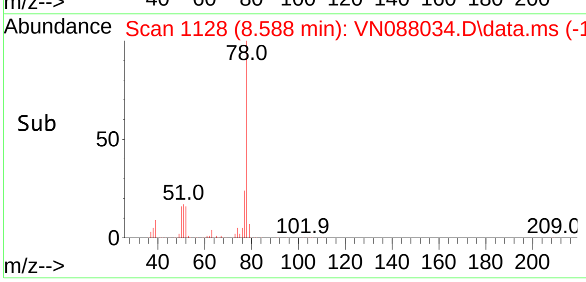
Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025





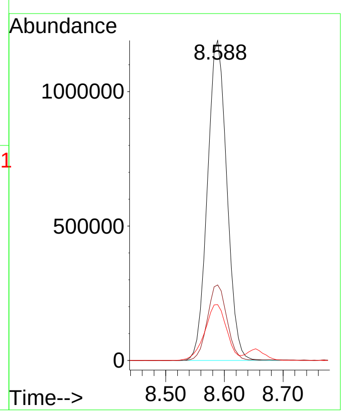


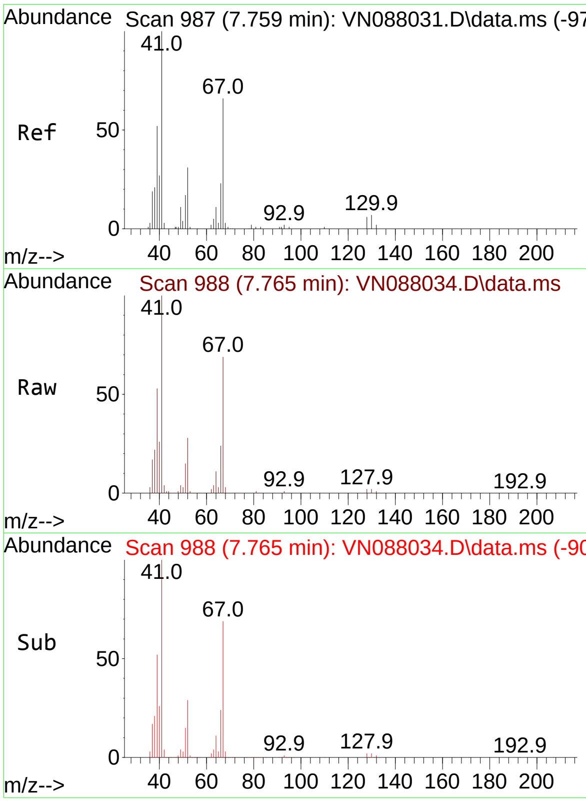


#34
Benzene
Concen: 145.591 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 78 Resp: 2743909

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3
51	17.3	15.6	23.4

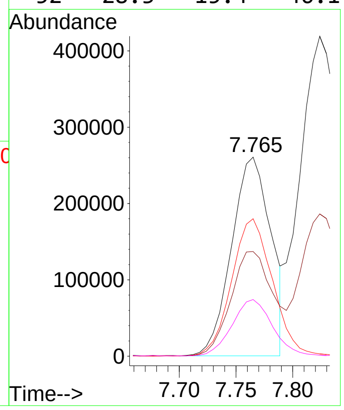




#35
Methacrylonitrile
Concen: 142.327 ug/l
RT: 7.765 min Scan# 98
Delta R.T. 0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 41 Resp: 627210

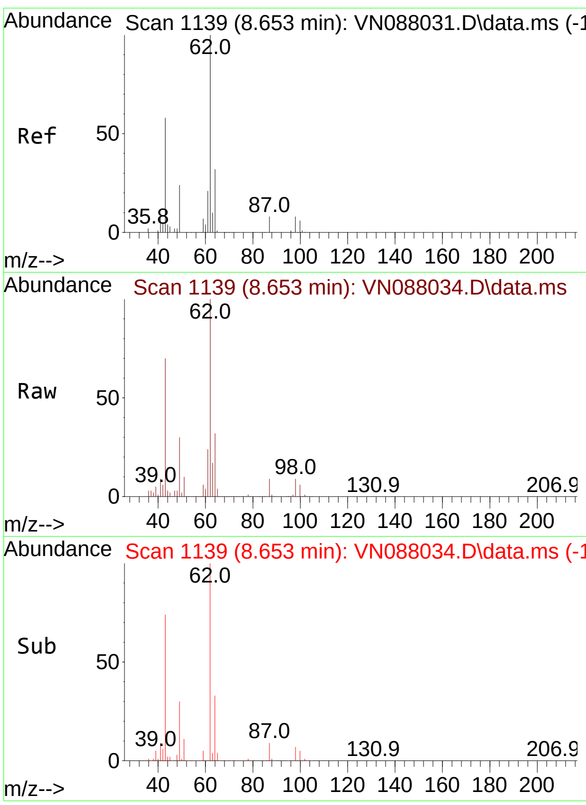
Ion	Ratio	Lower	Upper
41	100		
39	52.4	26.1	78.3
67	69.0	33.1	99.2
52	28.3	15.4	46.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

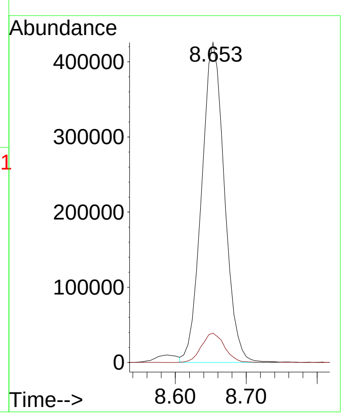
Reviewed By :John Carlone   10/09/2025
Supervised By :Mahesh Dadoda   10/10/2025

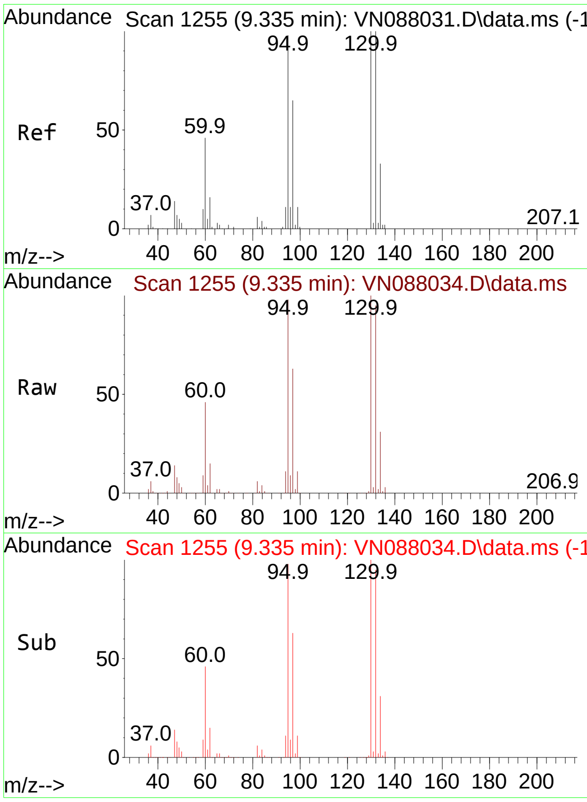


#36
1,2-Dichloroethane
Concen: 145.960 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 62 Resp: 954996

Ion	Ratio	Lower	Upper
62	100		
98	9.2	7.8	11.6





#37
Trichloroethene
Concen: 143.961 ug/l
RT: 9.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:130 Resp: 64281

Ion	Ratio	Lower	Upper
130	100		
95	98.2	78.7	118.1

Instrument : MSVOA_N
ClientSampleId : VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
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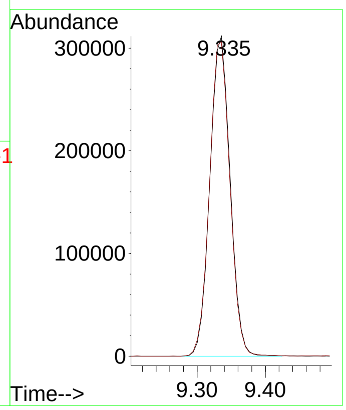
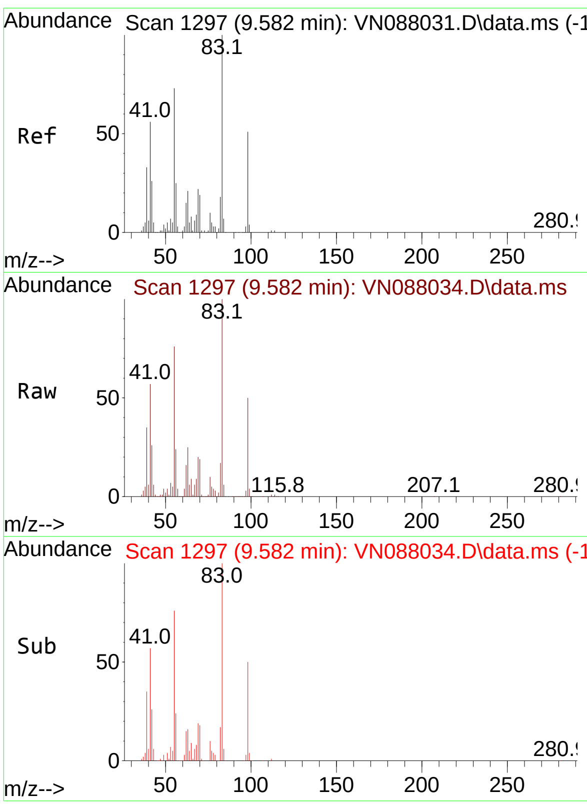
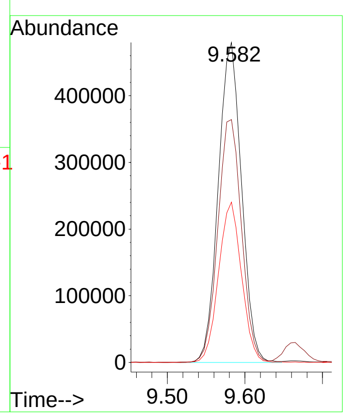




#38
Methylcyclohexane
Concen: 142.937 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

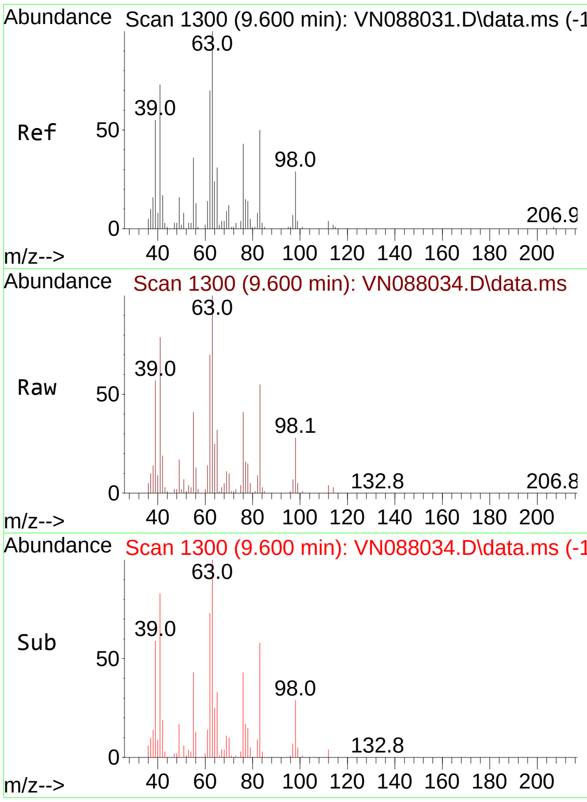
Tgt Ion: 83 Resp: 1002978

Ion	Ratio	Lower	Upper
83	100		
55	77.1	37.3	111.9
98	49.4	25.4	76.0

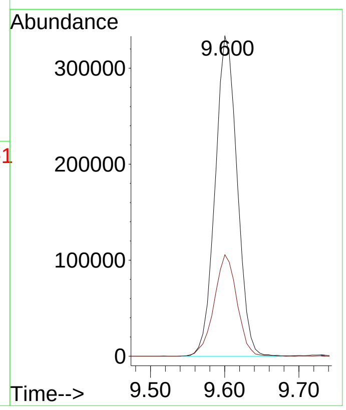


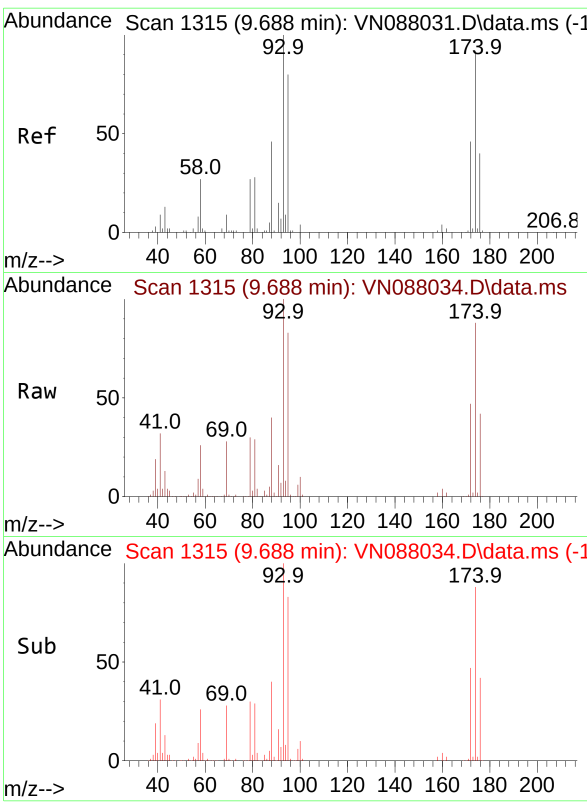
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

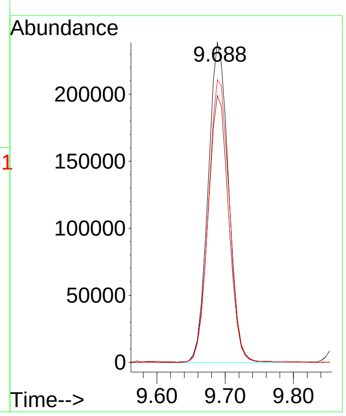


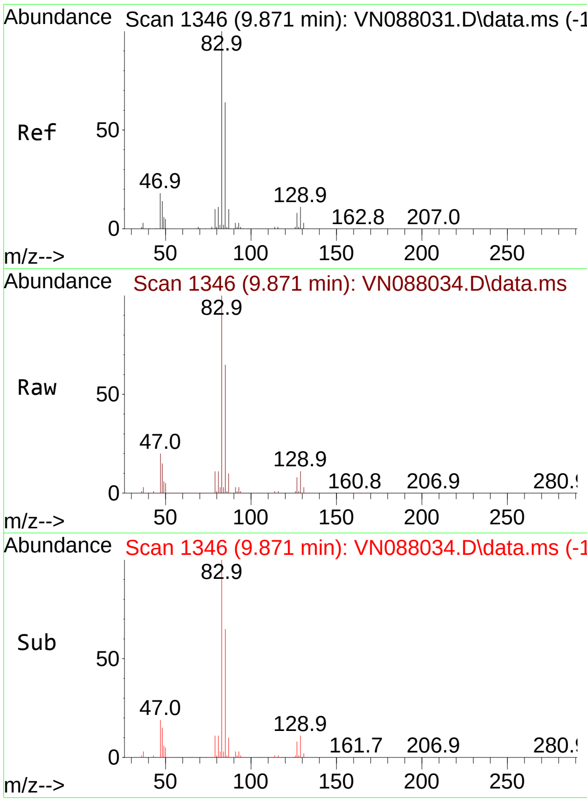

```
#39
1,2-Dichloropropane
Concen:  145.644 ug/l
RT:    9.600 min   Scan# 1
Delta R.T.   0.000 min
Lab File:    VN088034.D
Acq: 08 Oct 2025   11:12

Tgt Ion: 63 Resp:   68826
Ion   Ratio   Lower   Upper
 63   100
 65    31.7    25.0    37.6
```






```
#40
Dibromomethane
Concen:  144.763 ug/l
RT:    9.688 min   Scan# 1315
Delta R.T.   0.000 min
Lab File:    VN088034.D
Acq: 08 Oct 2025   11:12

Tgt Ion: 93 Resp:   497967
Ion   Ratio   Lower   Upper
 93   100
 95    83.8     0.0   158.6
174    90.4     0.0   180.8
```

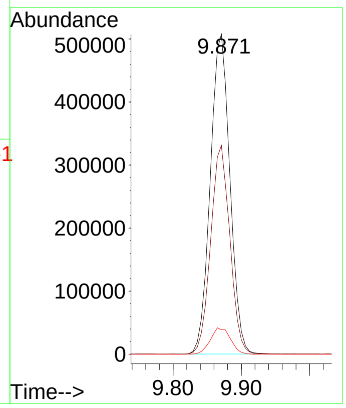




#41
Bromodichloromethane
Concen: 144.501 ug/l
RT: 9.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 83 Resp: 101519

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.0	76.4
127	7.7	6.1	9.1

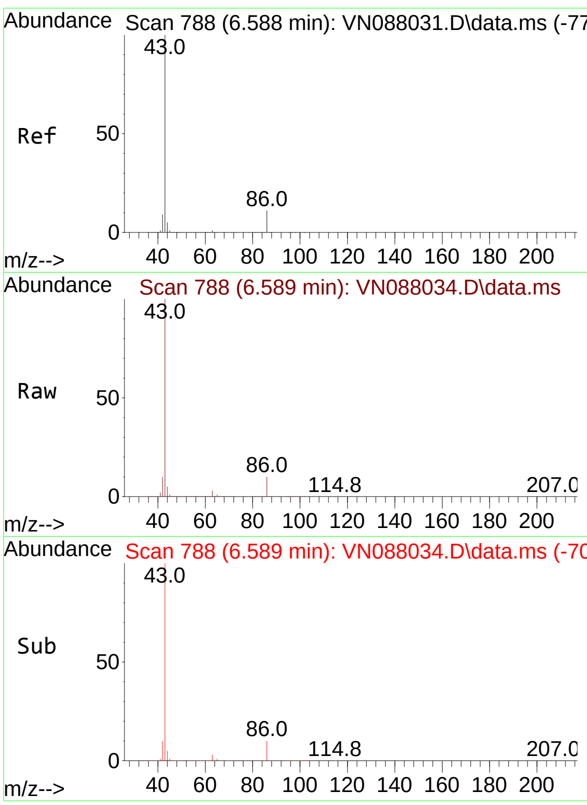


ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

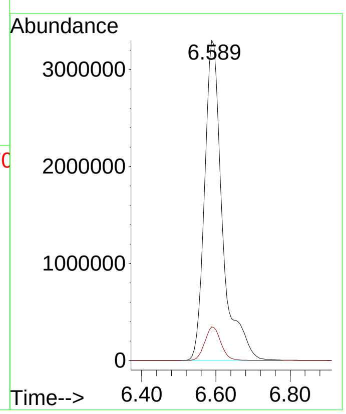
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



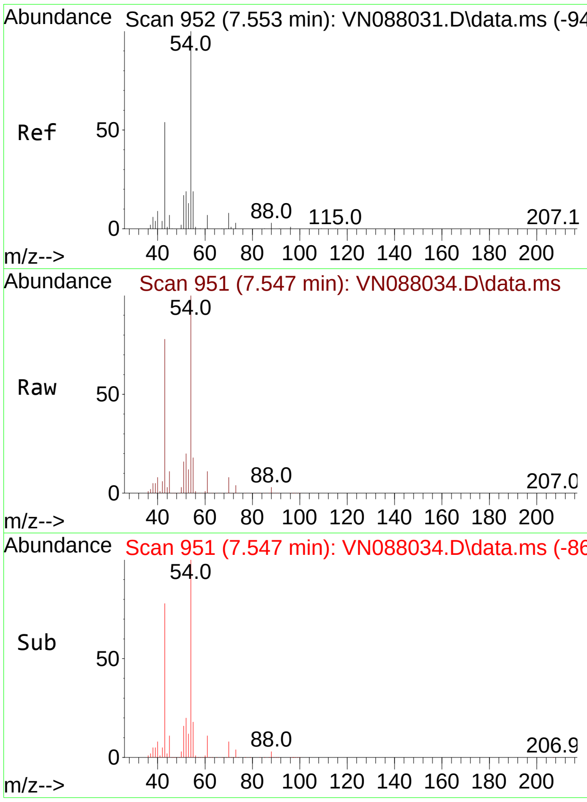
#42
Vinyl Acetate
Concen: 771.067 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 43 Resp:11007914

Ion	Ratio	Lower	Upper
43	100		
86	9.5	8.4	12.6



ICAL Form



#43
Ethyl Acetate
Concen: 145.110 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 116894

Ion	Ratio	Lower	Upper
43	100		
45	15.0	10.2	15.4

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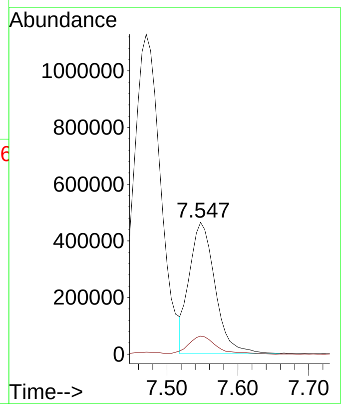
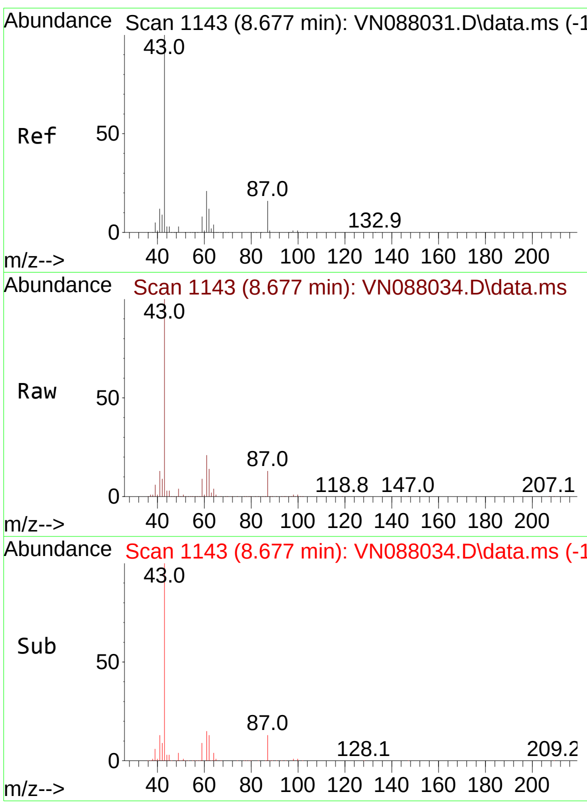
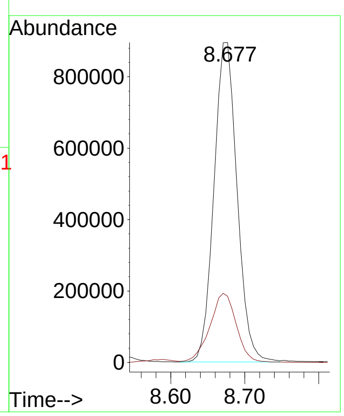




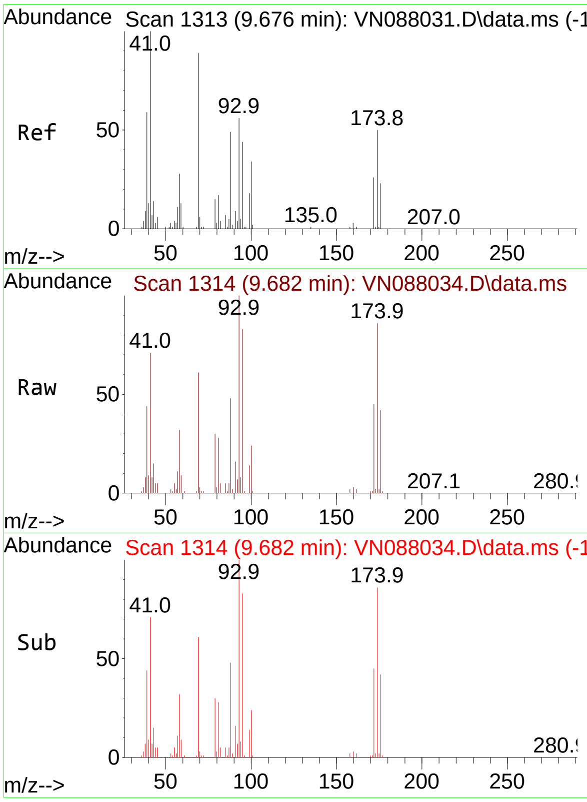
#44
Isopropyl Acetate
Concen: 147.920 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 43 Resp: 1946213

Ion	Ratio	Lower	Upper
43	100		
61	24.5	18.7	28.1



ICAL Form



#45
1,4-Dioxane
Concen: 2634.144 ug/l
RT: 9.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 88 Resp: 23050

Ion	Ratio	Lower	Upper
88	100		
43	26.1	18.6	27.8
58	72.0	57.4	86.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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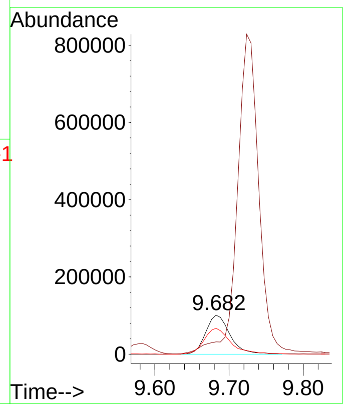
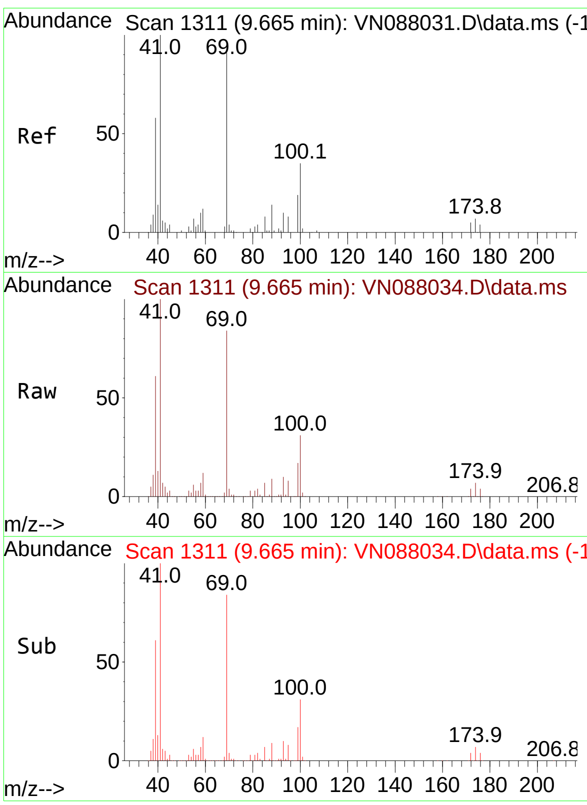
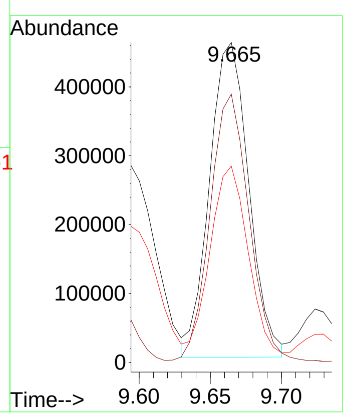


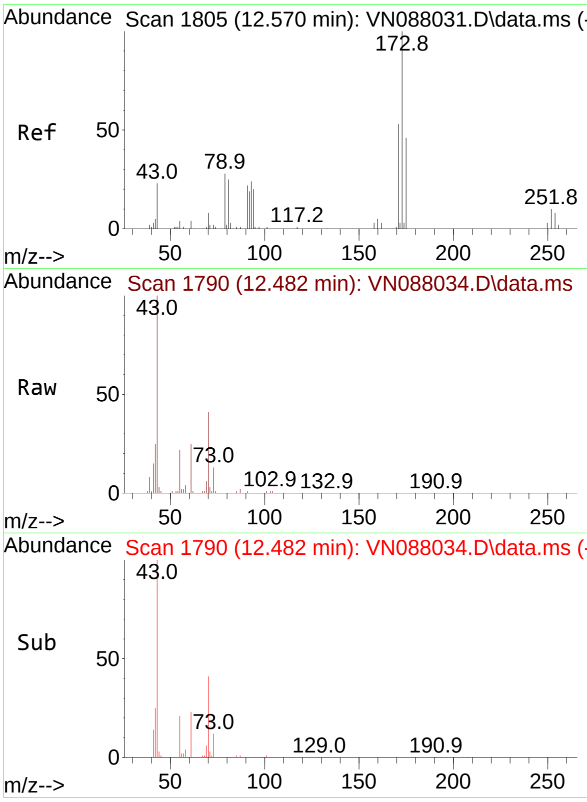


#46
Methyl methacrylate
Concen: 151.633 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 41 Resp: 878594

Ion	Ratio	Lower	Upper
41	100		
69	87.1	44.9	134.7
39	61.9	30.3	90.8





#47
n-amyl Acetate
Concen: 197.401 ug/l
RT: 12.482 min Scan# 1
Delta R.T. -0.088 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 114122

Ion	Ratio	Lower	Upper
43	100		
55	19.8	0.6	0.8

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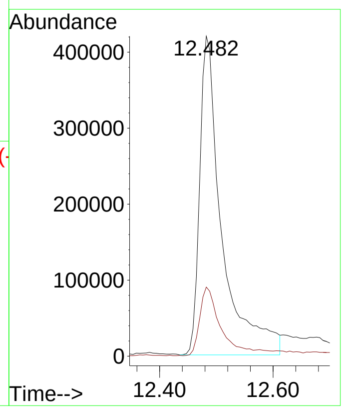
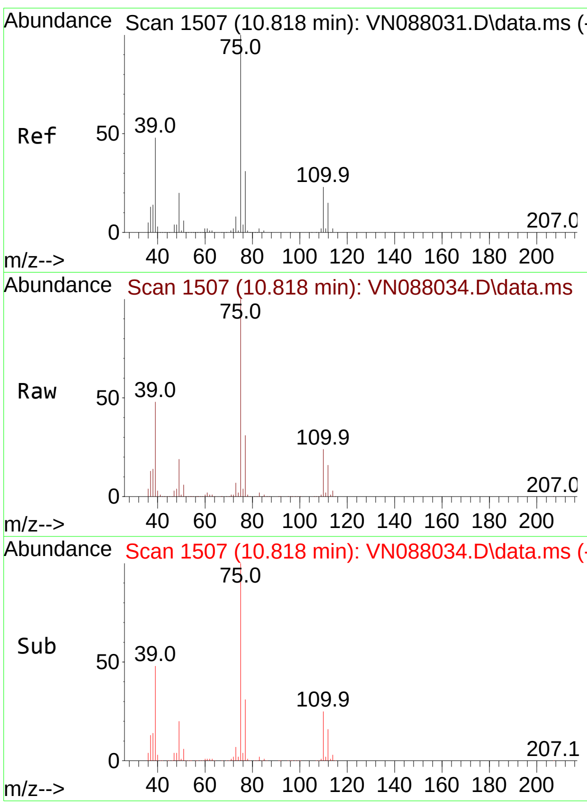
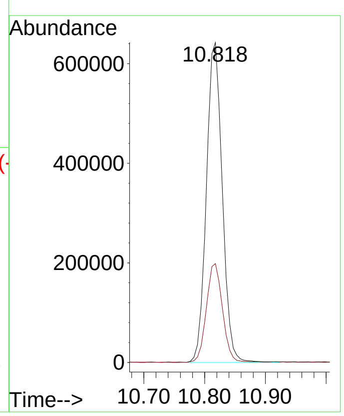




#48
t-1,3-Dichloropropene
Concen: 149.712 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 75 Resp: 1169571

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.5	36.7



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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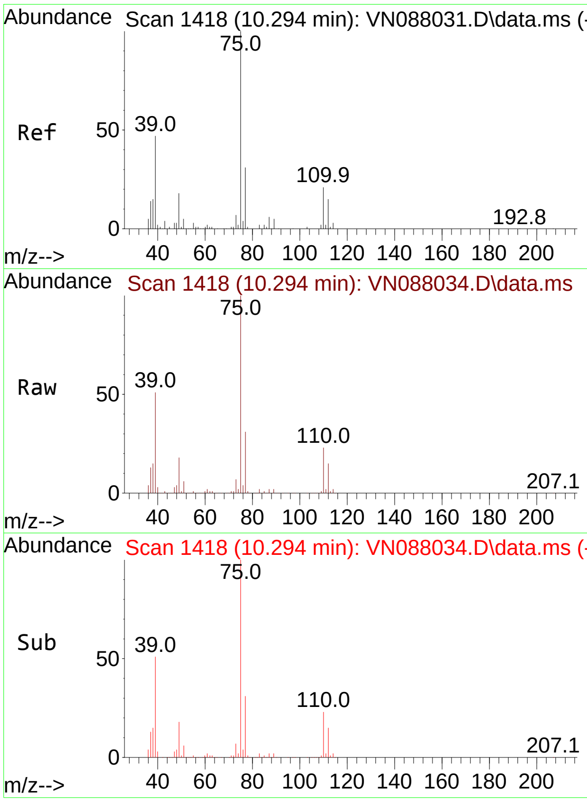
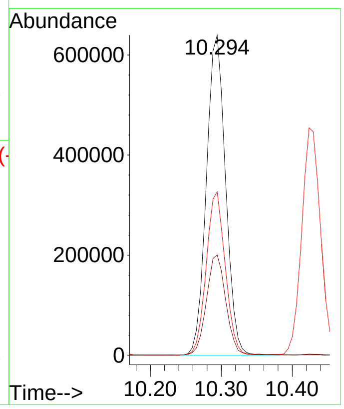
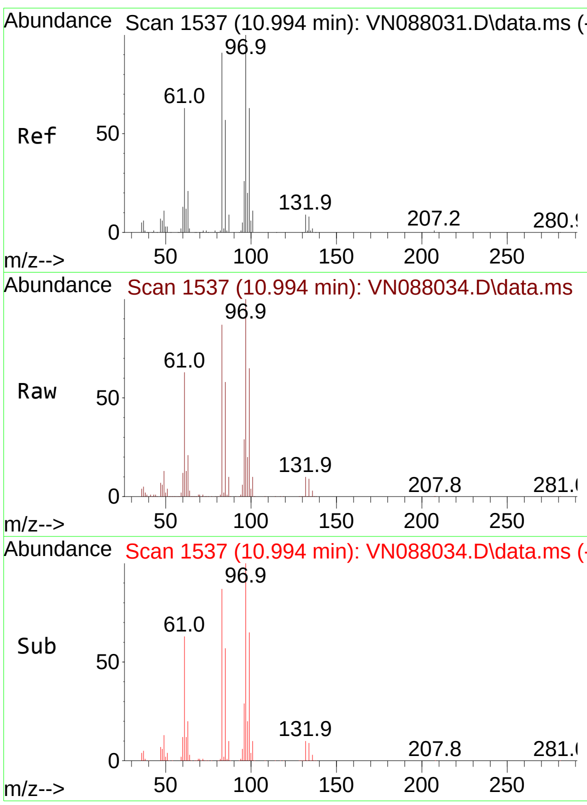
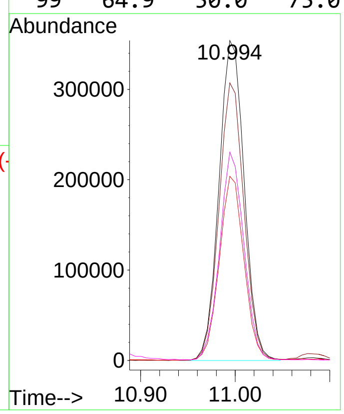



```
#49
cis-1,3-Dichloropropene
Concen:  147.684 ug/l
RT:  10.294 min  Scan# 14
Delta R.T.  0.000 min
Lab File:   VN088034.D
Acq: 08 Oct 2025  11:12

Tgt Ion: 75 Resp: 120347
Ion  Ratio  Lower  Upper
 75  100
 77   31.3   25.0   37.4
 39   51.0   37.4   56.0
```






```
#50
1,1,2-Trichloroethane
Concen:  144.430 ug/l
RT:  10.994 min  Scan# 1537
Delta R.T.  0.000 min
Lab File:   VN088034.D
Acq: 08 Oct 2025  11:12

Tgt Ion: 97 Resp:   657933
Ion  Ratio  Lower  Upper
 97  100
 83   86.7   72.5  108.7
 85   57.5   45.5   68.3
 99   64.9   50.0   75.0
```



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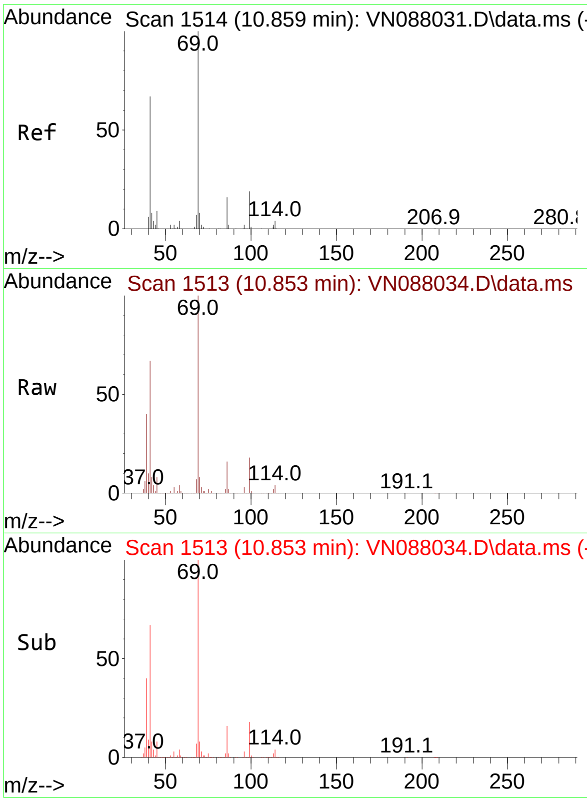

#51
Ethyl methacrylate
Concen: 157.077 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 69 Resp: 1210974

Ion	Ratio	Lower	Upper
69	100		
41	67.1	33.3	99.8
39	39.7	20.3	61.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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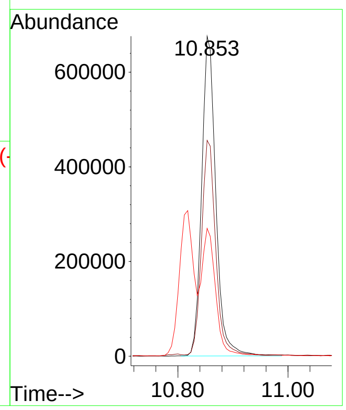
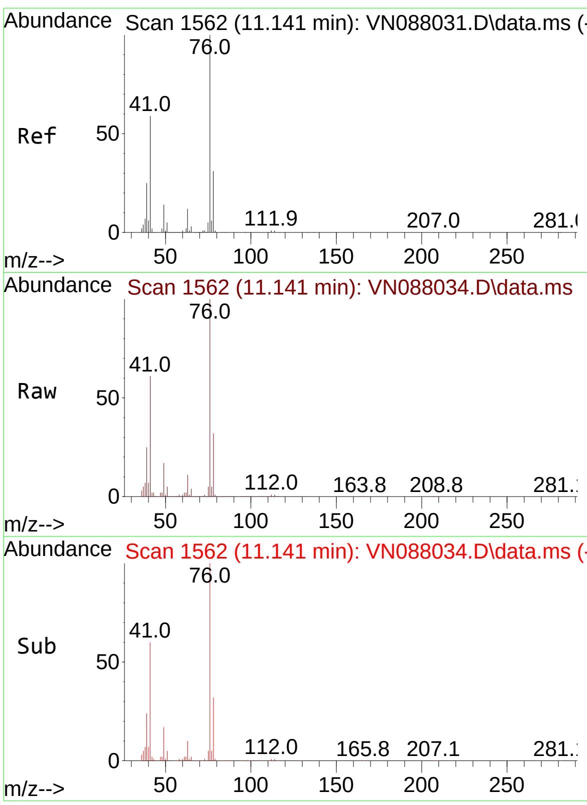
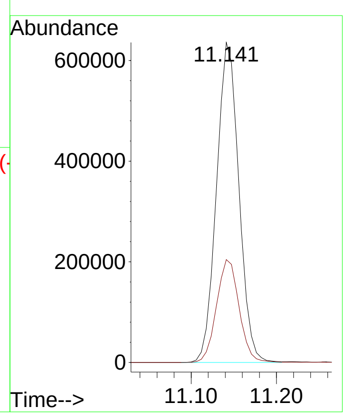


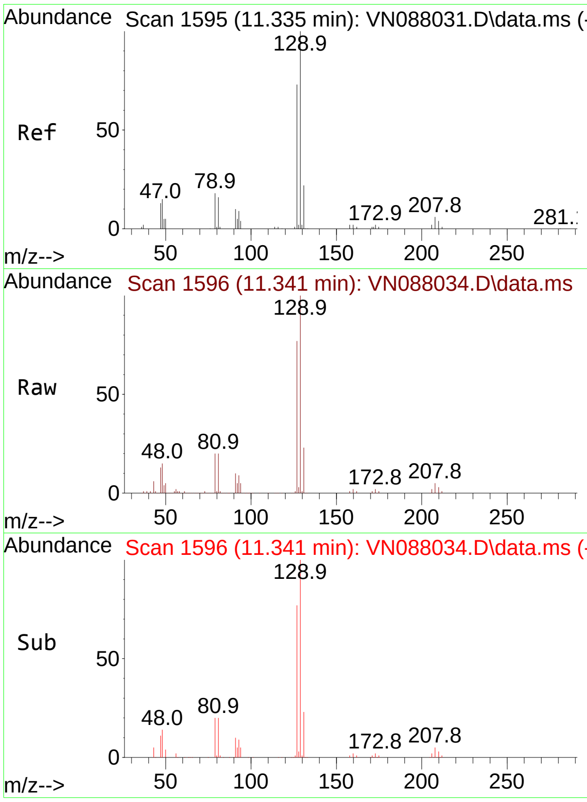


#52
1,3-Dichloropropane
Concen: 145.836 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 76 Resp: 1159064

Ion	Ratio	Lower	Upper
76	100		
78	32.4	0.0	65.0





#53
Dibromochloromethane
Concen: 147.348 ug/l
RT: 11.341 min Scan# 1!
Delta R.T. 0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:129 Resp: 80244!
Ion Ratio Lower Upper
129 100
127 77.8 39.1 117.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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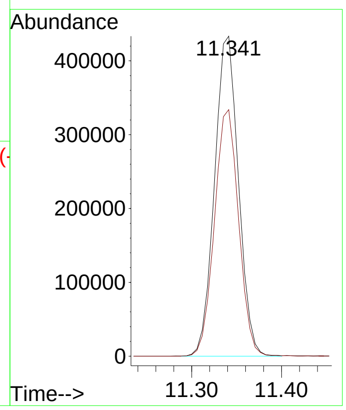
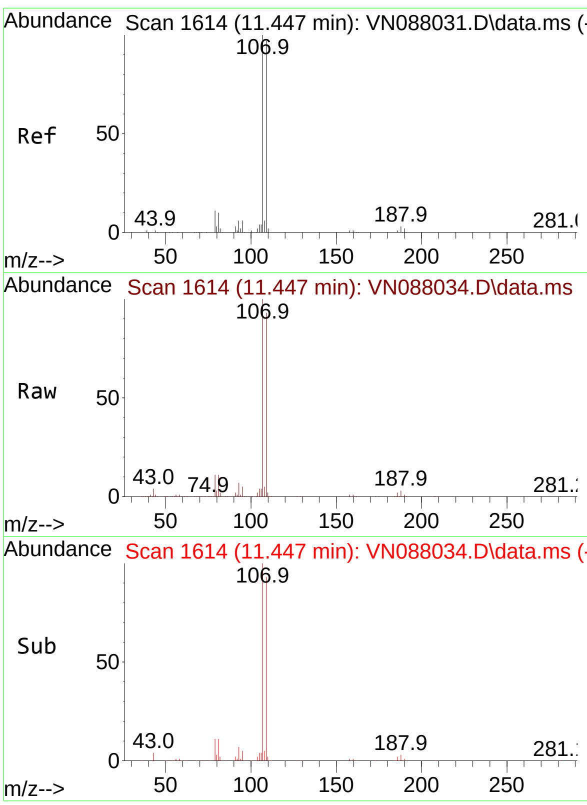
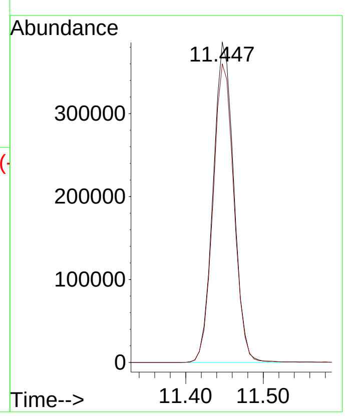
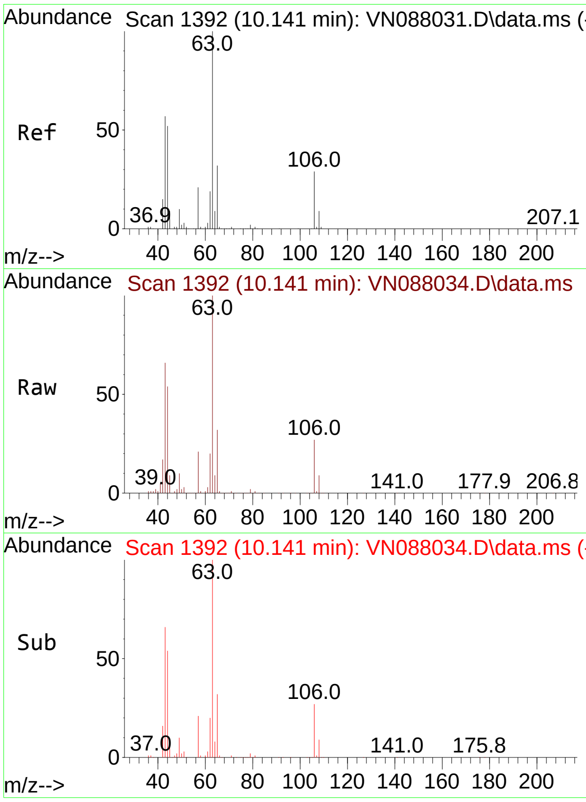




#54
1,2-Dibromoethane
Concen: 146.499 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:107 Resp: 713476
Ion Ratio Lower Upper
107 100
109 94.1 75.5 113.3





#55
2-Chloroethyl vinyl ether
Concen: 748.593 ug/l
RT: 10.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 311515

Ion	Ratio	Lower	Upper
63	100		
65	31.8	25.7	38.5
106	27.3	22.6	34.0

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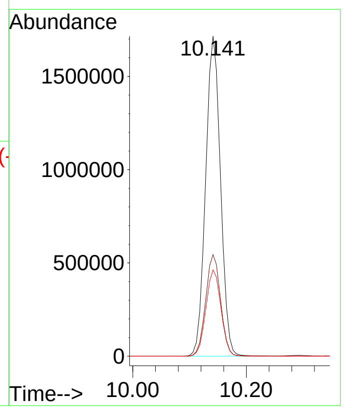
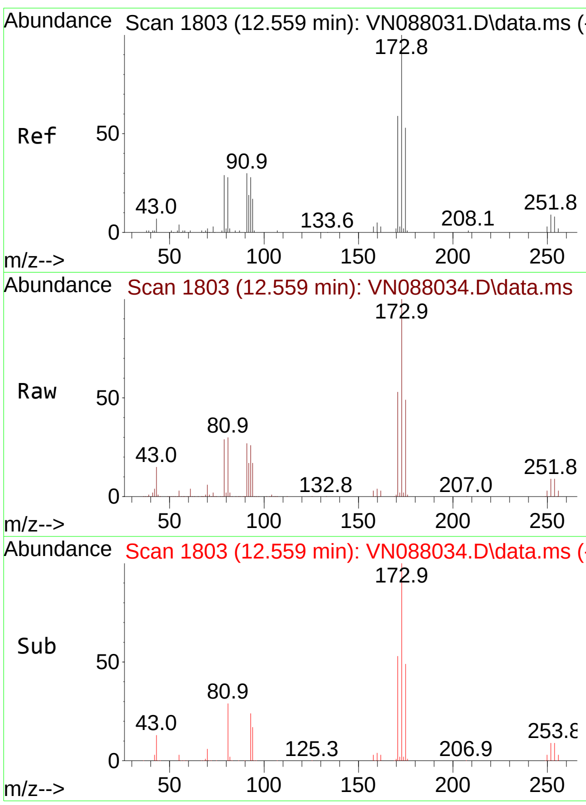
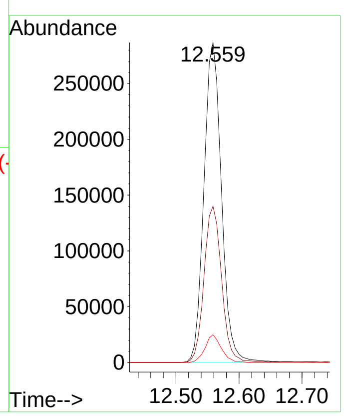




#56
Bromoform
Concen: 151.071 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:173 Resp: 556224

Ion	Ratio	Lower	Upper
173	100		
175	48.6	39.6	59.4
254	8.0	6.6	10.0



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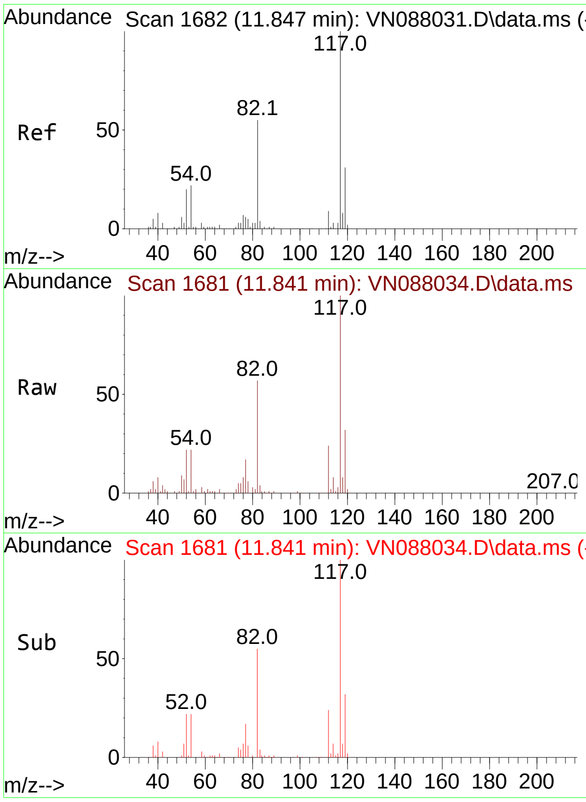
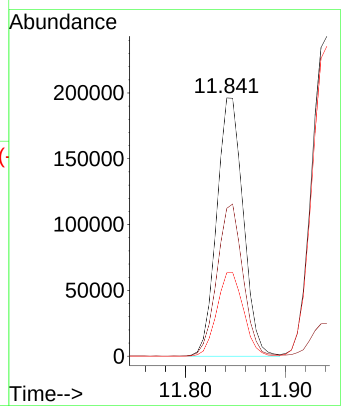


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:117 Resp: 36034

Ion	Ratio	Lower	Upper
117	100		
82	57.6	45.2	67.8
119	32.5	25.9	38.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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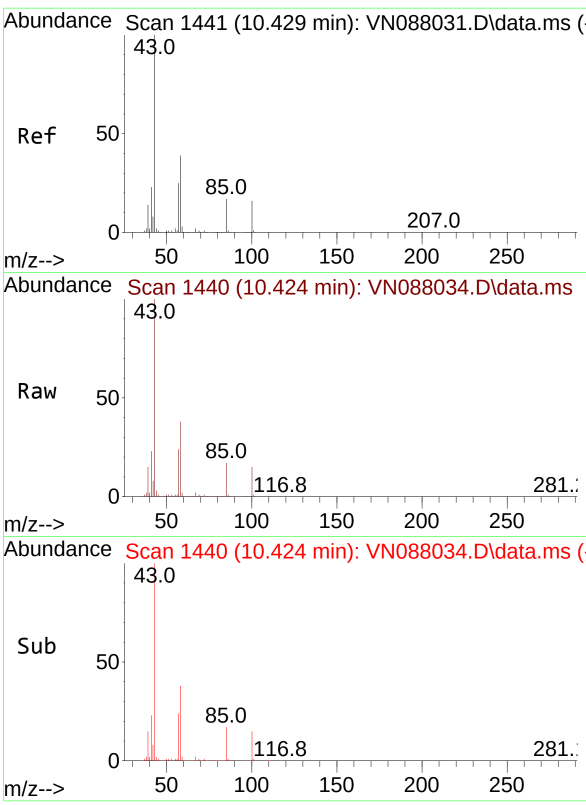
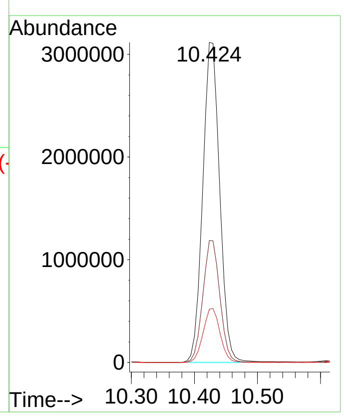


#58
4-Methyl-2-Pentanone
Concen: 722.051 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 43 Resp: 5819803

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.2	46.8
85	16.9	13.7	20.5



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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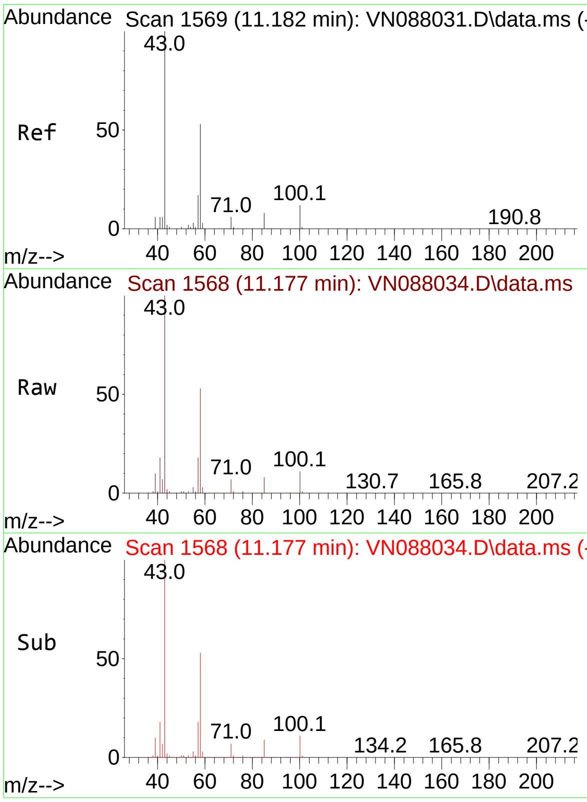
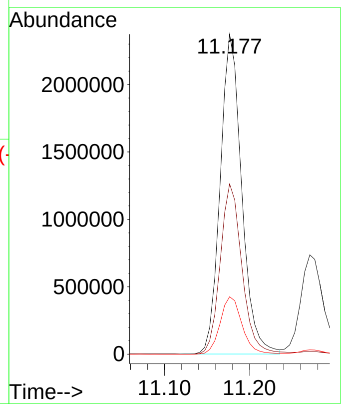
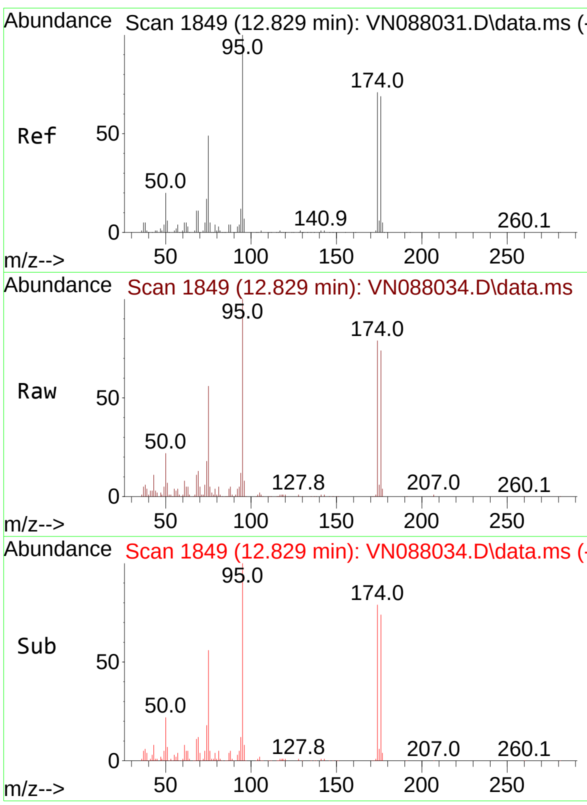


#59
2-Hexanone
Concen: 783.538 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 43 Resp: 416965

Ion	Ratio	Lower	Upper
43	100		
58	53.8	43.1	64.7
57	18.3	14.6	21.8

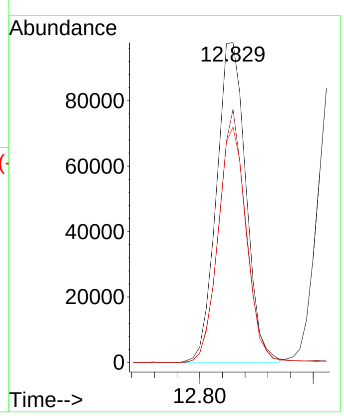




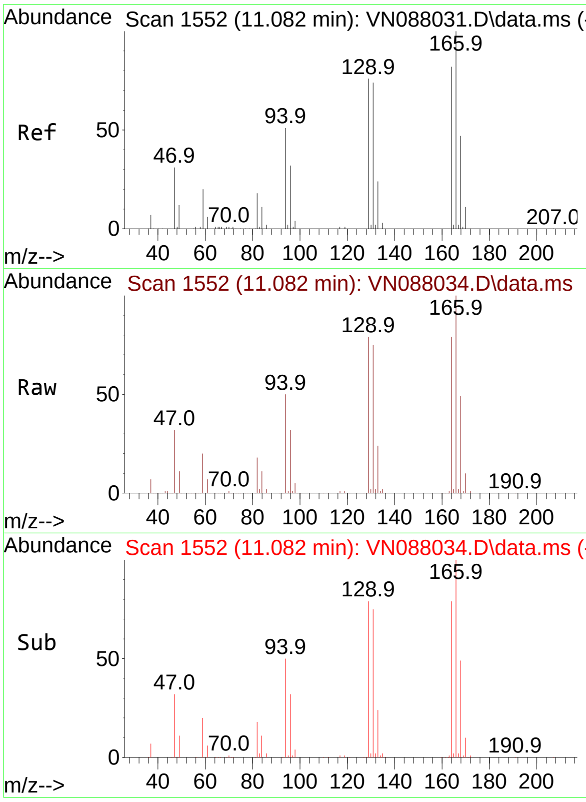
#60
4-Bromofluorobenzene
Concen: 29.663 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 95 Resp: 176216

Ion	Ratio	Lower	Upper
95	100		
174	73.0	57.4	86.0
176	71.5	57.0	85.4



ICAL Form



#61
Tetrachloroethene
Concen: 141.798 ug/l
RT: 11.082 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:164 Resp: 51743

Ion	Ratio	Lower	Upper
164	100		
166	126.8	97.2	145.8
129	100.1	73.7	110.5
131	95.7	71.5	107.3

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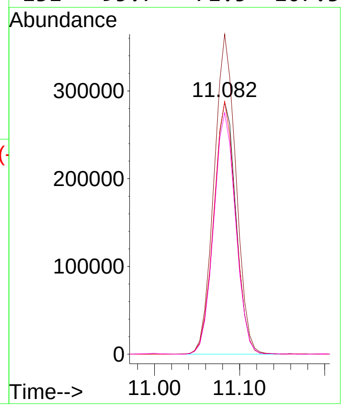
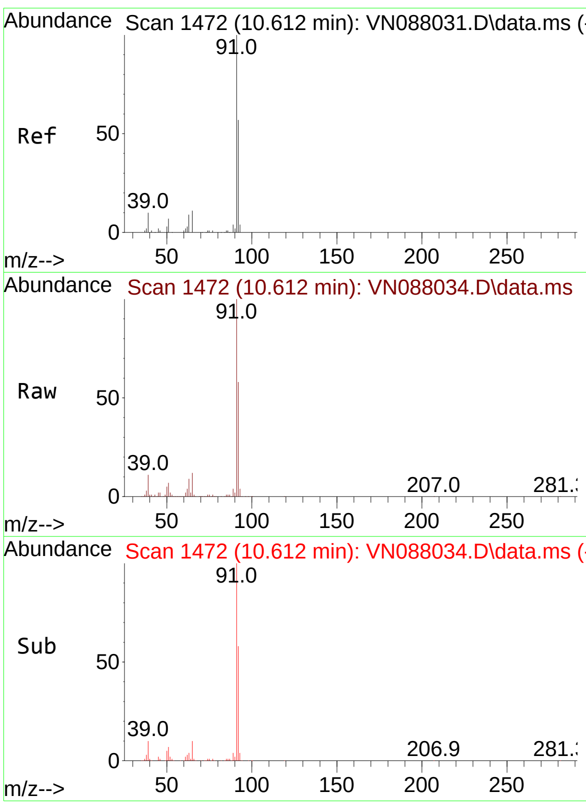
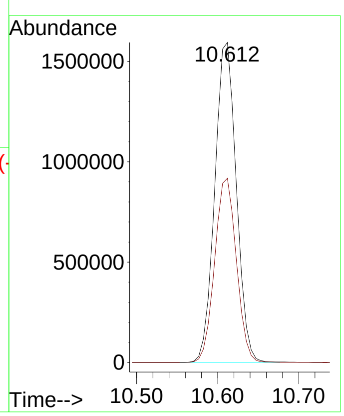


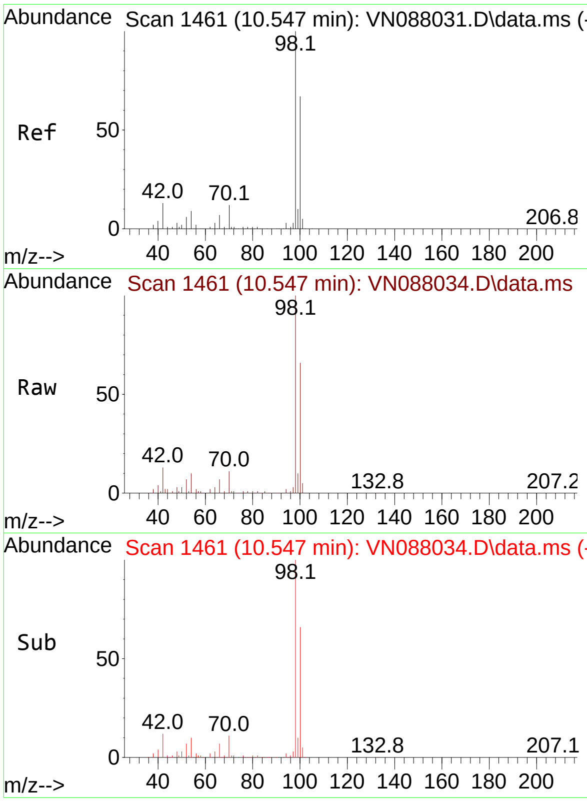


#62
Toluene
Concen: 144.419 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 91 Resp: 2951946

Ion	Ratio	Lower	Upper
91	100		
92	58.0	45.8	68.8





#63
Toluene-d8
Concen: 29.931 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 98 Resp: 48053

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.1	79.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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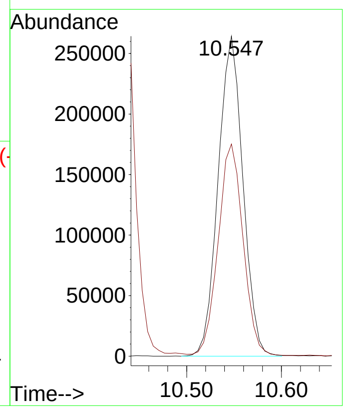
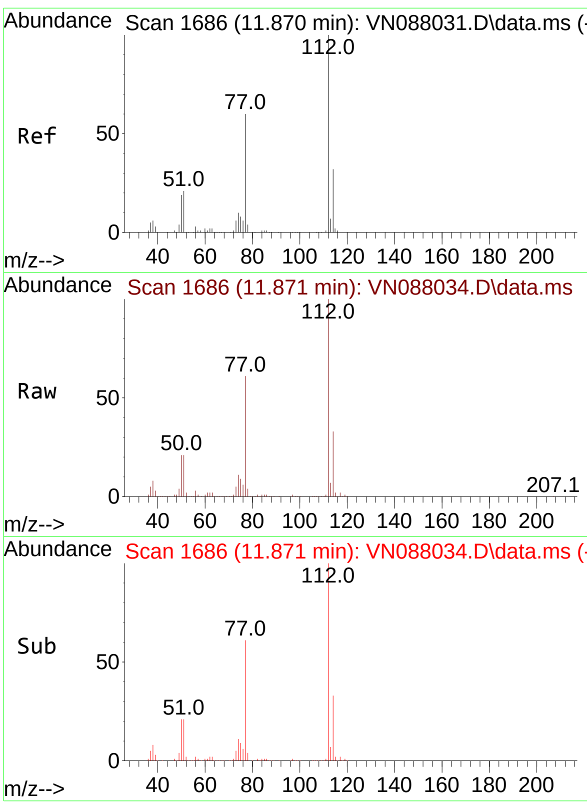
Supervised By :Mahesh Dadoda 10/10/2025

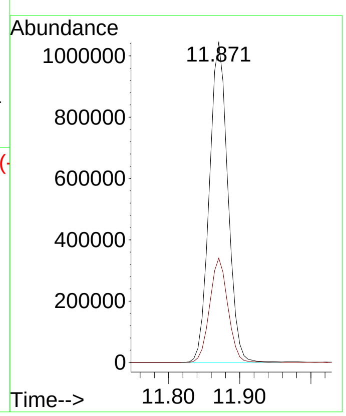




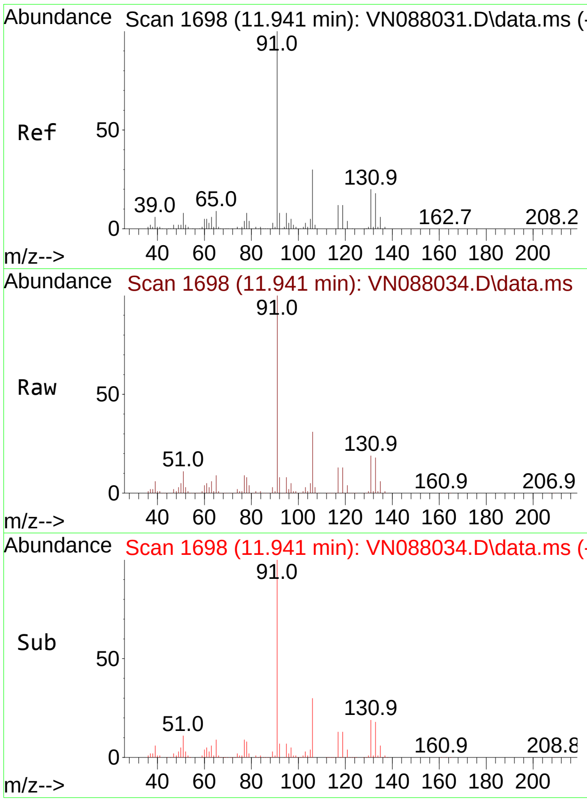
#64
Chlorobenzene
Concen: 144.832 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:112 Resp: 1890882

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.7	38.5



ICAL Form



#65
1,1,1,2-Tetrachloroethane
Concen: 143.089 ug/l
RT: 11.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:131 Resp: 64379

Ion	Ratio	Lower	Upper
131	100		
133	95.4	0.0	183.8
119	66.5	0.0	132.0

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Reviewed By :John Carlone 10/09/2025
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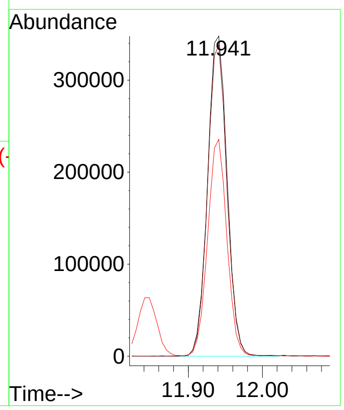
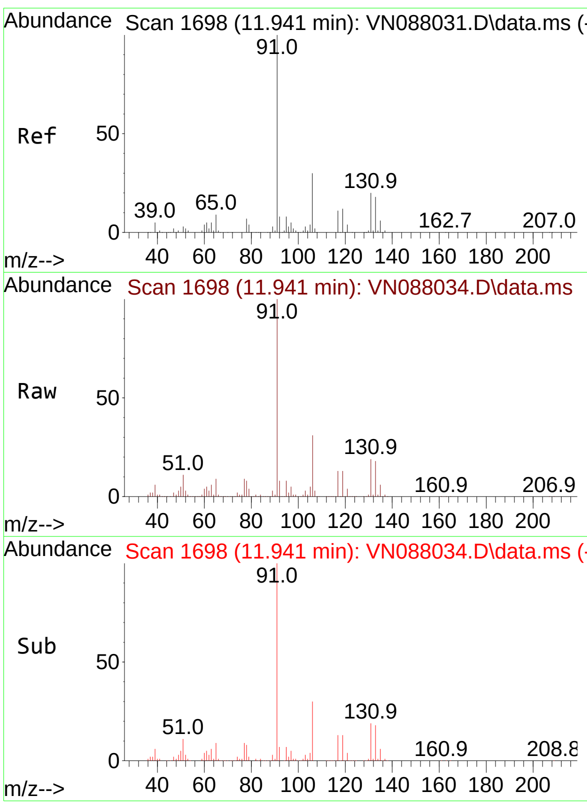
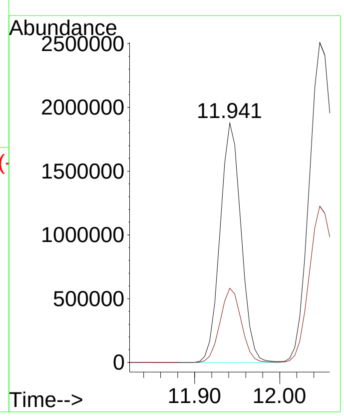


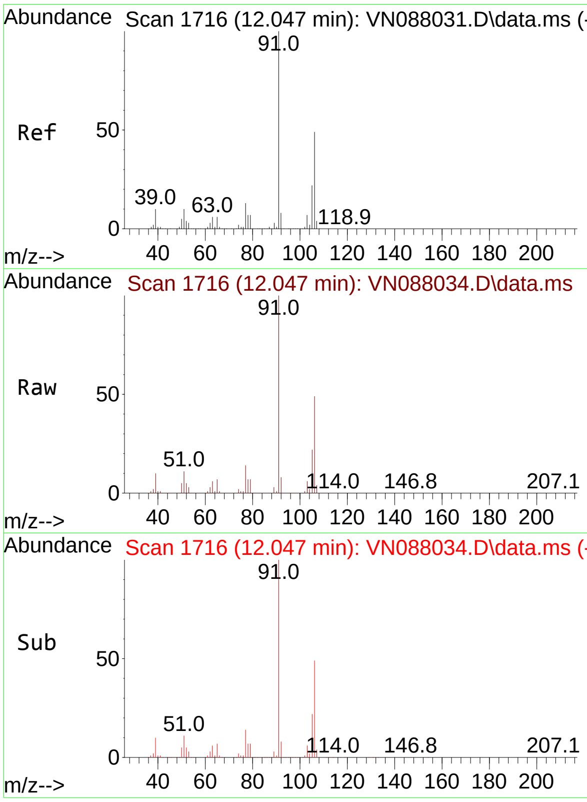


#66
Ethyl Benzene
Concen: 145.284 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 91 Resp: 3229064

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.0	36.0





#67
m/p-Xylenes
Concen: 291.347 ug/l
RT: 12.047 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 249633

Ion	Ratio	Lower	Upper
106	100		
91	203.4	161.4	242.0

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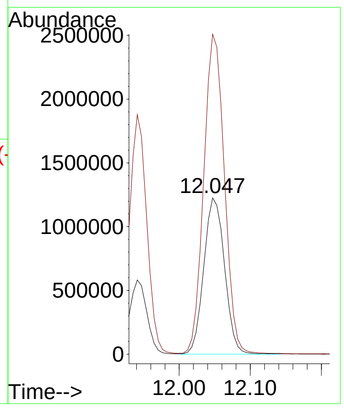
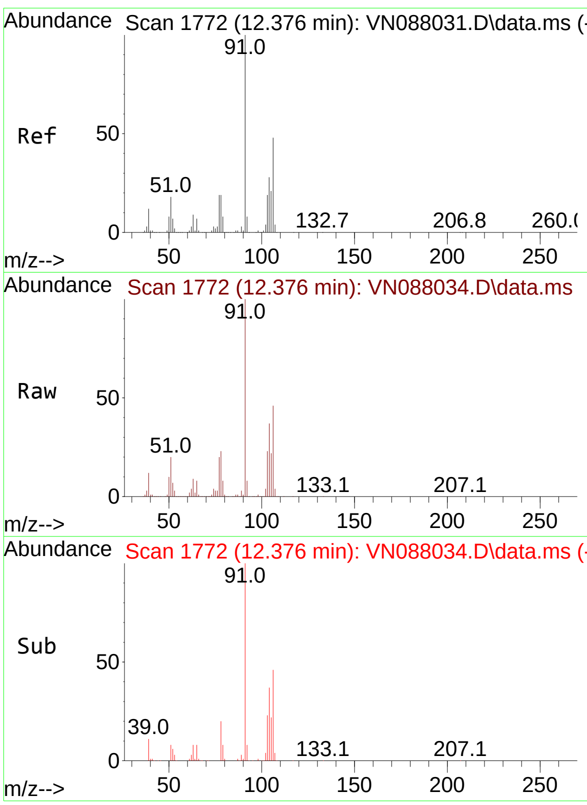
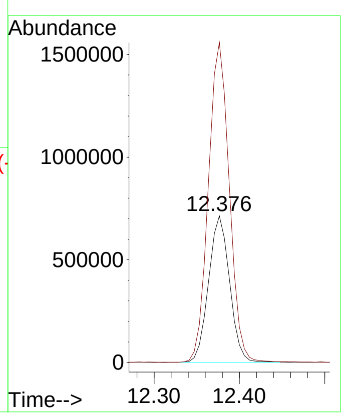




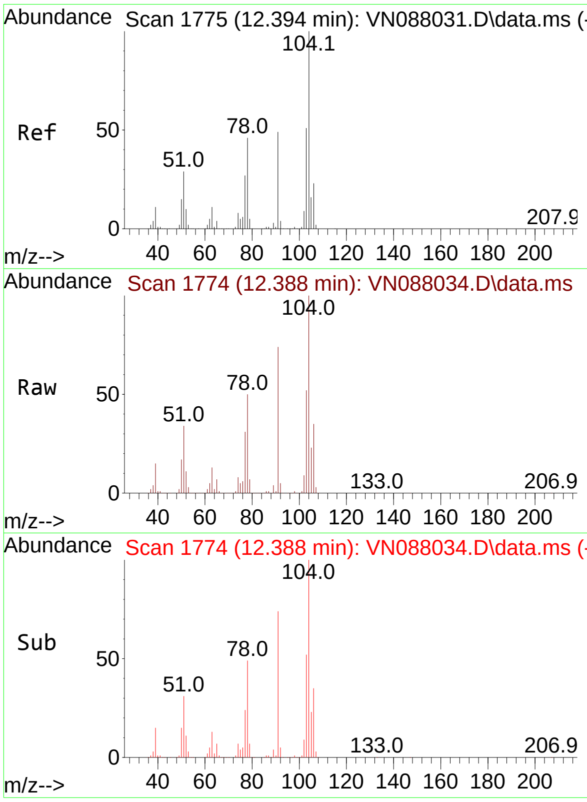
#68
o-Xylene
Concen: 142.948 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:106 Resp: 1219294

Ion	Ratio	Lower	Upper
106	100		
91	218.2	105.2	315.6



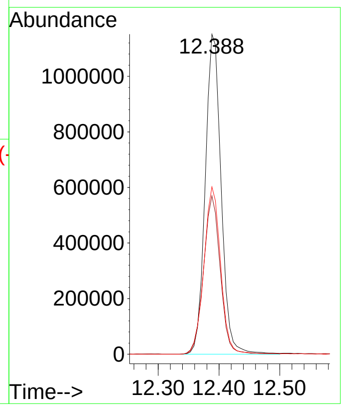
ICAL Form



#69
Styrene
Concen: 148.383 ug/l
RT: 12.388 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:104 Resp: 209365

Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.8	62.6
103	54.9	44.9	67.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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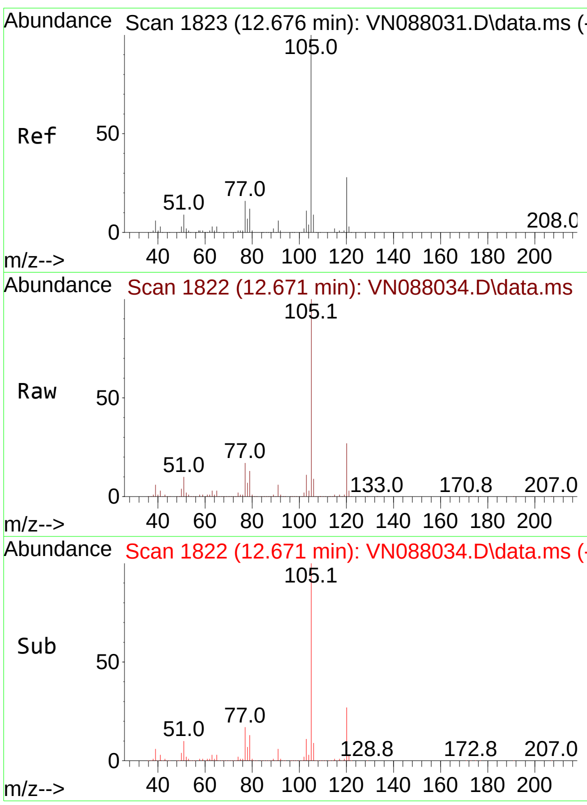
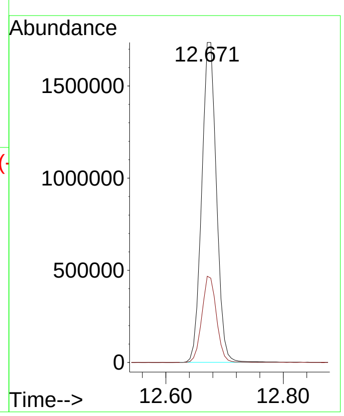


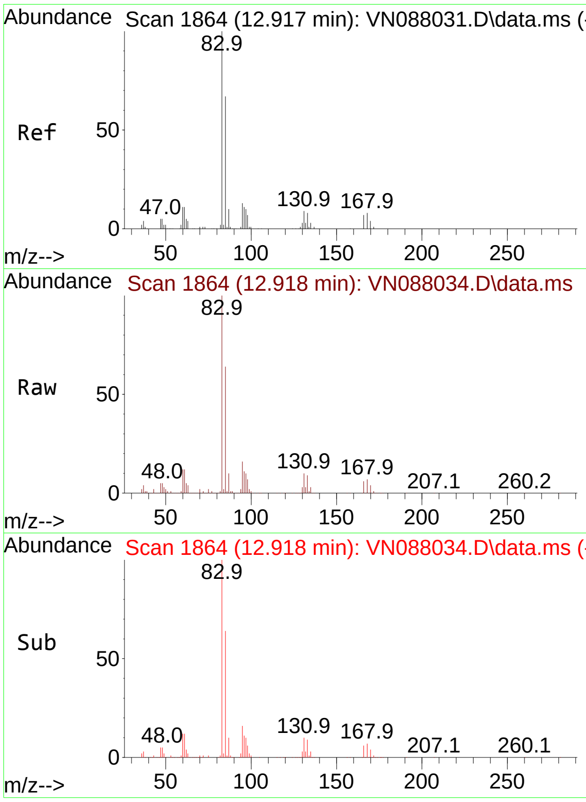
#70
Isopropylbenzene
Concen: 144.736 ug/l
RT: 12.671 min Scan# 1822
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:105 Resp: 3025763

Ion	Ratio	Lower	Upper
105	100		
120	26.7	19.1	35.5



ICAL Form



#71
1,1,2,2-Tetrachloroethane
Concen: 142.462 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :John Carlone 10/09/2025
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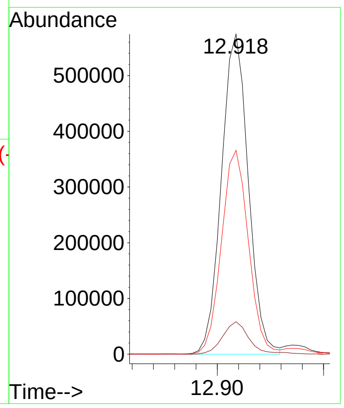
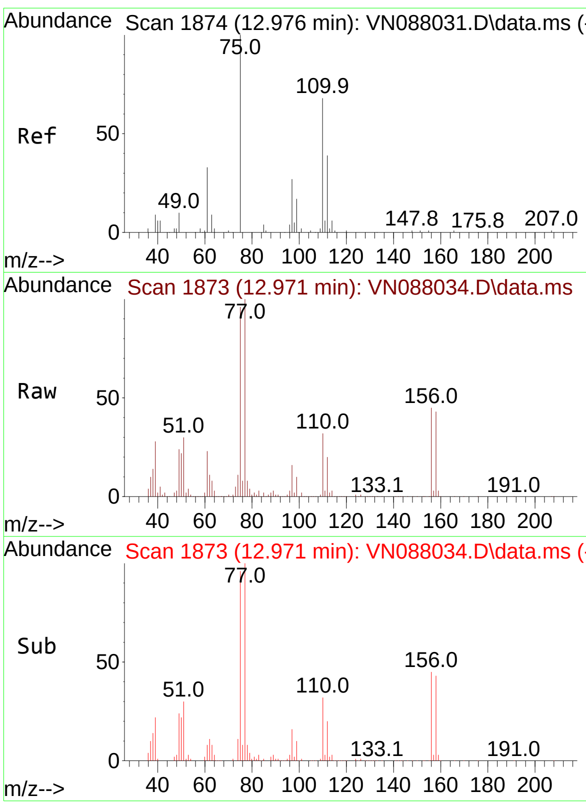
Tgt Ion: 83 Resp: 100971

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.3
85	63.8	32.4	97.2

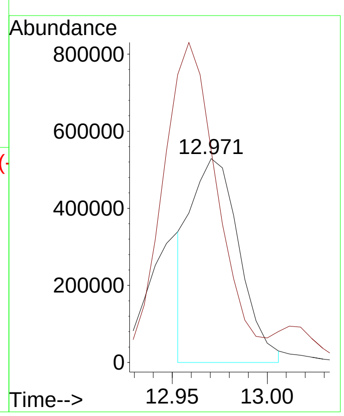




#72
1,2,3-Trichloropropane
Concen: 137.329 ug/l m
RT: 12.971 min Scan# 1873
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 75 Resp: 944811

Ion	Ratio	Lower	Upper
75	100		
77	178.8	0.0	364.0



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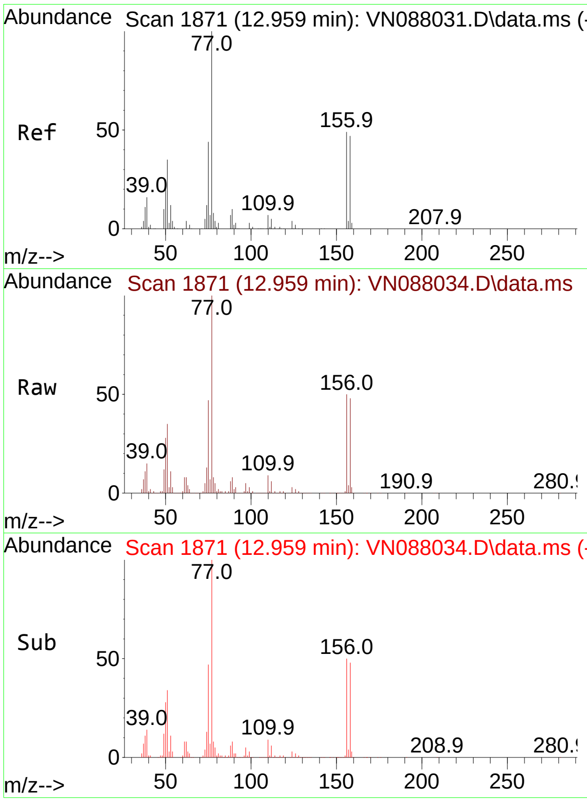

#73
Bromobenzene
Concen: 143.390 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:156 Resp: 73265

Ion	Ratio	Lower	Upper
156	100		
77	230.6	0.0	439.8
158	96.4	0.0	190.0

Instrument : MSVOA_N
ClientSampleId : VSTDICC150

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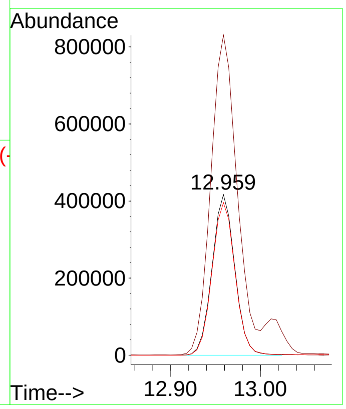
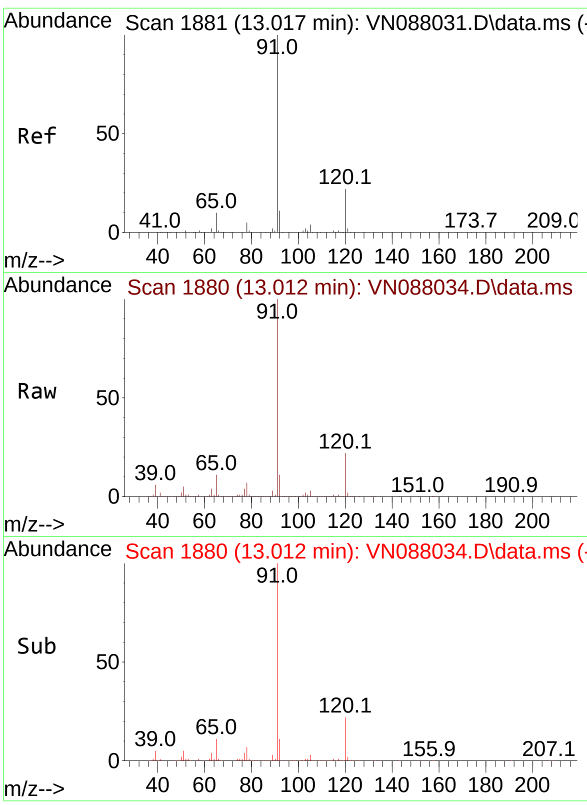
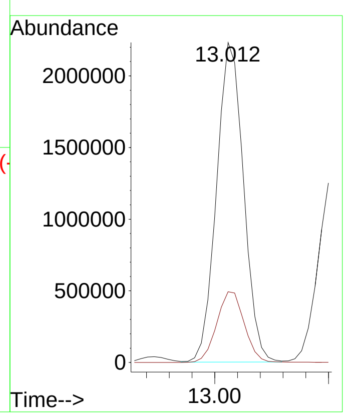




#74
n-propylbenzene
Concen: 145.874 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 91 Resp: 3681361

Ion	Ratio	Lower	Upper
91	100		
120	22.6	0.0	46.2



Instrument : MSVOA_N
ClientSampleId : VSTDICC150

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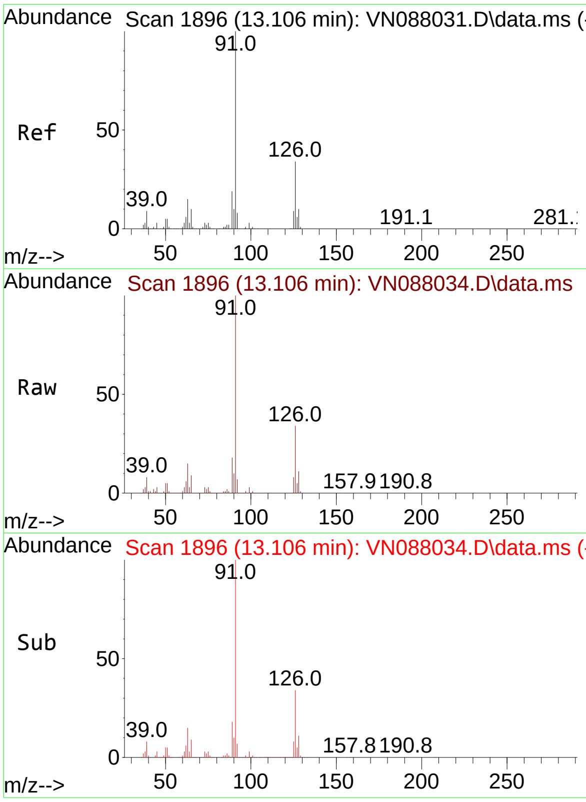
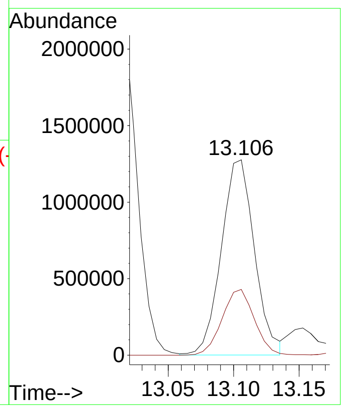
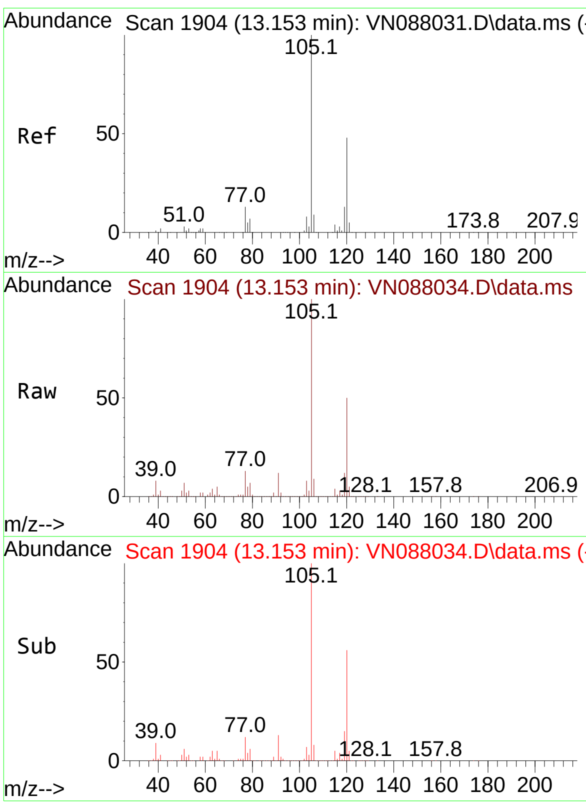


#75
2-Chlorotoluene
Concen: 145.681 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 91 Resp: 2247982

Ion	Ratio	Lower	Upper
91	100		
126	32.9	0.0	66.6

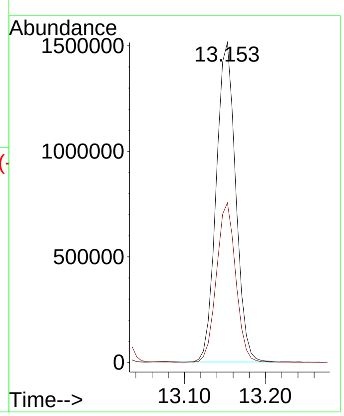




#76
1,3,5-Trimethylbenzene
Concen: 142.568 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:105 Resp: 2531712

Ion	Ratio	Lower	Upper
105	100		
120	49.3	0.0	100.6



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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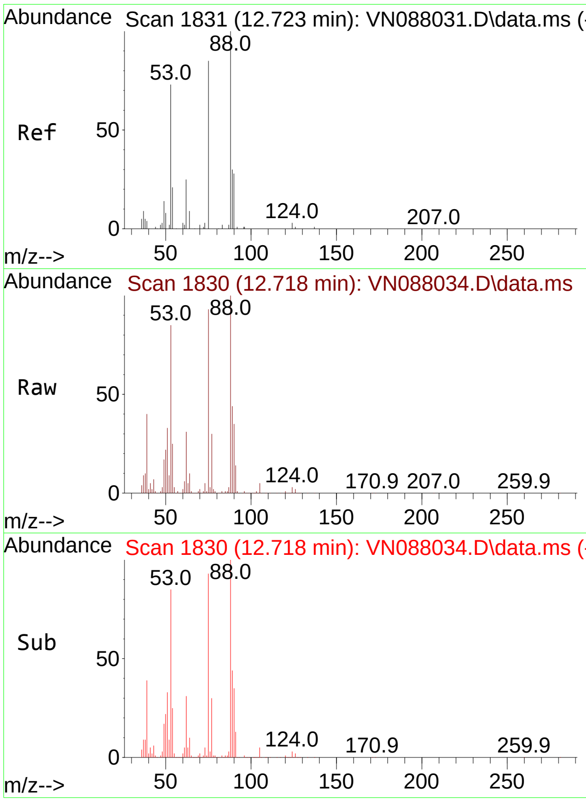
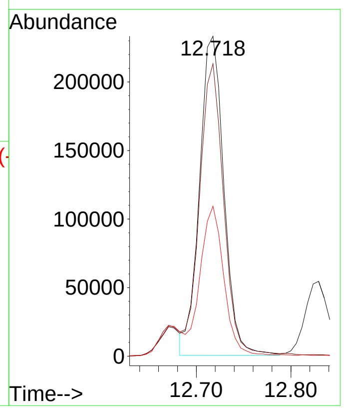
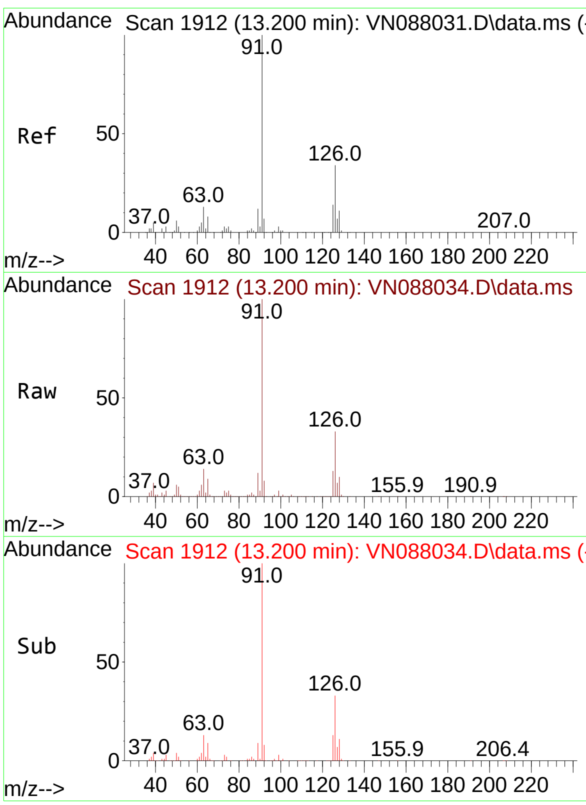


#77
t-1,4-Dichloro-2-butene
Concen: 163.941 ug/l
RT: 12.718 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 75 Resp: 41738

Ion	Ratio	Lower	Upper
75	100		
53	91.4	41.8	125.3
89	46.8	19.9	59.6

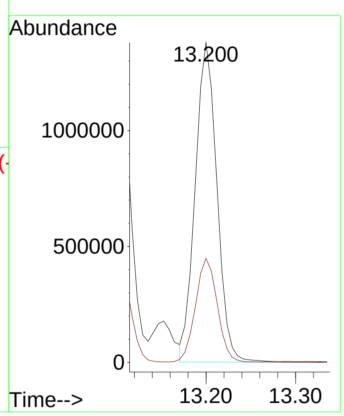




#78
4-Chlorotoluene
Concen: 148.022 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 91 Resp: 2320550

Ion	Ratio	Lower	Upper
91	100		
126	33.0	0.0	68.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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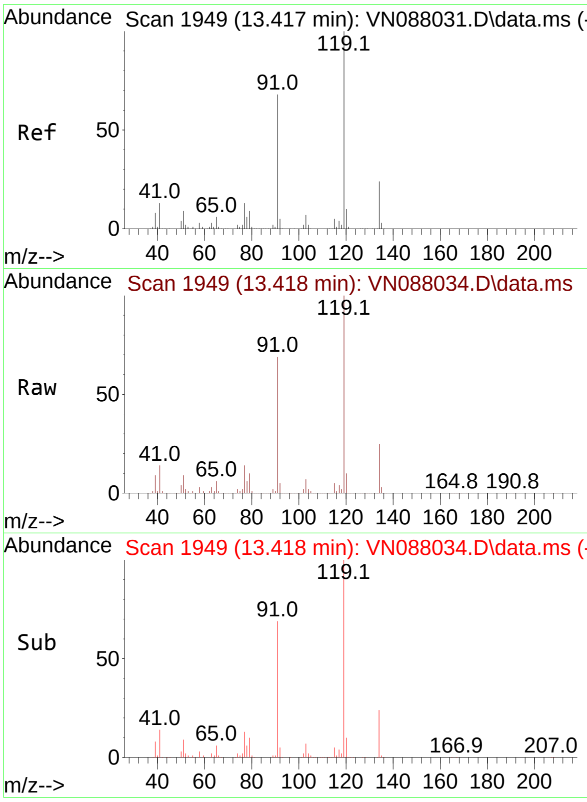
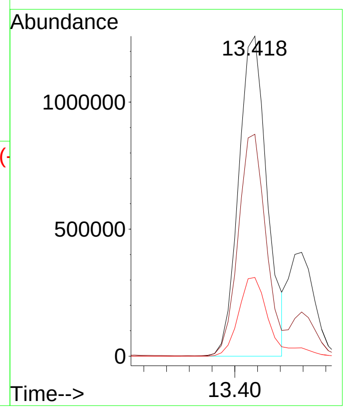
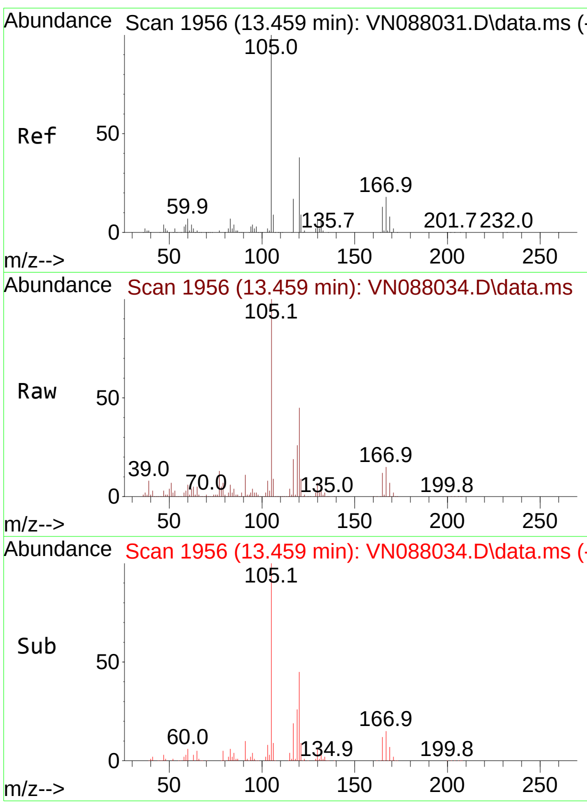


#79
tert-butylbenzene
Concen: 142.259 ug/l
RT: 13.418 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:119 Resp: 218995

Ion	Ratio	Lower	Upper
119	100		
91	67.4	0.0	132.4
134	24.8	0.0	48.6

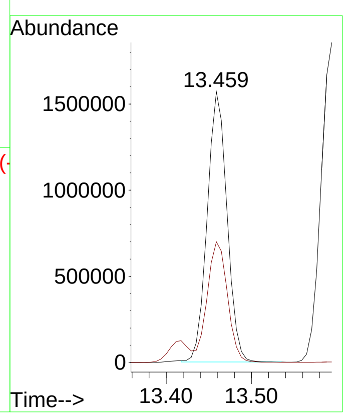




#80
1,2,4-Trimethylbenzene
Concen: 142.543 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:105 Resp: 2534010

Ion	Ratio	Lower	Upper
105	100		
120	45.9	0.0	93.8



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

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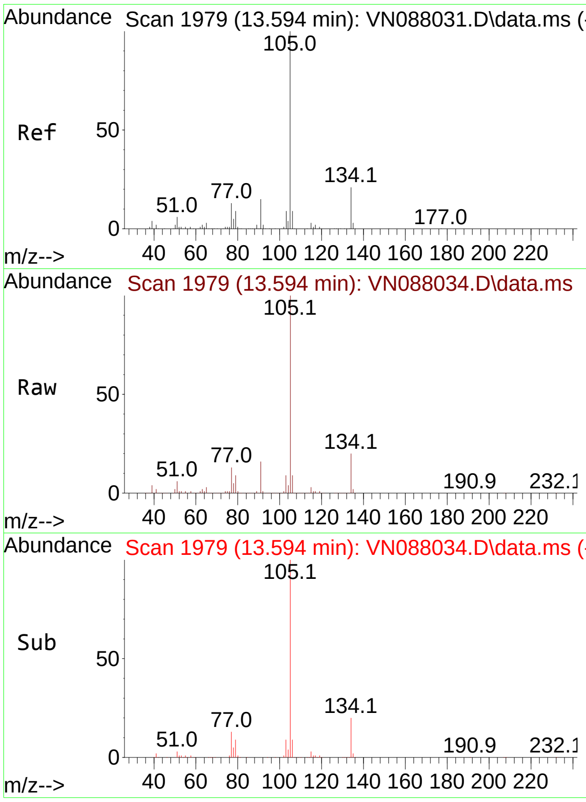
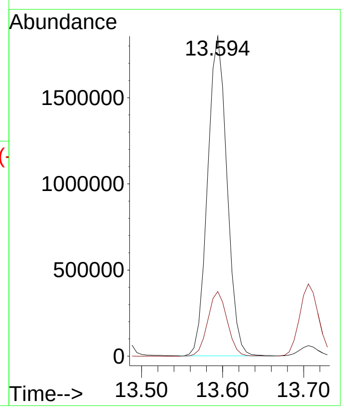
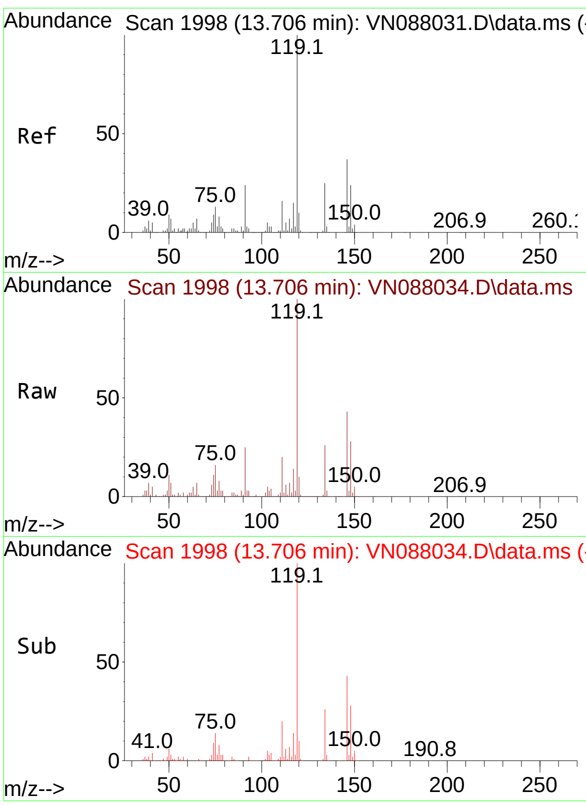


#81
sec-Butylbenzene
Concen: 142.543 ug/l
RT: 13.594 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:105 Resp: 308521

Ion	Ratio	Lower	Upper
105	100		
134	20.1	0.0	41.2

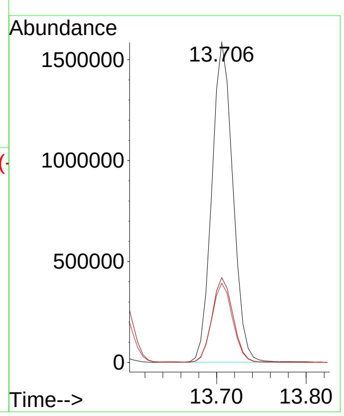


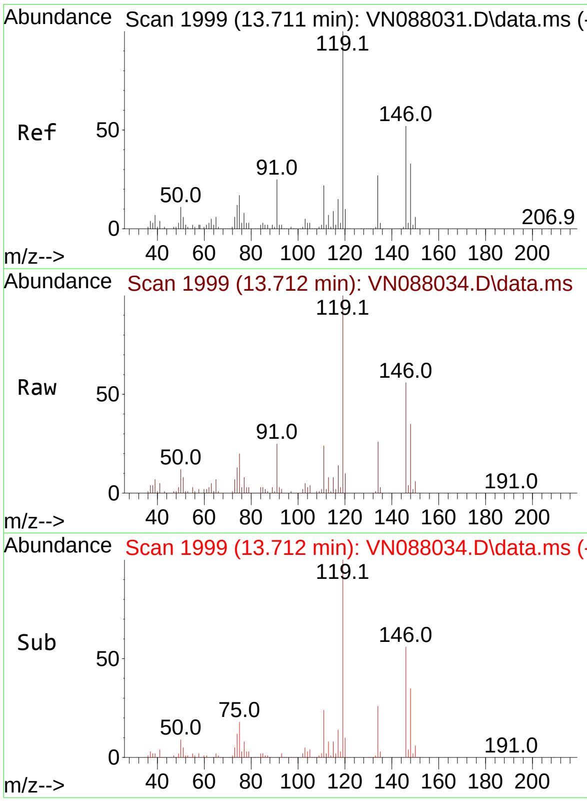


#82
p-Isopropyltoluene
Concen: 140.112 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:119 Resp: 2589136

Ion	Ratio	Lower	Upper
119	100		
134	26.4	0.0	52.6
91	24.4	0.0	48.2





#83
1,3-Dichlorobenzene
Concen: 141.545 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 1360760

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.1	63.1
148	63.0	31.5	94.5

Manual Integrations APPROVED

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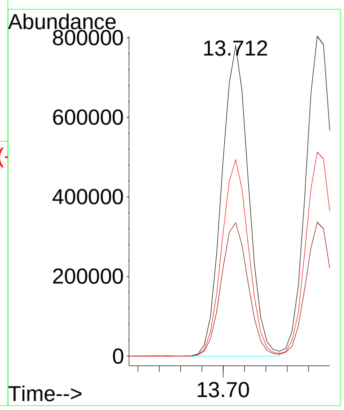
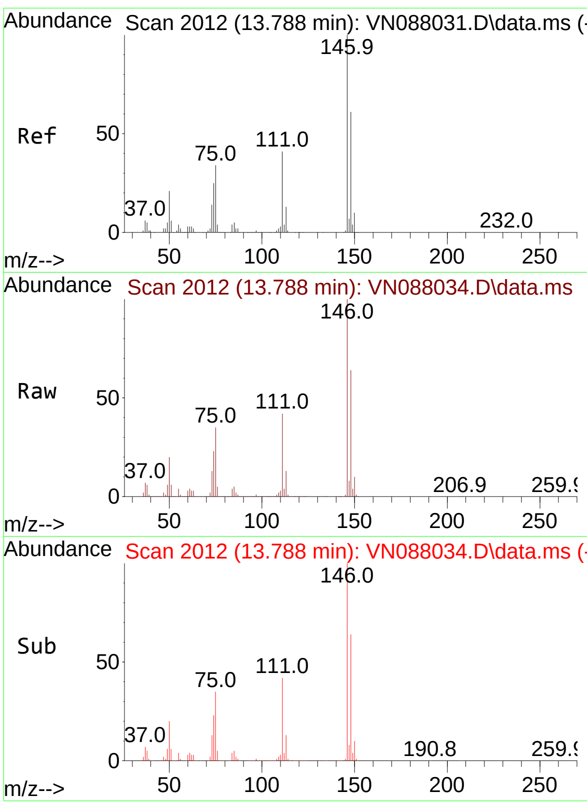
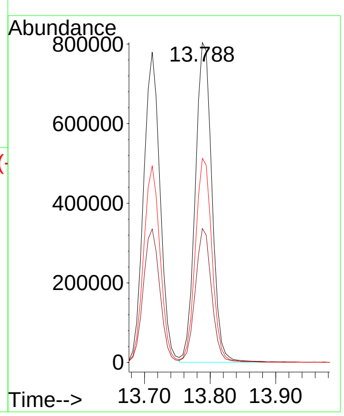




#84
1,4-Dichlorobenzene
Concen: 143.484 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:146 Resp: 1422602

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.5	61.6
148	63.3	31.9	95.9



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
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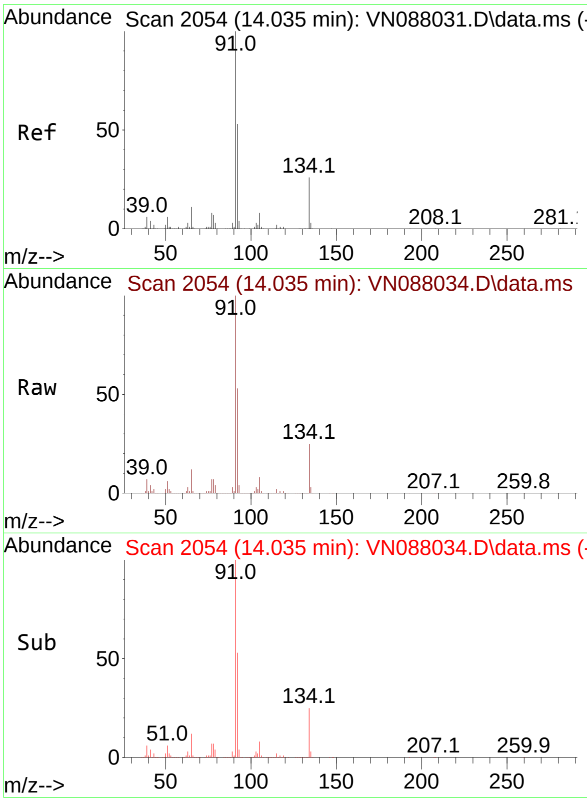
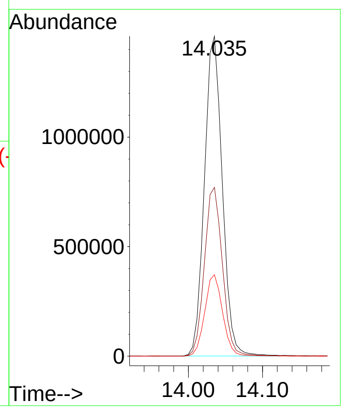
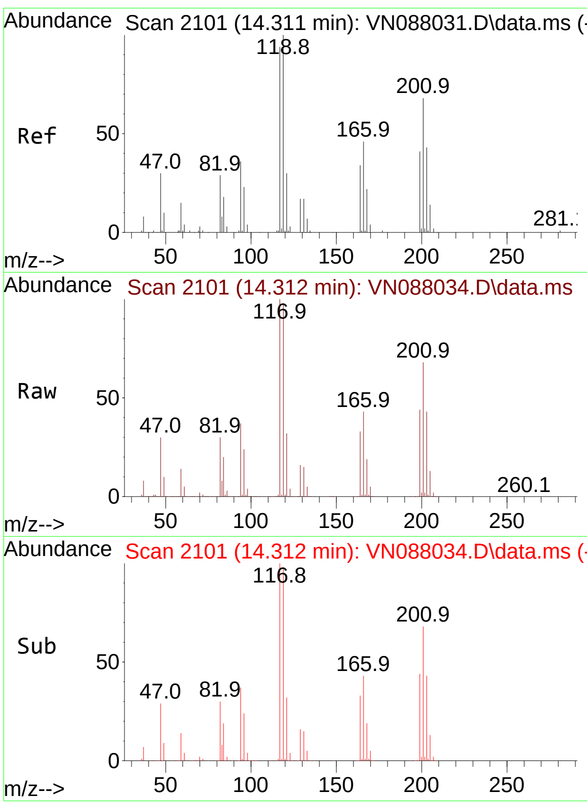


#85
n-Butylbenzene
Concen: 142.775 ug/l
RT: 14.035 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 91 Resp: 245457

Ion	Ratio	Lower	Upper
91	100		
92	53.3	0.0	107.6
134	25.4	0.0	52.6

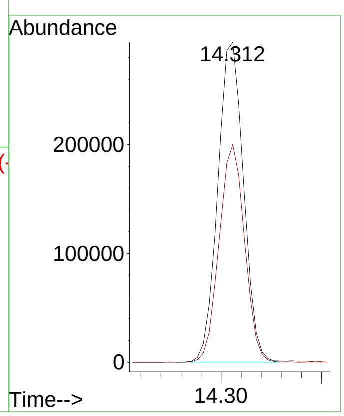




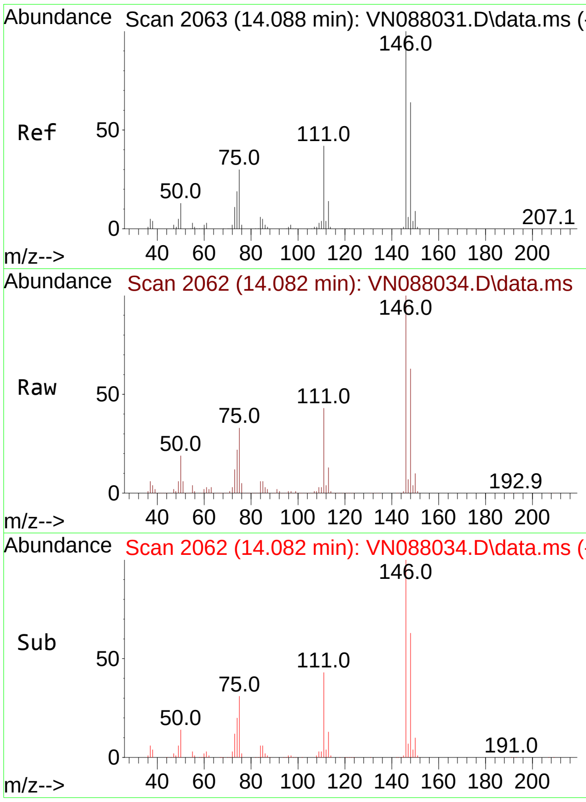
#86
Hexachloroethane
Concen: 141.838 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:117 Resp: 525061

Ion	Ratio	Lower	Upper
117	100		
201	67.0	34.8	104.3



ICAL Form



#87
1,2-Dichlorobenzene
Concen: 141.778 ug/l
RT: 14.082 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

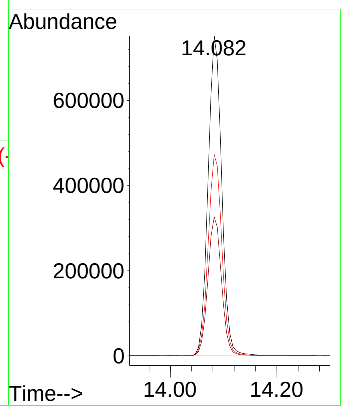
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

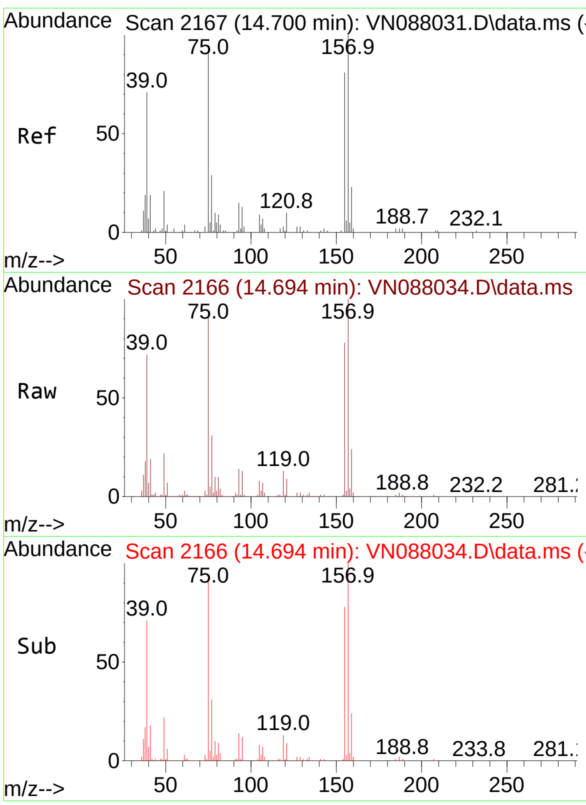
Tgt Ion:146 Resp: 134064

Ion	Ratio	Lower	Upper
146	100		
111	43.5	22.3	66.8
148	63.2	31.4	94.3

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

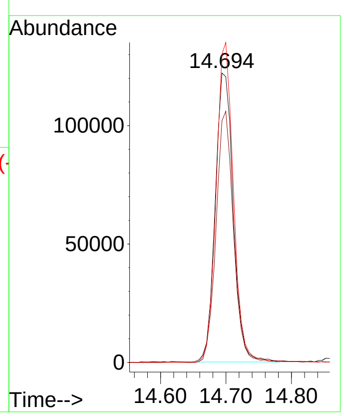




#88
1,2-Dibromo-3-Chloropropane
Concen: 143.337 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion: 75 Resp: 233320

Ion	Ratio	Lower	Upper
75	100		
155	83.7	63.5	95.3
157	105.9	81.7	122.5



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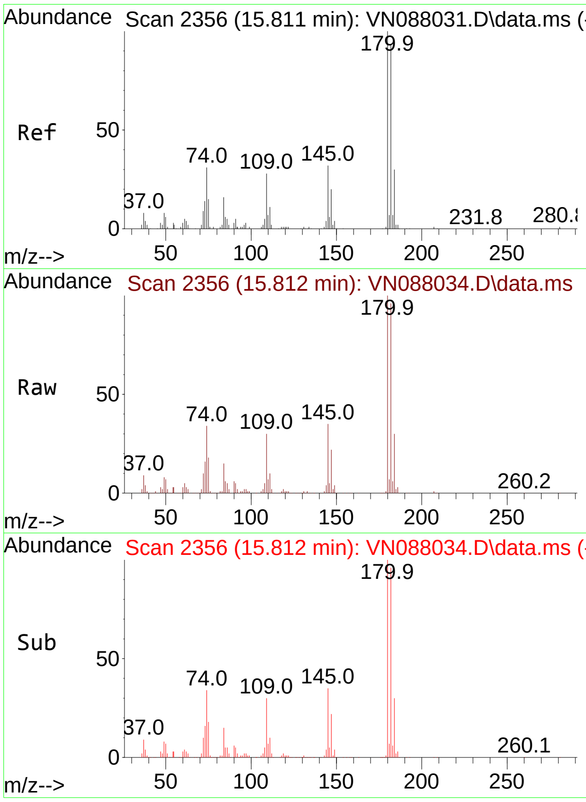


#89
1,2,4-Trichlorobenzene
Concen: 147.221 ug/l
RT: 15.812 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

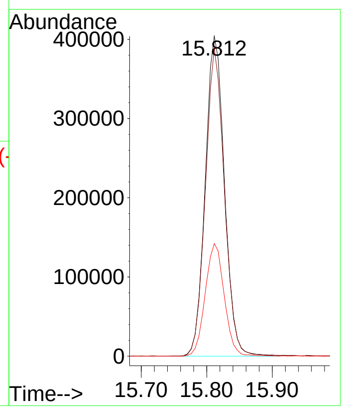
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

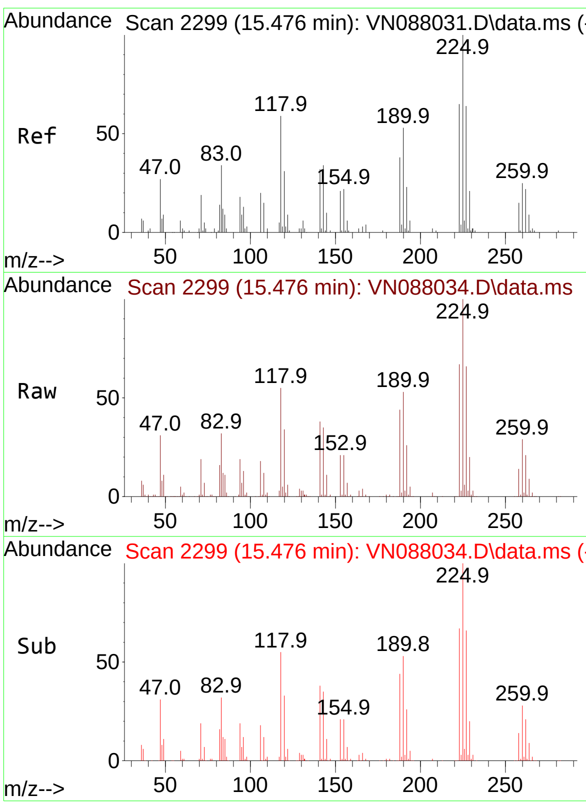
Tgt Ion:180 Resp: 82921

Ion	Ratio	Lower	Upper
180	100		
182	94.4	74.6	112.0
145	34.8	27.2	40.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

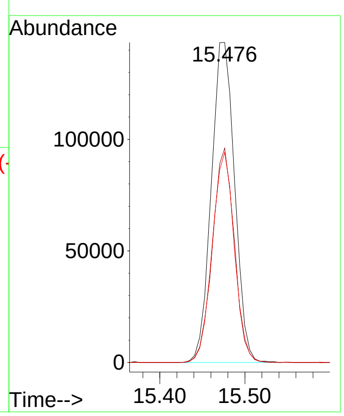




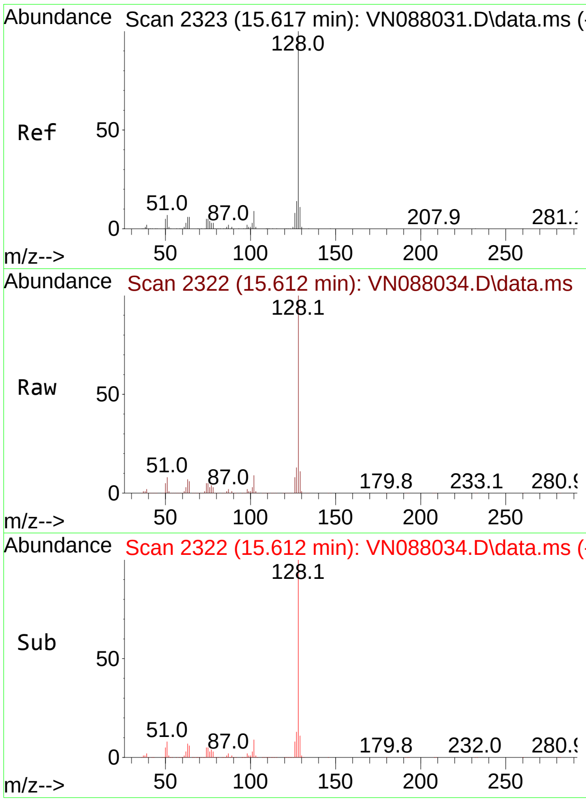
#90
Hexachlorobutadiene
Concen: 139.711 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:225 Resp: 273878

Ion	Ratio	Lower	Upper
225	100		
223	62.8	0.0	129.6
227	62.4	0.0	132.2



ICAL Form



#91
Naphthalene
Concen: 147.662 ug/l
RT: 15.612 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

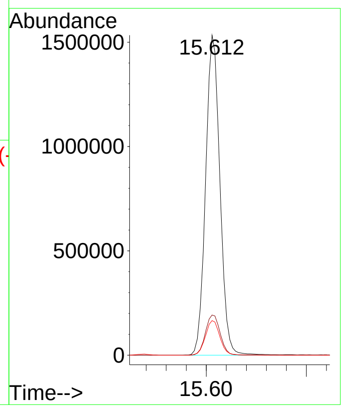
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

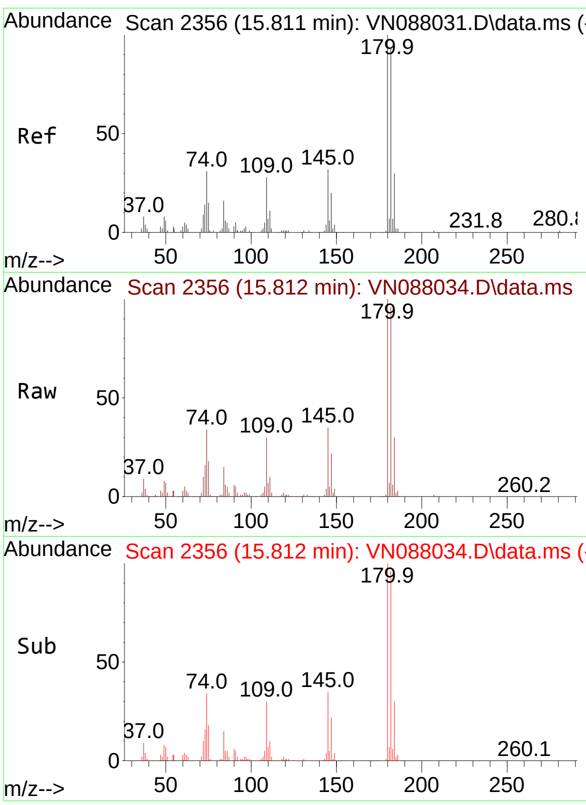
Tgt Ion:128 Resp: 304492

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.9	8.6	13.0

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

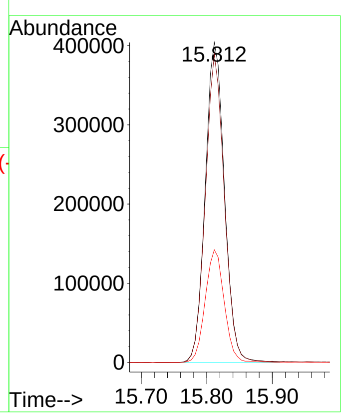




#92
1,2,3-Trichlorobenzene
Concen: 147.221 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088034.D
Acq: 08 Oct 2025 11:12

Tgt Ion:180 Resp: 829215

Ion	Ratio	Lower	Upper
180	100		
182	94.4	0.0	186.6
145	34.8	0.0	68.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088036.D
Acq On : 08 Oct 2025 12:52
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : ICVVN100825

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 02:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	7.794	128	71678	30.000 ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	399537	30.000 ug/l	0.00
57) Chlorobenzene-d5	11.847	117	349709	30.000 ug/l	0.00
System Monitoring Compounds					
27) 1,2-Dichloroethane-d4	8.559	65	167135	29.945 ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.800%		
60) 4-Bromofluorobenzene	12.829	95	172458	29.914 ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.700%		
63) Toluene-d8	10.547	98	468600	30.075 ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.267%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.142	85	82744	20.154 ug/l	95
3) Chloromethane	2.383	50	93360	20.058 ug/l	98
4) Vinyl Chloride	2.536	62	95282	19.632 ug/l	96
5) Bromomethane	2.977	94	57202	21.918 ug/l	99
6) Chloroethane	3.136	64	60278	18.828 ug/l	97
7) Trichlorofluoromethane	3.512	101	127893	19.378 ug/l	99
8) Diethyl Ether	3.965	74	55257	18.530 ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	69948	19.799 ug/l	97
10) 1,1-Dichloroethene	4.336	96	73588	19.526 ug/l	98
11) Methyl Iodide	4.583	142	59897	17.244 ug/l	93
12) Methyl Acetate	5.012	43	112275	18.325 ug/l #	88
13) Acrolein	4.171	56	93925	99.064 ug/l #	7
14) Acrylonitrile	5.706	53	277894	93.988 ug/l	100
15) Acetone	4.430	58	77464m	89.462 ug/l	
16) Carbon Disulfide	4.706	76	233680	19.779 ug/l	97
17) Allyl chloride	5.006	41	134223	18.874 ug/l	95
18) Methylene Chloride	5.259	84	91812	19.167 ug/l	94
19) trans-1,2-Dichloroethene	5.777	96	84343	19.357 ug/l	94
20) Diisopropyl ether	6.659	45	308391	19.048 ug/l #	97
21) 1,1-Dichloroethane	6.547	63	160073	18.992 ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	103897	19.048 ug/l	98
23) tert-Butyl Alcohol	5.518	59	111186	93.763 ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	305027	18.751 ug/l	100
25) Chloroform	7.953	83	166302	19.120 ug/l	94
26) Cyclohexane	8.241	56	135705	19.433 ug/l #	97
29) 1,1-Dichloropropene	8.353	75	111713	19.507 ug/l	98
30) 2-Butanone	7.471	43	383183	90.720 ug/l	100
31) 2,2-Dichloropropane	7.477	77	136899	18.552 ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	138868	19.406 ug/l	100
33) Carbon Tetrachloride	8.341	117	117258	19.562 ug/l	93
34) Benzene	8.583	78	362455	19.081 ug/l	97
35) Methacrylonitrile	7.759	41	88280	19.875 ug/l	95
36) 1,2-Dichloroethane	8.653	62	127793	19.378 ug/l	100
37) Trichloroethene	9.336	130	86434	19.205 ug/l	95
38) Methylcyclohexane	9.583	83	139333	19.701 ug/l	99
39) 1,2-Dichloropropane	9.600	63	88633	18.608 ug/l	98
40) Dibromomethane	9.688	93	65564	18.910 ug/l	97
41) Bromodichloromethane	9.871	83	135709	19.165 ug/l	98
42) Vinyl Acetate	6.589	43	1445002	100.422 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088036.D
Acq On : 08 Oct 2025 12:52
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Quant Time: Oct 09 02:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	156744	19.305	ug/l	96
44) Isopropyl Acetate	8.671	43	246443	18.583	ug/l	93
45) 1,4-Dioxane	9.677	88	36239	410.874	ug/l	92
46) Methyl methacrylate	9.665	41	109997	18.835	ug/l	98
47) n-amyl Acetate	12.618	43	128465m	20.438	ug/l	
48) t-1,3-Dichloropropene	10.818	75	145368	18.462	ug/l	96
49) cis-1,3-Dichloropropene	10.288	75	153293	18.663	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	85732	18.672	ug/l	97
51) Ethyl methacrylate	10.859	69	146337	18.832	ug/l	97
52) 1,3-Dichloropropane	11.141	76	152014	18.977	ug/l	100
53) Dibromochloromethane	11.335	129	103530	18.861	ug/l	99
54) 1,2-Dibromoethane	11.447	107	91960	18.734	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	416502	99.302	ug/l	100
56) Bromoform	12.559	173	68875	18.560	ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	758466	96.964	ug/l	99
59) 2-Hexanone	11.177	43	483068	93.537	ug/l	99
61) Tetrachloroethene	11.082	164	71033	20.058	ug/l	97
62) Toluene	10.606	91	386375	19.478	ug/l	98
64) Chlorobenzene	11.871	112	244551	19.301	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	85260	19.526	ug/l	97
66) Ethyl Benzene	11.941	91	429071	19.892	ug/l	97
67) m/p-Xylenes	12.047	106	324024	38.967	ug/l	99
68) o-Xylene	12.377	106	165214	19.959	ug/l	99
69) Styrene	12.388	104	265810	19.412	ug/l	97
70) Isopropylbenzene	12.676	105	398248	19.630	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	131239	19.080	ug/l	99
72) 1,2,3-Trichloropropane	12.971	75	127895m	20.021	ug/l	
73) Bromobenzene	12.959	156	95991	19.358	ug/l	99
74) n-propylbenzene	13.012	91	477849	19.511	ug/l	100
75) 2-Chlorotoluene	13.106	91	293367	19.590	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	338338	19.632	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	45124	17.725	ug/l	92
78) 4-Chlorotoluene	13.200	91	304451	20.011	ug/l	96
79) tert-butylbenzene	13.418	119	300216	20.095	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	334037	19.362	ug/l	99
81) sec-Butylbenzene	13.594	105	420608	20.024	ug/l	99
82) p-Isopropyltoluene	13.706	119	357698	19.946	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	182636	19.575	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	189713	19.717	ug/l	97
85) n-Butylbenzene	14.035	91	325855	19.531	ug/l	98
86) Hexachloroethane	14.312	117	68552	19.082	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	180967	19.720	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	29181	18.472	ug/l	95
89) 1,2,4-Trichlorobenzene	15.812	180	104369	19.094	ug/l	97
90) Hexachlorobutadiene	15.476	225	37798	19.868	ug/l	96
91) Naphthalene	15.612	128	381643	19.071	ug/l	100
92) 1,2,3-Trichlorobenzene	15.812	180	104369	19.094	ug/l	97

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

Quantitation Report (QT Reviewed)

ICAL Form

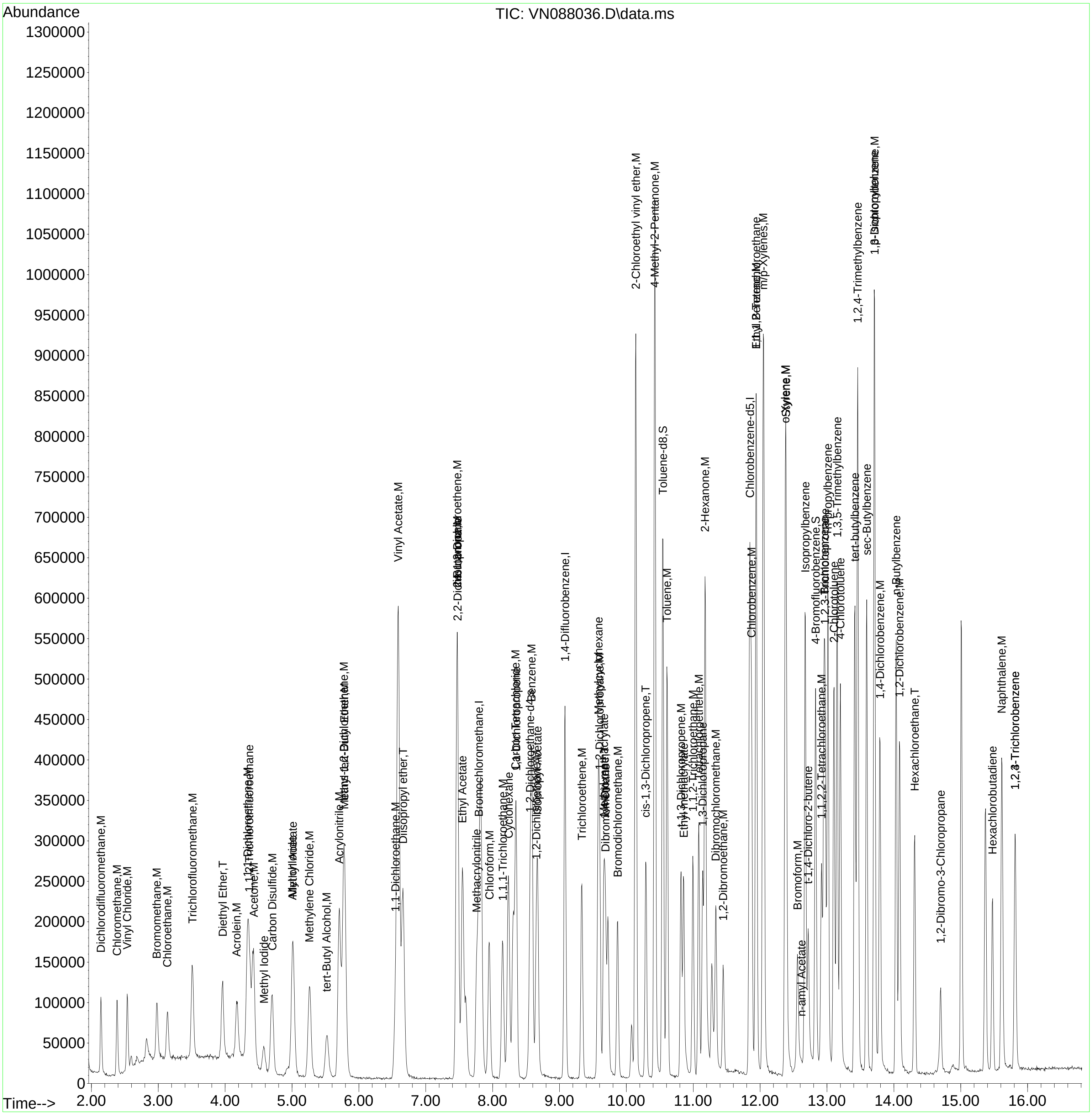
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088036.D
Acq On : 08 Oct 2025 12:52
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 09 02:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

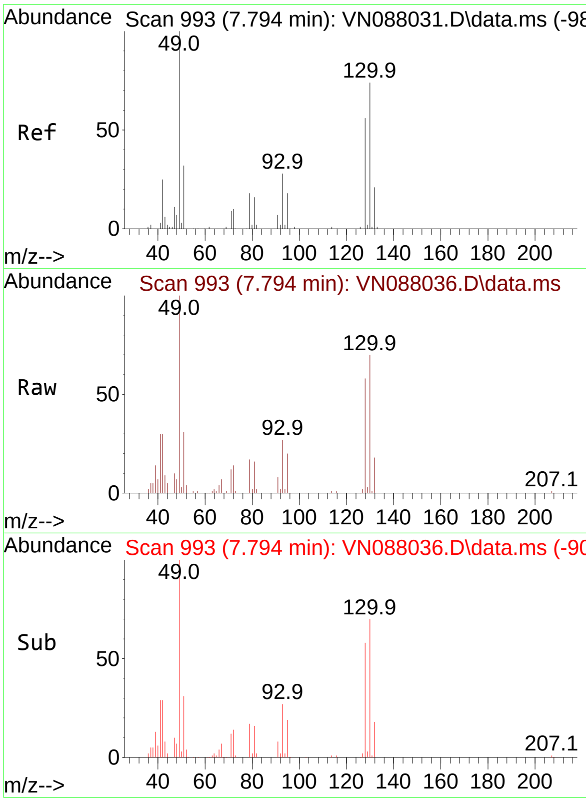
Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



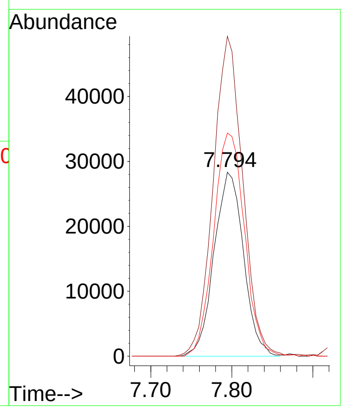
ICAL Form



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min   Scan# 99
Delta R.T.   0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025   12:52

Tgt Ion:128 Resp: 71678

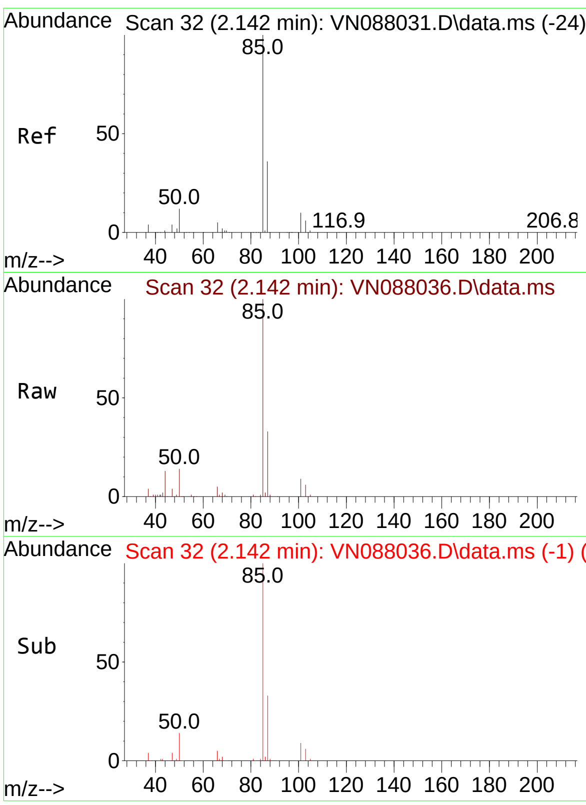
Ion	Ratio	Lower	Upper
128	100		
49	174.2	0.0	439.8
130	127.2	0.0	325.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations APPROVED

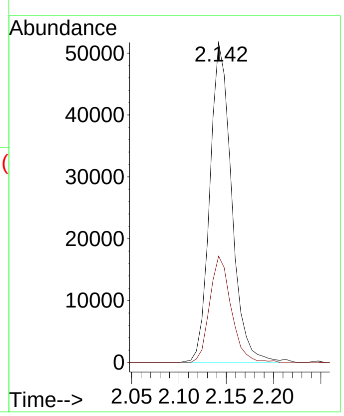
Reviewed By :John Carlone   10/09/2025
Supervised By :Mahesh Dadoda   10/10/2025



#2
Dichlorodifluoromethane
Concen: 20.154 ug/l
RT: 2.142 min   Scan# 32
Delta R.T.   0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025   12:52

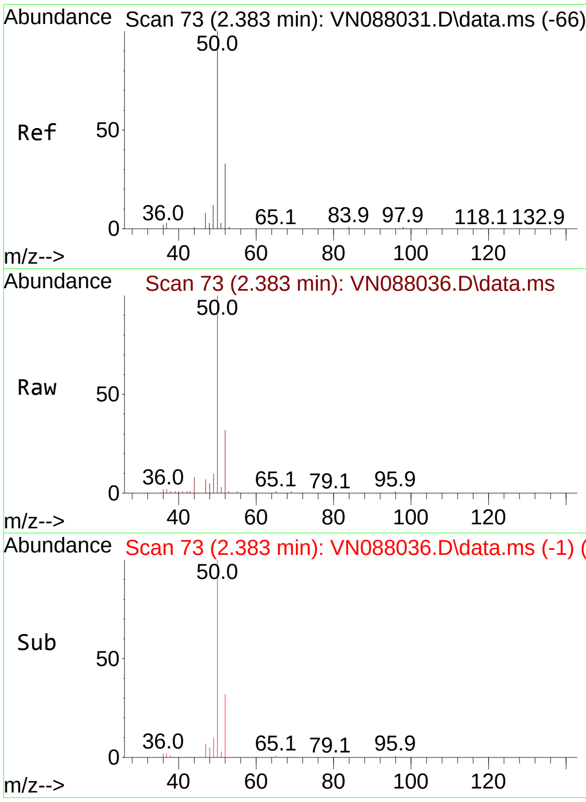
Tgt Ion: 85 Resp: 82744

Ion	Ratio	Lower	Upper
85	100		
87	33.2	17.9	53.8



Instrument : MSVOA_N
ClientSampleId : ICVVN100825

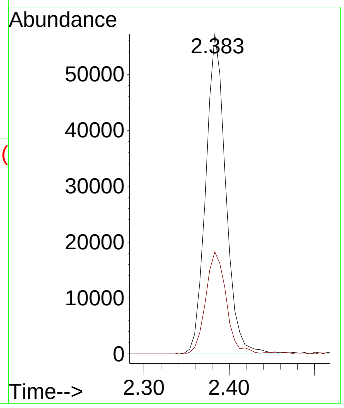
Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

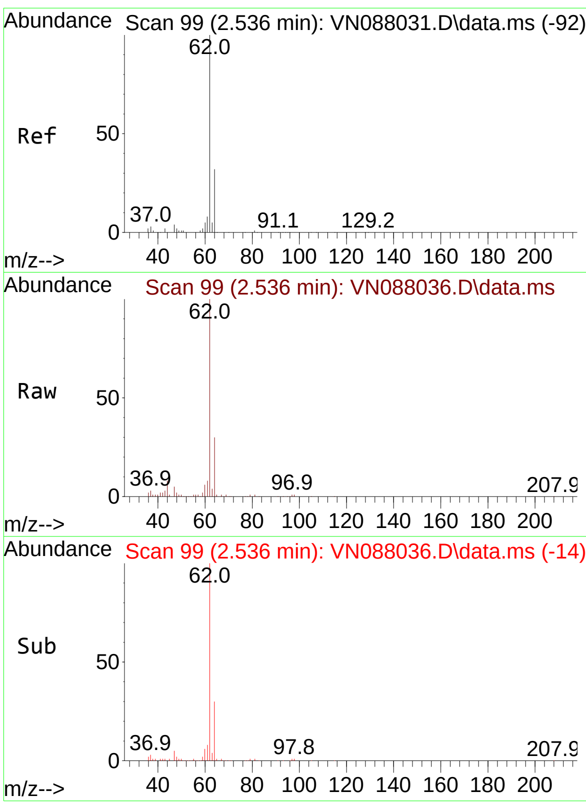


#3
Chloromethane
Concen: 20.058 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 50 Resp: 9336

Ion	Ratio	Lower	Upper
50	100		
52	31.6	26.3	39.5

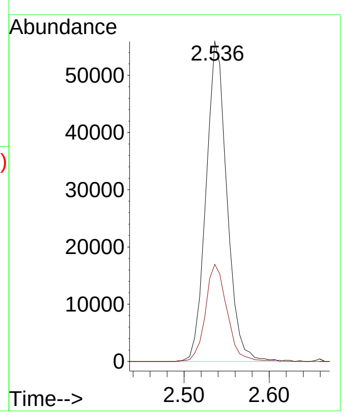




#4
Vinyl Chloride
Concen: 19.632 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 62 Resp: 95282

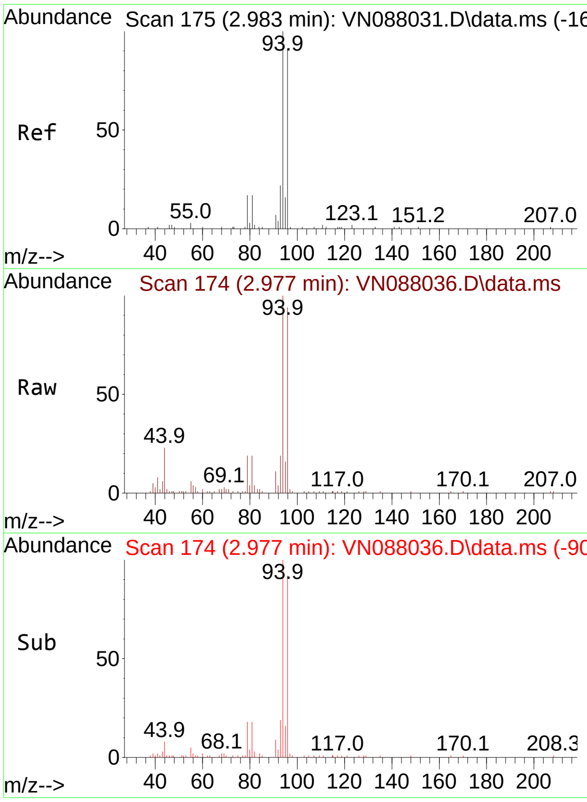
Ion	Ratio	Lower	Upper
62	100		
64	30.0	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations APPROVED

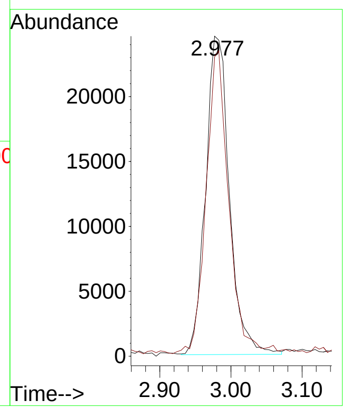
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

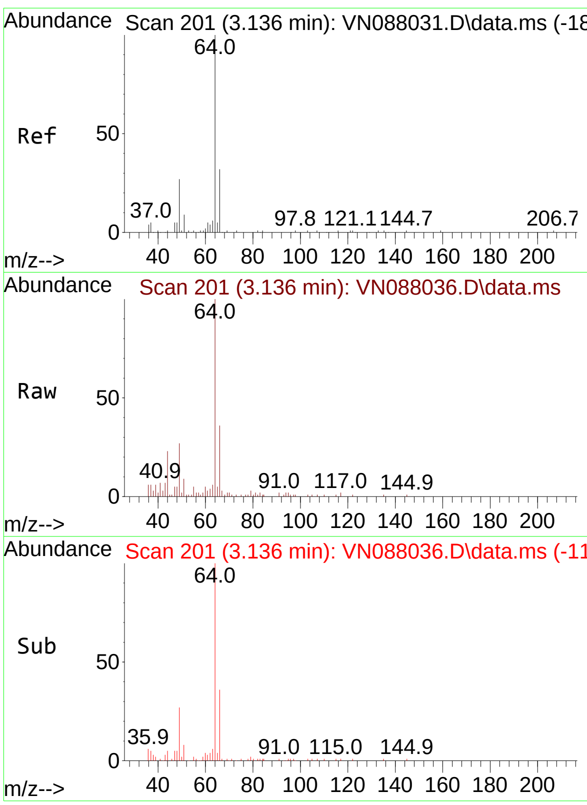


#5
Bromomethane
Concen: 21.918 ug/l
RT: 2.977 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 94 Resp: 5720

Ion	Ratio	Lower	Upper
94	100		
96	92.3	73.0	109.4

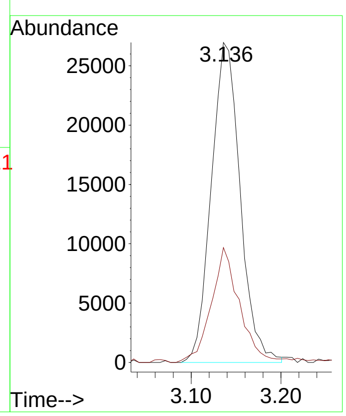




#6
Chloroethane
Concen: 18.828 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 64 Resp: 60278

Ion	Ratio	Lower	Upper
64	100		
66	35.2	26.8	40.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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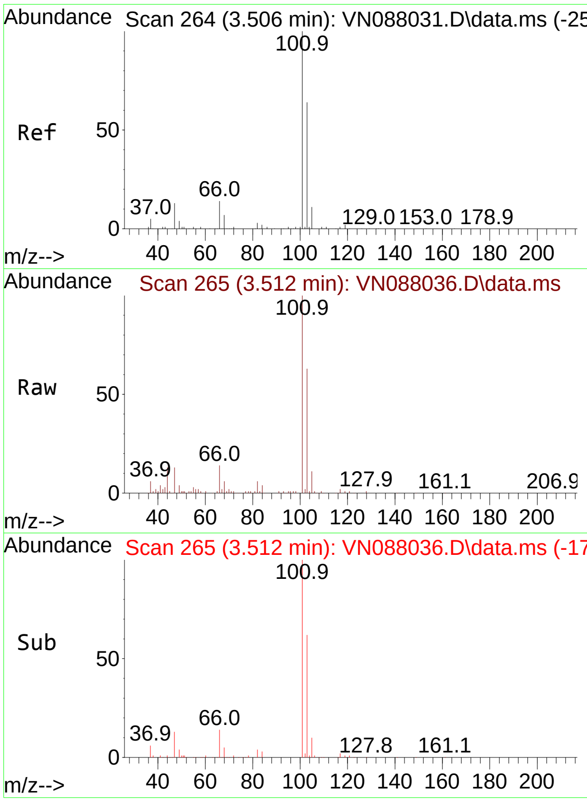
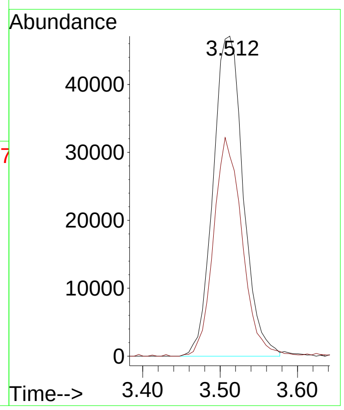
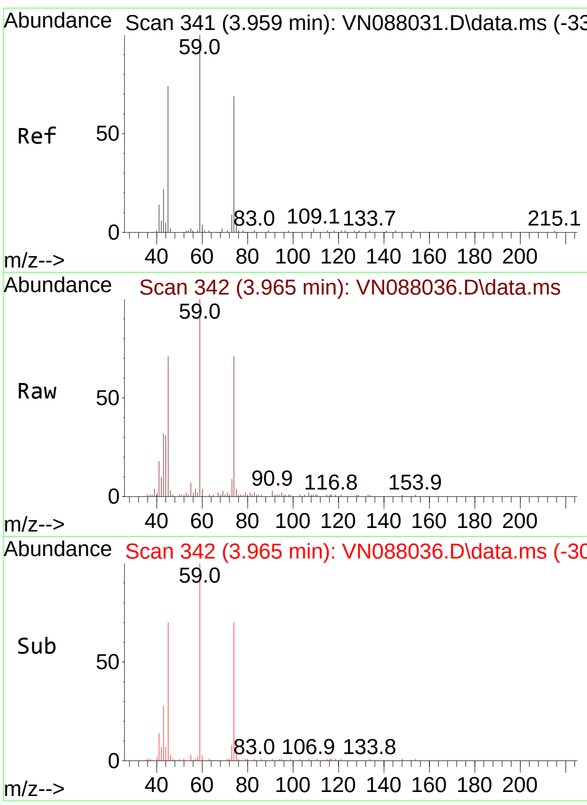


#7
Trichlorofluoromethane
Concen: 19.378 ug/l
RT: 3.512 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:101 Resp: 127891

Ion	Ratio	Lower	Upper
101	100		
103	62.6	51.0	76.4

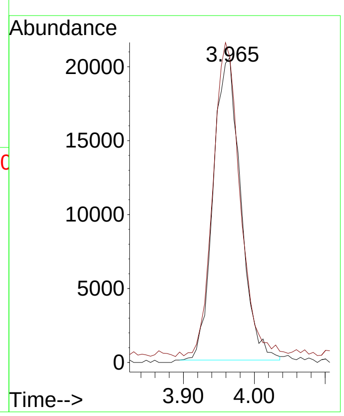




#8
Diethyl Ether
Concen: 18.530 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 74 Resp: 55257

Ion	Ratio	Lower	Upper
74	100		
45	102.0	20.4	183.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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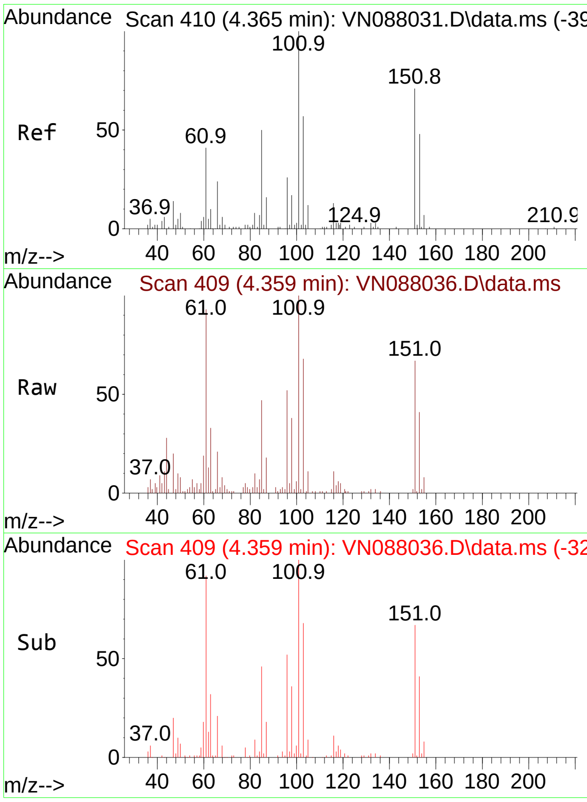
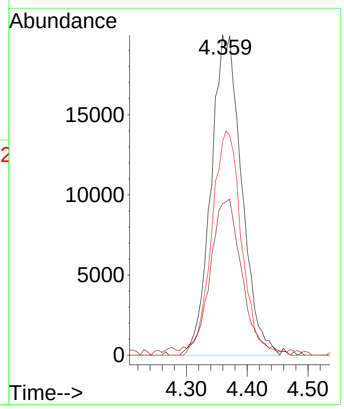
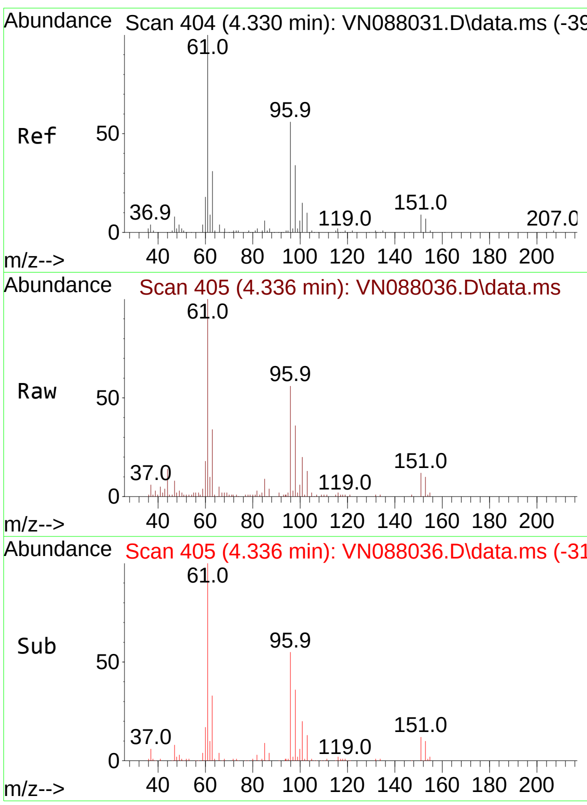


#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.799 ug/l
RT: 4.359 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:101 Resp: 6994

Ion	Ratio	Lower	Upper
101	100		
85	48.7	0.0	103.2
151	68.3	0.0	141.4

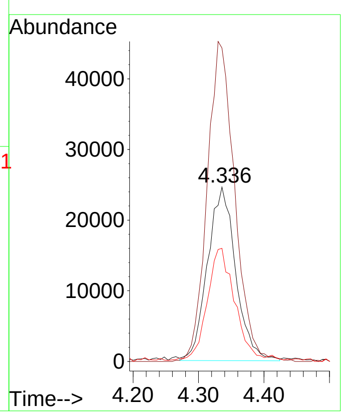


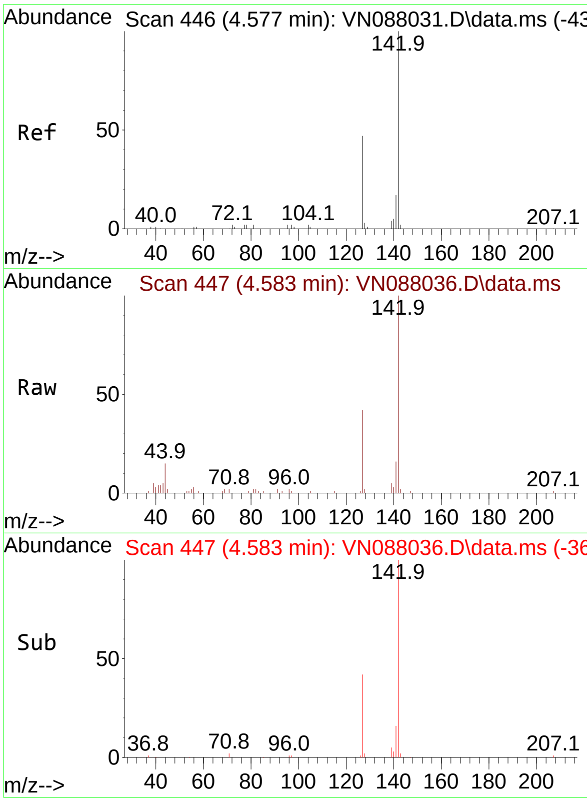


#10
1,1-Dichloroethene
Concen: 19.526 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 96 Resp: 73588

Ion	Ratio	Lower	Upper
96	100		
61	181.4	144.1	216.1
98	64.4	49.0	73.6





#11
Methyl Iodide
Concen: 17.244 ug/l
RT: 4.583 min Scan# 44
Delta R.T. 0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion:142 Resp: 5989

Ion	Ratio	Lower	Upper
142	100		
127	41.4	23.4	70.3
141	15.9	8.8	26.2

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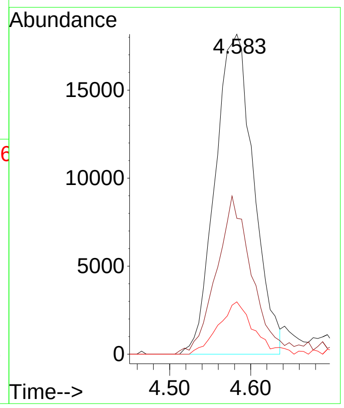
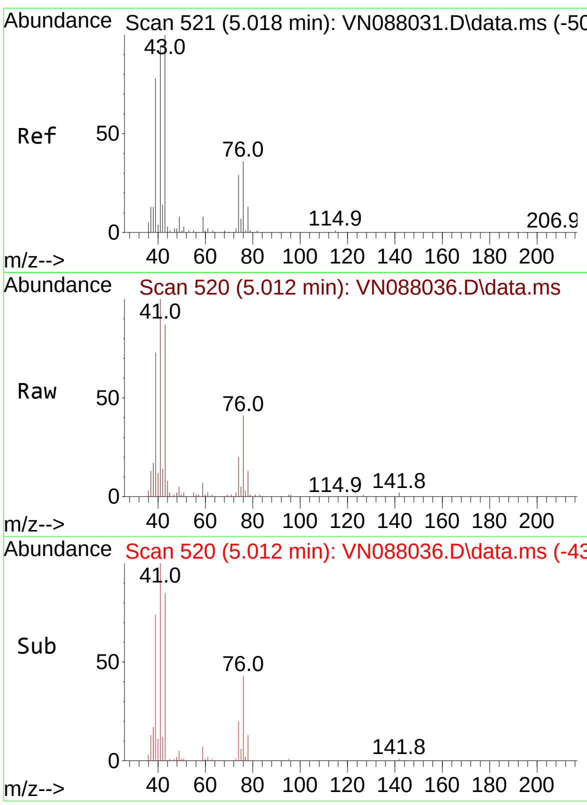
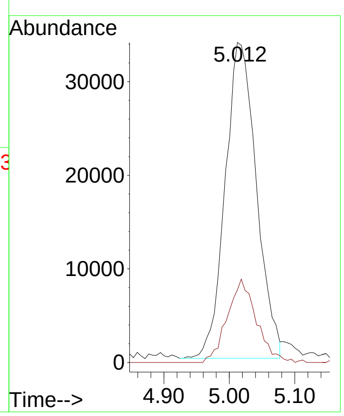




#12
Methyl Acetate
Concen: 18.325 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 43 Resp: 112275

Ion	Ratio	Lower	Upper
43	100		
74	22.5	23.3	34.9#



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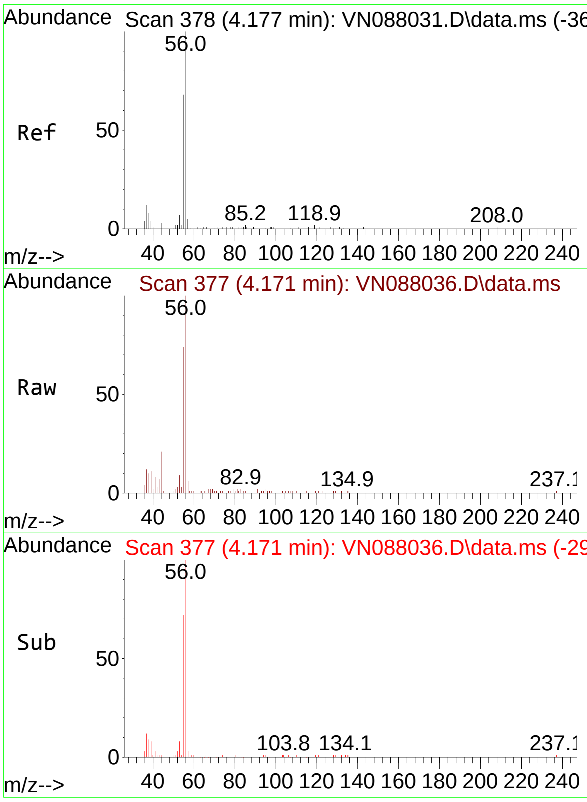

#13
Acrolein
Concen: 99.064 ug/l
RT: 4.171 min Scan# 37
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 56 Resp: 93925

Ion	Ratio	Lower	Upper
56	100		
55	70.1	0.3	0.5

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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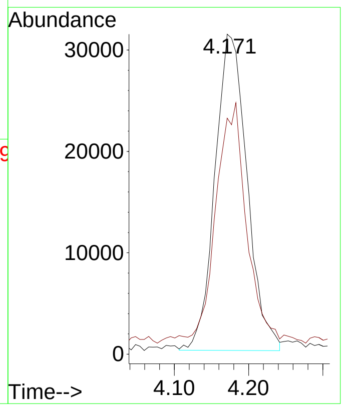
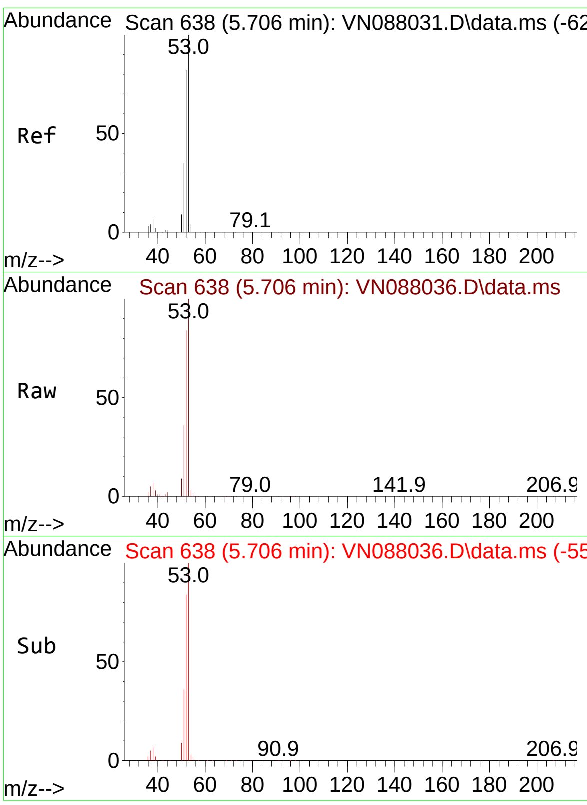
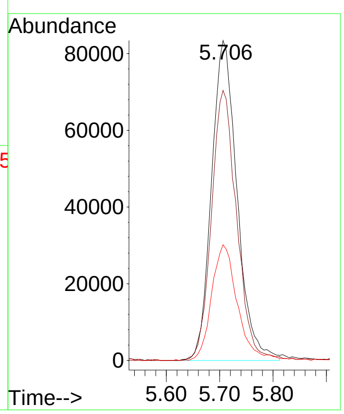




#14
Acrylonitrile
Concen: 93.988 ug/l
RT: 5.706 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 53 Resp: 277894

Ion	Ratio	Lower	Upper
53	100		
52	82.8	41.3	124.1
51	35.6	18.0	54.0



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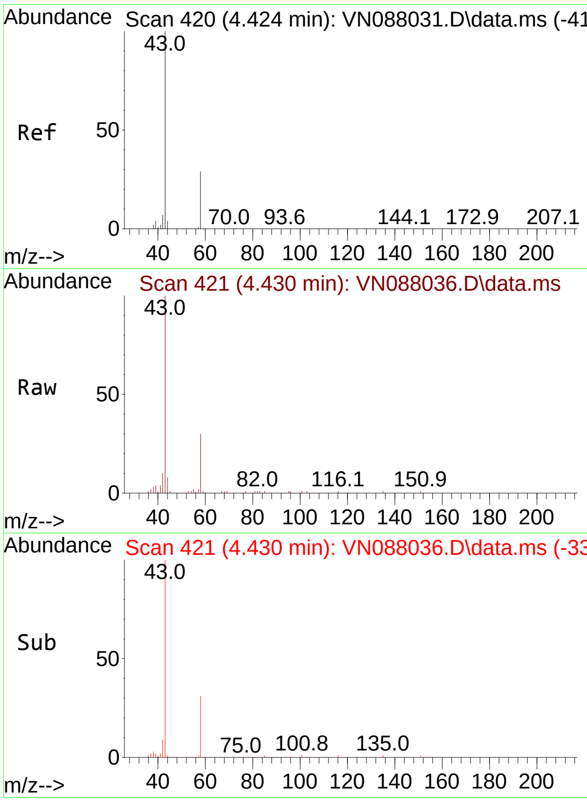

#15
Acetone
Concen: 89.462 ug/l m
RT: 4.430 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 58 Resp: 7746

Ion	Ratio	Lower	Upper
58	100		
43	331.1	282.6	424.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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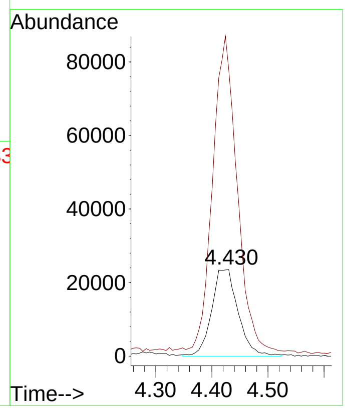
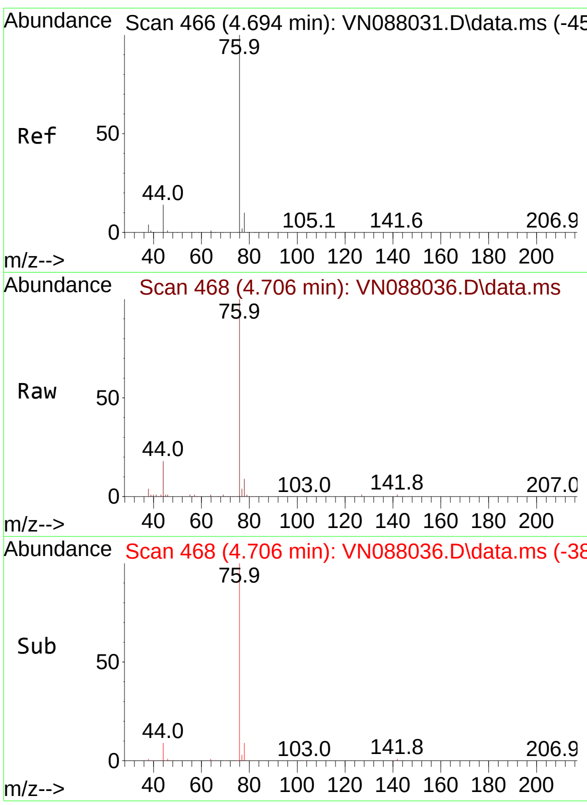
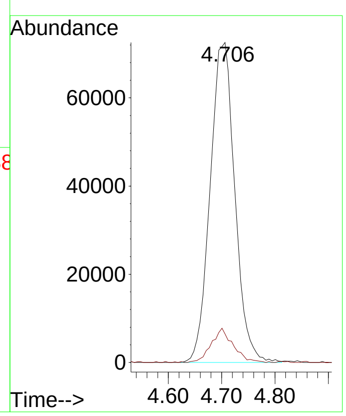




#16
Carbon Disulfide
Concen: 19.779 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.012 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 76 Resp: 233680

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.8	11.8



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Instrument : MSVOA_N
ClientSampleId : ICVVN100825

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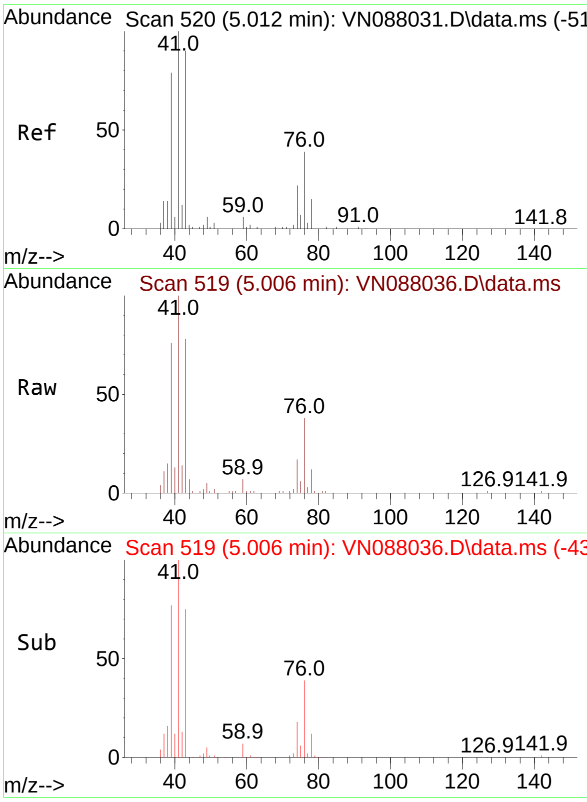
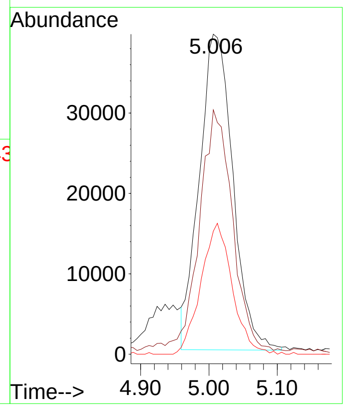
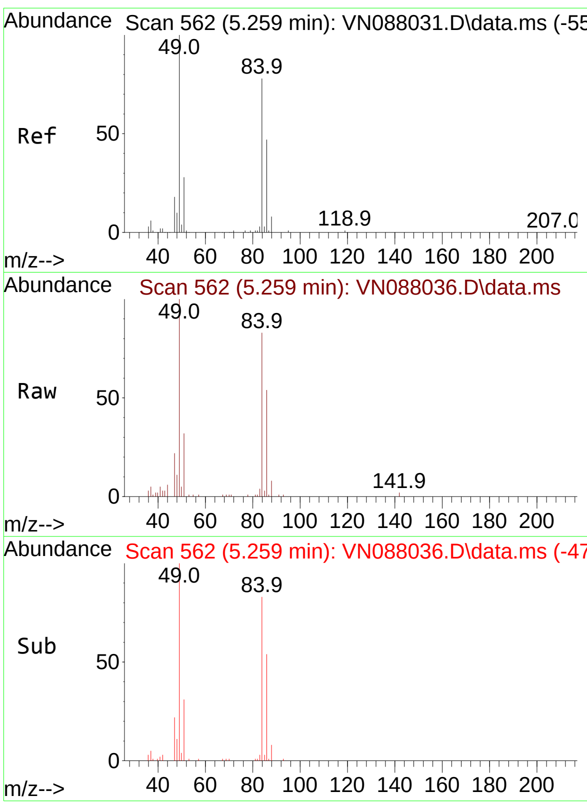


#17
Allyl chloride
Concen: 18.874 ug/l
RT: 5.006 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 41 Resp: 13422

Ion	Ratio	Lower	Upper
41	100		
39	76.8	36.4	109.2
76	38.7	18.1	54.1

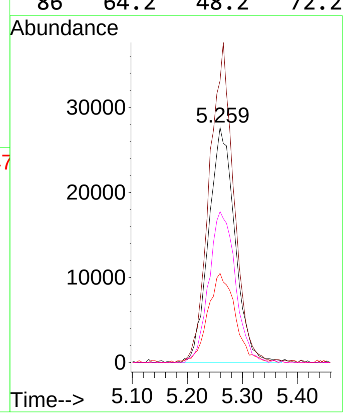




#18
Methylene Chloride
Concen: 19.167 ug/l
RT: 5.259 min Scan# 562
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 84 Resp: 91812

Ion	Ratio	Lower	Upper
84	100		
49	119.9	102.6	153.8
51	37.4	28.6	42.8
86	64.2	48.2	72.2



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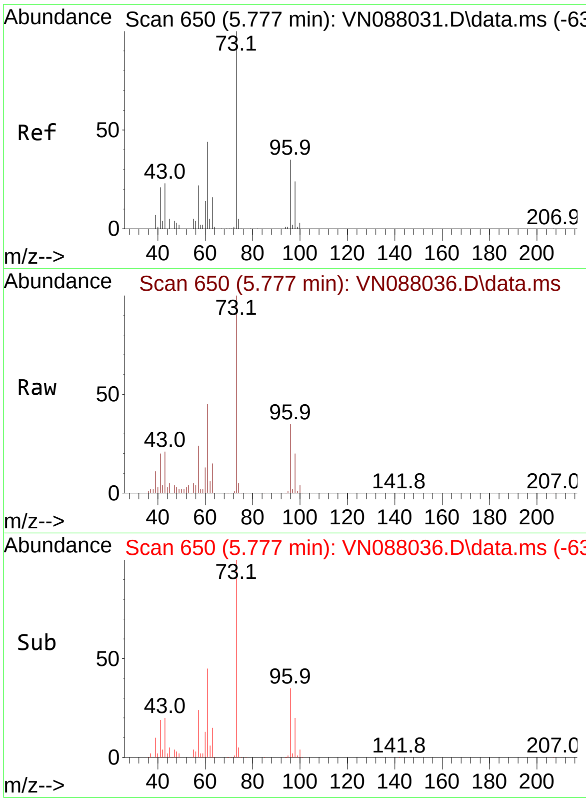

#19
trans-1,2-Dichloroethene
Concen: 19.357 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion: 96 Resp: 8434

Ion	Ratio	Lower	Upper
96	100		
61	127.3	100.6	151.0
98	56.5	54.0	81.0

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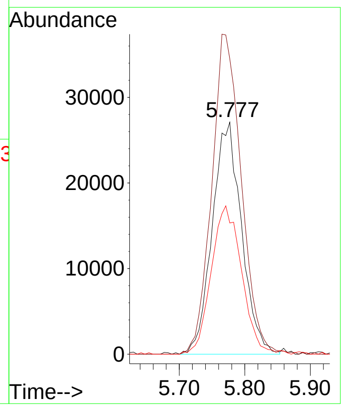
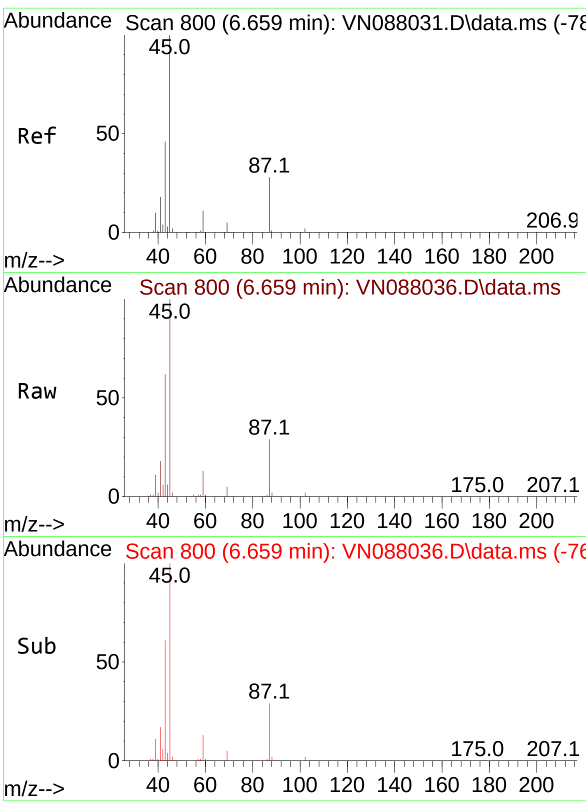
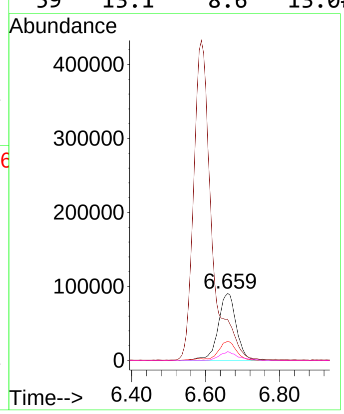




#20
Diisopropyl ether
Concen: 19.048 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 45 Resp: 308391

Ion	Ratio	Lower	Upper
45	100		
43	60.5	46.1	69.1
87	28.7	22.3	33.5
59	13.1	8.6	13.0#



Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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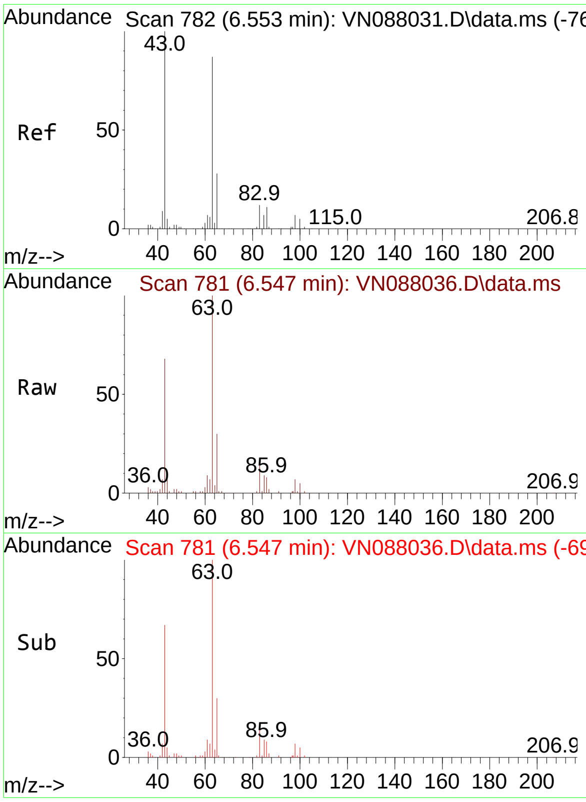
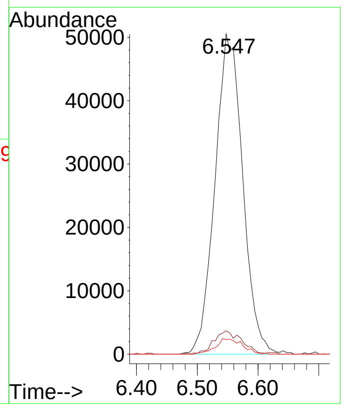
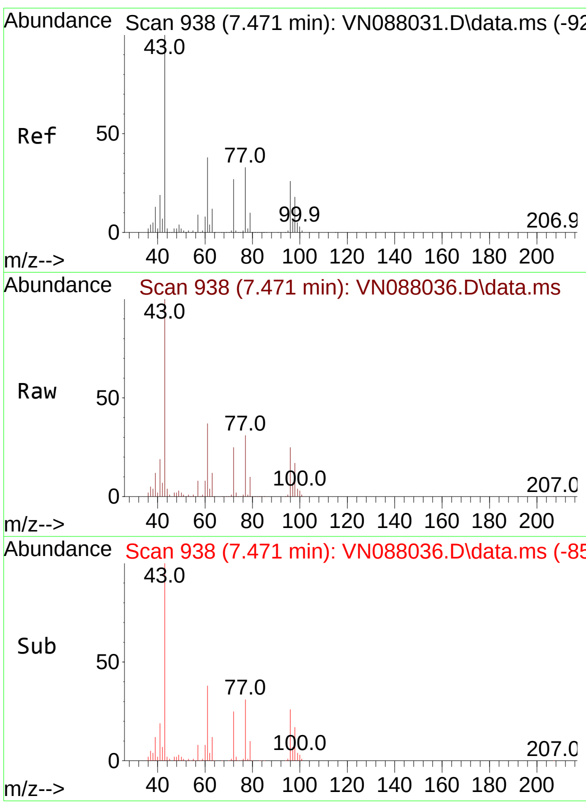


#21
1,1-Dichloroethane
Concen: 18.992 ug/l
RT: 6.547 min Scan# 7
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 63 Resp: 16007

Ion	Ratio	Lower	Upper
63	100		
98	7.3	4.3	12.8
100	4.6	2.6	8.0

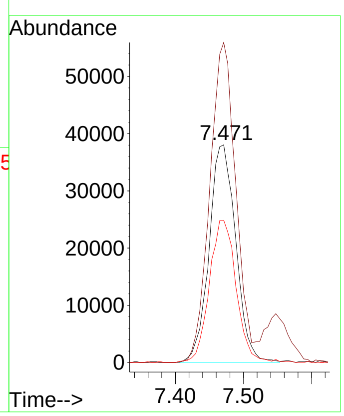




#22
cis-1,2-Dichloroethene
Concen: 19.048 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 96 Resp: 103897

Ion	Ratio	Lower	Upper
96	100		
61	142.4	117.0	175.6
98	65.4	52.6	79.0



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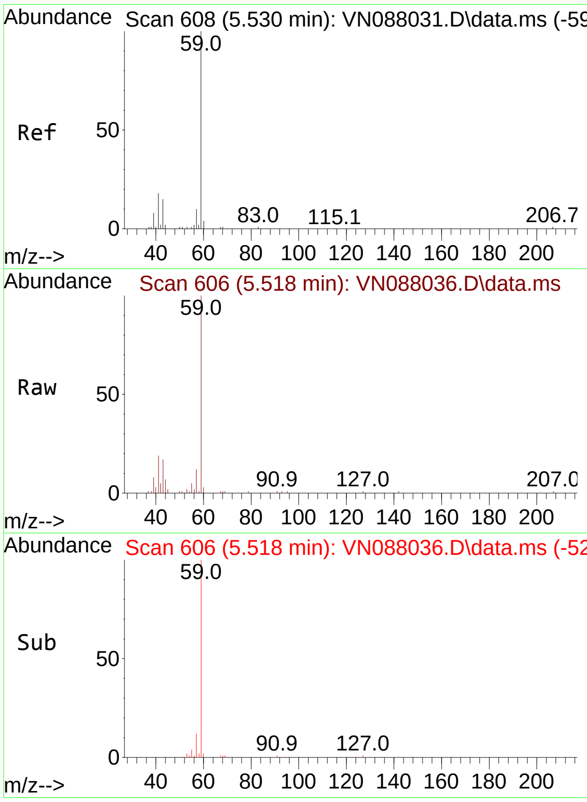

#23
tert-Butyl Alcohol
Concen: 93.763 ug/l
RT: 5.518 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 59 Resp: 11118

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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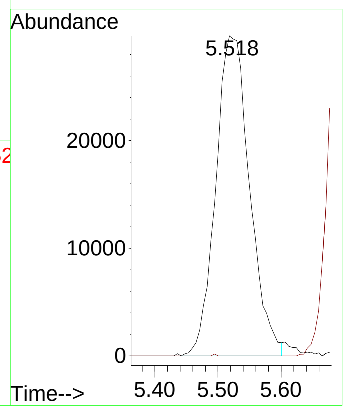
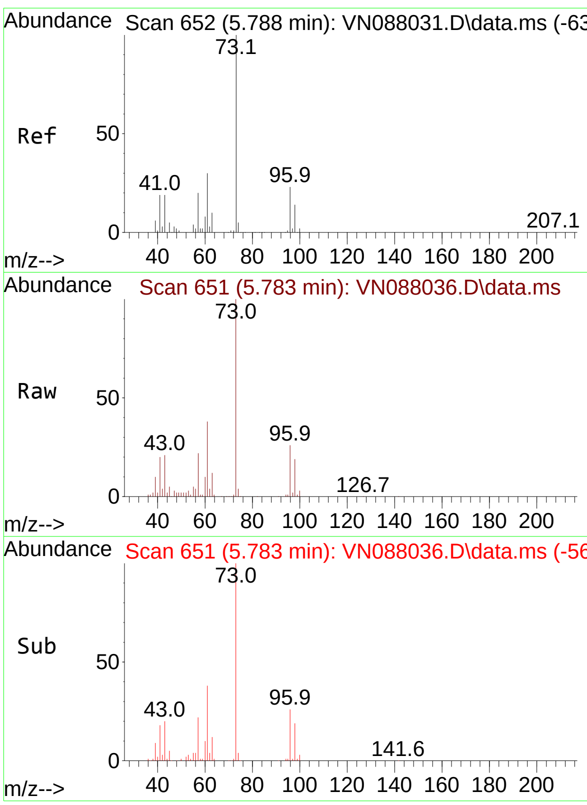
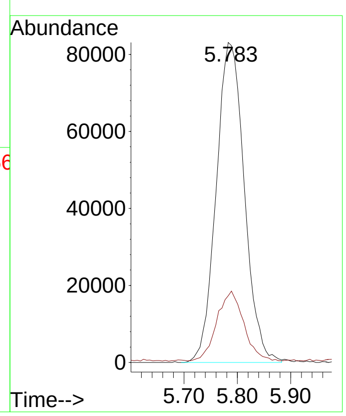




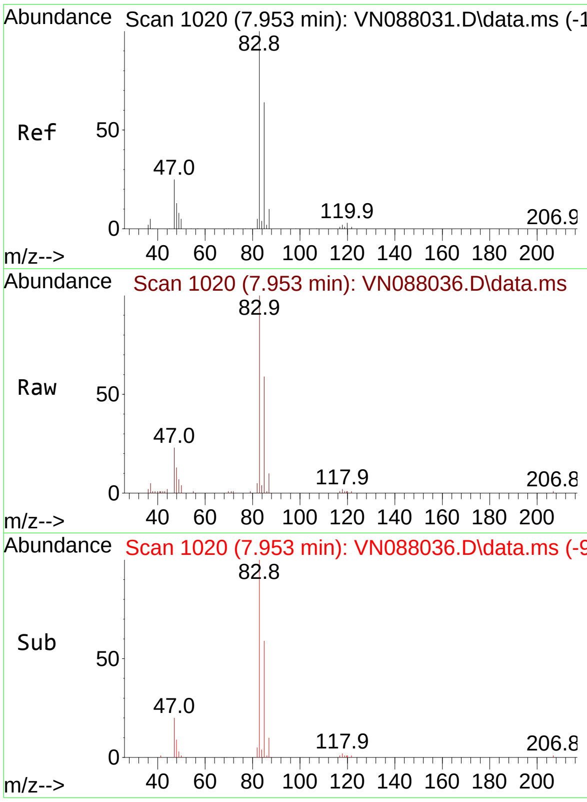
#24
Methyl tert-Butyl Ether
Concen: 18.751 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 73 Resp: 305027

Ion	Ratio	Lower	Upper
73	100		
43	21.0	17.0	25.4



ICAL Form



#25
Chloroform
Concen: 19.120 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 83 Resp: 166302

Ion	Ratio	Lower	Upper
83	100		
85	59.1	50.9	76.3

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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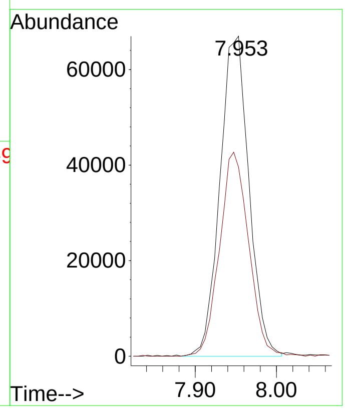
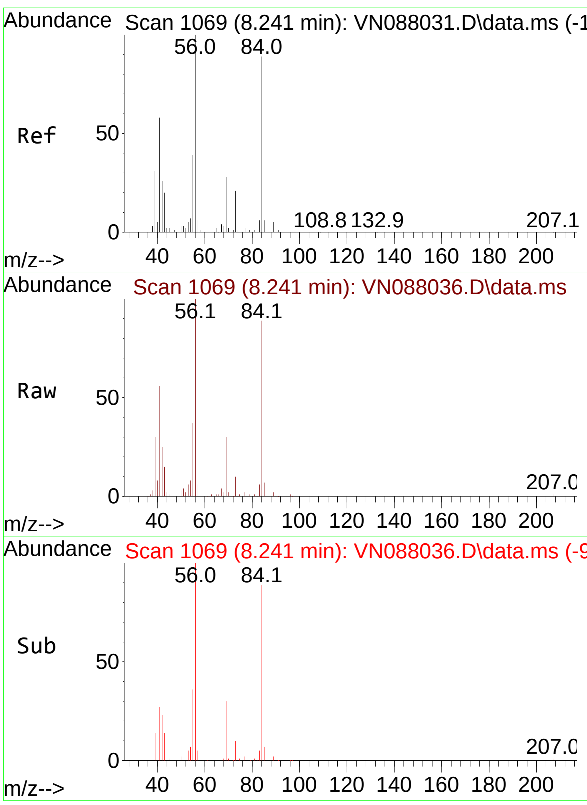
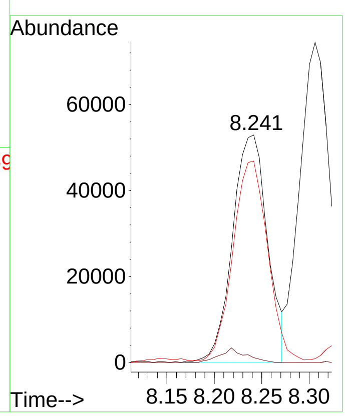


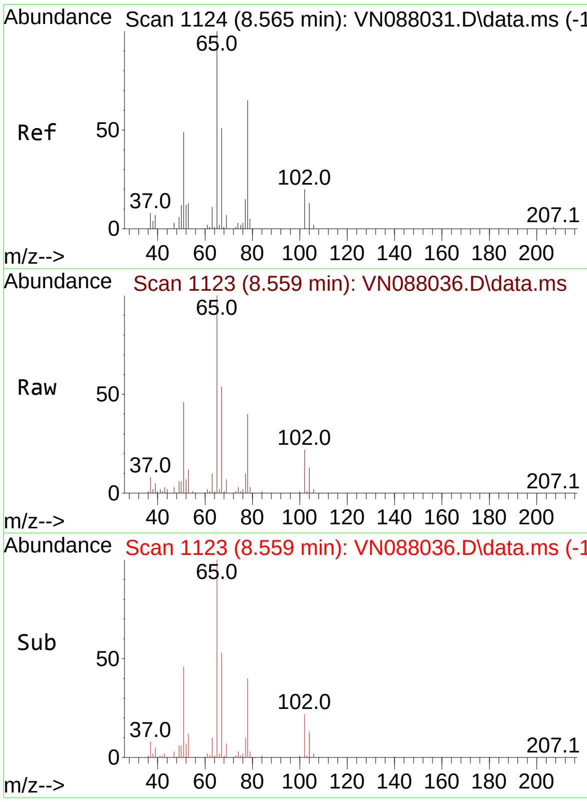


#26
Cyclohexane
Concen: 19.433 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 56 Resp: 135705

Ion	Ratio	Lower	Upper
56	100		
89	4.7	8.6	12.8#
84	88.7	69.6	104.4





#27
1,2-Dichloroethane-d4
Concen: 29.945 ug/l
RT: 8.559 min   Scan# 1
Delta R.T.   -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025   12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion: 65 Resp: 16713

Ion	Ratio	Lower	Upper
65	100		
67	53.0	41.9	62.9

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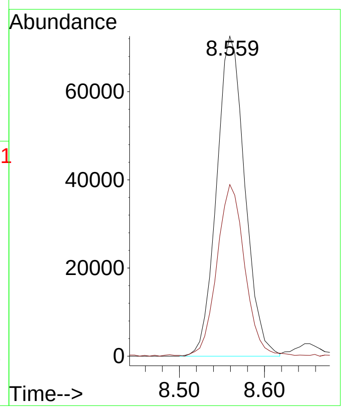
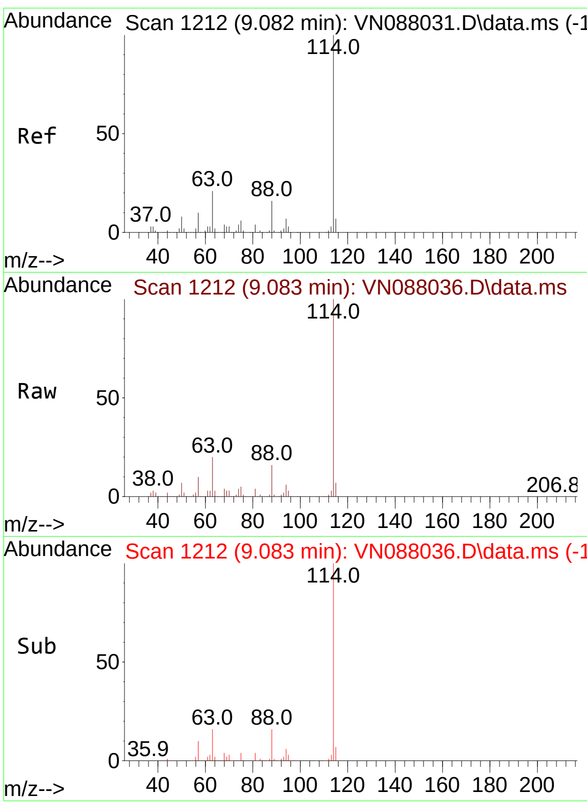
Reviewed By :John Carlone   10/09/2025
Supervised By :Mahesh Dadoda   10/10/2025

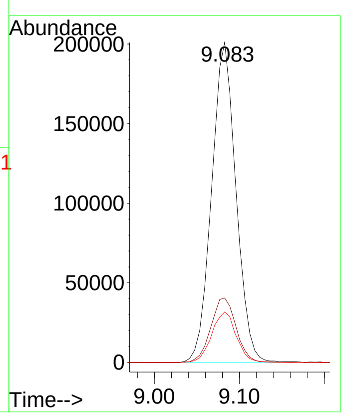


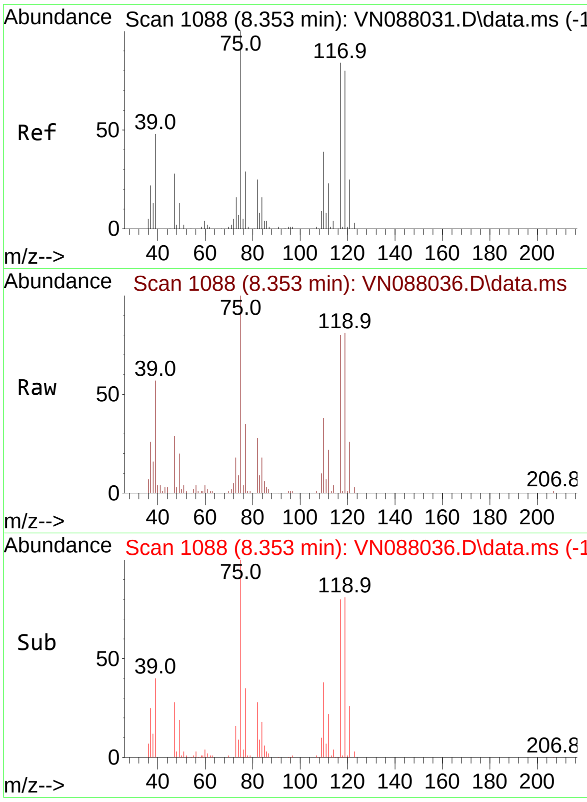


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min   Scan# 1212
Delta R.T.   0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025   12:52

Tgt Ion:114 Resp: 399537

Ion	Ratio	Lower	Upper
114	100		
63	20.9	16.6	25.0
88	15.9	12.6	18.8





#29
1,1-Dichloropropene
Concen: 19.507 ug/l
RT: 8.353 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 75 Resp: 111711

Ion	Ratio	Lower	Upper
75	100		
110	35.0	0.0	72.2
77	31.6	0.0	60.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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Reviewed By :John Carlone 10/09/2025
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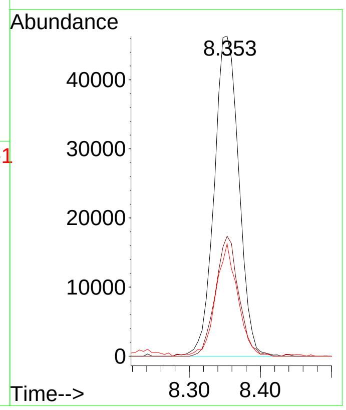
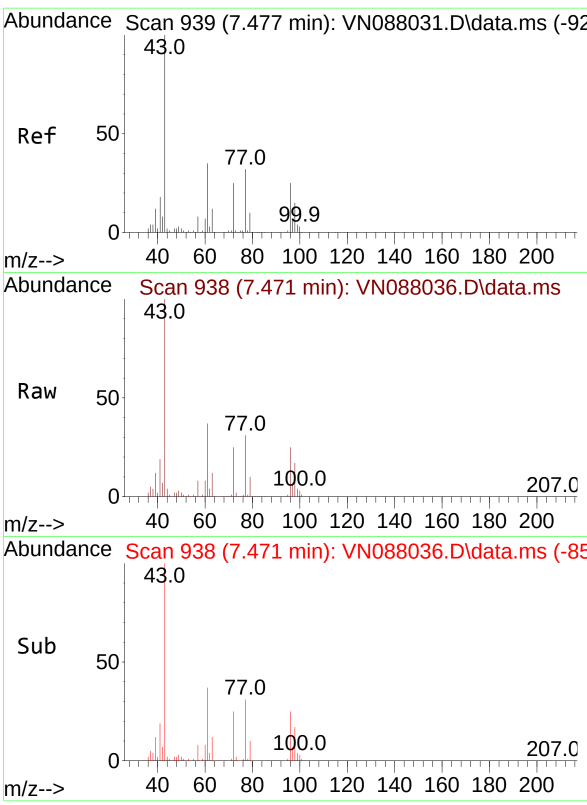
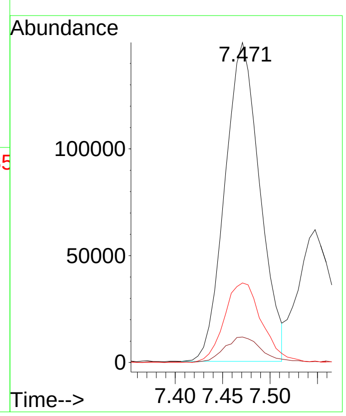


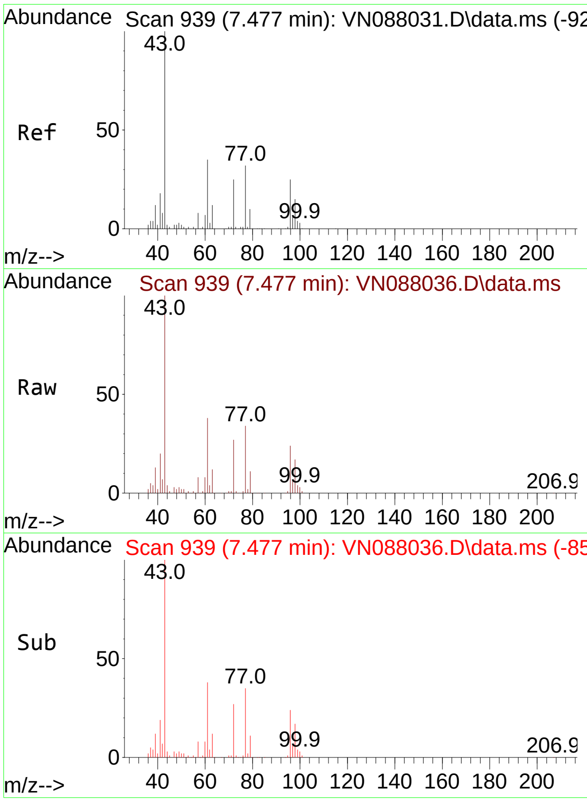


#30
2-Butanone
Concen: 90.720 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 43 Resp: 383183

Ion	Ratio	Lower	Upper
43	100		
57	8.3	6.5	9.7
72	26.8	21.4	32.2





#31
2,2-Dichloropropane
Concen: 18.552 ug/l
RT: 7.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations
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Reviewed By :John Carlone 10/09/2025
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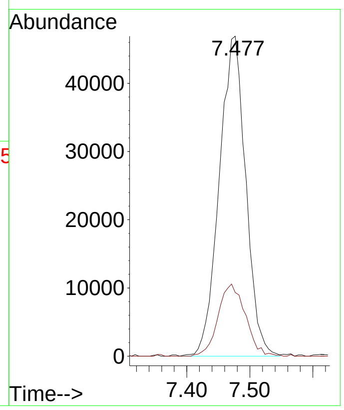
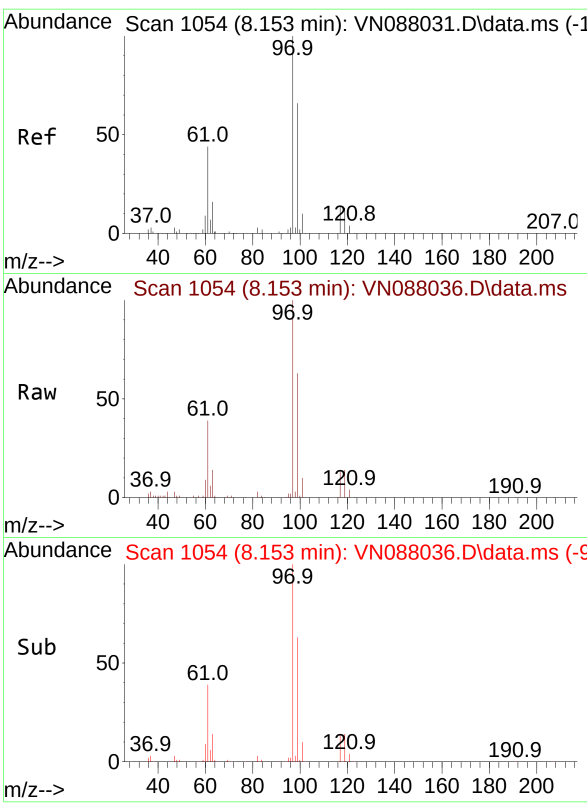
Tgt Ion: 77 Resp: 13689

Ion	Ratio	Lower	Upper
77	100		
97	23.0	17.8	26.8

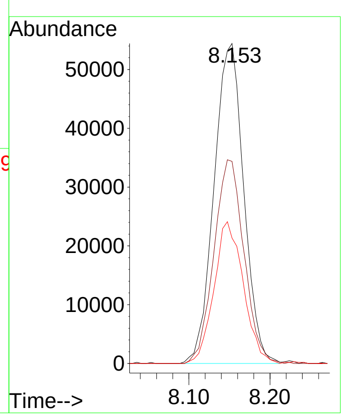




#32
1,1,1-Trichloroethane
Concen: 19.406 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 97 Resp: 138868

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.2
61	43.7	34.7	52.1



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Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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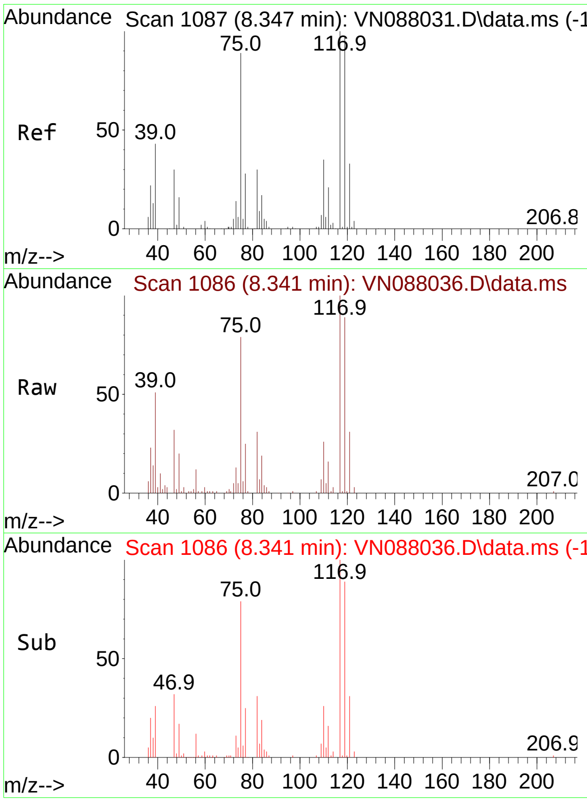
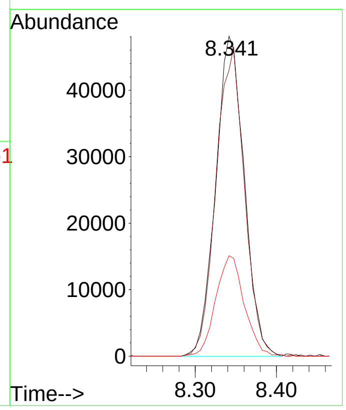
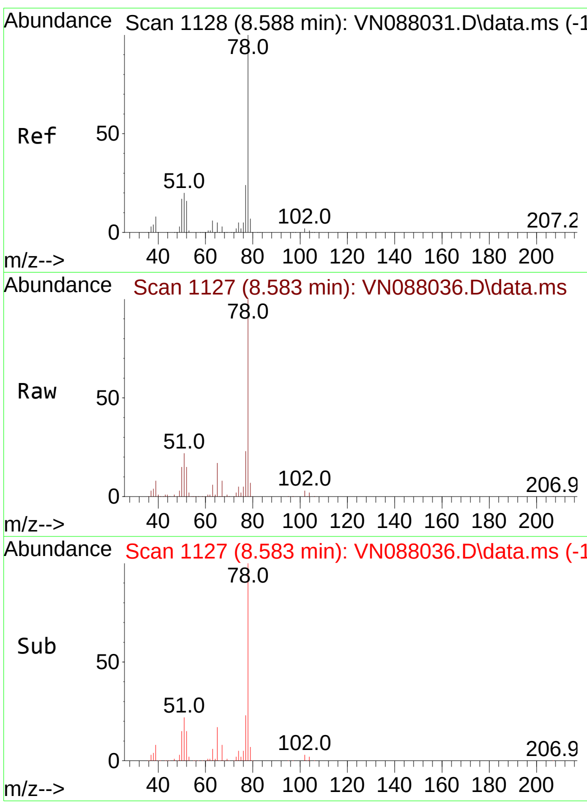


#33
Carbon Tetrachloride
Concen: 19.562 ug/l
RT: 8.341 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:117 Resp: 117258

Ion	Ratio	Lower	Upper
117	100		
119	89.4	77.9	116.9
121	31.4	26.4	39.6

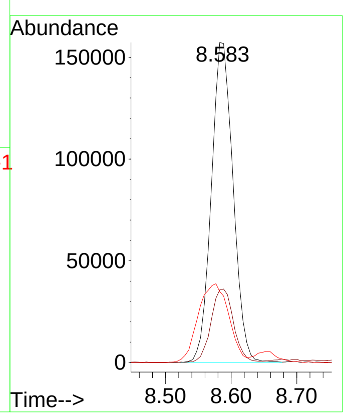




#34
Benzene
Concen: 19.081 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 78 Resp: 362455

Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.9	28.3
51	21.1	15.6	23.4



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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Reviewed By :John Carlone 10/09/2025
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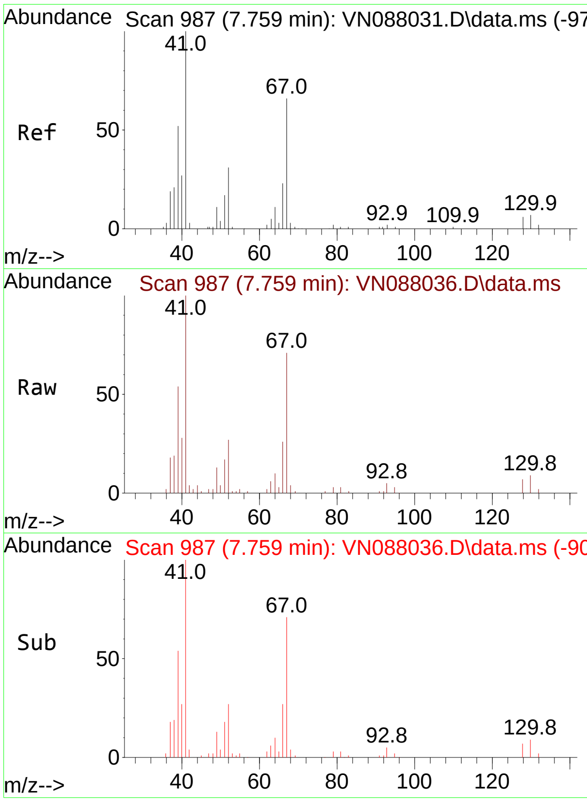
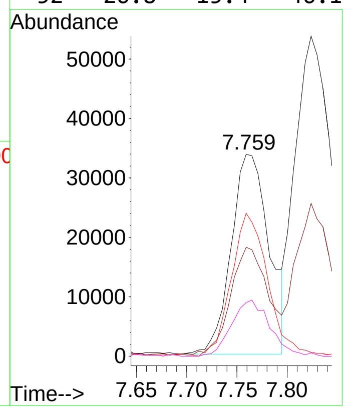
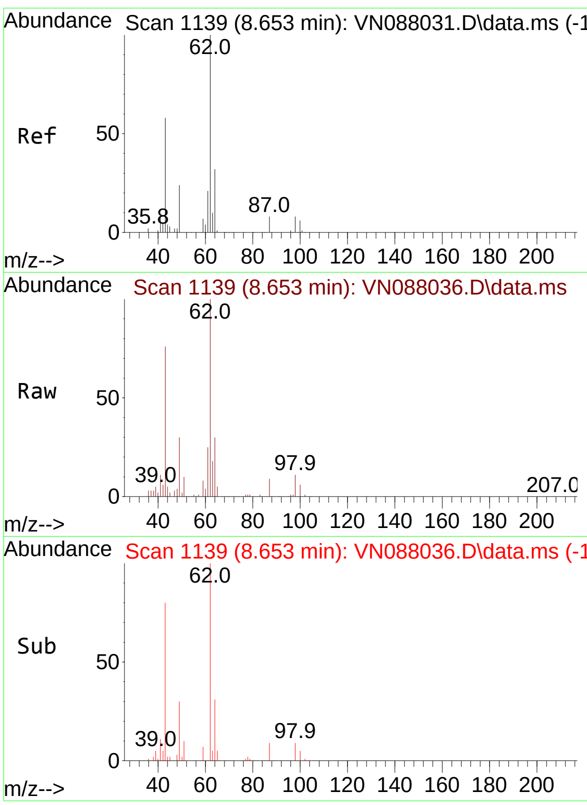


#35
Methacrylonitrile
Concen: 19.875 ug/l
RT: 7.759 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 41 Resp: 8828

Ion	Ratio	Lower	Upper
41	100		
39	53.4	26.1	78.3
67	70.6	33.1	99.2
52	26.8	15.4	46.1

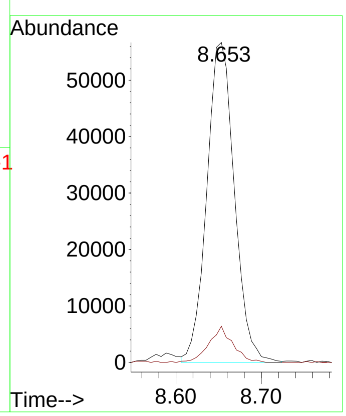




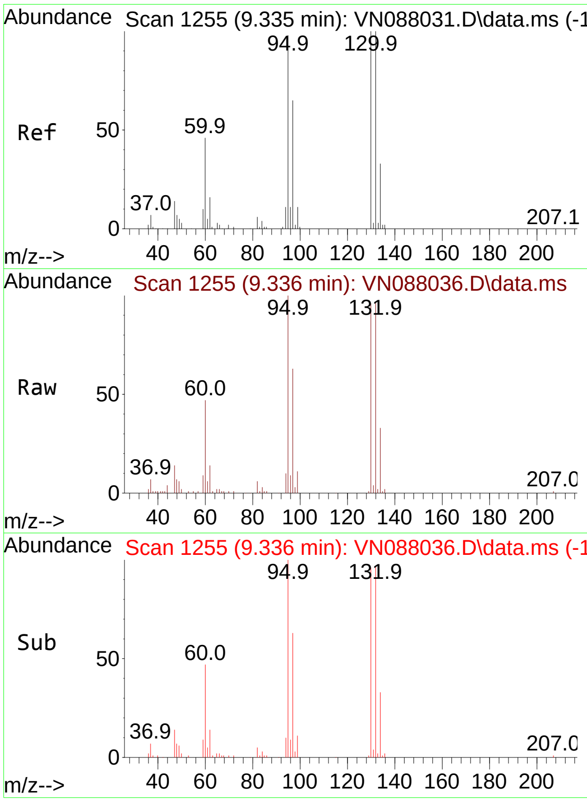
#36
1,2-Dichloroethane
Concen: 19.378 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 62 Resp: 127793

Ion	Ratio	Lower	Upper
62	100		
98	9.8	7.8	11.6



ICAL Form



#37
Trichloroethene
Concen: 19.205 ug/l
RT: 9.336 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:130 Resp: 8643

Ion	Ratio	Lower	Upper
130	100		
95	103.4	78.7	118.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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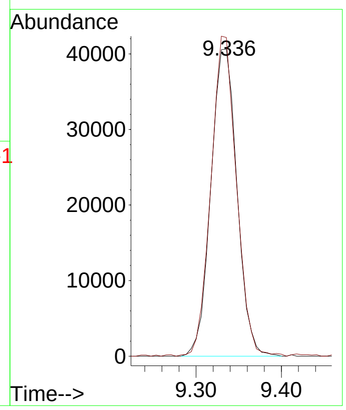
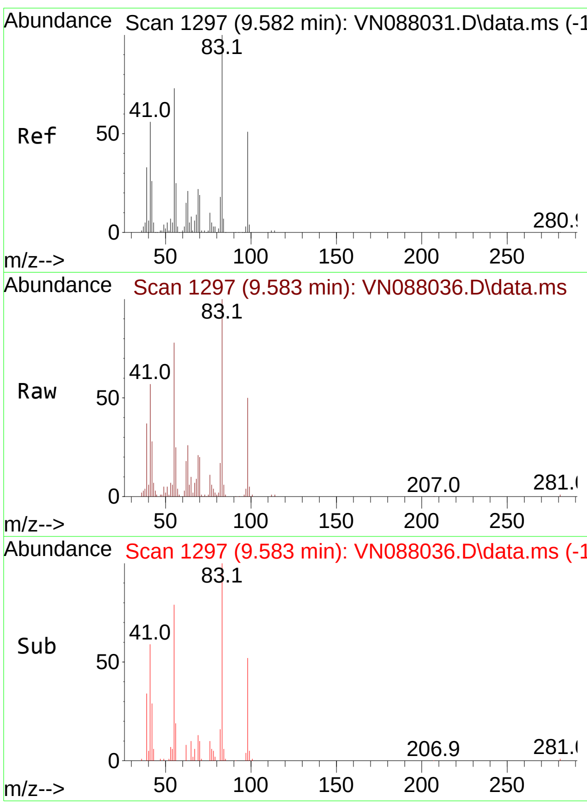
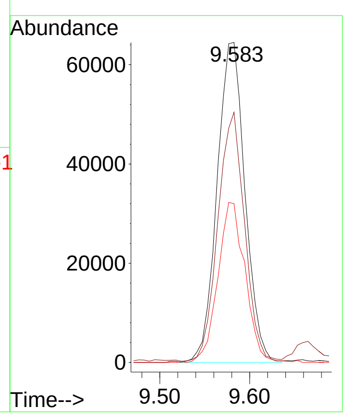




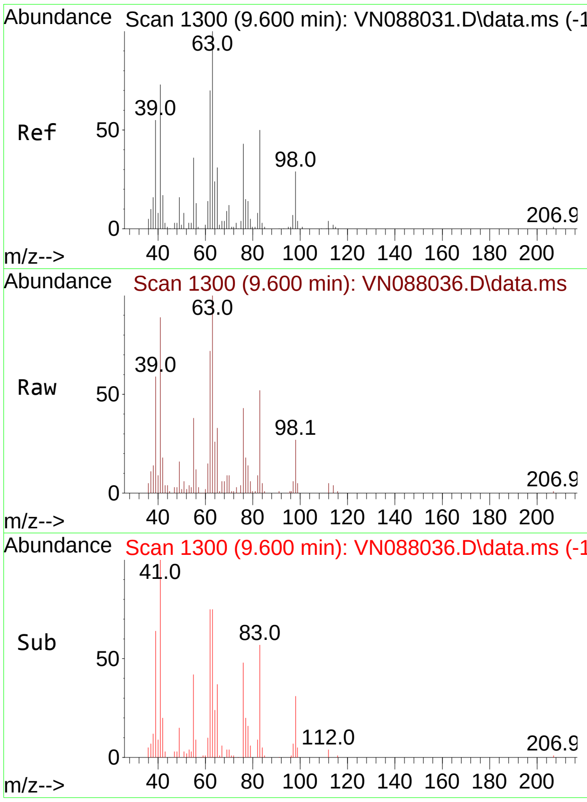
#38
Methylcyclohexane
Concen: 19.701 ug/l
RT: 9.583 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 83 Resp: 139333

Ion	Ratio	Lower	Upper
83	100		
55	74.2	37.3	111.9
98	48.6	25.4	76.0



ICAL Form



#39
1,2-Dichloropropane
Concen: 18.608 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion: 63 Resp: 8863

Ion	Ratio	Lower	Upper
63	100		
65	32.3	25.0	37.6

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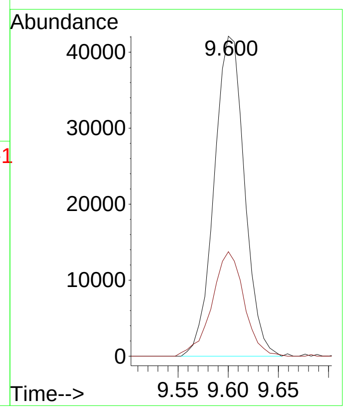
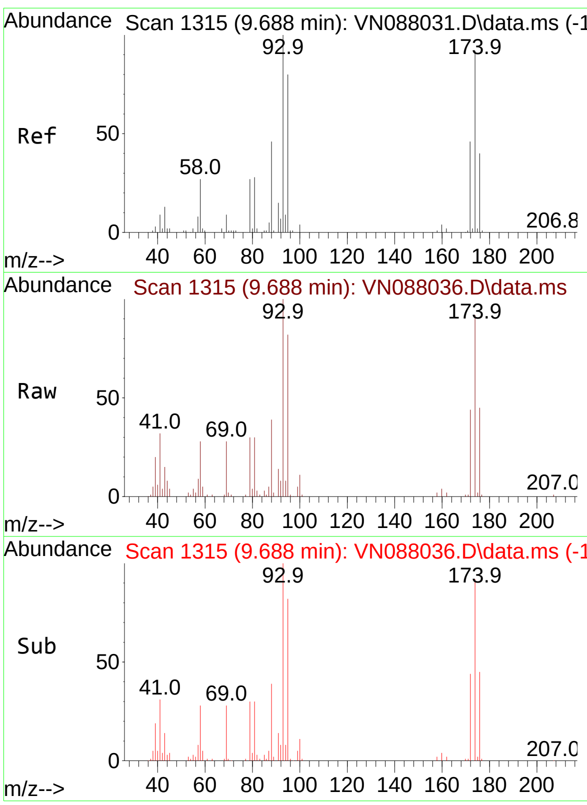
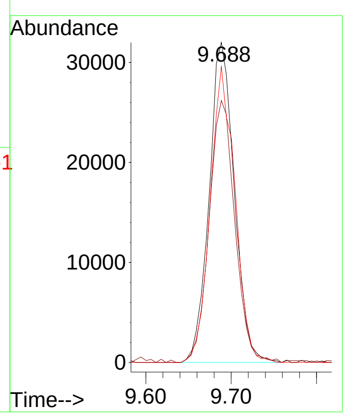


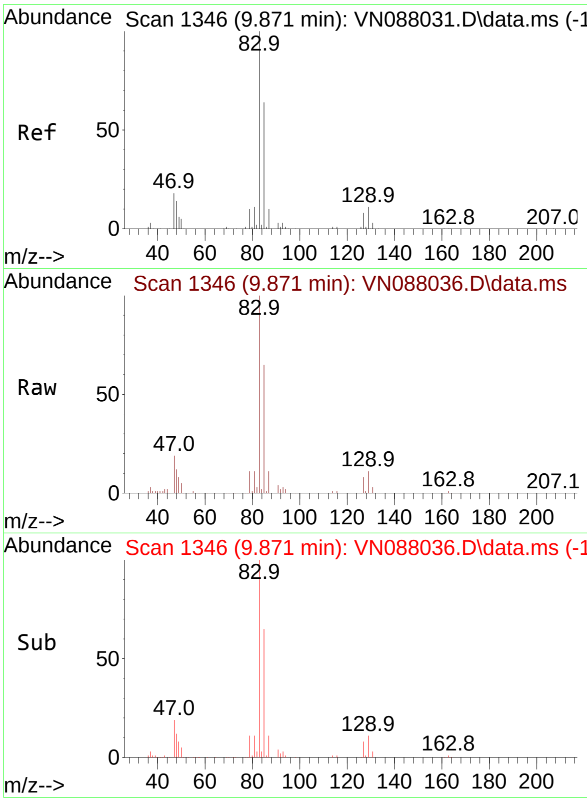


#40
Dibromomethane
Concen: 18.910 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 93 Resp: 65564

Ion	Ratio	Lower	Upper
93	100		
95	83.6	0.0	158.6
174	91.2	0.0	180.8





#41
Bromodichloromethane
Concen: 19.165 ug/l
RT: 9.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion: 83 Resp: 13570

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.0	76.4
127	8.5	6.1	9.1

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Reviewed By :John Carlone 10/09/2025
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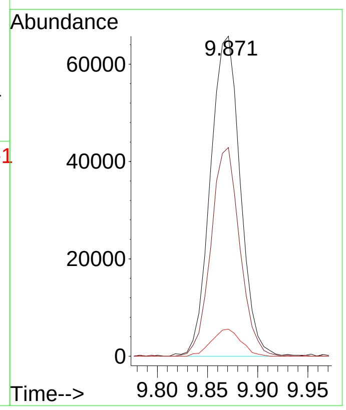
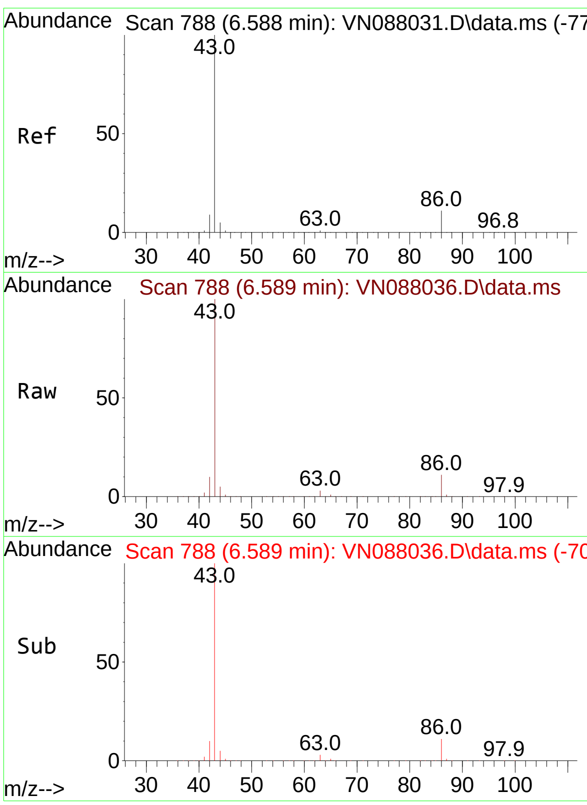
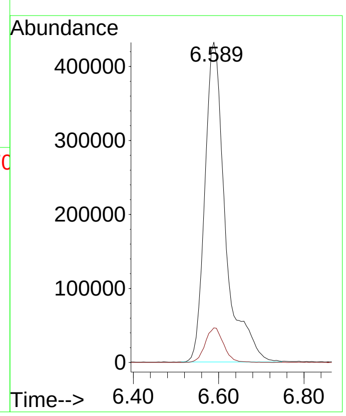




#42
Vinyl Acetate
Concen: 100.422 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 43 Resp: 1445002

Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.4	12.6



ICAL Form

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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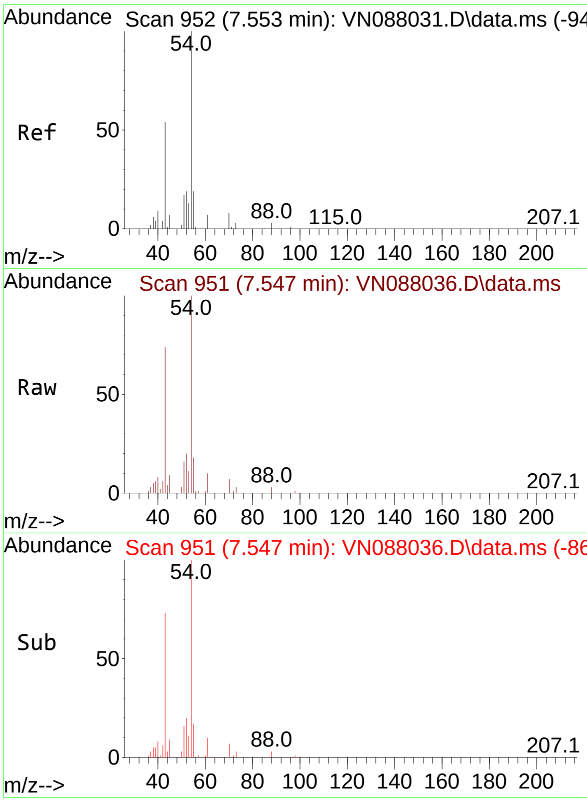
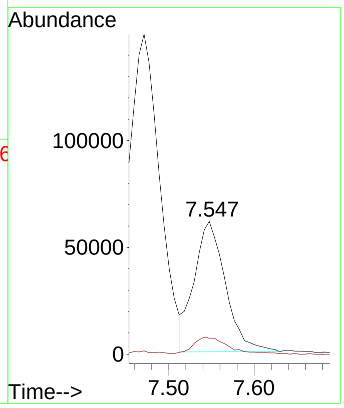
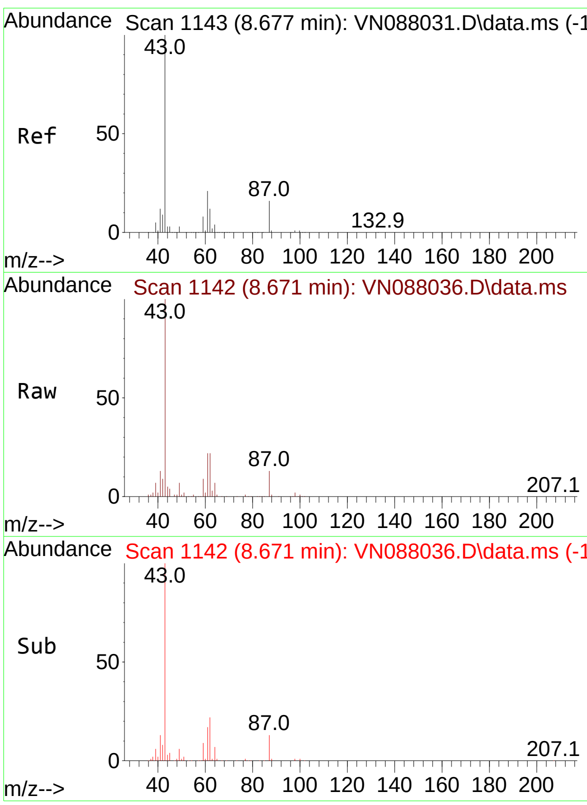
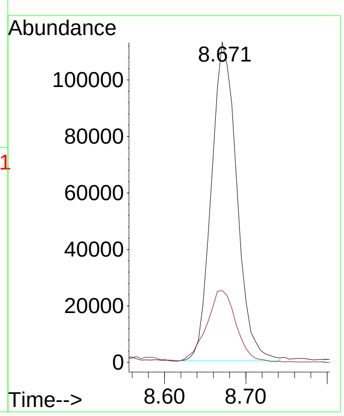


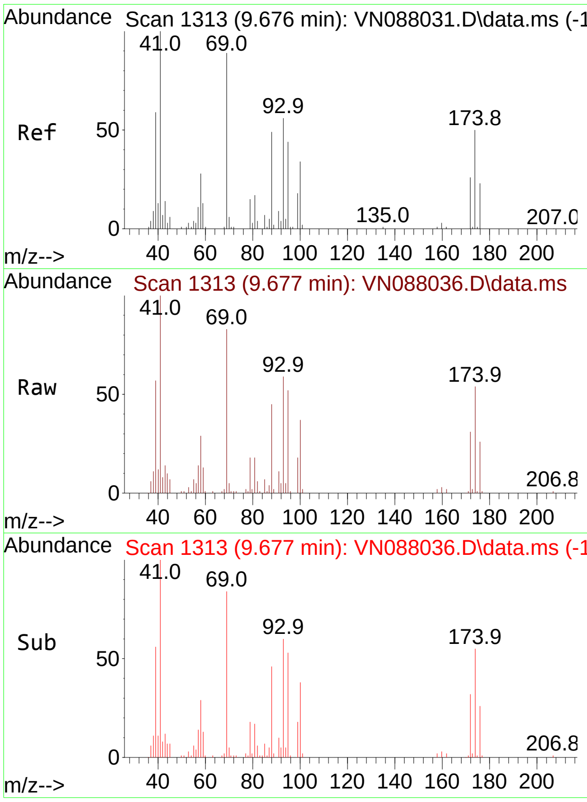

```
#43
Ethyl Acetate
Concen:   19.305 ug/l
RT:   7.547 min  Scan# 9
Delta R.T.  -0.006 min
Lab File:   VN088036.D
Acq: 08 Oct 2025  12:52

Tgt Ion: 43 Resp:  15674
Ion  Ratio  Lower  Upper
 43  100
 45   14.6   10.2   15.4
```






```
#44
Isopropyl Acetate
Concen:   18.583 ug/l
RT:   8.671 min  Scan# 1142
Delta R.T.  -0.006 min
Lab File:   VN088036.D
Acq: 08 Oct 2025  12:52

Tgt Ion: 43 Resp:  246443
Ion  Ratio  Lower  Upper
 43  100
 61   26.6   18.7   28.1
```





#45
1,4-Dioxane
Concen: 410.874 ug/l
RT: 9.677 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion: 88 Resp: 3623

Ion	Ratio	Lower	Upper
88	100		
43	18.6	18.6	27.8
58	65.0	57.4	86.2

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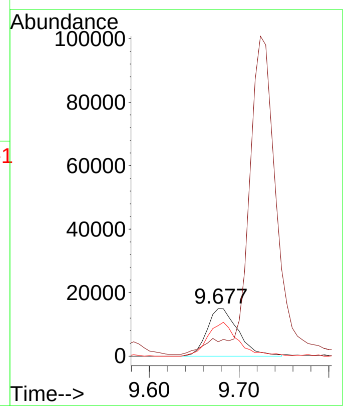
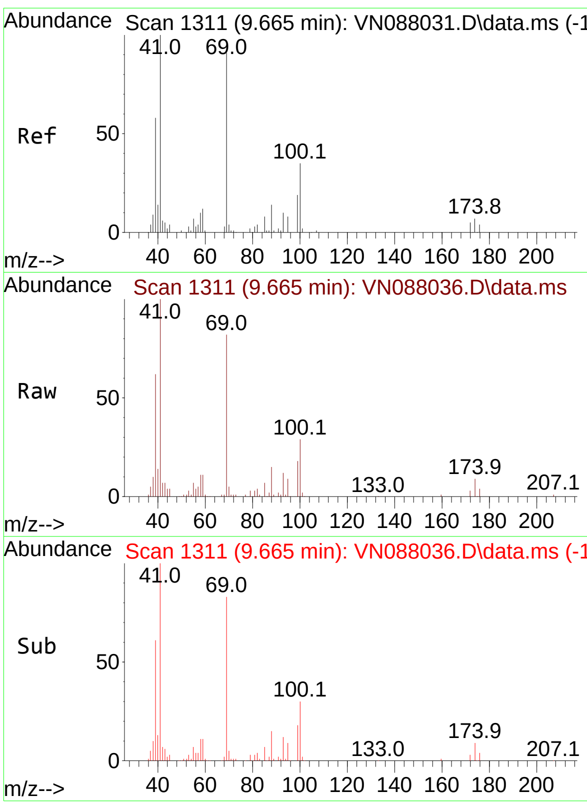
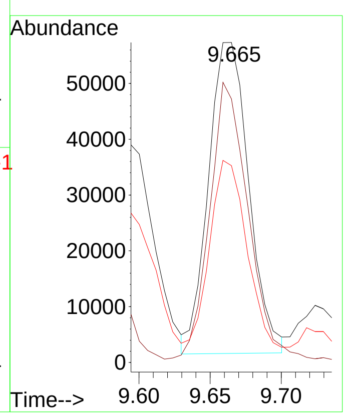


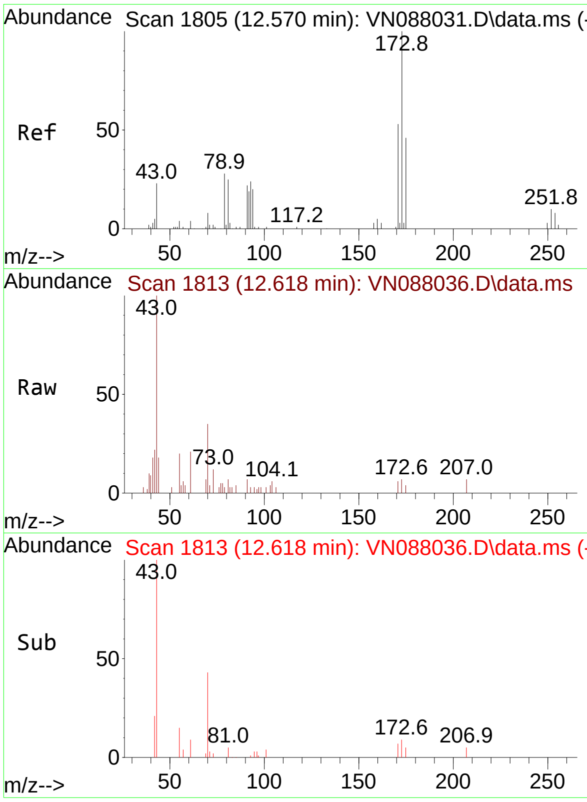


#46
Methyl methacrylate
Concen: 18.835 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 41 Resp: 109997

Ion	Ratio	Lower	Upper
41	100		
69	87.0	44.9	134.7
39	61.7	30.3	90.8





#47
n-amyl Acetate
Concen: 20.438 ug/l m
RT: 12.618 min Scan# 1
Delta R.T. 0.047 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion: 43 Resp: 12846
Ion Ratio Lower Upper
43 100
55 0.5 0.6 0.8

Manual Integrations APPROVED
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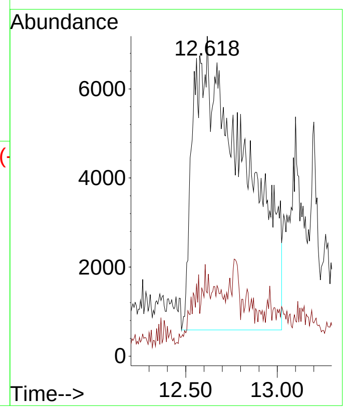
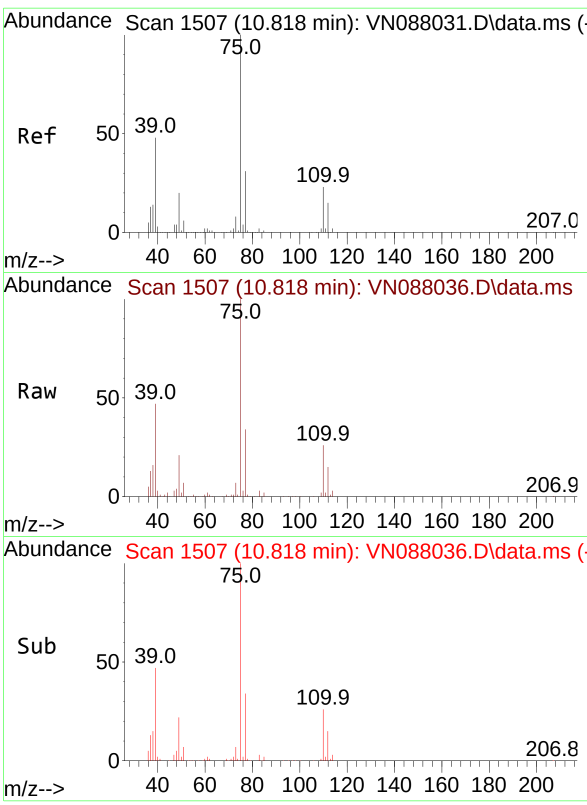
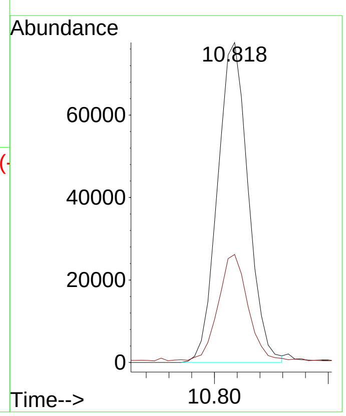
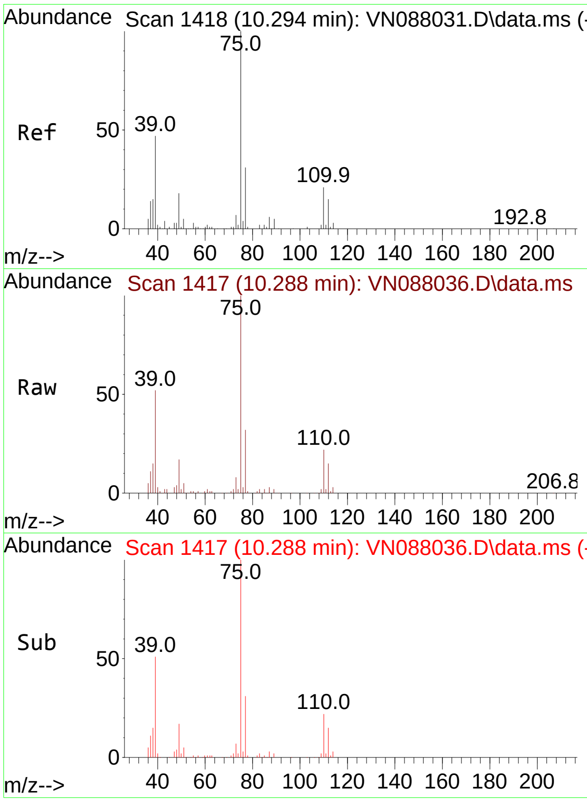




#48
t-1,3-Dichloropropene
Concen: 18.462 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 75 Resp: 145368
Ion Ratio Lower Upper
75 100
77 32.9 24.5 36.7





#49
cis-1,3-Dichloropropene
Concen: 18.663 ug/l
RT: 10.288 min   Scan# 14
Delta R.T.   -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025   12:52

Tgt Ion: 75 Resp: 15329

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.4
39	51.8	37.4	56.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations
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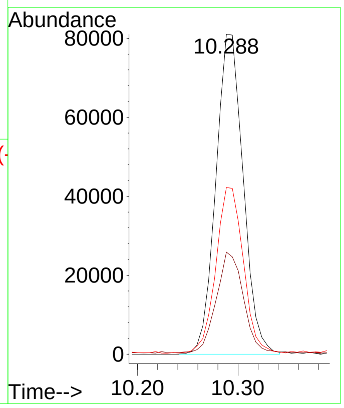
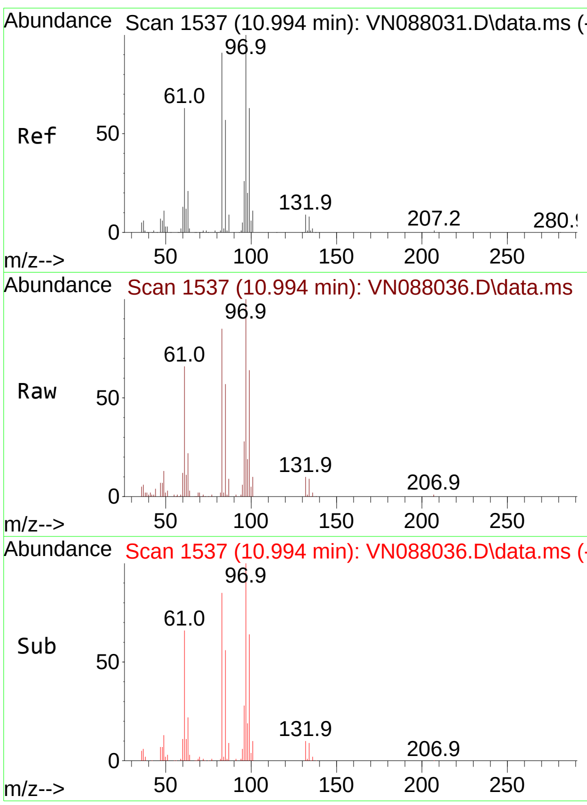
Reviewed By :John Carlone   10/09/2025
Supervised By :Mahesh Dadoda   10/10/2025

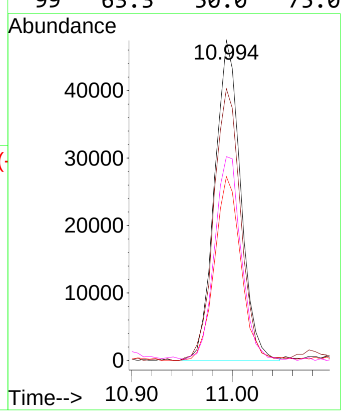


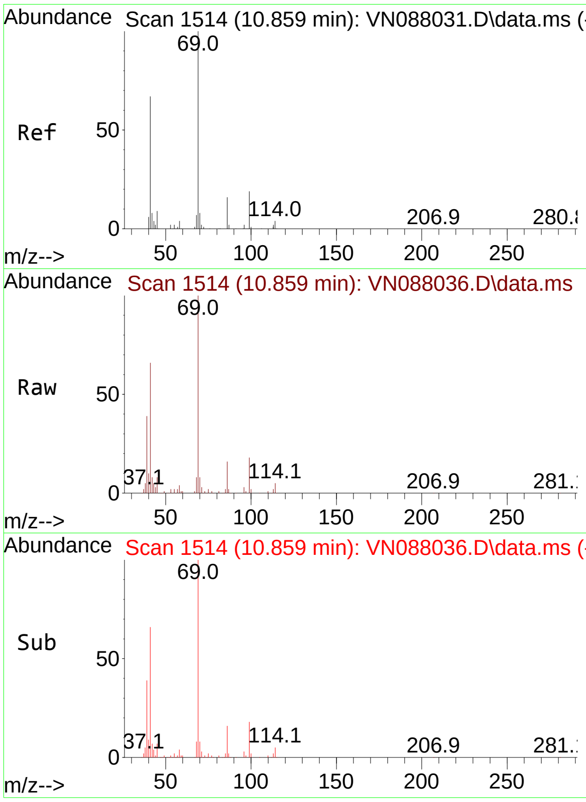


#50
1,1,2-Trichloroethane
Concen: 18.672 ug/l
RT: 10.994 min   Scan# 1537
Delta R.T.   0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025   12:52

Tgt Ion: 97 Resp: 85732

Ion	Ratio	Lower	Upper
97	100		
83	84.9	72.5	108.7
85	57.4	45.5	68.3
99	63.3	50.0	75.0





#51
Ethyl methacrylate
Concen: 18.832 ug/l
RT: 10.859 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations
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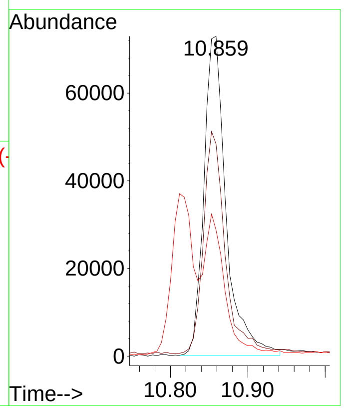
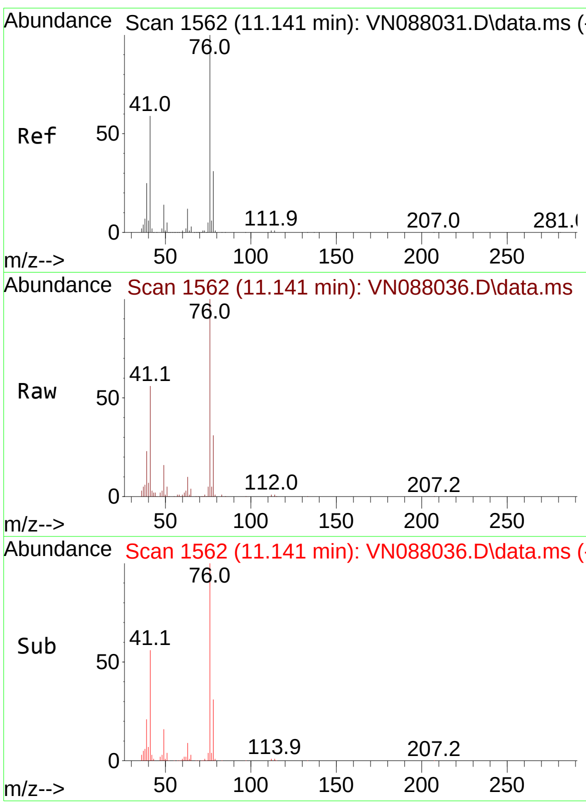
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

Tgt Ion: 69 Resp: 14633

Ion	Ratio	Lower	Upper
69	100		
41	65.6	33.3	99.8
39	37.8	20.3	61.0

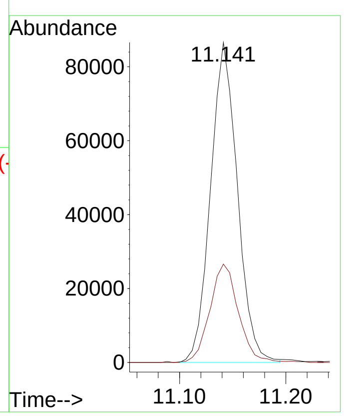




#52
1,3-Dichloropropane
Concen: 18.977 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 76 Resp: 152014

Ion	Ratio	Lower	Upper
76	100		
78	32.6	0.0	65.0



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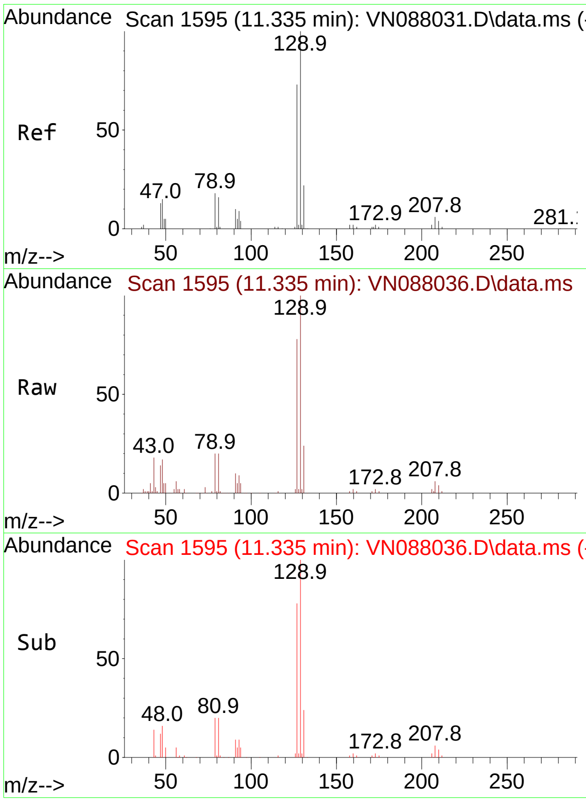
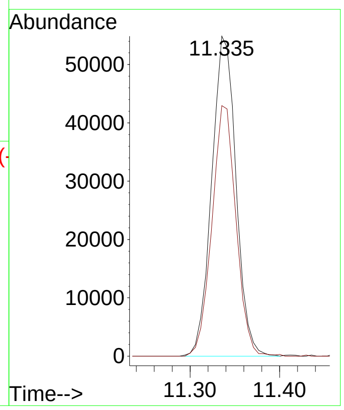


#53
Dibromochloromethane
Concen: 18.861 ug/l
RT: 11.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:129 Resp: 10353

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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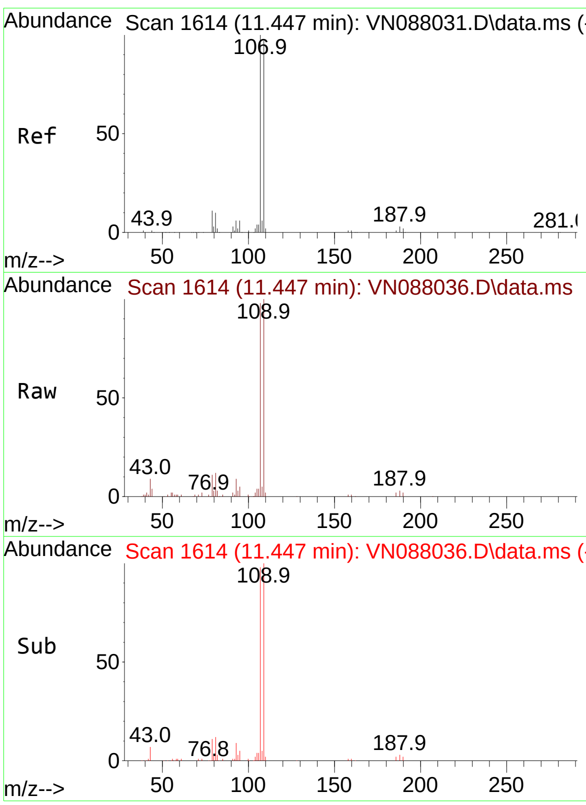
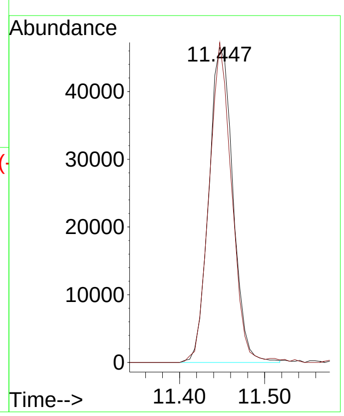
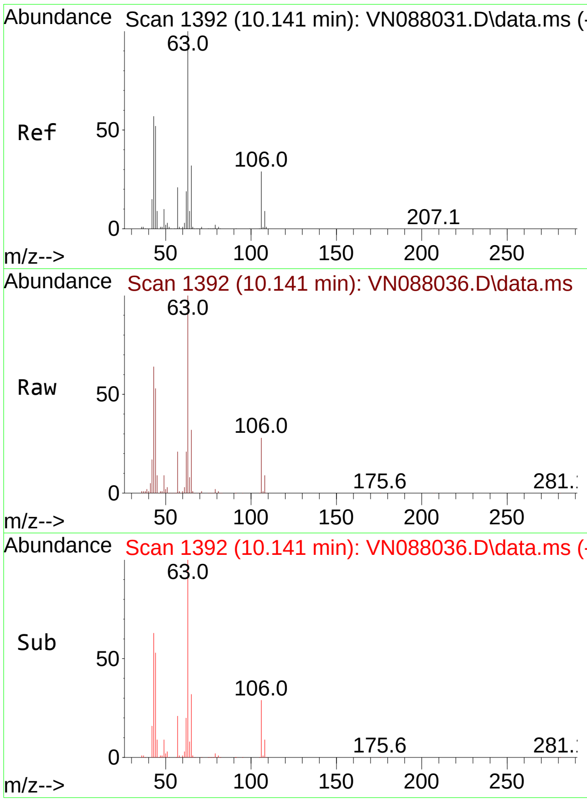


#54
1,2-Dibromoethane
Concen: 18.734 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:107 Resp: 91960

Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.5	113.3





#55
2-Chloroethyl vinyl ether
Concen: 99.302 ug/l
RT: 10.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 63 Resp: 41650

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.7	38.5
106	28.4	22.6	34.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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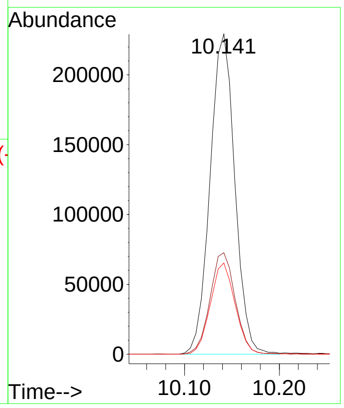
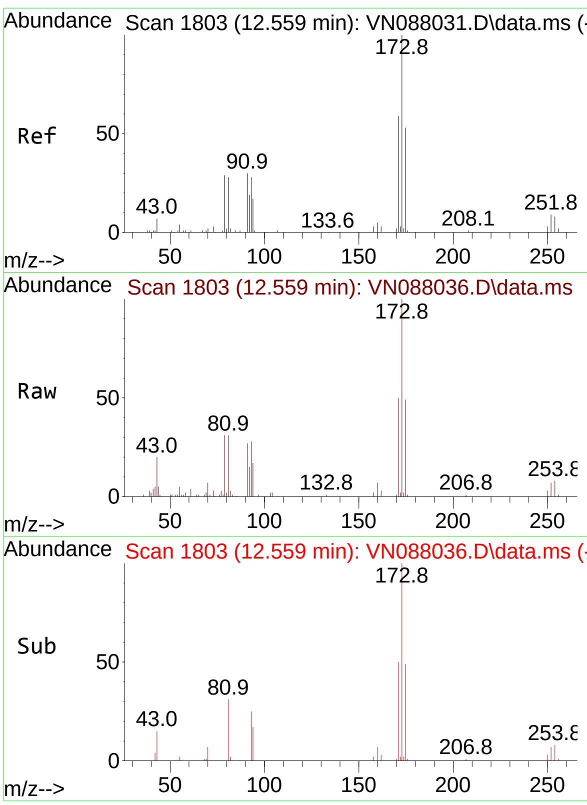
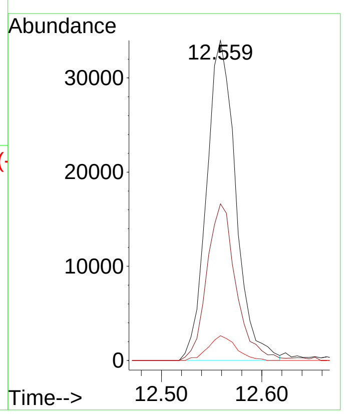


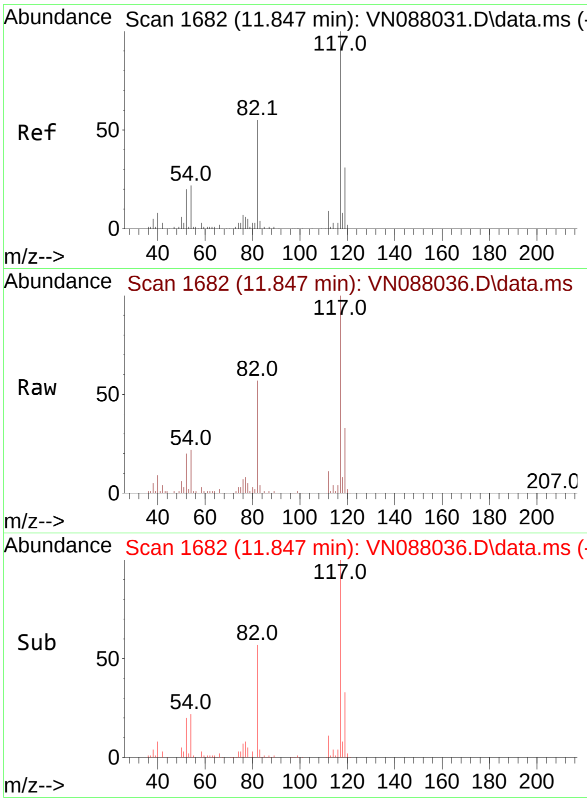


#56
Bromoform
Concen: 18.560 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:173 Resp: 68875

Ion	Ratio	Lower	Upper
173	100		
175	48.6	39.6	59.4
254	7.4	6.6	10.0





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 16
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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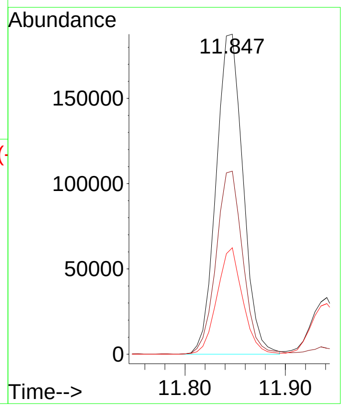
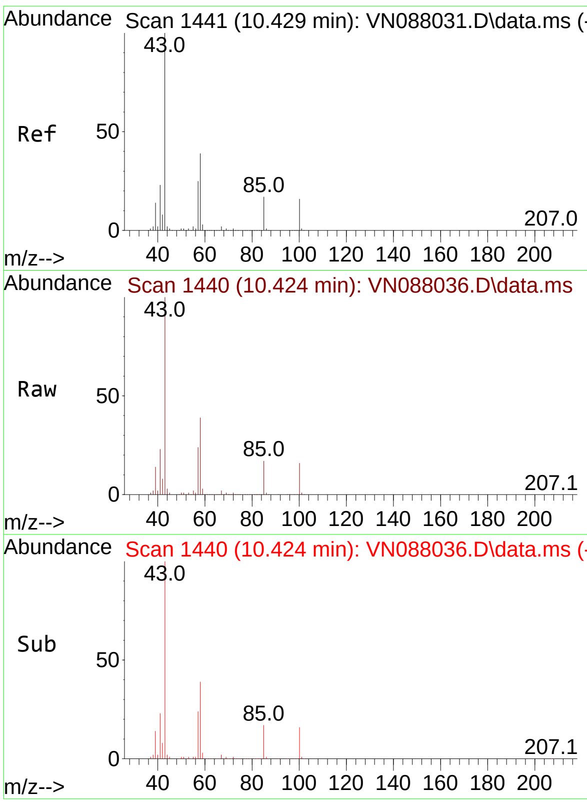
Supervised By :Mahesh Dadoda 10/10/2025

Tgt Ion:117 Resp: 349709

Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.2	67.8
119	31.7	25.9	38.9

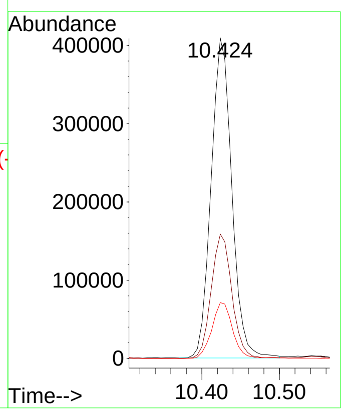


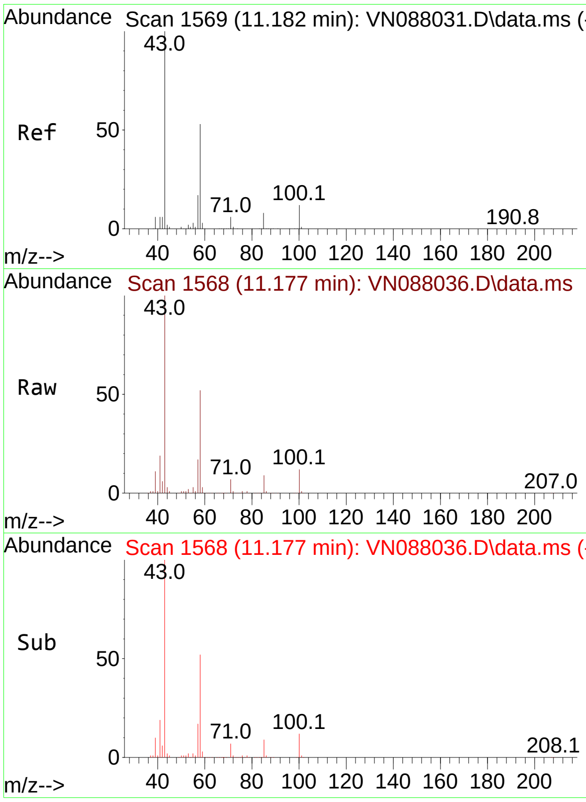


#58
4-Methyl-2-Pentanone
Concen: 96.964 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 43 Resp: 758466

Ion	Ratio	Lower	Upper
43	100		
58	38.7	31.2	46.8
85	17.5	13.7	20.5





#59
2-Hexanone
Concen: 93.537 ug/l
RT: 11.177 min   Scan# 1
Delta R.T.   -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025   12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion: 43 Resp: 48306

Ion	Ratio	Lower	Upper
43	100		
58	52.9	43.1	64.7
57	17.9	14.6	21.8

Manual Integrations
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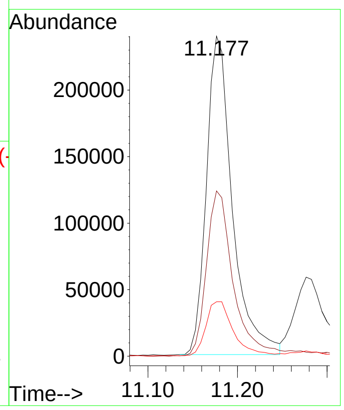
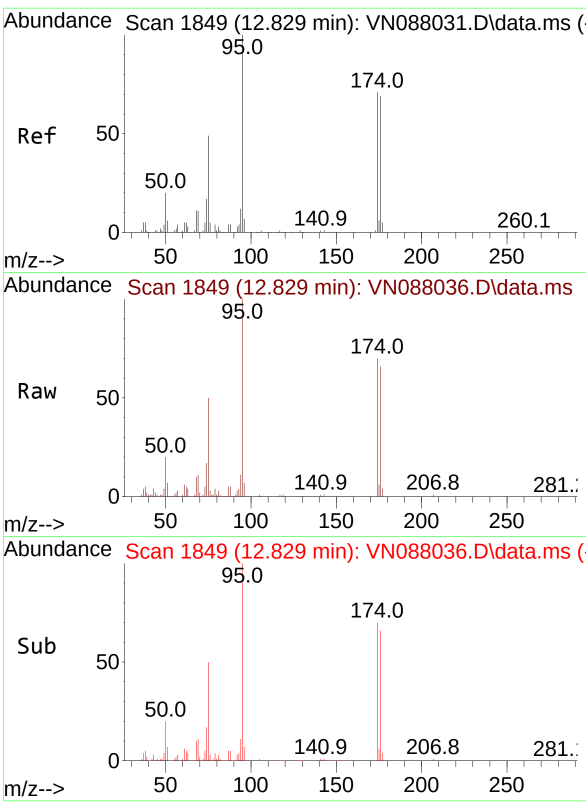
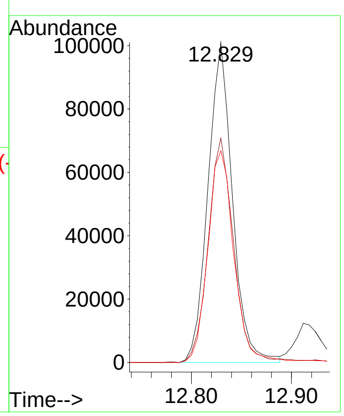


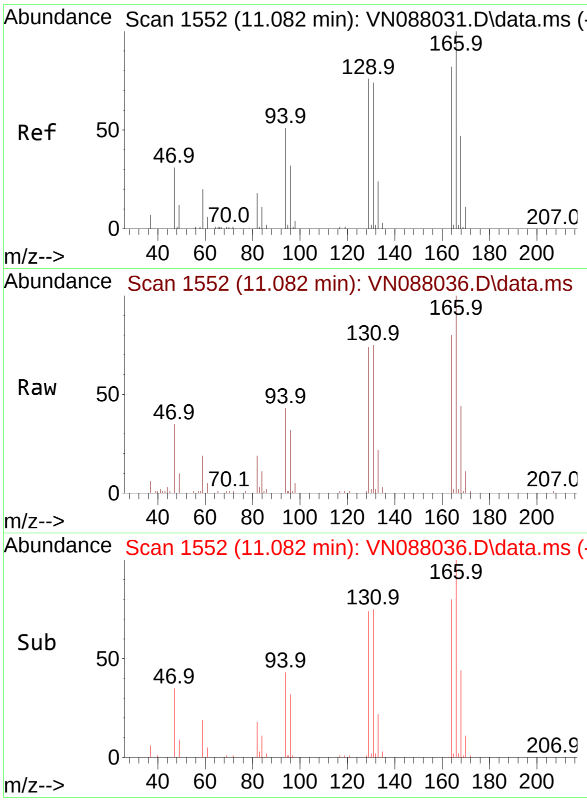


#60
4-Bromofluorobenzene
Concen: 29.914 ug/l
RT: 12.829 min   Scan# 1849
Delta R.T.   0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025   12:52

Tgt Ion: 95 Resp: 172458

Ion	Ratio	Lower	Upper
95	100		
174	71.6	57.4	86.0
176	70.1	57.0	85.4





#61
Tetrachloroethene
Concen: 20.058 ug/l
RT: 11.082 min Scan# 1!
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion:164 Resp: 7103

Ion	Ratio	Lower	Upper
164	100		
166	125.2	97.2	145.8
129	92.7	73.7	110.5
131	93.7	71.5	107.3

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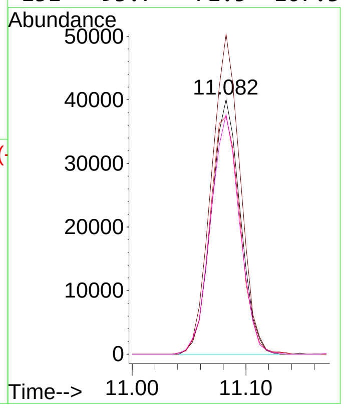
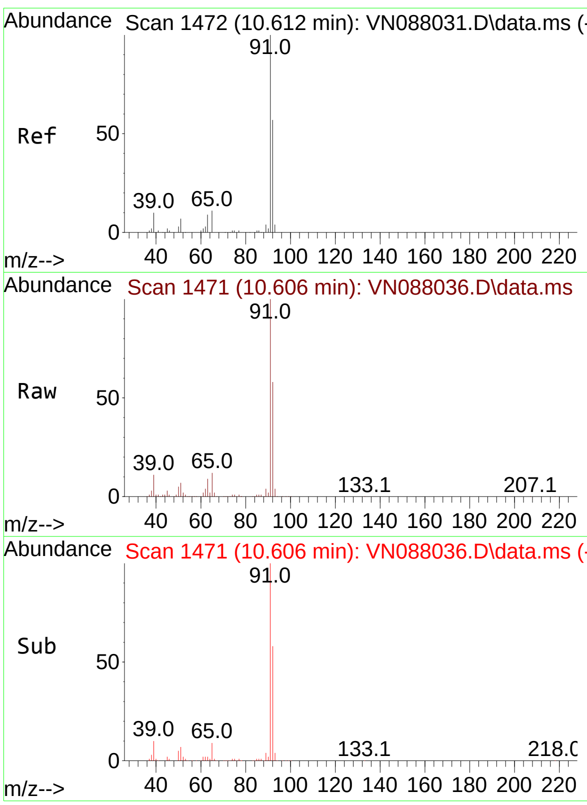
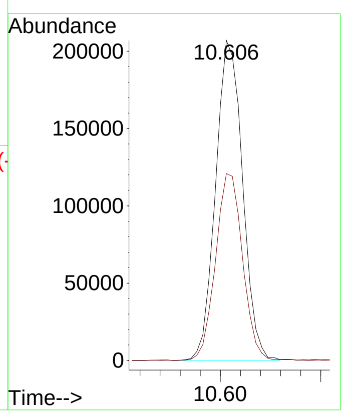


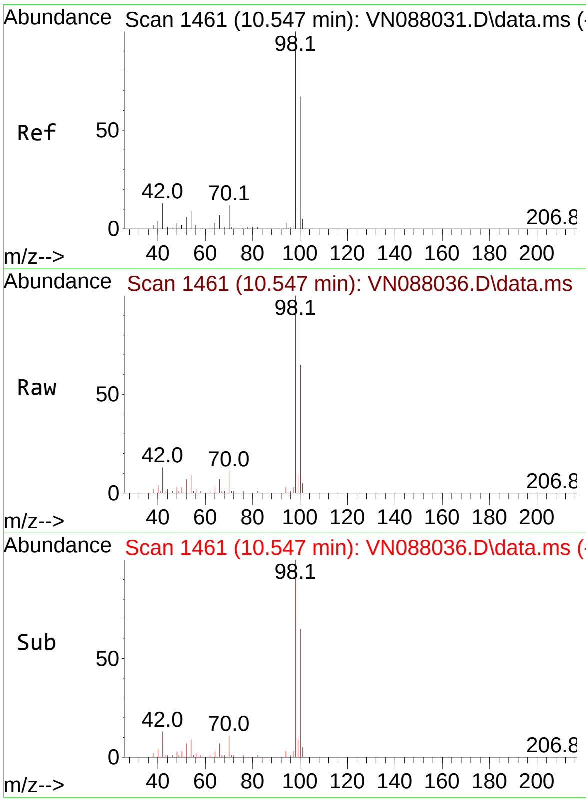


#62
Toluene
Concen: 19.478 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 91 Resp: 386375

Ion	Ratio	Lower	Upper
91	100		
92	58.4	45.8	68.8





#63
Toluene-d8
Concen: 30.075 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 98 Resp: 46860

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.1	79.7

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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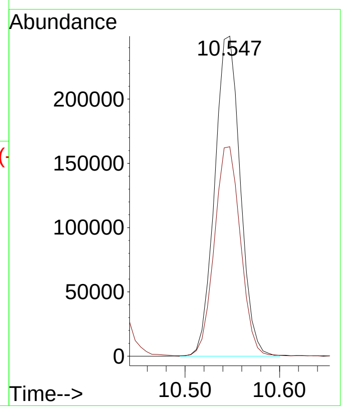
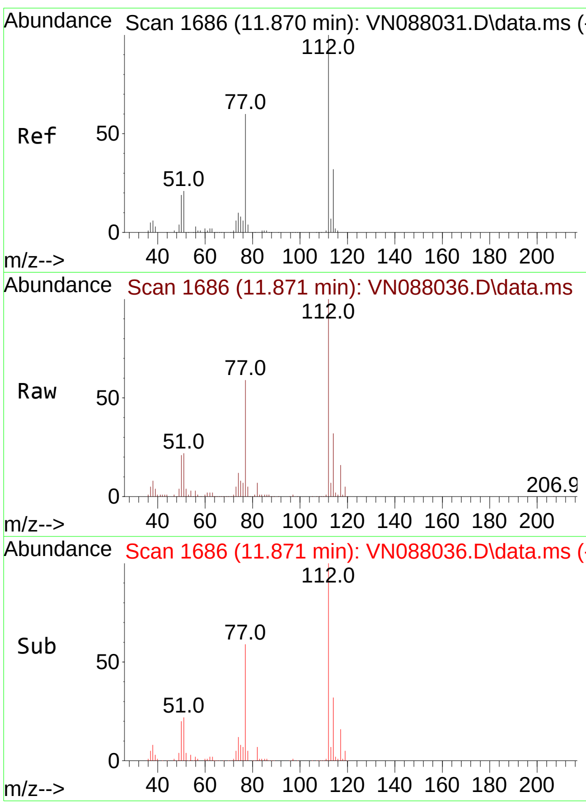
Supervised By :Mahesh Dadoda 10/10/2025

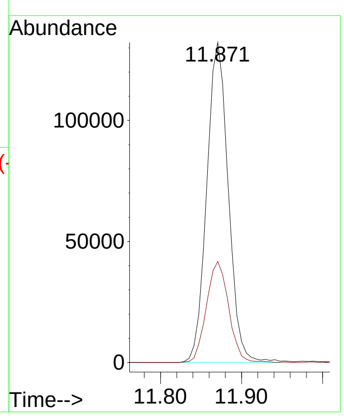




#64
Chlorobenzene
Concen: 19.301 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:112 Resp: 244551

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.7	38.5



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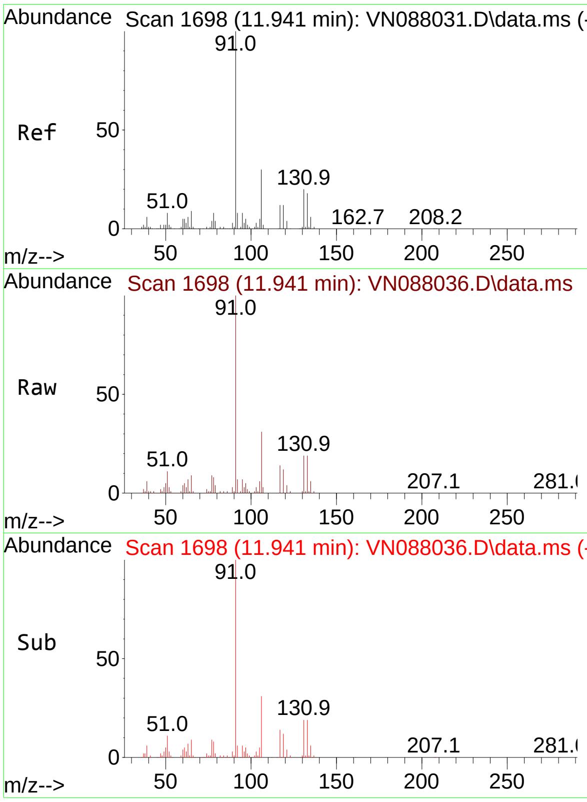

#65
1,1,1,2-Tetrachloroethane
Concen: 19.526 ug/l
RT: 11.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion:131 Resp: 8526

Ion	Ratio	Lower	Upper
131	100		
133	96.2	0.0	183.8
119	67.4	0.0	132.0

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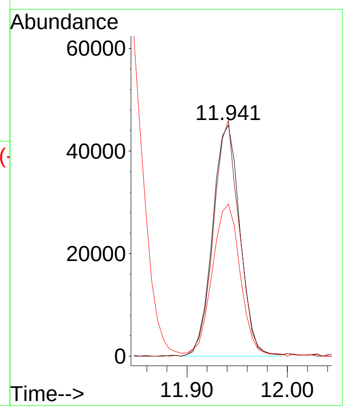
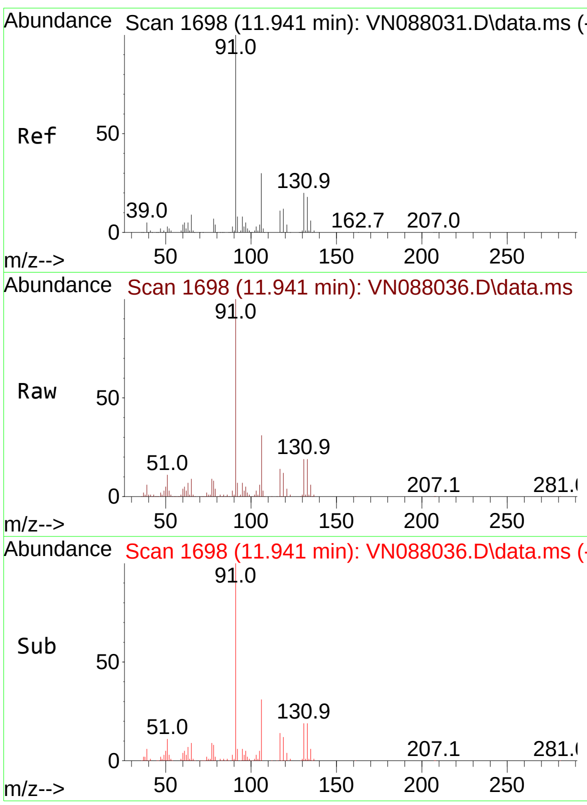
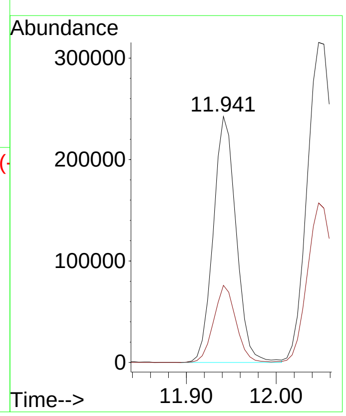




#66
Ethyl Benzene
Concen: 19.892 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 91 Resp: 429071

Ion	Ratio	Lower	Upper
91	100		
106	31.4	24.0	36.0



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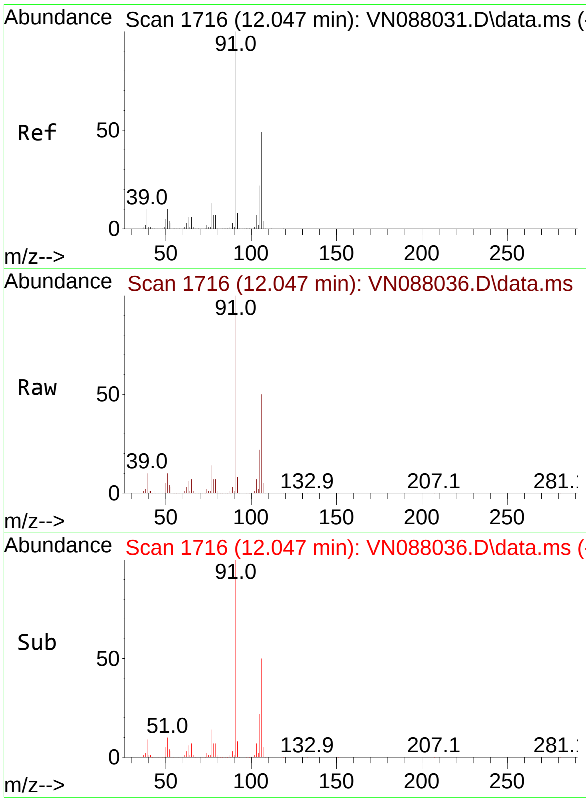

#67
m/p-Xylenes
Concen: 38.967 ug/l
RT: 12.047 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:106 Resp: 32402

Ion	Ratio	Lower	Upper
106	100		
91	202.5	161.4	242.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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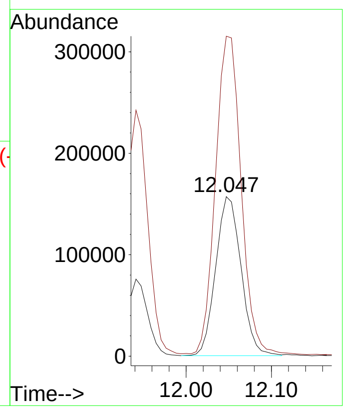
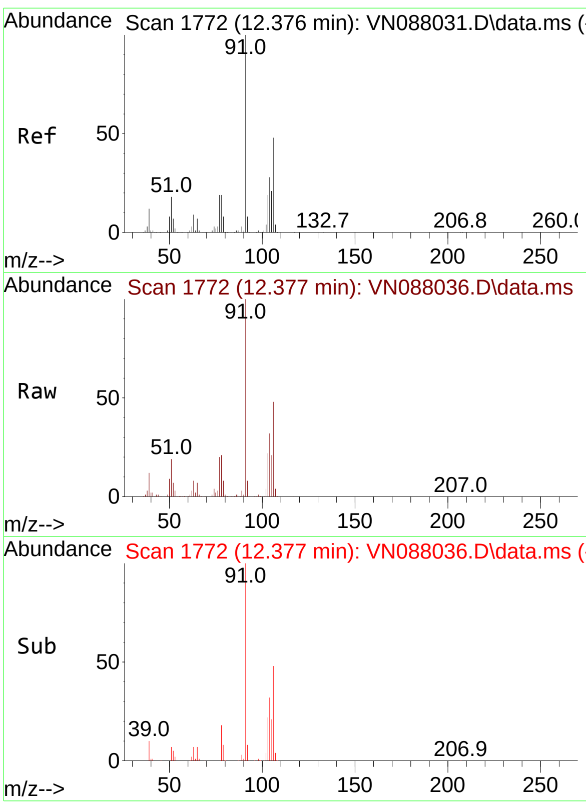
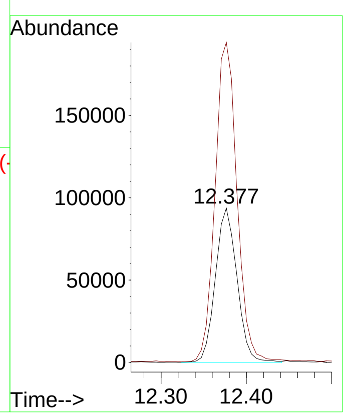


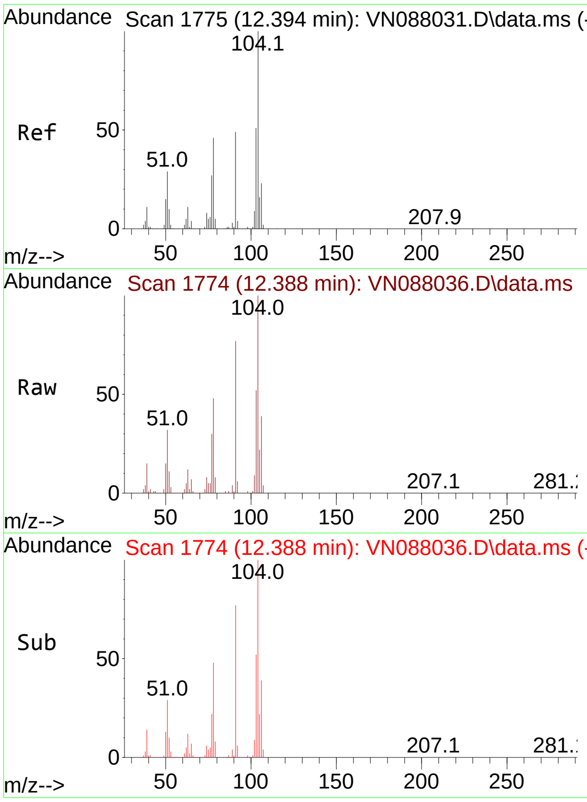


#68
o-Xylene
Concen: 19.959 ug/l
RT: 12.377 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:106 Resp: 165214

Ion	Ratio	Lower	Upper
106	100		
91	208.7	105.2	315.6





#69
Styrene
Concen: 19.412 ug/l
RT: 12.388 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion:104 Resp: 26581

Ion	Ratio	Lower	Upper
104	100		
78	50.0	41.8	62.6
103	54.7	44.9	67.3

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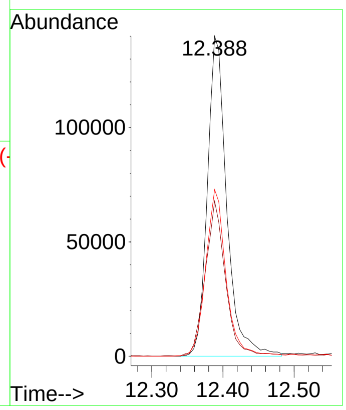
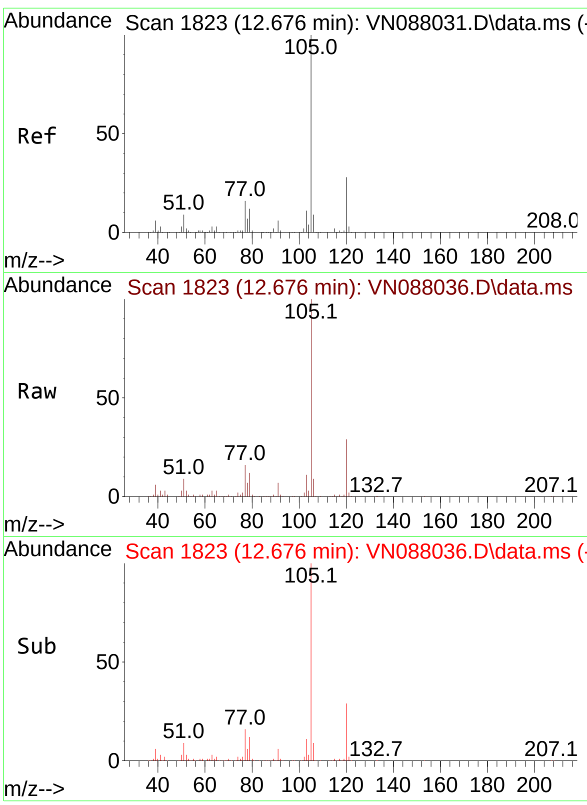
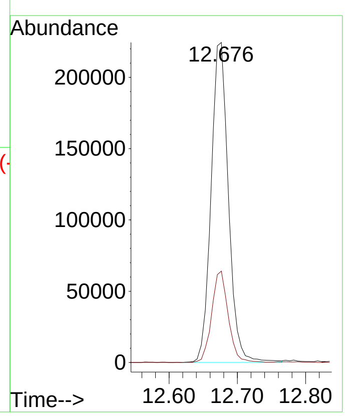


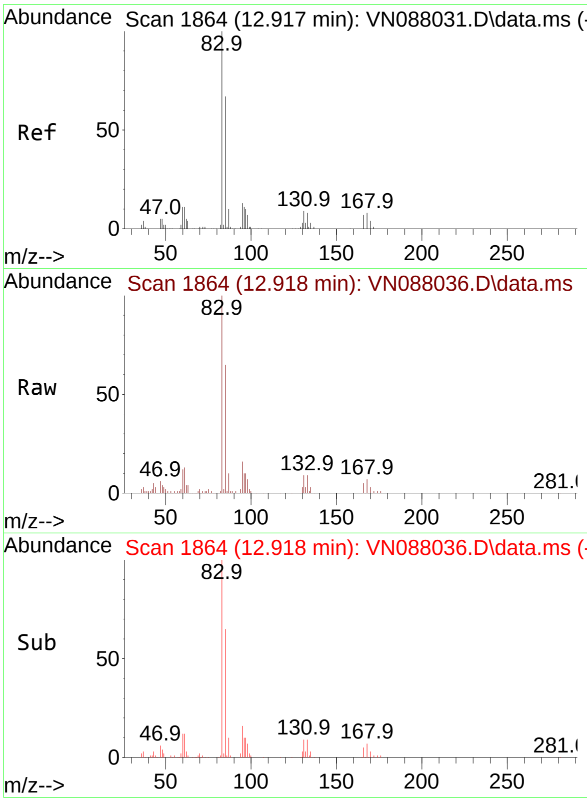


#70
Isopropylbenzene
Concen: 19.630 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:105 Resp: 398248

Ion	Ratio	Lower	Upper
105	100		
120	27.2	19.1	35.5





#71
1,1,2,2-Tetrachloroethane
Concen: 19.080 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 83 Resp: 131239

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.3
85	64.4	32.4	97.2

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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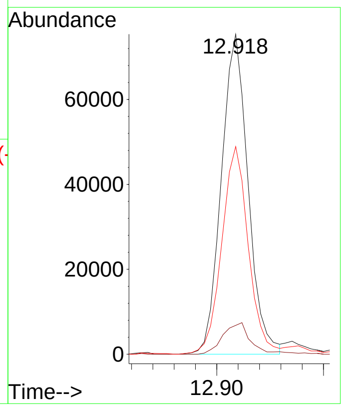
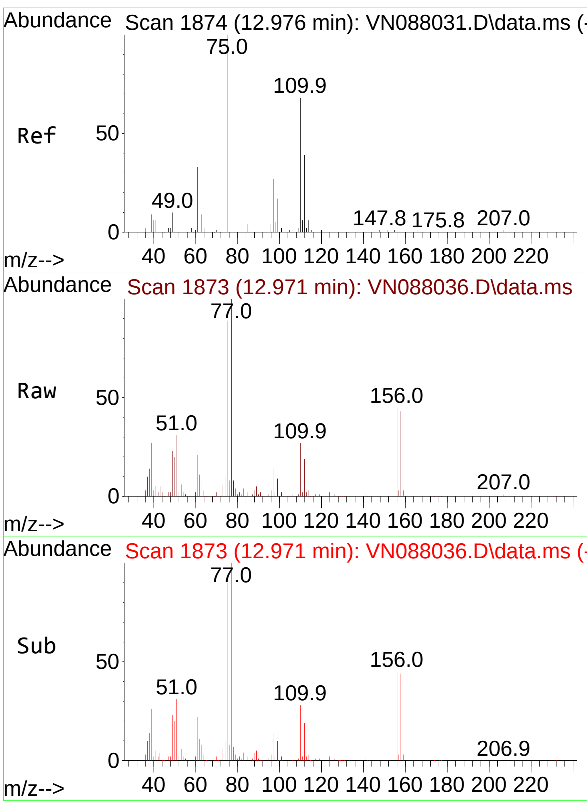
Supervised By :Mahesh Dadoda 10/10/2025

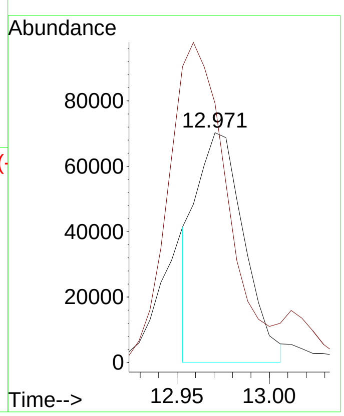




#72
1,2,3-Trichloropropane
Concen: 20.021 ug/l m
RT: 12.971 min Scan# 1873
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 75 Resp: 127895

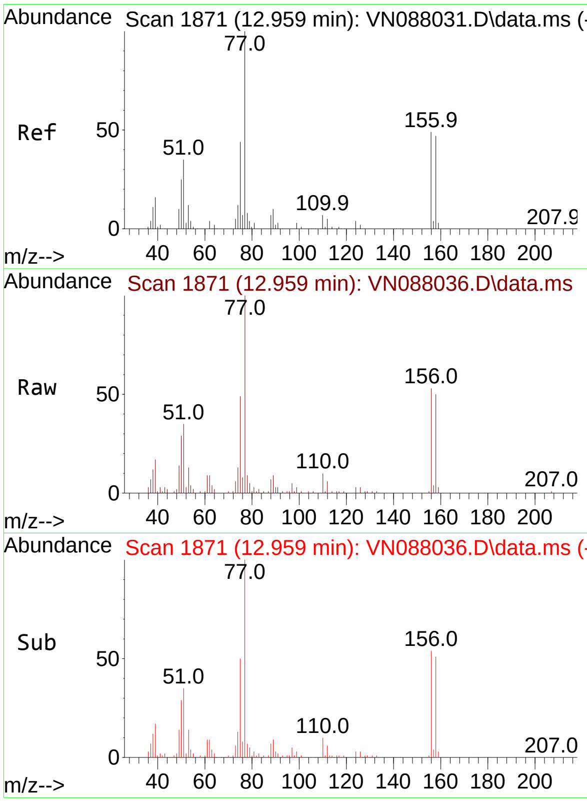
Ion	Ratio	Lower	Upper
75	100		
77	166.5	0.0	364.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations APPROVED

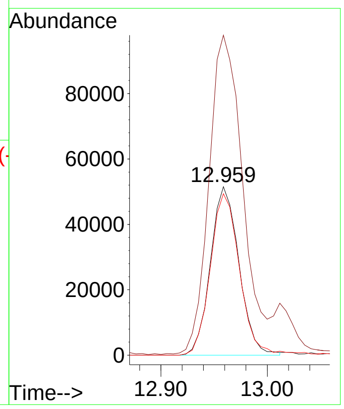
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

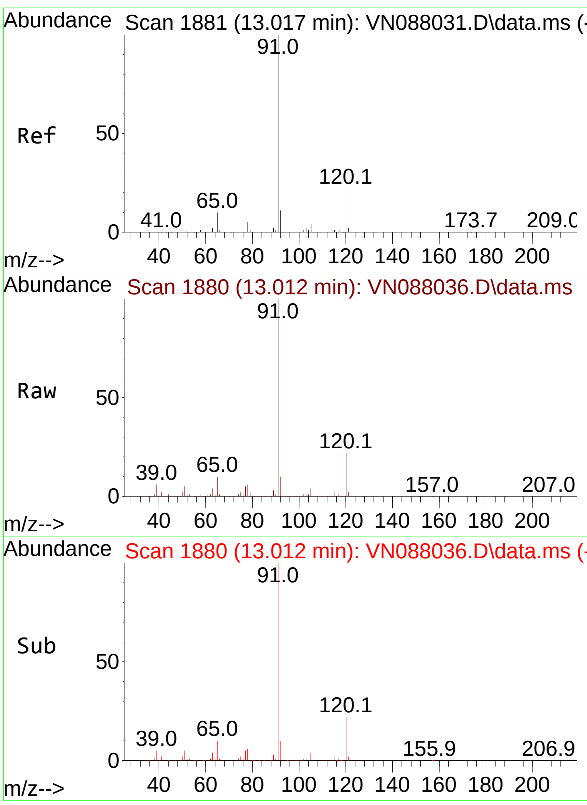


#73
Bromobenzene
Concen: 19.358 ug/l
RT: 12.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:156 Resp: 9599

Ion	Ratio	Lower	Upper
156	100		
77	221.8	0.0	439.8
158	97.1	0.0	190.0

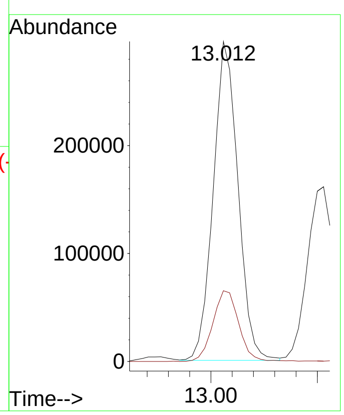




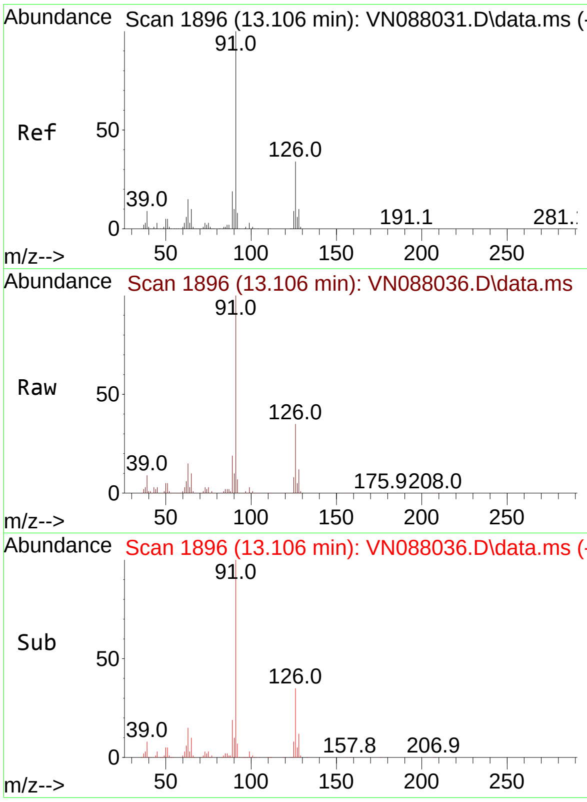
#74
n-propylbenzene
Concen: 19.511 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 91 Resp: 477849

Ion	Ratio	Lower	Upper
91	100		
120	23.0	0.0	46.2



ICAL Form



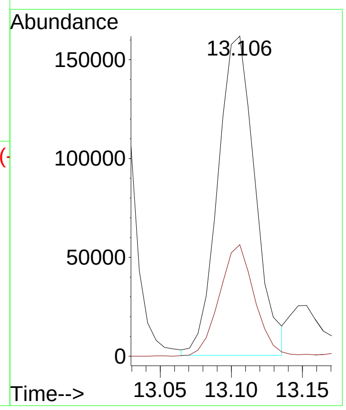
#75
2-Chlorotoluene
Concen: 19.590 ug/l
RT: 13.106 min Scan# 1896
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

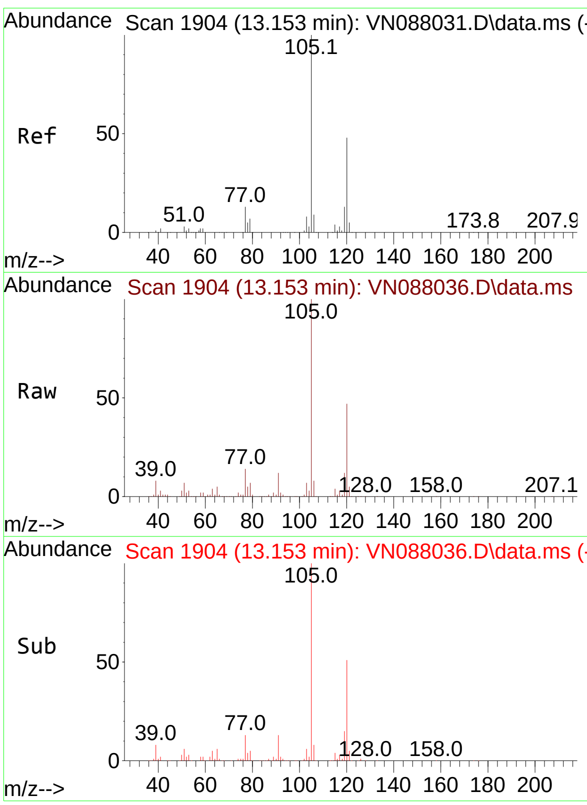
Tgt Ion: 91 Resp: 293367
Ion Ratio Lower Upper
91 100
126 32.9 0.0 66.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations APPROVED

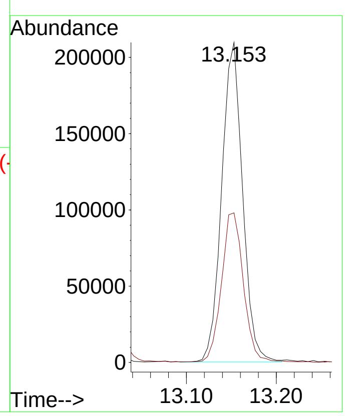
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



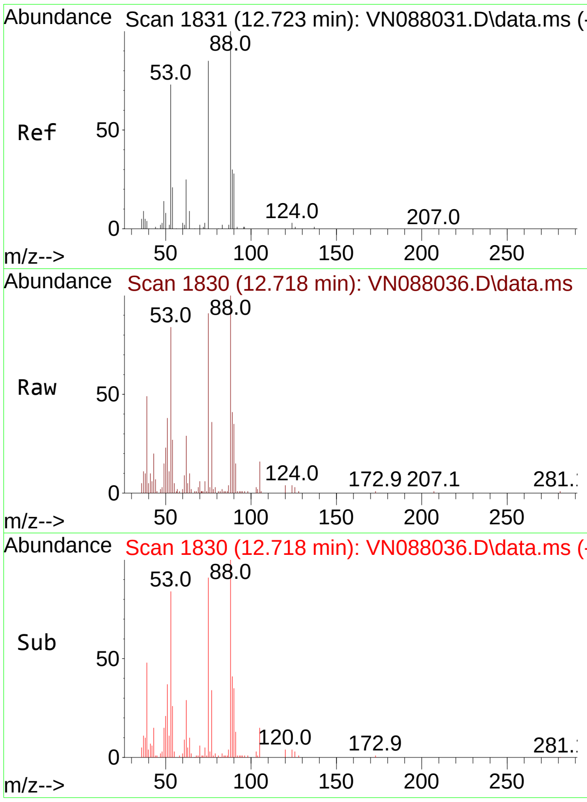


#76
1,3,5-Trimethylbenzene
Concen: 19.632 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:105 Resp: 338338
Ion Ratio Lower Upper
105 100
120 49.4 0.0 100.6



ICAL Form



#77
t-1,4-Dichloro-2-butene
Concen: 17.725 ug/l
RT: 12.718 min Scan# 18
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

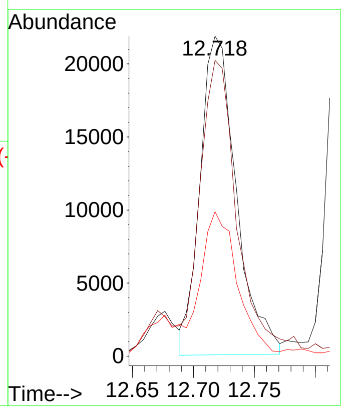
Tgt Ion: 75 Resp: 4512

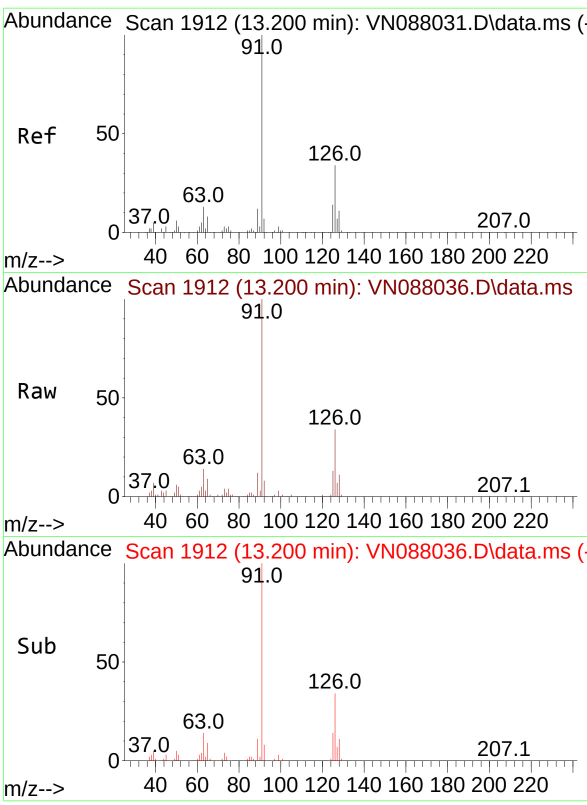
Ion	Ratio	Lower	Upper
75	100		
53	90.6	41.8	125.3
89	45.4	19.9	59.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

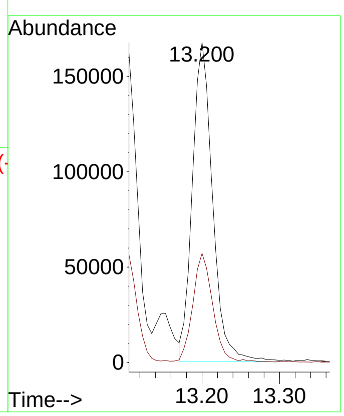


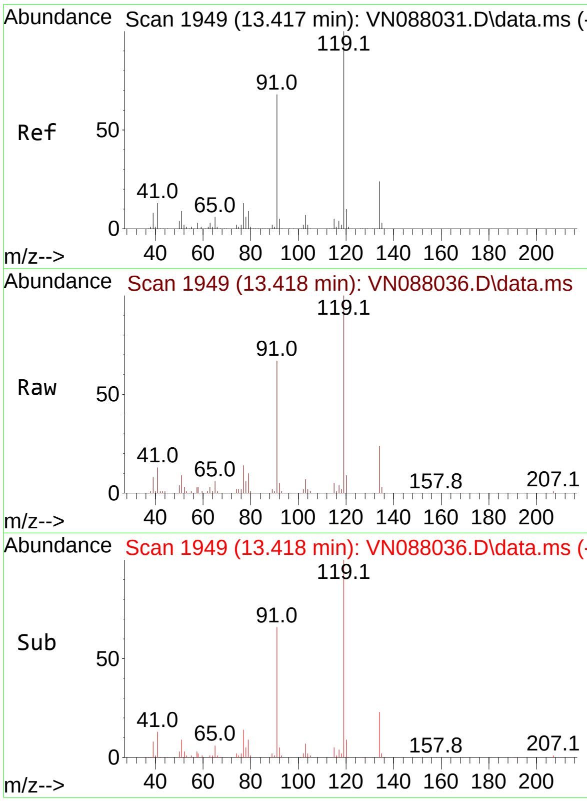


#78
4-Chlorotoluene
Concen: 20.011 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 91 Resp: 304451

Ion	Ratio	Lower	Upper
91	100		
126	32.2	0.0	68.8





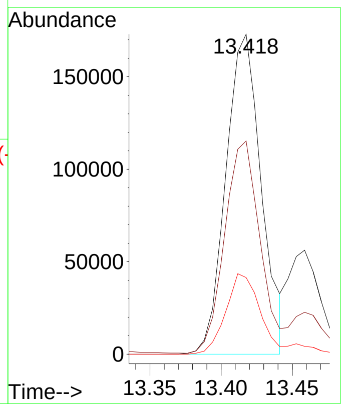
#79
tert-butylbenzene
Concen: 20.095 ug/l
RT: 13.418 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

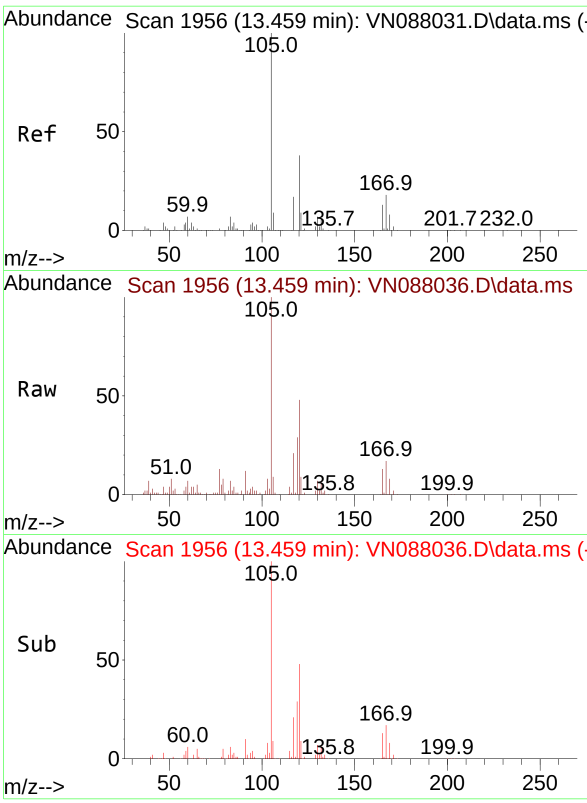
Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Tgt Ion:119 Resp: 30021

Ion	Ratio	Lower	Upper
119	100		
91	65.5	0.0	132.4
134	24.0	0.0	48.6

Manual Integrations APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

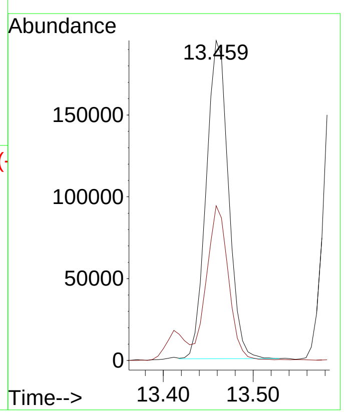




#80
1,2,4-Trimethylbenzene
Concen: 19.362 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:105 Resp: 334037

Ion	Ratio	Lower	Upper
105	100		
120	47.3	0.0	93.8



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Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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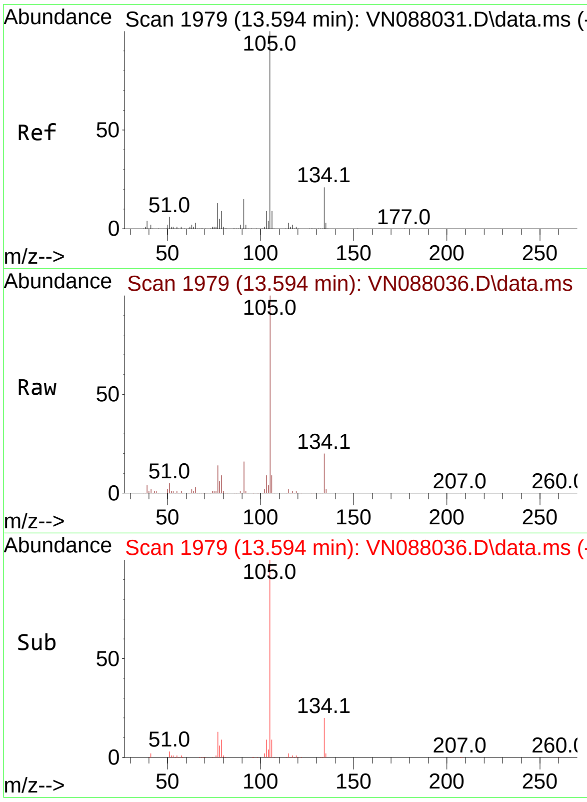
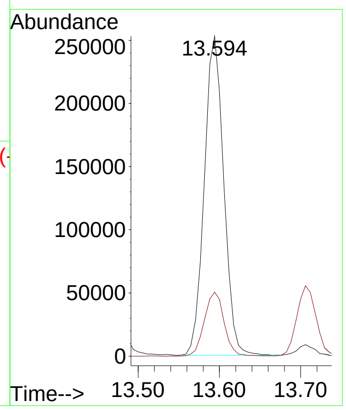
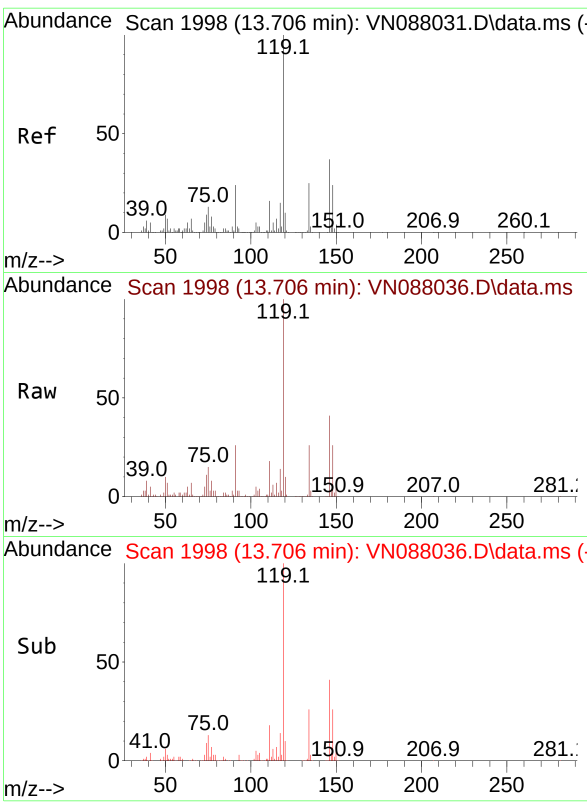


#81
sec-Butylbenzene
Concen: 20.024 ug/l
RT: 13.594 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:105 Resp: 42060

Ion	Ratio	Lower	Upper
105	100		
134	20.3	0.0	41.2

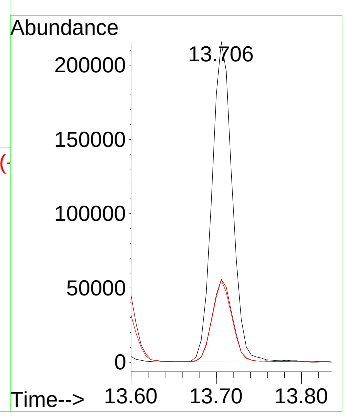




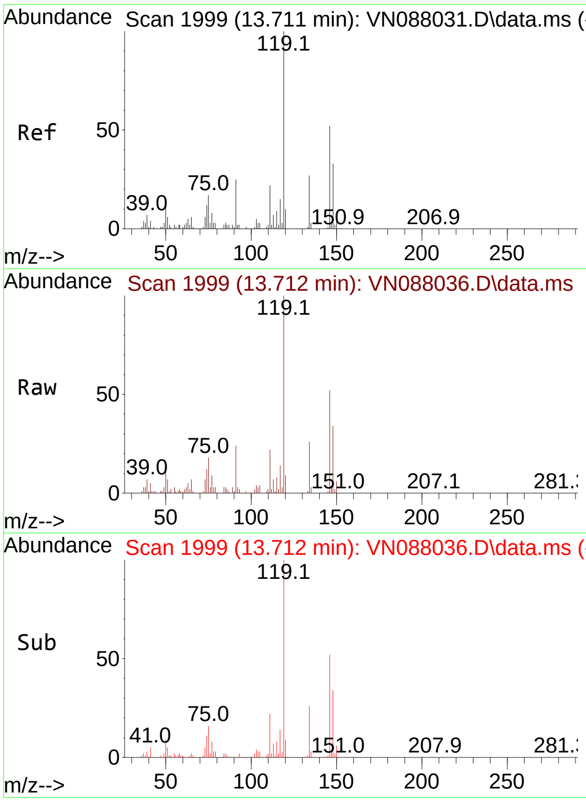
#82
p-Isopropyltoluene
Concen: 19.946 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:119 Resp: 357698

Ion	Ratio	Lower	Upper
119	100		
134	25.8	0.0	52.6
91	24.4	0.0	48.2



ICAL Form



#83
1,3-Dichlorobenzene
Concen: 19.575 ug/l
RT: 13.712 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:146 Resp: 18263

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.1	63.1
148	64.1	31.5	94.5

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations
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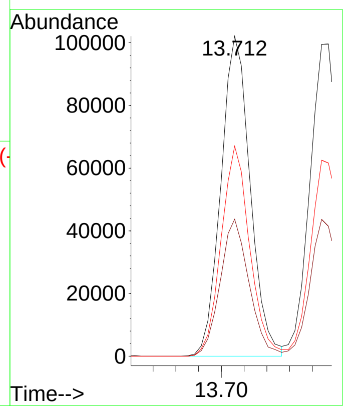
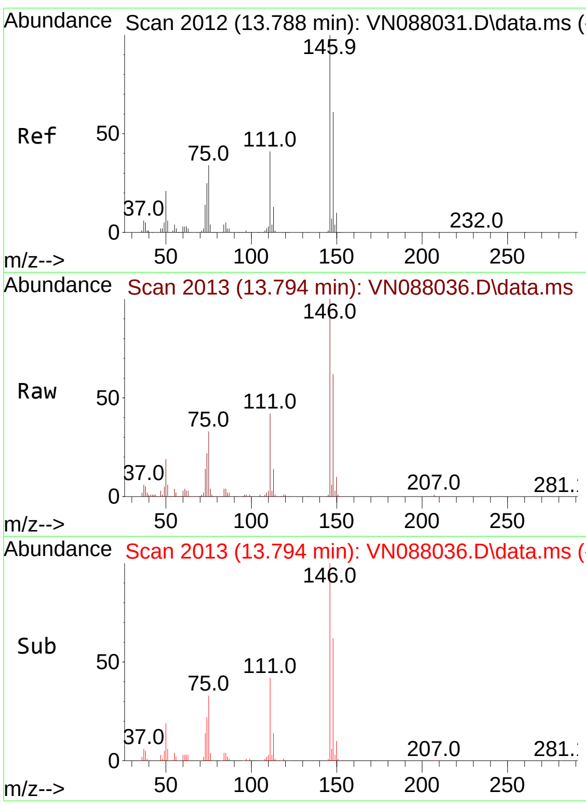
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

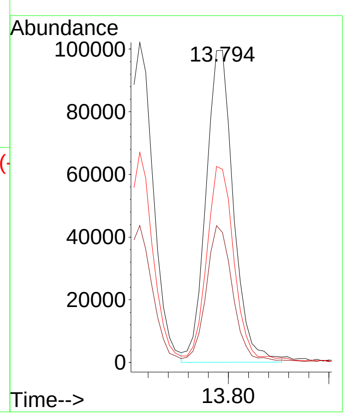




#84
1,4-Dichlorobenzene
Concen: 19.717 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:146 Resp: 189713

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.5	61.6
148	60.0	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations
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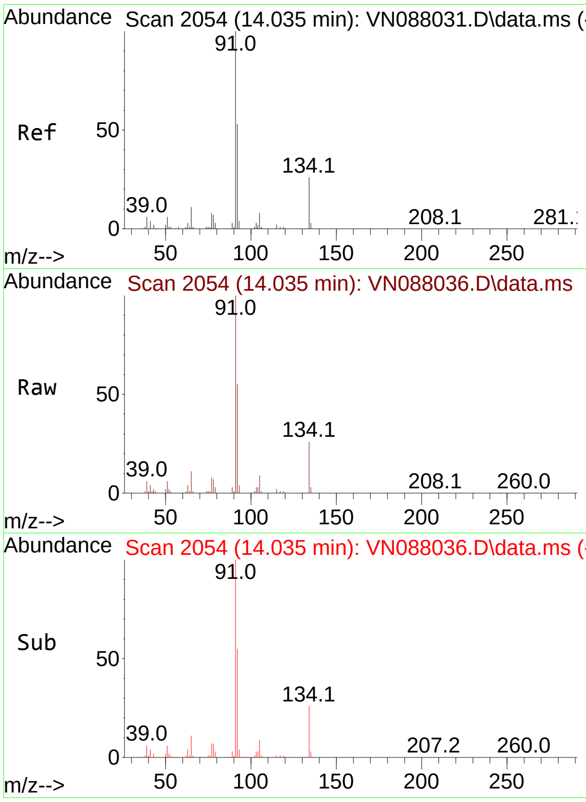
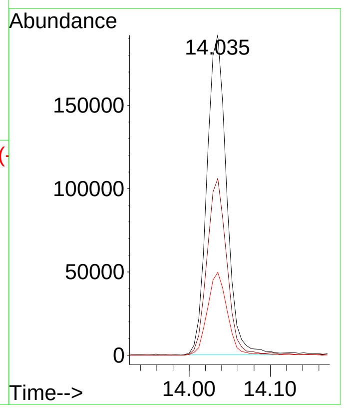
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

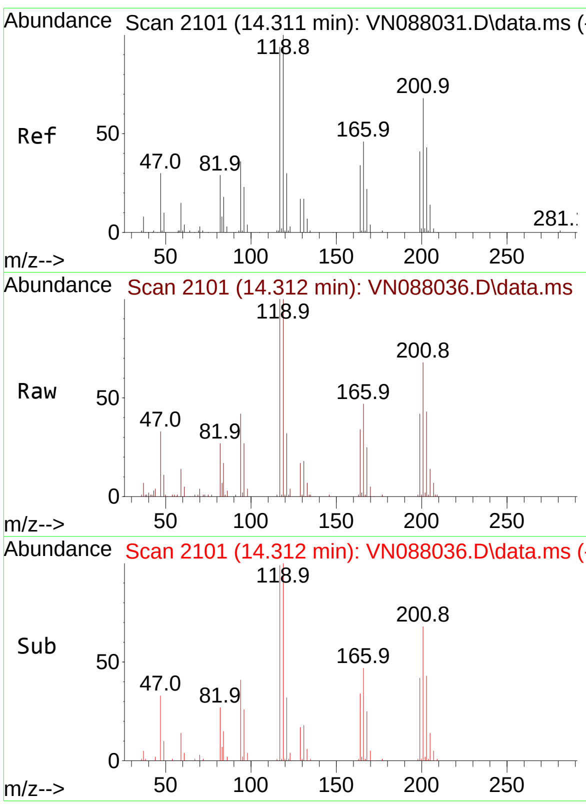


#85
n-Butylbenzene
Concen: 19.531 ug/l
RT: 14.035 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 91 Resp: 32585

Ion	Ratio	Lower	Upper
91	100		
92	55.0	0.0	107.6
134	25.6	0.0	52.6

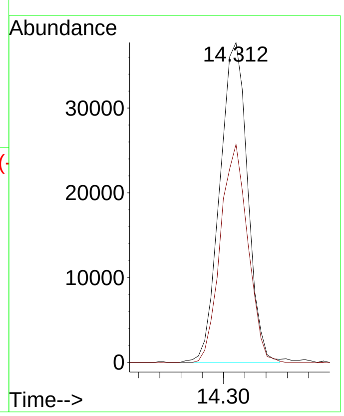


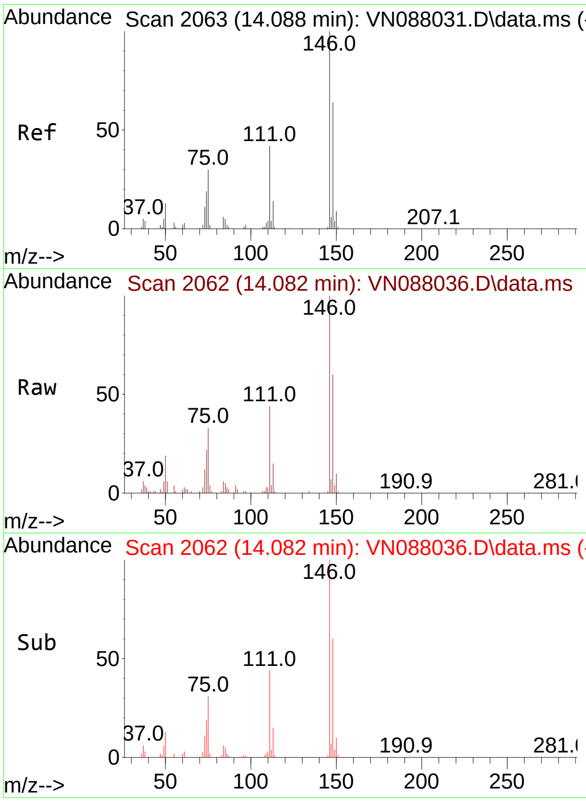


#86
Hexachloroethane
Concen: 19.082 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:117 Resp: 68552

Ion	Ratio	Lower	Upper
117	100		
201	67.2	34.8	104.3

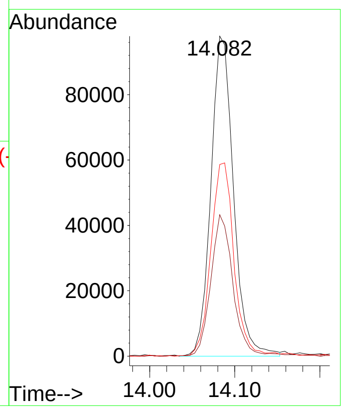




#87
1,2-Dichlorobenzene
Concen: 19.720 ug/l
RT: 14.082 min Scan# 2(
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:146 Resp: 18096

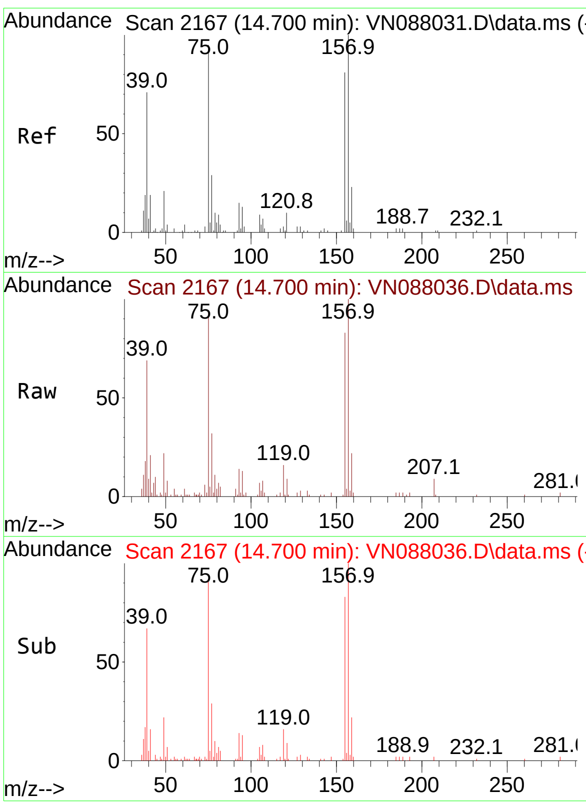
Ion	Ratio	Lower	Upper
146	100		
111	42.3	22.3	66.8
148	61.7	31.4	94.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations APPROVED

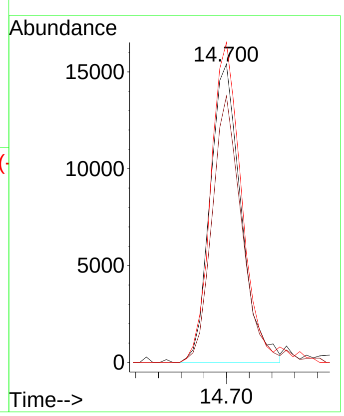
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#88
1,2-Dibromo-3-Chloropropane
Concen: 18.472 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion: 75 Resp: 29181

Ion	Ratio	Lower	Upper
75	100		
155	85.6	63.5	95.3
157	105.5	81.7	122.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

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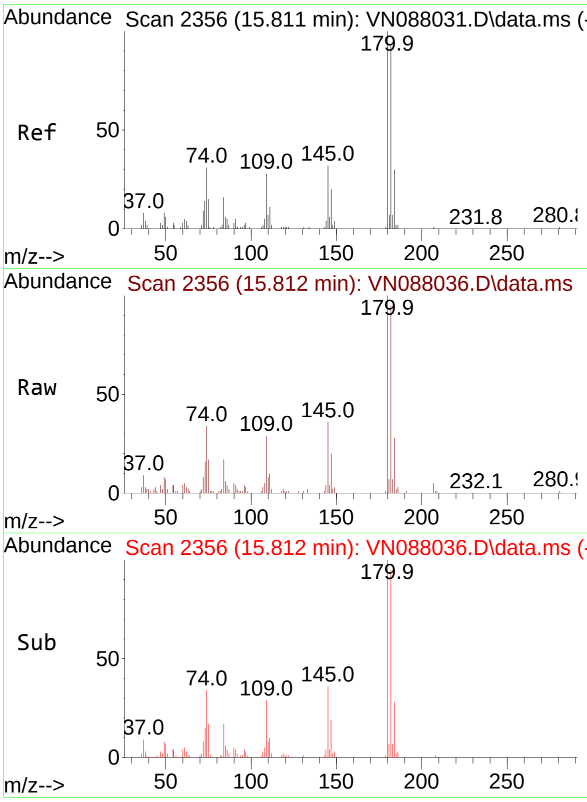
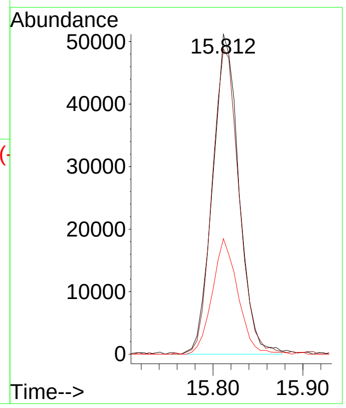
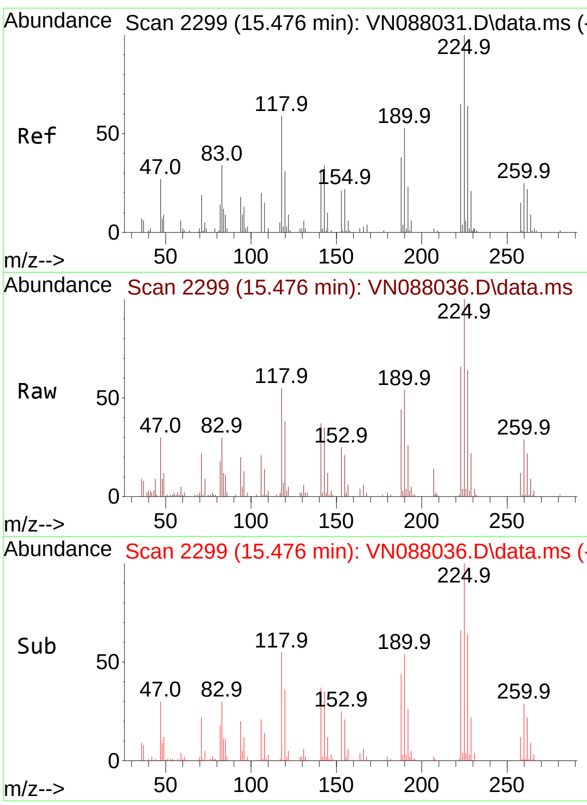


#89
1,2,4-Trichlorobenzene
Concen: 19.094 ug/l
RT: 15.812 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:180 Resp: 10436

Ion	Ratio	Lower	Upper
180	100		
182	97.1	74.6	112.0
145	34.8	27.2	40.8

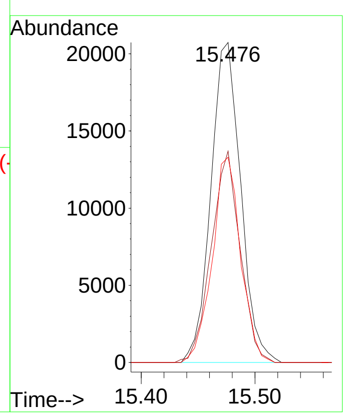


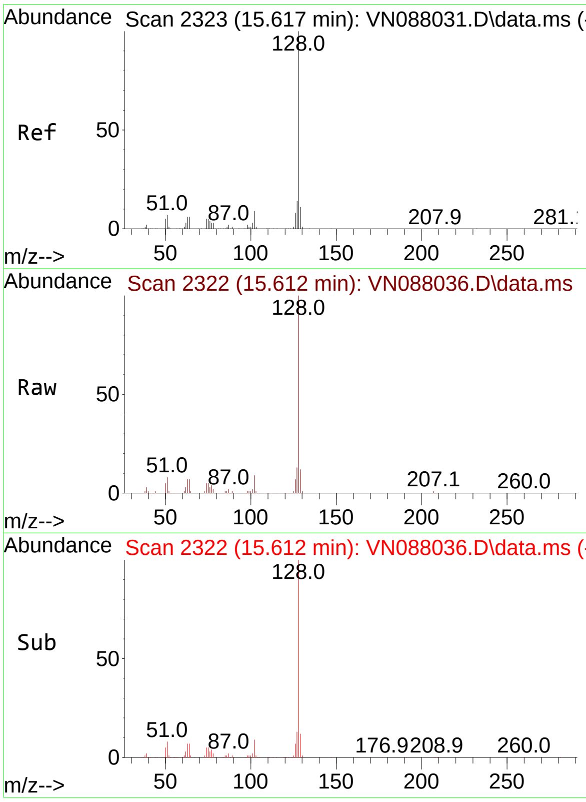


#90
Hexachlorobutadiene
Concen: 19.868 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:225 Resp: 37798

Ion	Ratio	Lower	Upper
225	100		
223	63.9	0.0	129.6
227	61.2	0.0	132.2





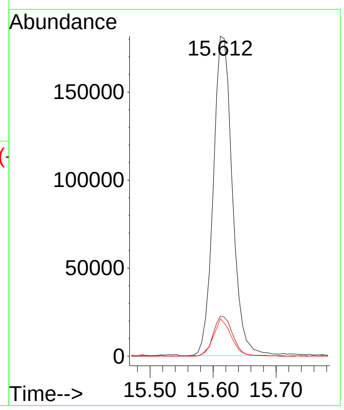
#91
Naphthalene
Concen: 19.071 ug/l
RT: 15.612 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

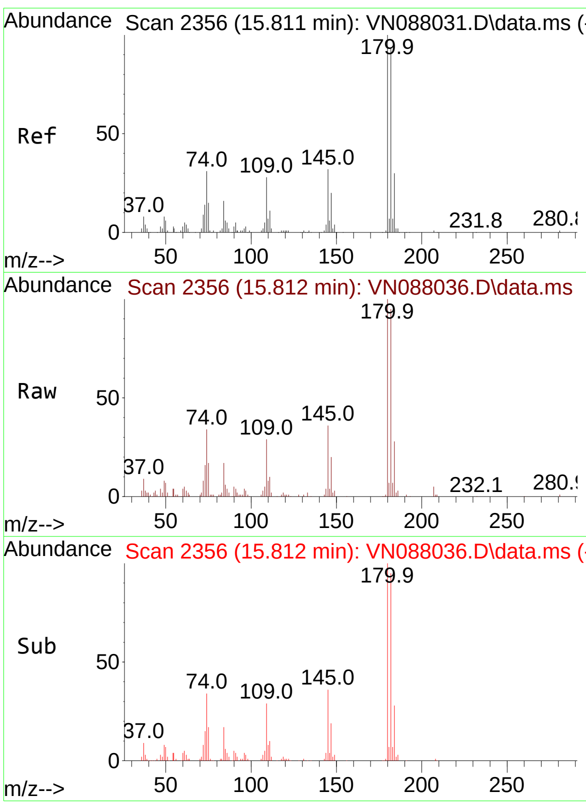
Tgt Ion:128 Resp: 38164

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	11.0	8.6	13.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

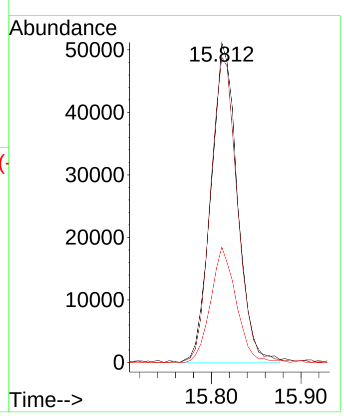




#92
1,2,3-Trichlorobenzene
Concen: 19.094 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088036.D
Acq: 08 Oct 2025 12:52

Tgt Ion:180 Resp: 104369

Ion	Ratio	Lower	Upper
180	100		
182	97.1	0.0	186.6
145	34.8	0.0	68.0



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088036.D
Acq On : 08 Oct 2025 12:52
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Quant Time: Oct 09 02:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	Bromochloromethane	1.000	1.000	0.0	100	0.00
2	M	Dichlorodifluoromethane	1.718	1.732	-0.8	97	0.00
3	M	Chloromethane	1.948	1.954	-0.3	101	0.00
4	M	Vinyl Chloride	2.031	1.994	1.8	98	0.00
5	M	Bromomethane	1.092	1.197	-9.6	115	0.00
6	M	Chloroethane	1.340	1.261	5.9	95	0.00
7	M	Trichlorofluoromethane	2.762	2.676	3.1	98	0.00
8	T	Diethyl Ether	1.248	1.156	7.4	95	0.00
9		1,1,2-Trichlorotrifluoroeth	1.479	1.464	1.0	101	0.00
10	M	1,1-Dichloroethene	1.577	1.540	2.3	99	0.00
11		Methyl Iodide	1.454	1.253	13.8	105	0.00
12		Methyl Acetate	2.564	2.350	8.3	93	0.00
13	M	Acrolein	0.397	0.393	1.0	112	0.00
14	M	Acrylonitrile	1.237	1.163	6.0	96	0.00
15	M	Acetone	0.362	0.324	10.5	89	0.00
16	M	Carbon Disulfide	4.945	4.890	1.1	101	0.01
17		Allyl chloride	2.976	2.809	5.6	96	0.00
18	M	Methylene Chloride	2.005	1.921	4.2	99	0.00
19	M	trans-1,2-Dichloroethene	1.824	1.765	3.2	97	0.00
20	T	Diisopropyl ether	6.776	6.454	4.8	96	0.00
21	M	1,1-Dichloroethane	3.528	3.350	5.0	96	0.00
22	M	cis-1,2-Dichloroethene	2.283	2.174	4.8	96	0.00
23	M	tert-Butyl Alcohol	0.496	0.465	6.2	95	-0.01
24	M	Methyl tert-Butyl Ether	6.809	6.383	6.3	96	0.00
25	M	Chloroform	3.640	3.480	4.4	98	0.00
26		Cyclohexane	2.923	2.840	2.8	96	0.00
27	s	1,2-Dichloroethane-d4	2.336	2.332	0.2	101	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
29		1,1-Dichloropropene	0.430	0.419	2.6	99	0.00
30	M	2-Butanone	0.317	0.288	9.1	91	0.00
31		2,2-Dichloropropane	0.554	0.514	7.2	93	0.00
32	M	1,1,1-Trichloroethane	0.537	0.521	3.0	96	0.00
33	M	Carbon Tetrachloride	0.450	0.440	2.2	98	0.00
34	M	Benzene	1.426	1.361	4.6	97	0.00
35		Methacrylonitrile	0.334	0.331	0.9	99	0.00
36	M	1,2-Dichloroethane	0.495	0.480	3.0	97	0.00
37	M	Trichloroethene	0.338	0.325	3.8	97	0.00
38		Methylcyclohexane	0.531	0.523	1.5	100	0.00
39	M	1,2-Dichloropropane	0.358	0.333	7.0	95	0.00
40		Dibromomethane	0.260	0.246	5.4	95	0.00
41	M	Bromodichloromethane	0.532	0.509	4.3	98	0.00
42	M	Vinyl Acetate	1.080	1.085	-0.5	107	0.00
43		Ethyl Acetate	0.610	0.588	3.6	96	0.00
44		Isopropyl Acetate	0.996	0.925	7.1	94	0.00
45	T	1,4-Dioxane	0.007	0.007	0.0	95	0.00
46		Methyl methacrylate	0.439	0.413	5.9	107	0.00
47		n-amyl Acetate	0.472	0.482	-2.1	104	0.05
48	M	t-1,3-Dichloropropene	0.591	0.546	7.6	95	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088036.D
Acq On : 08 Oct 2025 12:52
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Quant Time: Oct 09 02:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	cis-1,3-Dichloropropene	0.617	0.576	6.6	95	0.00
50	M	1,1,2-Trichloroethane	0.345	0.322	6.7	95	0.00
51		Ethyl methacrylate	0.583	0.549	5.8	99	0.00
52		1,3-Dichloropropane	0.601	0.571	5.0	96	0.00
53	M	Dibromochloromethane	0.412	0.389	5.6	97	0.00
54	M	1,2-Dibromoethane	0.369	0.345	6.5	96	0.00
55	M	2-Chloroethyl vinyl ether	0.315	0.313	0.6	97	0.00
56	M	Bromoform	0.279	0.259	7.2	97	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
58	M	4-Methyl-2-Pentanone	0.671	0.651	3.0	95	0.00
59	M	2-Hexanone	0.443	0.414	6.5	93	0.00
60	S	4-Bromofluorobenzene	0.495	0.493	0.4	98	0.00
61	M	Tetrachloroethene	0.304	0.305	-0.3	98	0.00
62	M	Toluene	1.702	1.657	2.6	96	0.00
63	S	Toluene-d8	1.337	1.340	-0.2	98	0.00
64	M	Chlorobenzene	1.087	1.049	3.5	95	0.00
65		1,1,1,2-Tetrachloroethane	0.375	0.366	2.4	94	0.00
66	M	Ethyl Benzene	1.850	1.840	0.5	98	0.00
67	M	m/p-Xylenes	0.713	0.695	2.5	96	0.00
68	M	o-Xylene	0.710	0.709	0.1	98	0.00
69	M	Styrene	1.175	1.140	3.0	99	0.00
70		Isopropylbenzene	1.740	1.708	1.8	98	0.00
71	M	1,1,2,2-Tetrachloroethane	0.590	0.563	4.6	95	0.00
72		1,2,3-Trichloropropane	0.548	0.549	-0.2	104	0.00
73		Bromobenzene	0.425	0.412	3.1	95	0.00
74		n-propylbenzene	2.101	2.050	2.4	97	0.00
75		2-Chlorotoluene	1.285	1.258	2.1	97	0.00
76		1,3,5-Trimethylbenzene	1.478	1.451	1.8	98	0.00
77		t-1,4-Dichloro-2-butene	0.218	0.194	11.0	97	0.00
78		4-Chlorotoluene	1.305	1.306	-0.1	99	0.00
79		tert-butylbenzene	1.282	1.288	-0.5	98	0.00
80		1,2,4-Trimethylbenzene	1.480	1.433	3.2	96	0.00
81		sec-Butylbenzene	1.802	1.804	-0.1	99	0.00
82		p-Isopropyltoluene	1.538	1.534	0.3	98	0.00
83	M	1,3-Dichlorobenzene	0.800	0.783	2.1	96	0.00
84	M	1,4-Dichlorobenzene	0.825	0.814	1.3	96	0.00
85		n-Butylbenzene	1.431	1.398	2.3	96	0.00
86	T	Hexachloroethane	0.308	0.294	4.5	95	0.00
87	M	1,2-Dichlorobenzene	0.787	0.776	1.4	97	0.00
88		1,2-Dibromo-3-Chloropropane	0.136	0.125	8.1	88	0.00
89		1,2,4-Trichlorobenzene	0.469	0.448	4.5	94	0.00
90		Hexachlorobutadiene	0.163	0.162	0.6	100	0.00
91	M	Naphthalene	1.717	1.637	4.7	94	0.00
92		1,2,3-Trichlorobenzene	0.469	0.448	4.5	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088036.D
Acq On : 08 Oct 2025 12:52
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN100825

Quant Time: Oct 09 02:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	Bromochloromethane	30.000	30.000	0.0	100	0.00
2	M	Dichlorodifluoromethane	20.000	20.154	-0.8	97	0.00
3	M	Chloromethane	20.000	20.058	-0.3	101	0.00
4	M	Vinyl Chloride	20.000	19.632	1.8	98	0.00
5	M	Bromomethane	20.000	21.918	-9.6	115	0.00
6	M	Chloroethane	20.000	18.828	5.9	95	0.00
7	M	Trichlorofluoromethane	20.000	19.378	3.1	98	0.00
8	T	Diethyl Ether	20.000	18.530	7.3	95	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	19.799	1.0	101	0.00
10	M	1,1-Dichloroethene	20.000	19.526	2.4	99	0.00
11		Methyl Iodide	20.000	17.244	13.8	105	0.00
12		Methyl Acetate	20.000	18.325	8.4	93	0.00
13	M	Acrolein	100.000	99.064	0.9	112	0.00
14	M	Acrylonitrile	100.000	93.988	6.0	96	0.00
15	M	Acetone	100.000	89.462	10.5	89	0.00
16	M	Carbon Disulfide	20.000	19.779	1.1	101	0.01
17		Allyl chloride	20.000	18.874	5.6	96	0.00
18	M	Methylene Chloride	20.000	19.167	4.2	99	0.00
19	M	trans-1,2-Dichloroethene	20.000	19.357	3.2	97	0.00
20	T	Diisopropyl ether	20.000	19.048	4.8	96	0.00
21	M	1,1-Dichloroethane	20.000	18.992	5.0	96	0.00
22	M	cis-1,2-Dichloroethene	20.000	19.048	4.8	96	0.00
23	M	tert-Butyl Alcohol	100.000	93.763	6.2	95	-0.01
24	M	Methyl tert-Butyl Ether	20.000	18.751	6.2	96	0.00
25	M	Chloroform	20.000	19.120	4.4	98	0.00
26		Cyclohexane	20.000	19.433	2.8	96	0.00
27	s	1,2-Dichloroethane-d4	30.000	29.945	0.2	101	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	99	0.00
29		1,1-Dichloropropene	20.000	19.507	2.5	99	0.00
30	M	2-Butanone	100.000	90.720	9.3	91	0.00
31		2,2-Dichloropropane	20.000	18.552	7.2	93	0.00
32	M	1,1,1-Trichloroethane	20.000	19.406	3.0	96	0.00
33	M	Carbon Tetrachloride	20.000	19.562	2.2	98	0.00
34	M	Benzene	20.000	19.081	4.6	97	0.00
35		Methacrylonitrile	20.000	19.875	0.6	99	0.00
36	M	1,2-Dichloroethane	20.000	19.378	3.1	97	0.00
37	M	Trichloroethene	20.000	19.205	4.0	97	0.00
38		Methylcyclohexane	20.000	19.701	1.5	100	0.00
39	M	1,2-Dichloropropane	20.000	18.608	7.0	95	0.00
40		Dibromomethane	20.000	18.910	5.4	95	0.00
41	M	Bromodichloromethane	20.000	19.165	4.2	98	0.00
42	M	Vinyl Acetate	100.000	100.422	-0.4	107	0.00
43		Ethyl Acetate	20.000	19.305	3.5	96	0.00
44		Isopropyl Acetate	20.000	18.583	7.1	94	0.00
45	T	1,4-Dioxane	400.000	410.874	-2.7	95	0.00
46		Methyl methacrylate	20.000	18.835	5.8	107	0.00
47		n-amyl Acetate	20.000	20.438	-2.2	104	0.05
48	M	t-1,3-Dichloropropene	20.000	18.462	7.7	95	0.00

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088036.D
Acq On : 08 Oct 2025 12:52
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : ICVVN100825

Quant Time: Oct 09 02:40:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	cis-1,3-Dichloropropene	20.000	18.663	6.7	95	0.00
50	M	1,1,2-Trichloroethane	20.000	18.672	6.6	95	0.00
51		Ethyl methacrylate	20.000	18.832	5.8	99	0.00
52		1,3-Dichloropropane	20.000	18.977	5.1	96	0.00
53	M	Dibromochloromethane	20.000	18.861	5.7	97	0.00
54	M	1,2-Dibromoethane	20.000	18.734	6.3	96	0.00
55	M	2-Chloroethyl vinyl ether	100.000	99.302	0.7	97	0.00
56	M	Bromoform	20.000	18.560	7.2	97	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	98	0.00
58	M	4-Methyl-2-Pentanone	100.000	96.964	3.0	95	0.00
59	M	2-Hexanone	100.000	93.537	6.5	93	0.00
60	S	4-Bromofluorobenzene	30.000	29.914	0.3	98	0.00
61	M	Tetrachloroethene	20.000	20.058	-0.3	98	0.00
62	M	Toluene	20.000	19.478	2.6	96	0.00
63	S	Toluene-d8	30.000	30.075	-0.2	98	0.00
64	M	Chlorobenzene	20.000	19.301	3.5	95	0.00
65		1,1,1,2-Tetrachloroethane	20.000	19.526	2.4	94	0.00
66	M	Ethyl Benzene	20.000	19.892	0.5	98	0.00
67	M	m/p-Xylenes	40.000	38.967	2.6	96	0.00
68	M	o-Xylene	20.000	19.959	0.2	98	0.00
69	M	Styrene	20.000	19.412	2.9	99	0.00
70		Isopropylbenzene	20.000	19.630	1.9	98	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	19.080	4.6	95	0.00
72		1,2,3-Trichloropropane	20.000	20.021	-0.1	104	0.00
73		Bromobenzene	20.000	19.358	3.2	95	0.00
74		n-propylbenzene	20.000	19.511	2.4	97	0.00
75		2-Chlorotoluene	20.000	19.590	2.1	97	0.00
76		1,3,5-Trimethylbenzene	20.000	19.632	1.8	98	0.00
77		t-1,4-Dichloro-2-butene	20.000	17.725	11.4	97	0.00
78		4-Chlorotoluene	20.000	20.011	-0.1	99	0.00
79		tert-butylbenzene	20.000	20.095	-0.5	98	0.00
80		1,2,4-Trimethylbenzene	20.000	19.362	3.2	96	0.00
81		sec-Butylbenzene	20.000	20.024	-0.1	99	0.00
82		p-Isopropyltoluene	20.000	19.946	0.3	98	0.00
83	M	1,3-Dichlorobenzene	20.000	19.575	2.1	96	0.00
84	M	1,4-Dichlorobenzene	20.000	19.717	1.4	96	0.00
85		n-Butylbenzene	20.000	19.531	2.3	96	0.00
86	T	Hexachloroethane	20.000	19.082	4.6	95	0.00
87	M	1,2-Dichlorobenzene	20.000	19.720	1.4	97	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	18.472	7.6	88	0.00
89		1,2,4-Trichlorobenzene	20.000	19.094	4.5	94	0.00
90		Hexachlorobutadiene	20.000	19.868	0.7	100	0.00
91	M	Naphthalene	20.000	19.071	4.6	94	0.00
92		1,2,3-Trichlorobenzene	20.000	19.094	4.5	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **VN088055.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: ARDM01

Lab Code: ACE | SDG No.: Q3385

Instrument ID: MSVOA_N | Calibration Date/Time: 10/17/2025 09:29

Lab File ID: VN088055.D | Init. Calib. Date(s): 10/08/2025 10/08/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:34 11:12

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Chloromethane	1.948	1.658		-14.89	
Vinyl Chloride	2.031	1.773	0.1	-12.7	
Bromomethane	1.092	0.978	0.1	-10.44	
Chloroethane	1.340	1.174		-12.39	
Trichlorofluoromethane	2.762	2.501		-9.45	
1,1-Dichloroethene	1.577	1.383	0.1	-12.3	
Acrolein	0.397	0.365		-8.06	
Acrylonitrile	1.238	1.060		-14.38	
Methylene Chloride	2.005	1.742		-13.12	
trans-1,2-Dichloroethene	1.824	1.593		-12.66	
1,1-Dichloroethane	3.528	3.153	0.2	-10.63	
Carbon Tetrachloride	0.450	0.398	0.1	-11.56	
Chloroform	3.640	3.230	0.2	-11.26	
1,1,1-Trichloroethane	0.537	0.490	0.1	-8.75	
Benzene	1.426	1.275	0.5	-10.59	
1,2-Dichloroethane	0.495	0.459	0.1	-7.27	
Trichloroethene	0.338	0.286	0.3	-15.39	
1,2-Dichloropropane	0.358	0.318		-11.17	
Bromodichloromethane	0.532	0.475	0.2	-10.71	
Toluene	1.702	1.497	0.4	-12.05	
t-1,3-Dichloropropene	0.591	0.518	0.1	-12.35	
cis-1,3-Dichloropropene	0.617	0.550	0.2	-10.86	
1,1,2-Trichloroethane	0.345	0.299	0.1	-13.33	
2-Chloroethyl vinyl ether	0.315	0.280		-11.11	
Dibromochloromethane	0.412	0.364	0.1	-11.65	
Tetrachloroethene	0.304	0.254	0.2	-16.45	
Chlorobenzene	1.087	0.945	0.5	-13.06	
Ethyl Benzene	1.850	1.633	0.1	-11.73	
m/p-Xylenes	0.713	0.626	0.3	-12.2	
o-Xylene	0.710	0.606	0.3	-14.65	
Bromoform	0.279	0.226	0.1	-19	
1,1,2,2-Tetrachloroethane	0.590	0.515	0.3	-12.71	
1,3-Dichlorobenzene	0.800	0.685	0.2	-14.38	
1,4-Dichlorobenzene	0.825	0.695	0.2	-15.76	
1,2-Dichlorobenzene	0.787	0.676	0.2	-14.1	
1,2-Dichloroethane-d4	2.336	2.445	0.01	4.67	
Toluene-d8	1.337	1.360	0.01	1.72	
4-Bromofluorobenzene	0.495	0.493	0.2	-0.4	

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Sample Results: **VN088055.D**

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088055.D
Acq On    : 17 Oct 2025  09:29
Operator  : JC\MD
Sample    : VSTDCCC020
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Oct 18 01:18:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title  : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

```
       Compound                     R.T. QIon  Response  Conc Units Dev(Min)
---------------------------------------------------------------------------
Internal Standards
  1) Bromochloromethane            7.794  128     68741    30.000 ug/l     0.00
 28) 1,4-Difluorobenzene           9.076  114    379209    30.000 ug/l     0.00
 57) Chlorobenzene-d5             11.841  117    339769    30.000 ug/l     0.00

System Monitoring Compounds
 27) 1,2-Dichloroethane-d4         8.559   65    168041    31.393 ug/l    0.00
  Spiked Amount     30.000   Range  91 - 110    Recovery    =  104.633%
 60) 4-Bromofluorobenzene         12.823   95    167508    29.905 ug/l    0.00
  Spiked Amount     30.000   Range  63 - 112    Recovery    =   99.700%
 63) Toluene-d8                   10.541   98    462055    30.523 ug/l    0.00
  Spiked Amount     30.000   Range  91 - 112    Recovery    =  101.733%

Target Compounds                                                  Qvalue
  2) Dichlorodifluoromethane       2.142   85     68956    17.514 ug/l      99
  3) Chloromethane                 2.383   50     75993    17.024 ug/l      94
  4) Vinyl Chloride                2.536   62     81232    17.453 ug/l      99
  5) Bromomethane                  2.983   94     44810    17.904 ug/l     100
  6) Chloroethane                  3.136   64     53814    17.527 ug/l      95
  7) Trichlorofluoromethane        3.518  101    114592    18.105 ug/l      98
  8) Diethyl Ether                 3.965   74     50172    17.544 ug/l      97
  9) 1,1,2-Trichlorotrifluo...     4.371  101     59829m   17.658 ug/l
 10) 1,1-Dichloroethene            4.336   96     63401    17.542 ug/l      97
 11) Methyl Iodide                 4.583  142     47047    14.123 ug/l      87
 12) Methyl Acetate                5.018   43    106336    18.097 ug/l #    89
 13) Acrolein                      4.177   56     83661    92.008 ug/l #     7
 14) Acrylonitrile                 5.706   53    242849    85.644 ug/l      98
 15) Acetone                       4.424   58     75696    91.155 ug/l      90
 16) Carbon Disulfide              4.706   76    194894    17.201 ug/l      98
 17) Allyl chloride                5.012   41    117651    17.251 ug/l      96
 18) Methylene Chloride            5.265   84     79827    17.377 ug/l      98
 19) trans-1,2-Dichloroethene      5.777   96     73008    17.471 ug/l #    82
 20) Diisopropyl ether             6.659   45    279601    18.007 ug/l      97
 21) 1,1-Dichloroethane            6.553   63    144503    17.877 ug/l      98
 22) cis-1,2-Dichloroethene        7.471   96     89581    17.125 ug/l      97
 23) tert-Butyl Alcohol            5.518   59     88279    77.626 ug/l #   100
 24) Methyl tert-Butyl Ether       5.783   73    272797    17.486 ug/l      99
 25) Chloroform                    7.947   83    148031    17.747 ug/l      95
 26) Cyclohexane                   8.235   56    116788    17.439 ug/l #    95
 29) 1,1-Dichloropropene           8.353   75     97631    17.962 ug/l      97
 30) 2-Butanone                    7.465   43    359946    89.786 ug/l      99
 31) 2,2-Dichloropropane           7.477   77    128404    18.334 ug/l      98
 32) 1,1,1-Trichloroethane         8.147   97    123879    18.239 ug/l      98
 33) Carbon Tetrachloride          8.341  117    100535    17.672 ug/l      97
 34) Benzene                       8.588   78    322407    17.882 ug/l      97
 35) Methacrylonitrile             7.765   41     70160    16.643 ug/l      99
 36) 1,2-Dichloroethane            8.653   62    115989    18.531 ug/l      98
 37) Trichloroethene               9.329  130     72198    16.902 ug/l      93
 38) Methylcyclohexane             9.582   83    114412    17.044 ug/l      96
 39) 1,2-Dichloropropane           9.600   63     80429    17.791 ug/l      99
 40) Dibromomethane                9.688   93     59612    18.115 ug/l      94
 41) Bromodichloromethane          9.865   83    120031    17.860 ug/l      99
 42) Vinyl Acetate                 6.588   43   1261882    92.397 ug/l      96
```

Sample Results: **VN088055.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088055.D
Acq On : 17 Oct 2025 09:29
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

Quant Time: Oct 18 01:18:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.541	43	140816m	18.273 ug/l	
44) Isopropyl Acetate	8.671	43	218478	17.358 ug/l	97
45) 1,4-Dioxane	9.676	88	25094	299.765 ug/l #	91
46) Methyl methacrylate	9.665	41	104805m	18.908 ug/l	
47) n-amyl Acetate	12.588	43	121494m	20.365 ug/l	
48) t-1,3-Dichloropropene	10.818	75	130980	17.526 ug/l	95
49) cis-1,3-Dichloropropene	10.294	75	139016	17.833 ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	75536	17.333 ug/l	97
51) Ethyl methacrylate	10.853	69	126407	17.140 ug/l	97
52) 1,3-Dichloropropane	11.141	76	137378	18.069 ug/l	99
53) Dibromochloromethane	11.335	129	92038	17.666 ug/l	98
54) 1,2-Dibromoethane	11.447	107	80058	17.184 ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	353530	88.807 ug/l	98
56) Bromoform	12.559	173	57223	16.246 ug/l	96
58) 4-Methyl-2-Pentanone	10.423	43	661034	86.980 ug/l	98
59) 2-Hexanone	11.176	43	450152	89.713 ug/l	99
61) Tetrachloroethene	11.082	164	57616	16.745 ug/l	96
62) Toluene	10.606	91	339113	17.595 ug/l	99
64) Chlorobenzene	11.870	112	213944	17.379 ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	74677	17.603 ug/l	98
66) Ethyl Benzene	11.941	91	369860	17.649 ug/l	100
67) m/p-Xylenes	12.047	106	283387	35.077 ug/l	97
68) o-Xylene	12.376	106	137374	17.081 ug/l	94
69) Styrene	12.388	104	230855	17.352 ug/l	99
70) Isopropylbenzene	12.670	105	342498	17.376 ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	116626	17.452 ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	111200m	17.917 ug/l	
73) Bromobenzene	12.959	156	80810	16.773 ug/l	93
74) n-propylbenzene	13.012	91	418345	17.581 ug/l	98
75) 2-Chlorotoluene	13.106	91	256739	17.646 ug/l	99
76) 1,3,5-Trimethylbenzene	13.147	105	292691	17.481 ug/l	98
77) t-1,4-Dichloro-2-butene	12.717	75	39570m	15.998 ug/l	
78) 4-Chlorotoluene	13.200	91	263876	17.851 ug/l	97
79) tert-butylbenzene	13.412	119	257431	17.735 ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	292967	17.478 ug/l	96
81) sec-Butylbenzene	13.594	105	361492	17.713 ug/l	98
82) p-Isopropyltoluene	13.706	119	307176	17.630 ug/l	98
83) 1,3-Dichlorobenzene	13.711	146	155053	17.105 ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	157460	16.843 ug/l	99
85) n-Butylbenzene	14.035	91	287279	17.722 ug/l	99
86) Hexachloroethane	14.306	117	61461	17.608 ug/l	88
87) 1,2-Dichlorobenzene	14.082	146	153219	17.185 ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	26516	17.276 ug/l	91
89) 1,2,4-Trichlorobenzene	15.811	180	84590	15.928 ug/l	99
90) Hexachlorobutadiene	15.476	225	29490	15.955 ug/l	99
91) Naphthalene	15.611	128	314372	16.169 ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	84590	15.928 ug/l	99

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

Quantitation Report (QT Reviewed)

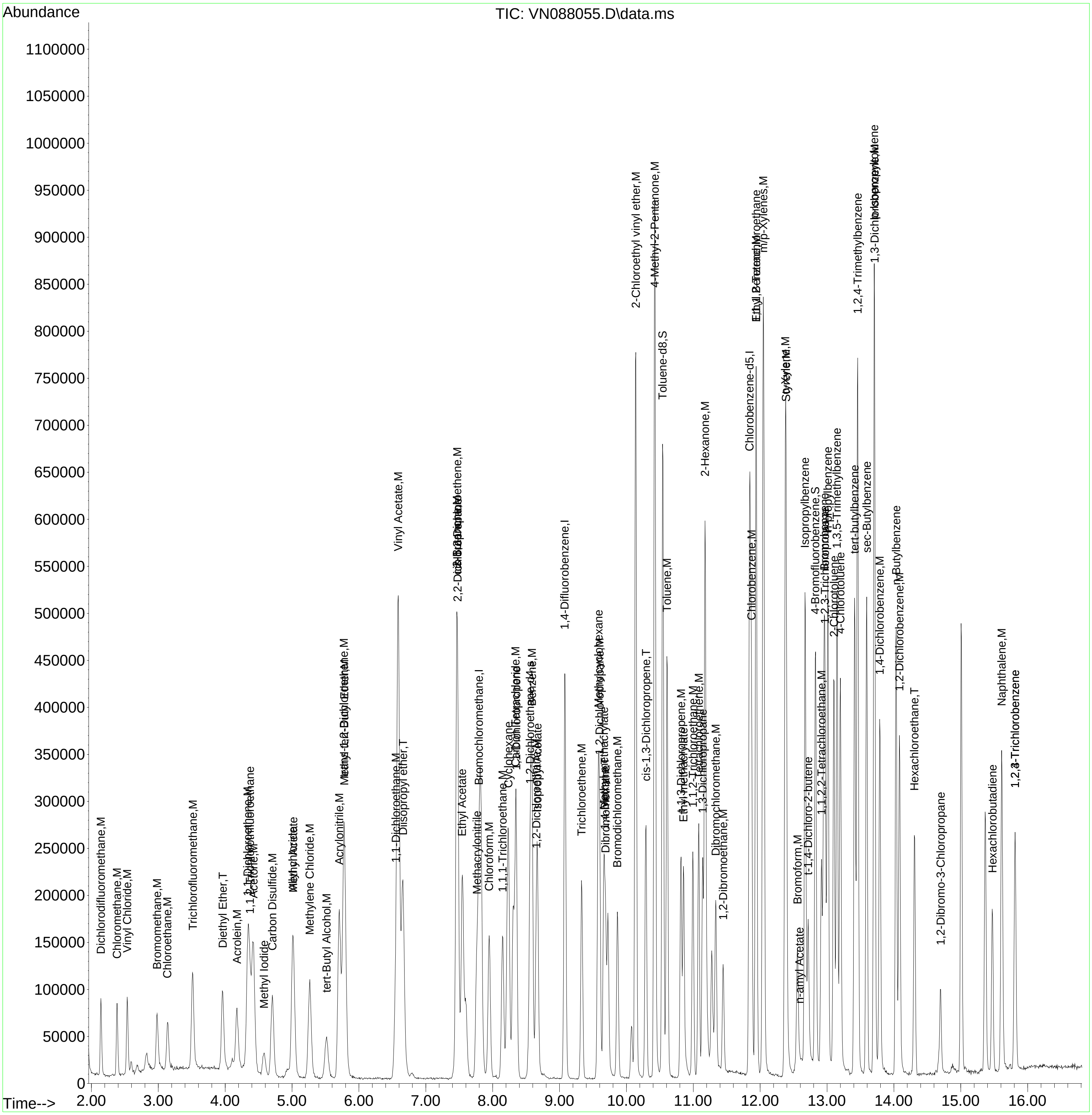
Sample Results: **VN088055.D**

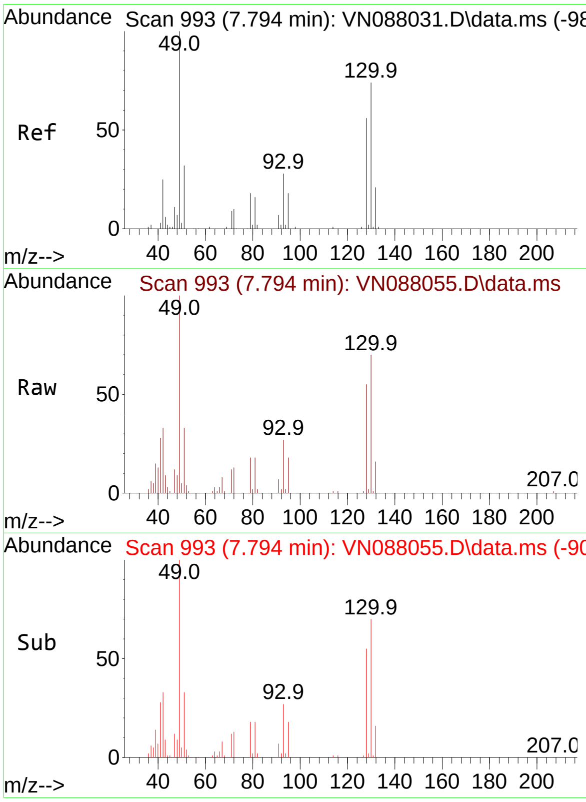
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088055.D
Acq On : 17 Oct 2025 09:29
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Quant Time: Oct 18 01:18:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Manual Integrations APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

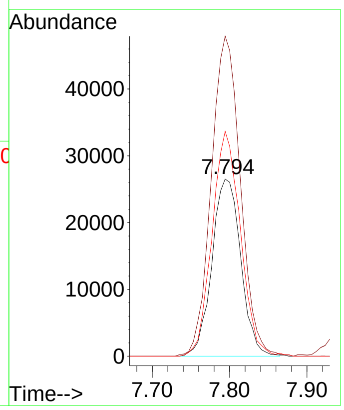




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min   Scan# 9
Delta R.T.   0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025   09:29

Tgt Ion:128 Resp: 6874

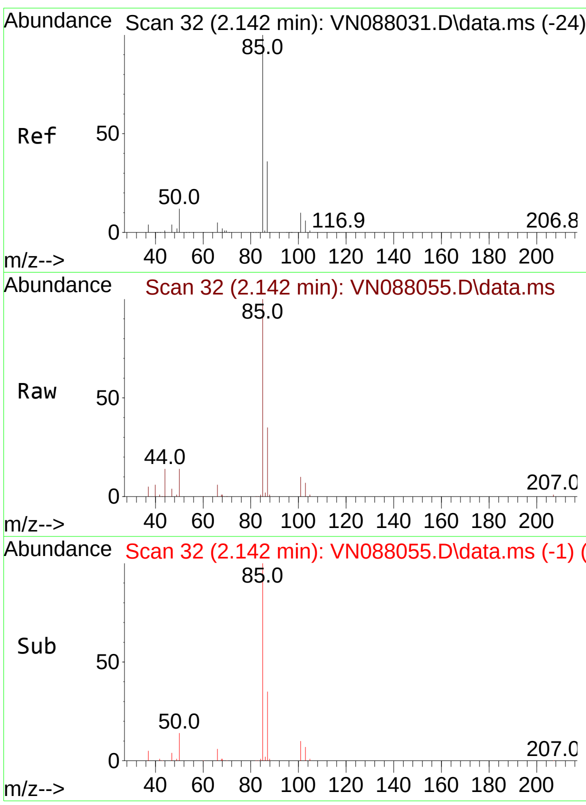
Ion	Ratio	Lower	Upper
128	100		
49	182.6	0.0	439.8
130	124.8	0.0	325.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED

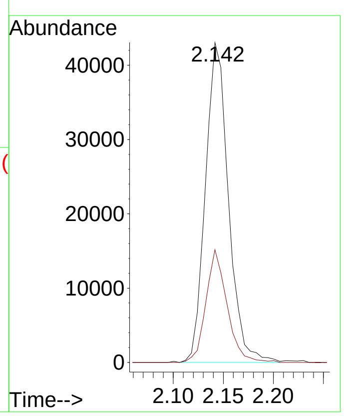
Reviewed By :John Carlone   10/20/2025
Supervised By :Mahesh Dadoda   10/20/2025



#2
Dichlorodifluoromethane
Concen: 17.514 ug/l
RT: 2.142 min   Scan# 32
Delta R.T.   0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025   09:29

Tgt Ion: 85 Resp: 68956

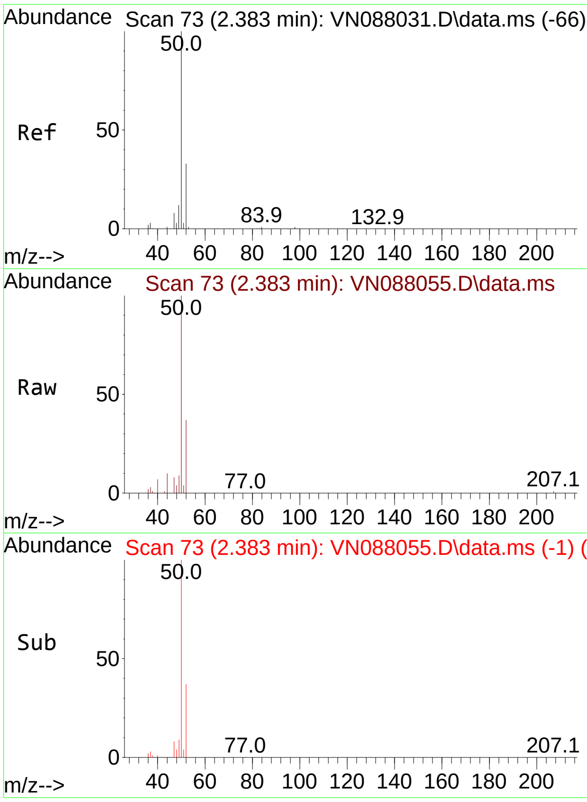
Ion	Ratio	Lower	Upper
85	100		
87	35.3	17.9	53.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

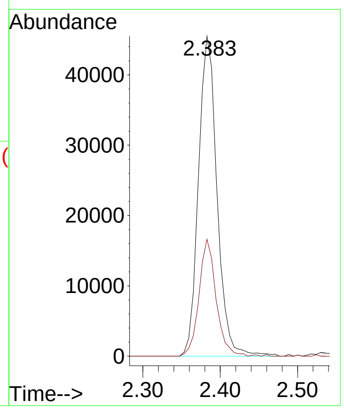
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

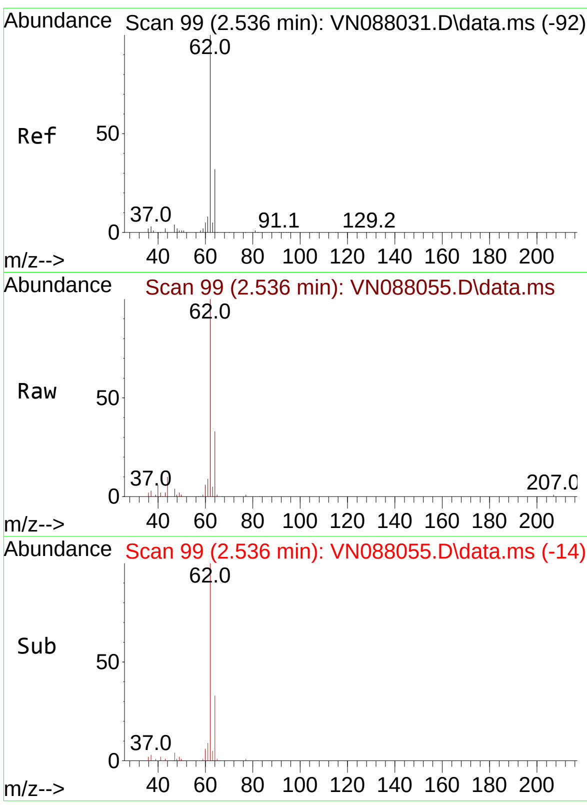


#3
Chloromethane
Concen: 17.024 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 50 Resp: 7599

Ion	Ratio	Lower	Upper
50	100		
52	36.6	26.3	39.5

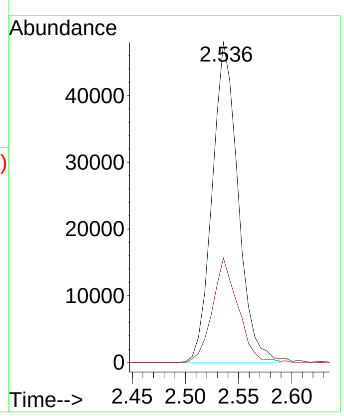


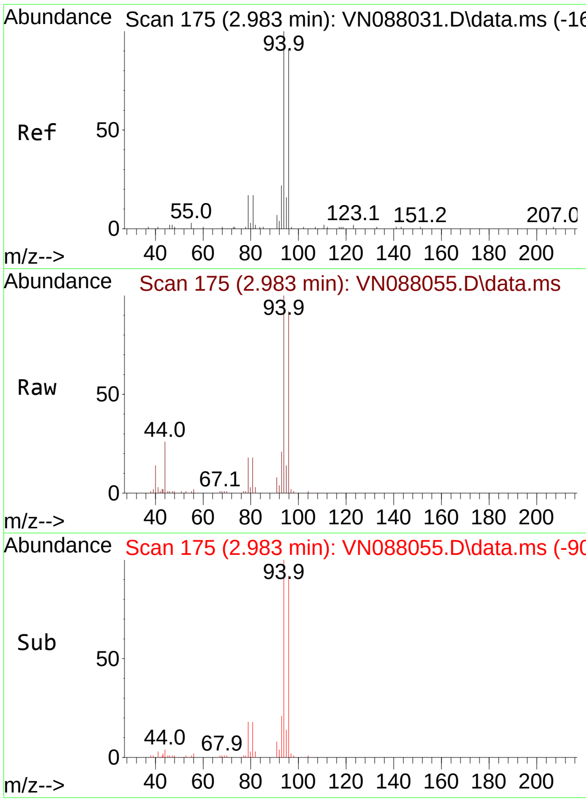


#4
Vinyl Chloride
Concen: 17.453 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 62 Resp: 81232

Ion	Ratio	Lower	Upper
62.0	100		
64	32.6	25.7	38.5





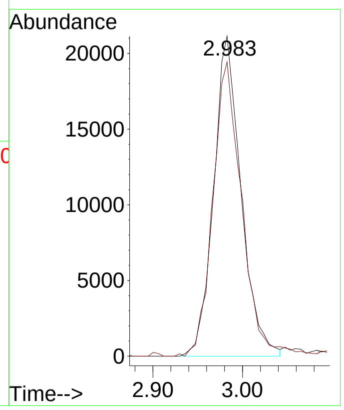
#5
Bromomethane
Concen: 17.904 ug/l
RT: 2.983 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

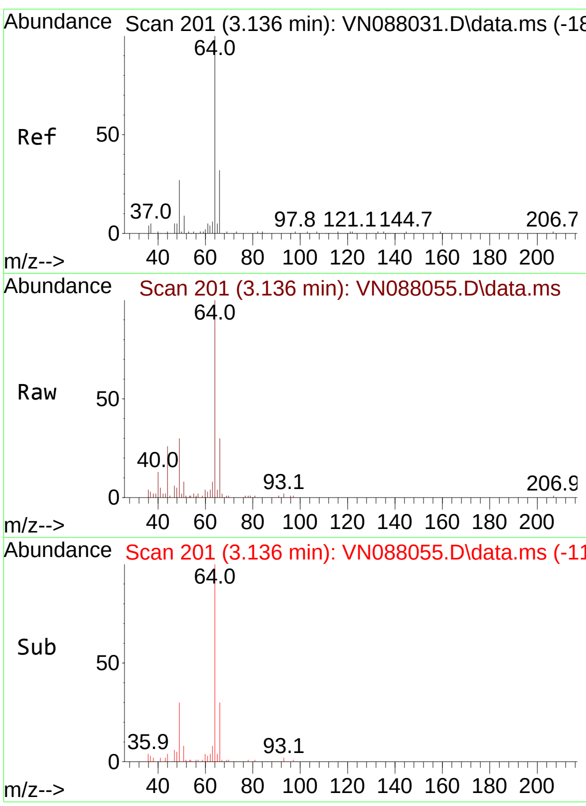
Tgt Ion: 94 Resp: 4481

Ion	Ratio	Lower	Upper
94	100		
96	91.2	73.0	109.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

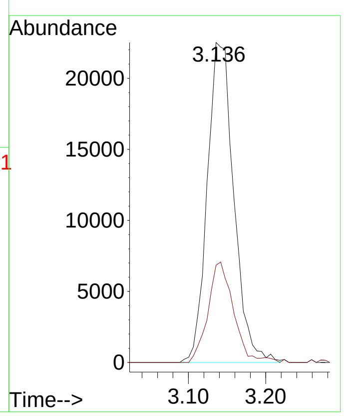




#6
Chloroethane
Concen: 17.527 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 64 Resp: 53814

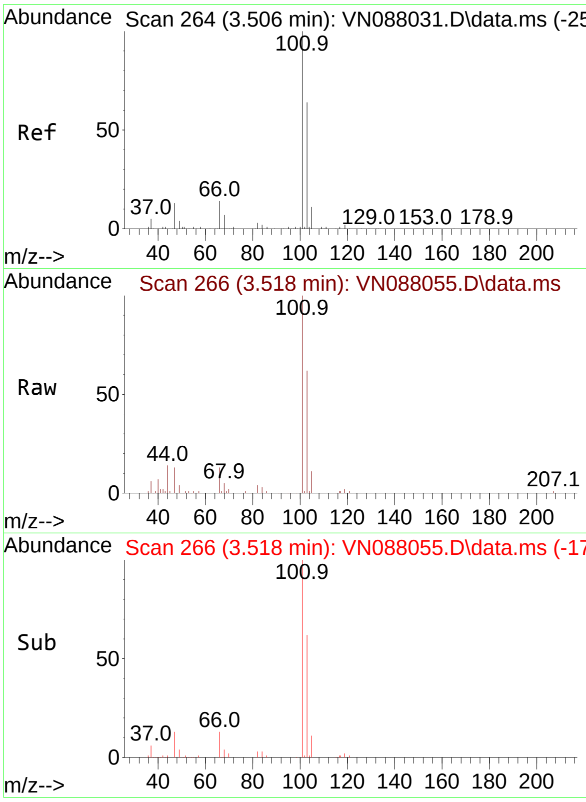
Ion	Ratio	Lower	Upper
64	100		
66	30.4	26.8	40.2



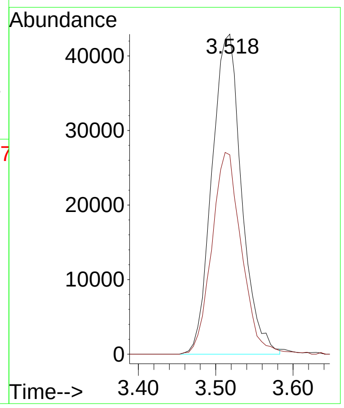
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

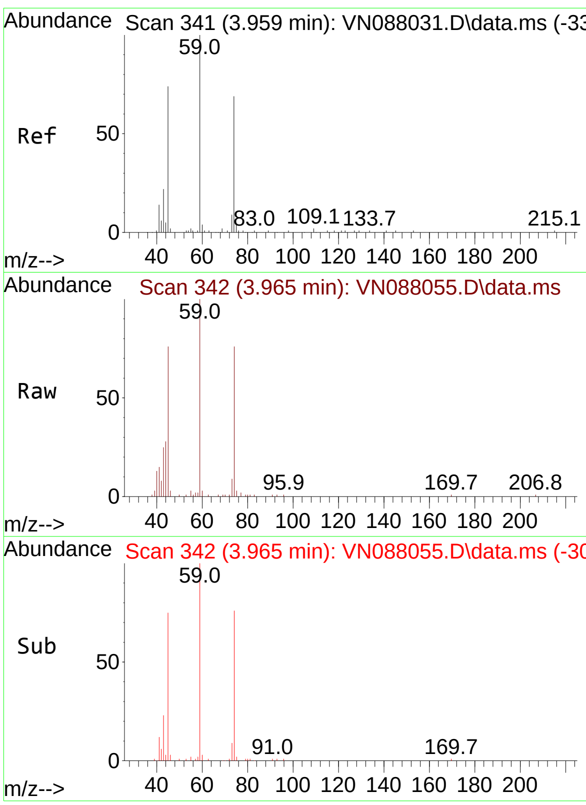
Manual Integrations
APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

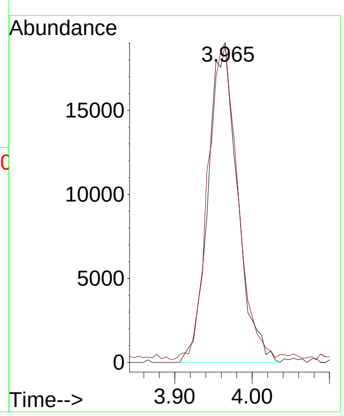


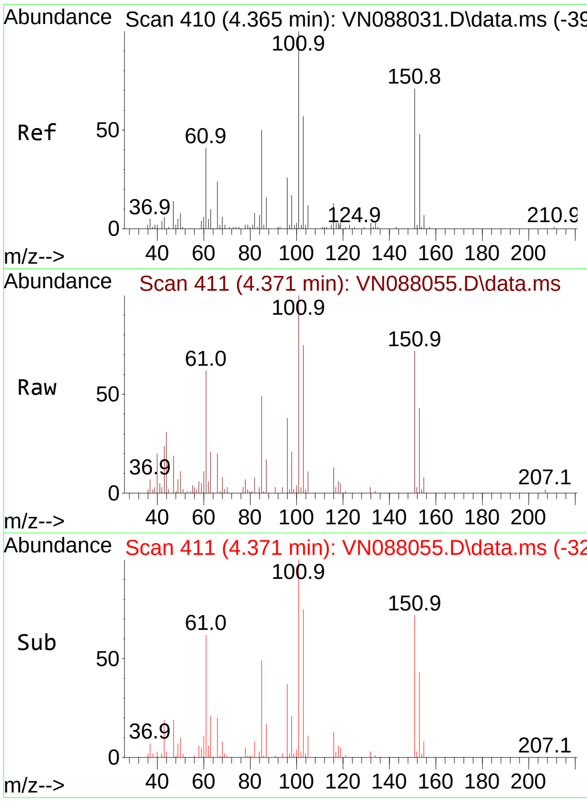

```
#7
Trichlorofluoromethane
Concen:   18.105 ug/l
RT:   3.518 min   Scan# 2(
Delta R.T.   0.012 min
Lab File:    VN088055.D
Acq: 17 Oct 2025   09:29

Tgt Ion:101 Resp:   11459
Ion   Ratio   Lower   Upper
101   100
103   62.3    51.0    76.4
```






```
#8
Diethyl Ether
Concen:   17.544 ug/l
RT:   3.965 min   Scan# 342
Delta R.T.   0.006 min
Lab File:    VN088055.D
Acq: 17 Oct 2025   09:29

Tgt Ion: 74 Resp:    50172
Ion   Ratio   Lower   Upper
 74   100
 45    99.5    20.4   183.8
```





#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.658 ug/l m
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

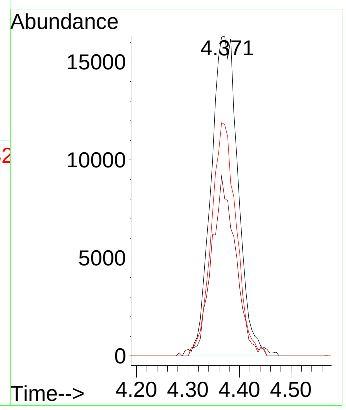
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

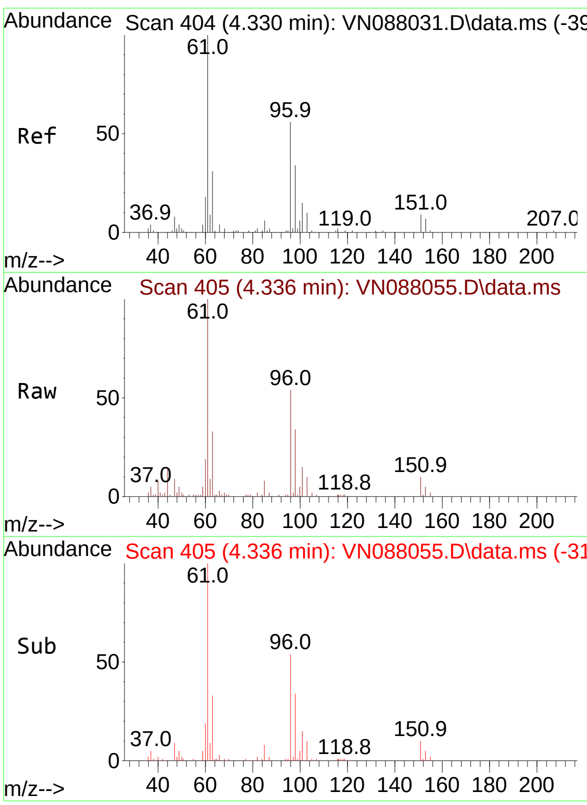
Tgt Ion:101 Resp: 59829

Ion	Ratio	Lower	Upper
101	100		
85	47.5	0.0	103.2
151	66.4	0.0	141.4

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

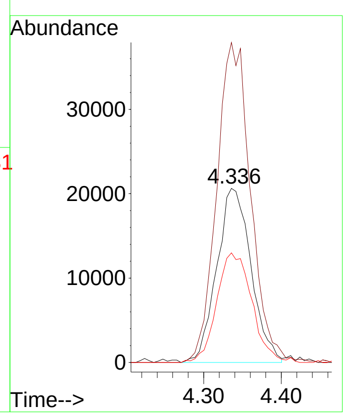


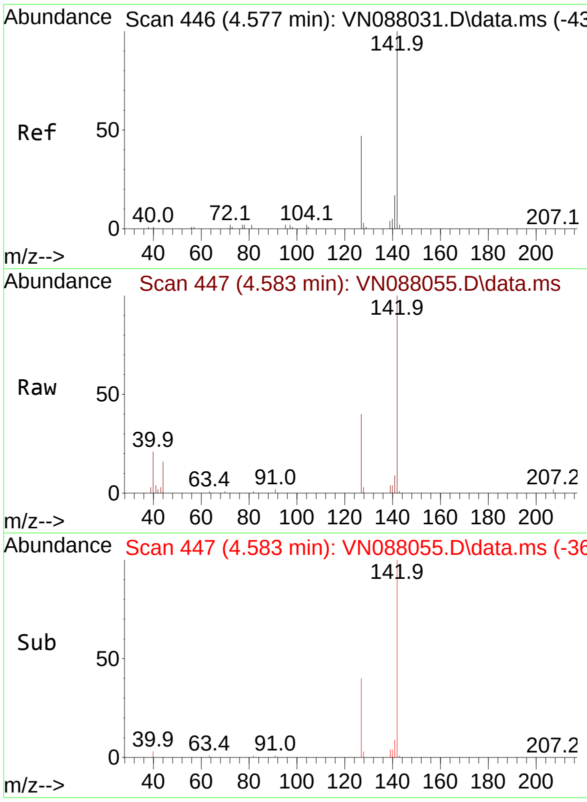


#10
1,1-Dichloroethene
Concen: 17.542 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 96 Resp: 63401

Ion	Ratio	Lower	Upper
96	100		
61	183.9	144.1	216.1
98	63.0	49.0	73.6

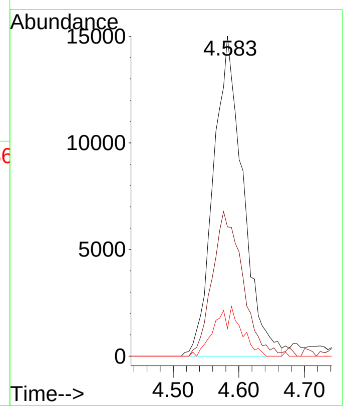




#11
Methyl Iodide
Concen: 14.123 ug/l
RT: 4.583 min   Scan# 44
Delta R.T.   0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025   09:29

Tgt Ion:142 Resp: 4704

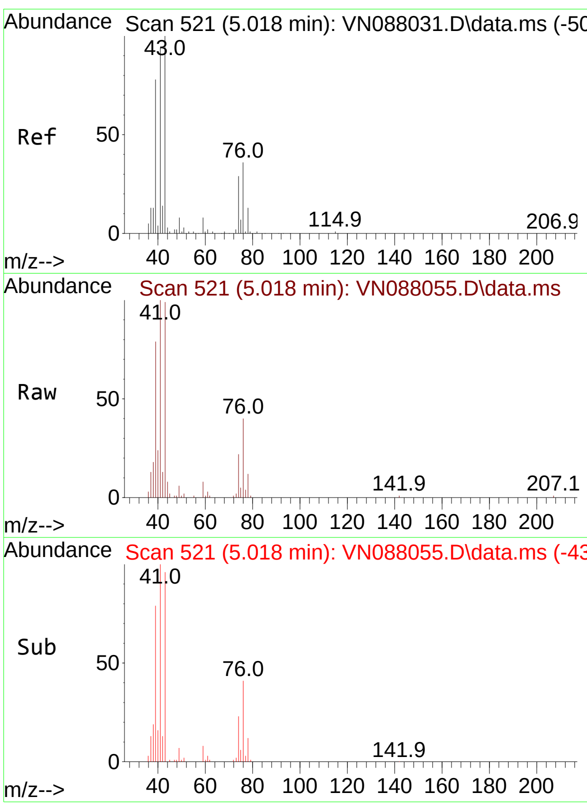
Ion	Ratio	Lower	Upper
142	100		
127	40.4	23.4	70.3
141	8.8	8.8	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED

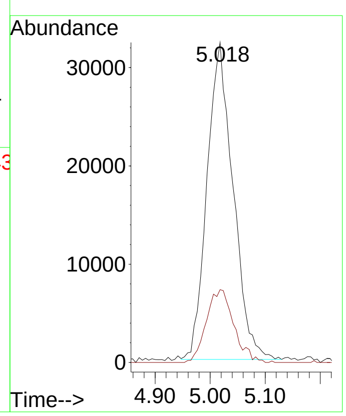
Reviewed By :John Carlone   10/20/2025
Supervised By :Mahesh Dadoda   10/20/2025



#12
Methyl Acetate
Concen: 18.097 ug/l
RT: 5.018 min   Scan# 521
Delta R.T.   0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025   09:29

Tgt Ion: 43 Resp: 106336

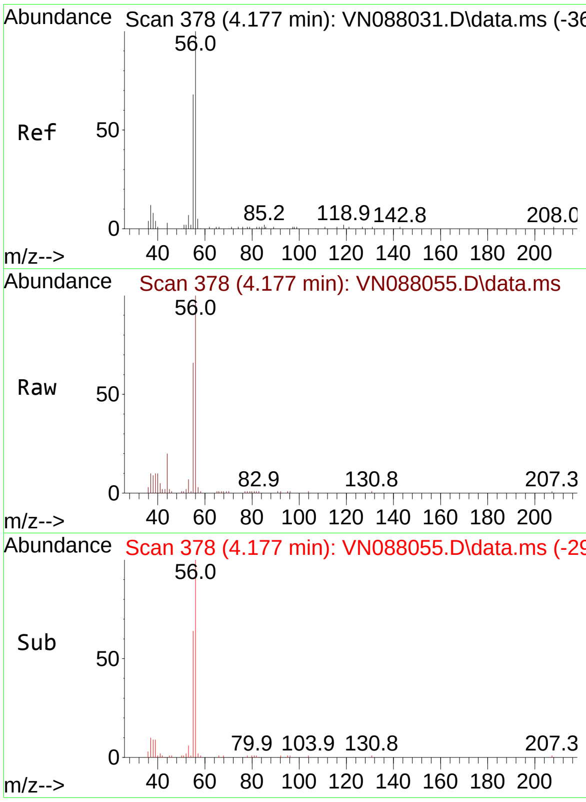
Ion	Ratio	Lower	Upper
43	100		
74	23.0	23.3	34.9#



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

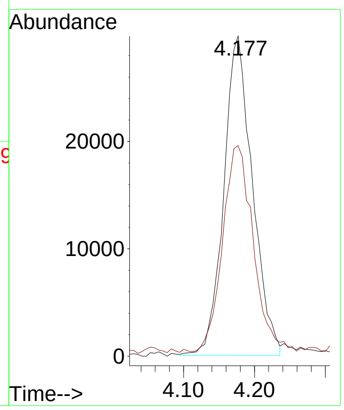
Manual Integrations
APPROVED

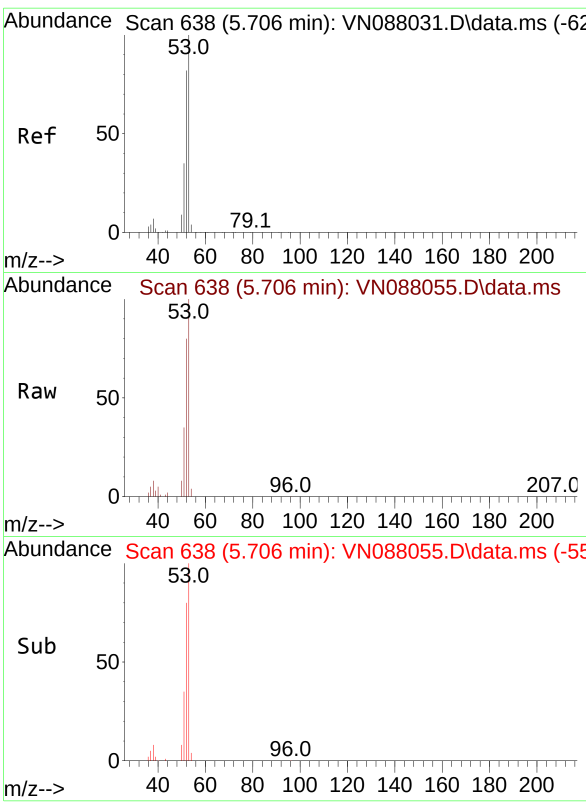
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#13
Acrolein
Concen: 92.008 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

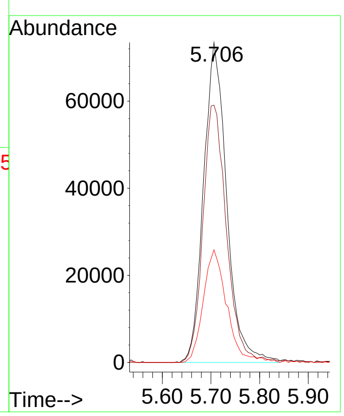
Tgt Ion: 56 Resp: 8366
Ion Ratio Lower Upper
56 100
55 70.3 0.3 0.5





#14
Acrylonitrile
Concen: 85.644 ug/l
RT: 5.706 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 53 Resp: 242849
Ion Ratio Lower Upper
53 100
52 81.0 41.3 124.1
51 35.2 18.0 54.0



Instrument :
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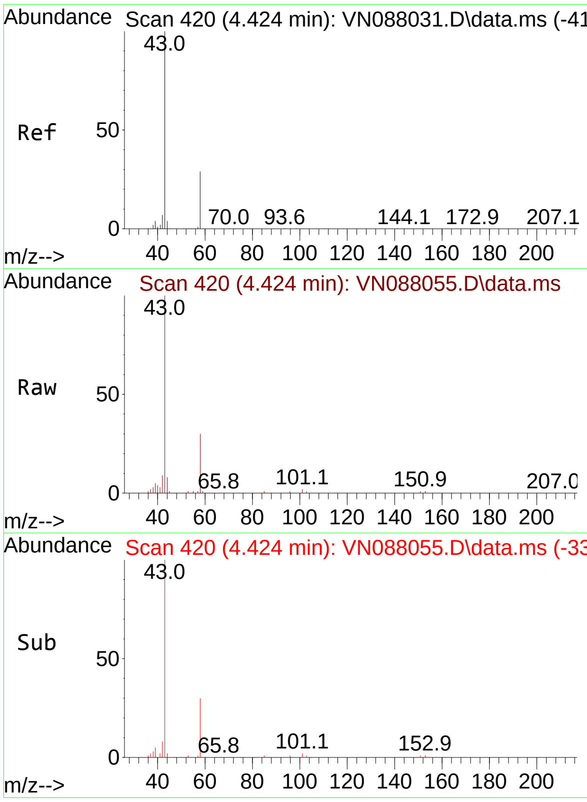
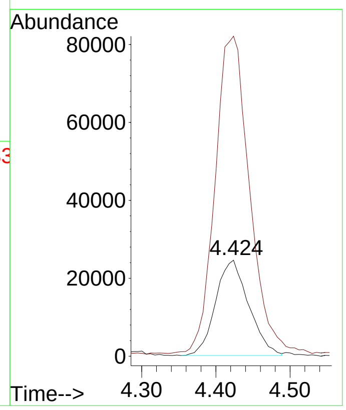
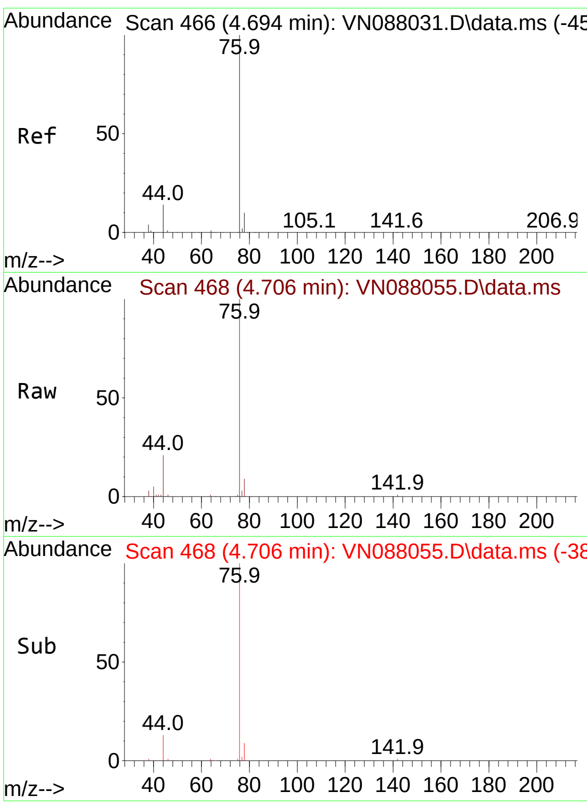


#15
Acetone
Concen: 91.155 ug/l
RT: 4.424 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 58 Resp: 7569

Ion	Ratio	Lower	Upper
58	100		
43	331.0	282.6	424.0

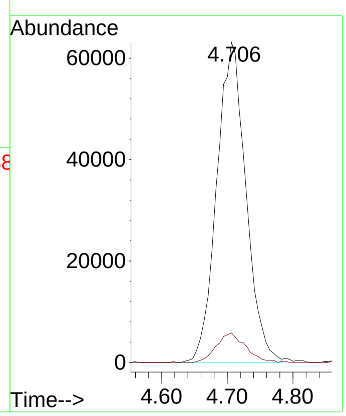


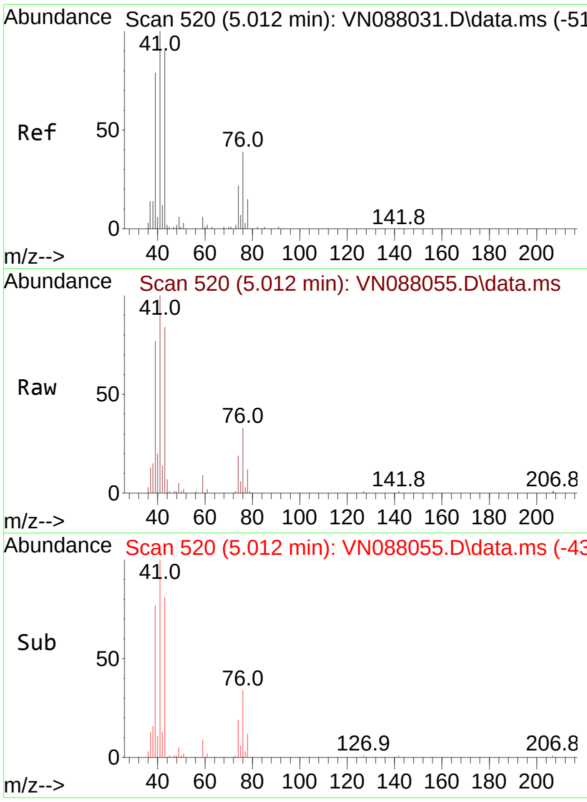


#16
Carbon Disulfide
Concen: 17.201 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.012 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 76 Resp: 194894

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.8	11.8

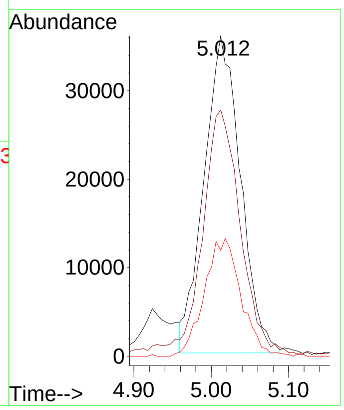




#17
Allyl chloride
Concen: 17.251 ug/l
RT: 5.012 min Scan# 5
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 41 Resp: 117651

Ion	Ratio	Lower	Upper
41	100		
39	75.7	36.4	109.2
76	32.8	18.1	54.1



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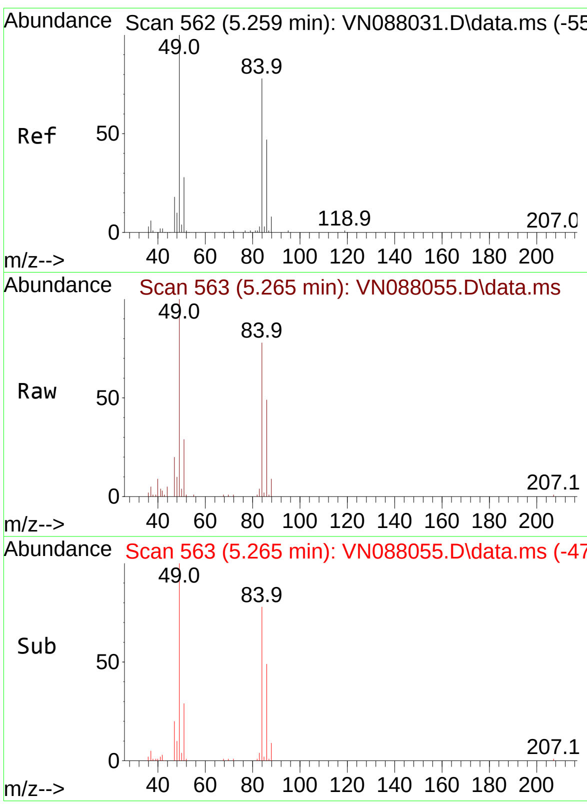
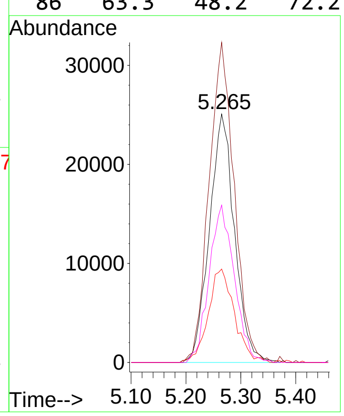


#18
Methylene Chloride
Concen: 17.377 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 84 Resp: 79827

Ion	Ratio	Lower	Upper
84	100		
49	128.8	102.6	153.8
51	37.6	28.6	42.8
86	63.3	48.2	72.2



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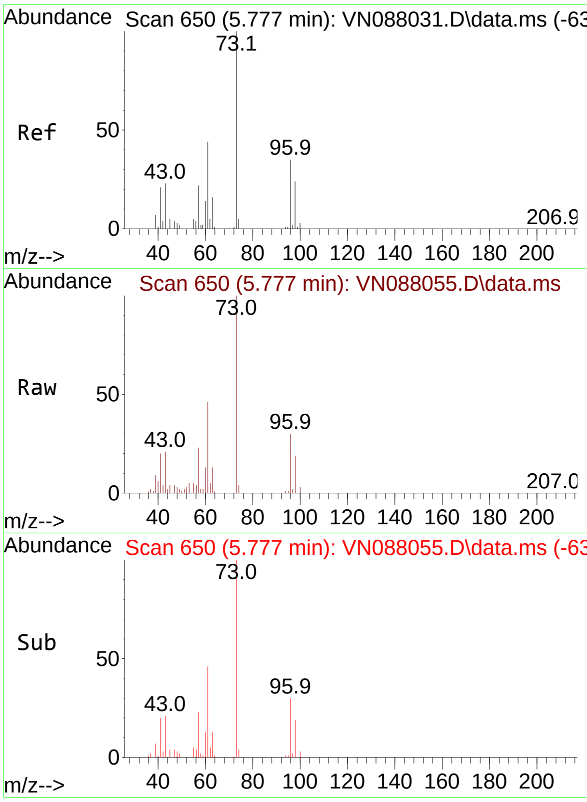
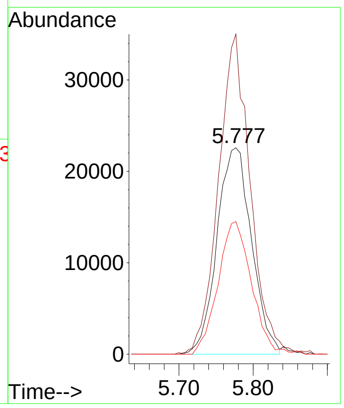
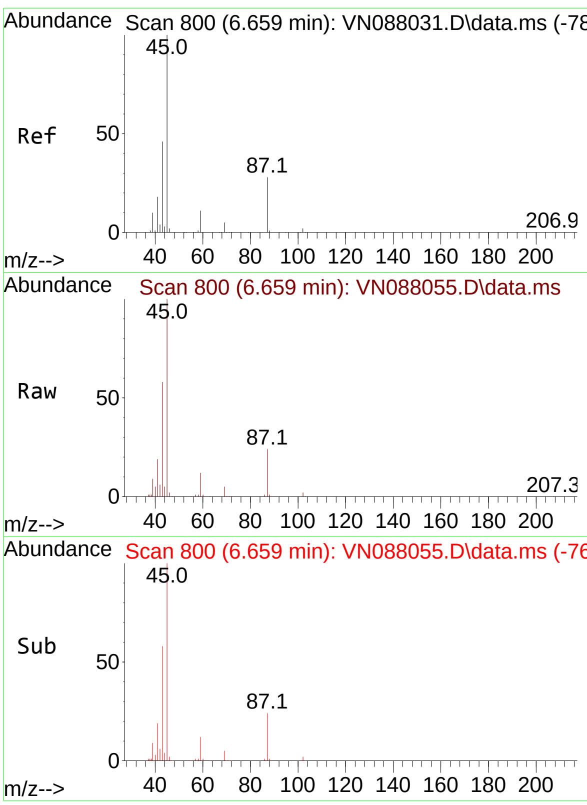


#19
trans-1,2-Dichloroethene
Concen: 17.471 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 96 Resp: 7300

Ion	Ratio	Lower	Upper
96	100		
61	154.3	100.6	151.0
98	64.3	54.0	81.0

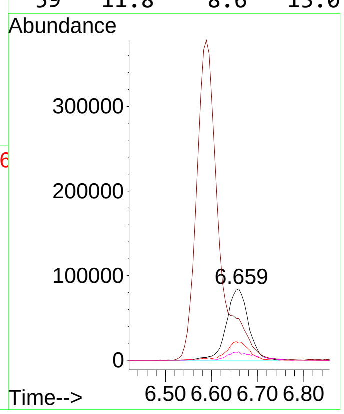




#20
Diisopropyl ether
Concen: 18.007 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 45 Resp: 279601

Ion	Ratio	Lower	Upper
45	100		
43	56.6	46.1	69.1
87	24.0	22.3	33.5
59	11.8	8.6	13.0



Instrument :
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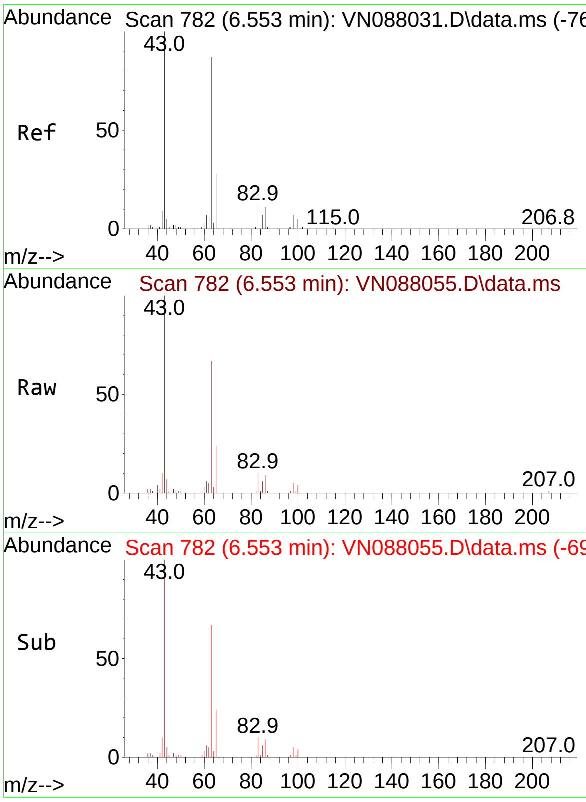
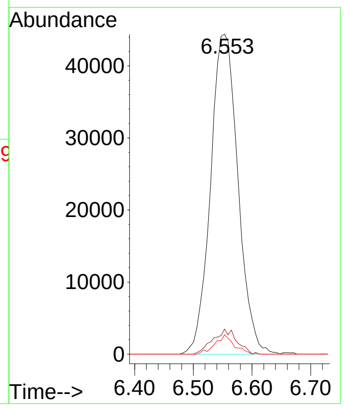
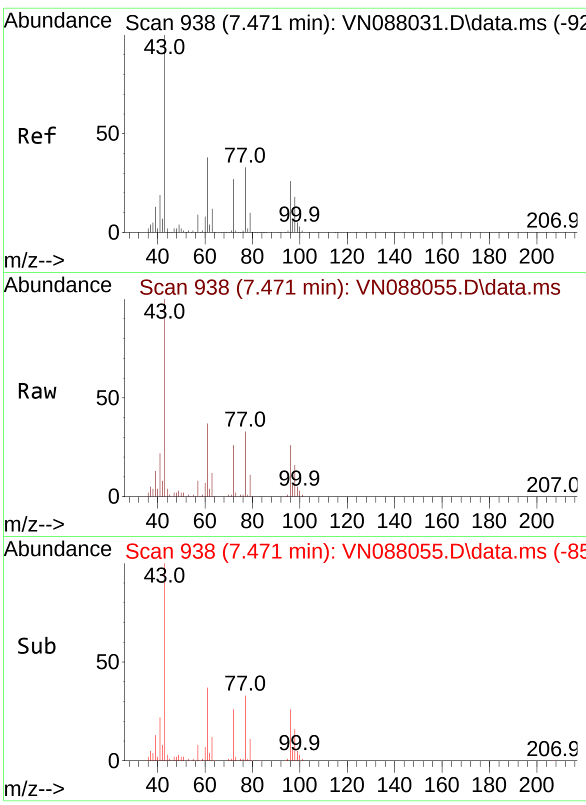


#21
1,1-Dichloroethane
Concen: 17.877 ug/l
RT: 6.553 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 63 Resp: 1445

Ion	Ratio	Lower	Upper
63	100		
98	7.8	4.3	12.8
100	6.0	2.6	8.0

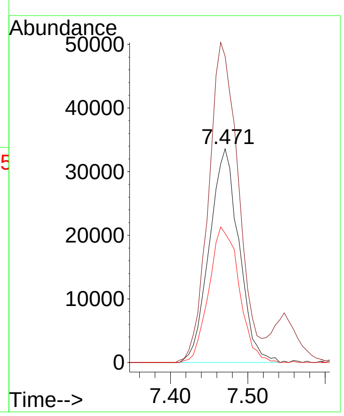


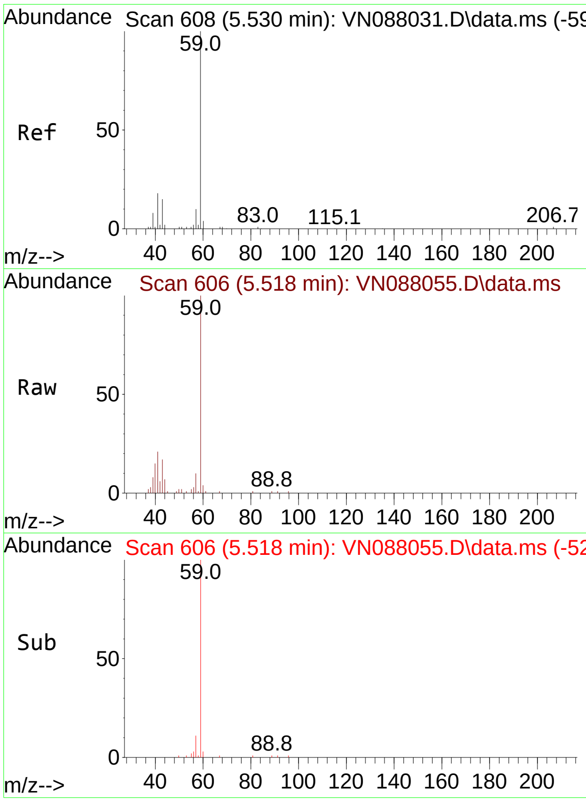


#22
cis-1,2-Dichloroethene
Concen: 17.125 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 96 Resp: 89581

Ion	Ratio	Lower	Upper
96	100		
61	150.7	117.0	175.6
98	64.6	52.6	79.0





#23
tert-Butyl Alcohol
Concen: 77.626 ug/l
RT: 5.518 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 59 Resp: 8827

Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.0	0.0

Instrument :
MSVOA_N
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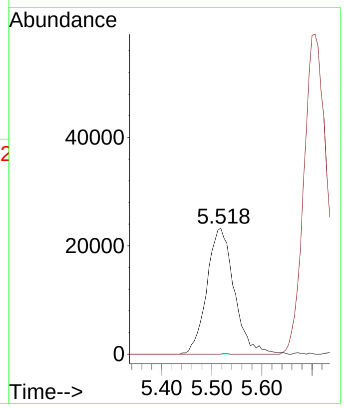
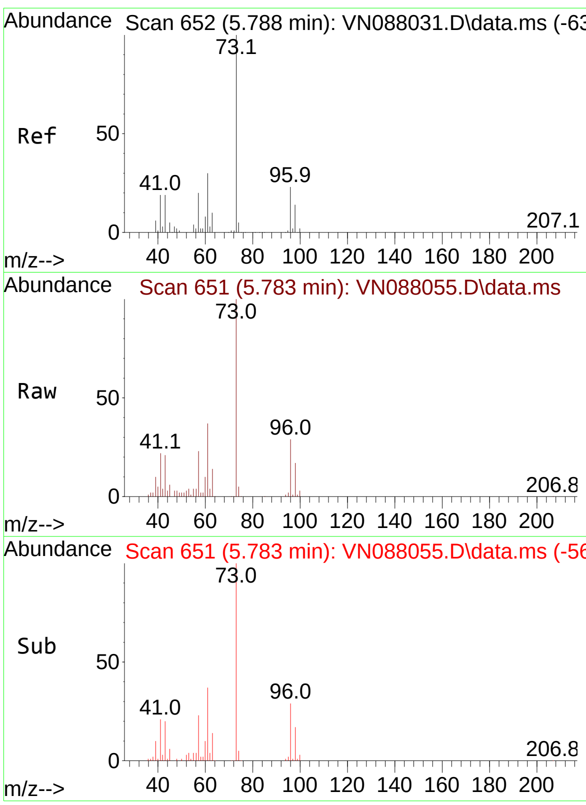
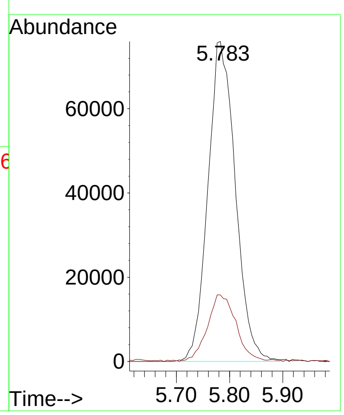




#24
Methyl tert-Butyl Ether
Concen: 17.486 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 73 Resp: 272797

Ion	Ratio	Lower	Upper
73	100		
43	20.9	17.0	25.4



Instrument :
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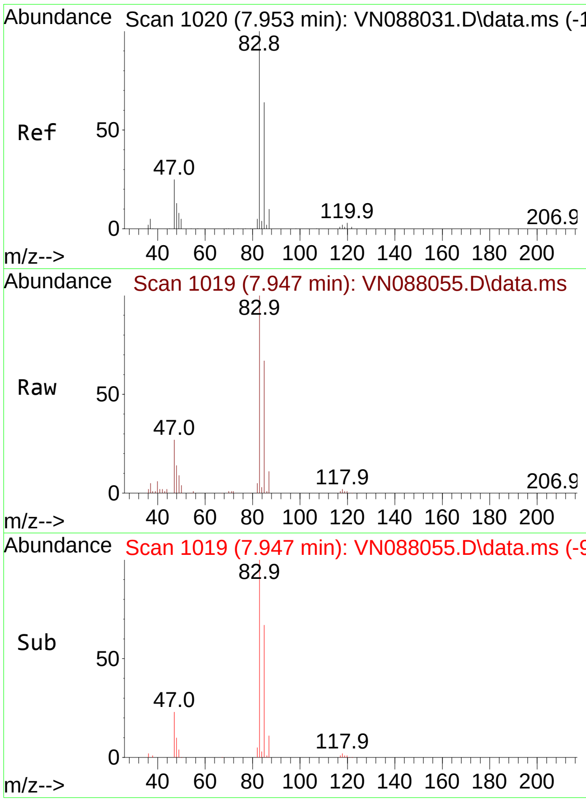
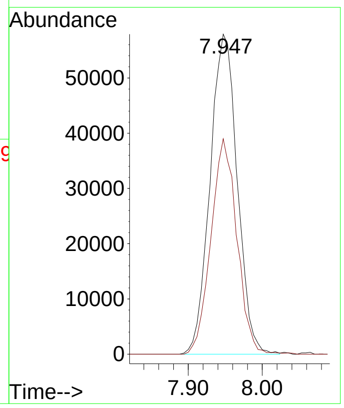
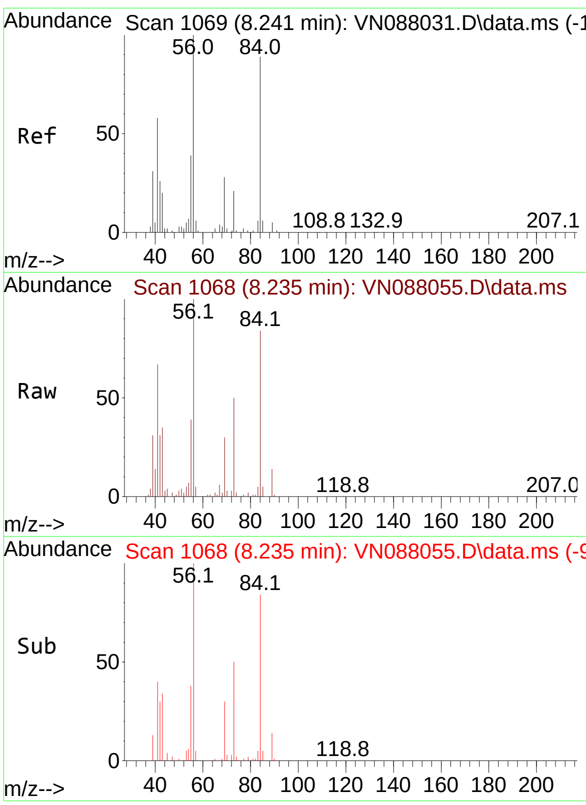
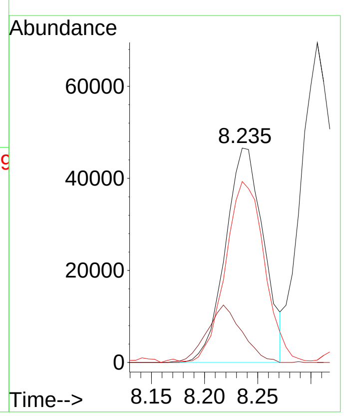



```
#25
Chloroform
Concen:   17.747 ug/l
RT:   7.947 min  Scan# 1(
Delta R.T.  -0.006 min
Lab File:   VN088055.D
Acq: 17 Oct 2025  09:29

Tgt Ion: 83 Resp:  14803
Ion  Ratio  Lower  Upper
 83  100
 85   67.3   50.9   76.3
```






```
#26
Cyclohexane
Concen:   17.439 ug/l
RT:   8.235 min  Scan# 1068
Delta R.T.  -0.006 min
Lab File:   VN088055.D
Acq: 17 Oct 2025  09:29

Tgt Ion: 56 Resp:  116788
Ion  Ratio  Lower  Upper
 56  100
 89   24.5    8.6   12.8#
 84   86.3   69.6  104.4
```



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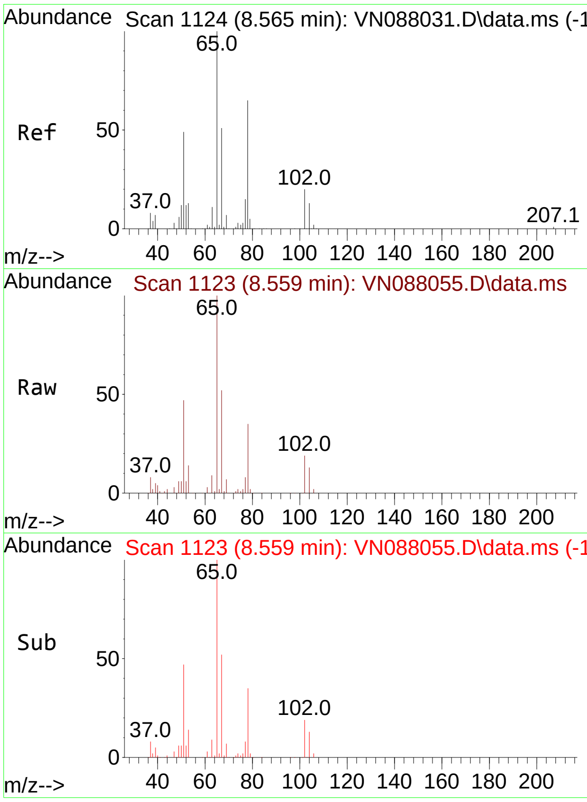
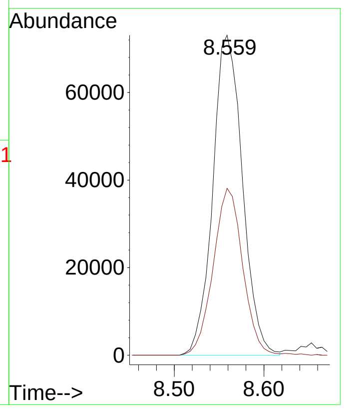
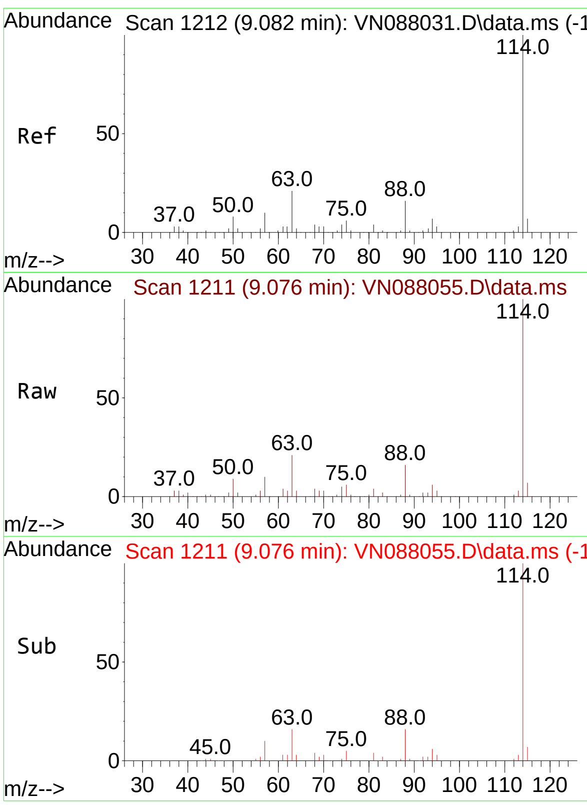


#27
1,2-Dichloroethane-d4
Concen: 31.393 ug/l
RT: 8.559 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 65 Resp: 16804

Ion	Ratio	Lower	Upper
65	100		
67	51.7	41.9	62.9

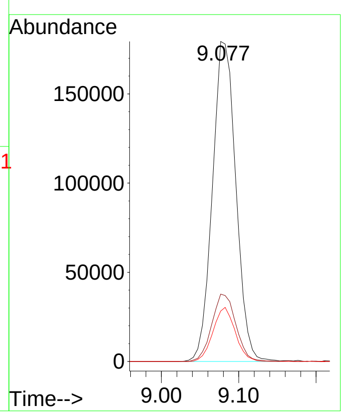




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.076 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:114 Resp: 379209

Ion	Ratio	Lower	Upper
114	100		
63	21.6	16.6	25.0
88	16.0	12.6	18.8



Instrument :
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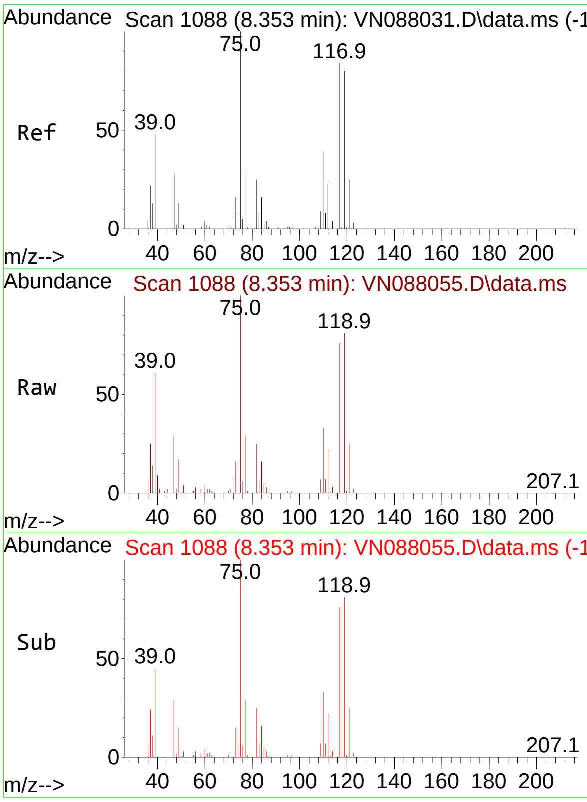
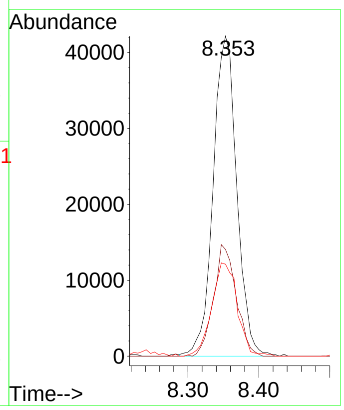
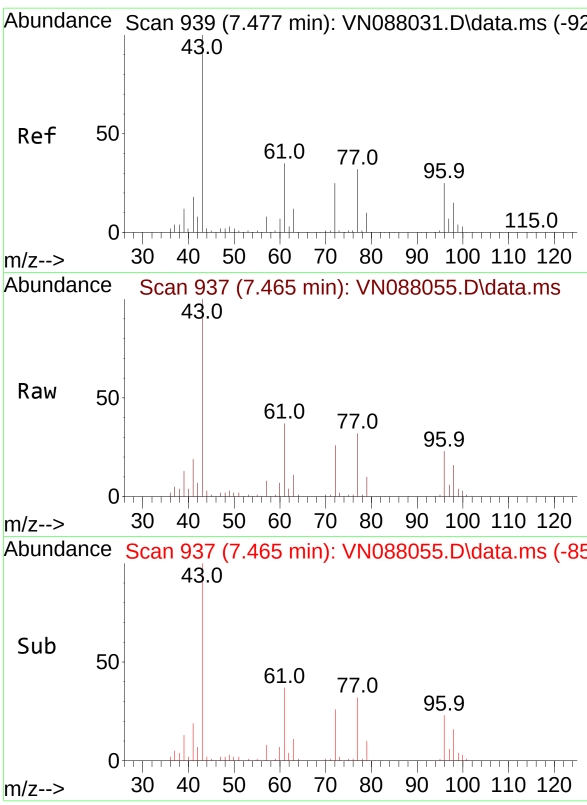


#29
1,1-Dichloropropene
Concen: 17.962 ug/l
RT: 8.353 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 75 Resp: 97631

Ion	Ratio	Lower	Upper
75	100		
110	33.4	0.0	72.2
77	31.3	0.0	60.6

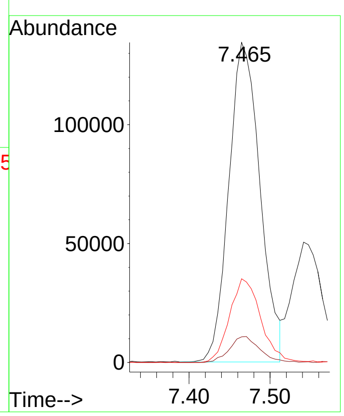




#30
2-Butanone
Concen: 89.786 ug/l
RT: 7.465 min Scan# 937
Delta R.T. -0.012 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 43 Resp: 359946

Ion	Ratio	Lower	Upper
43	100		
57	7.8	6.5	9.7
72	26.2	21.4	32.2



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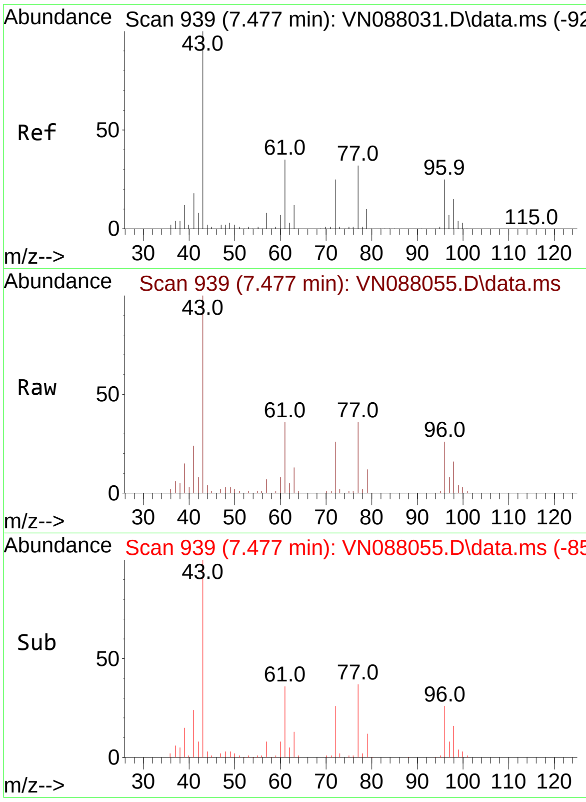
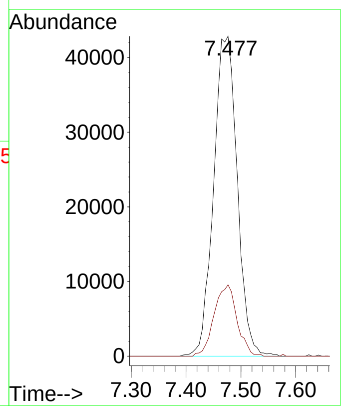
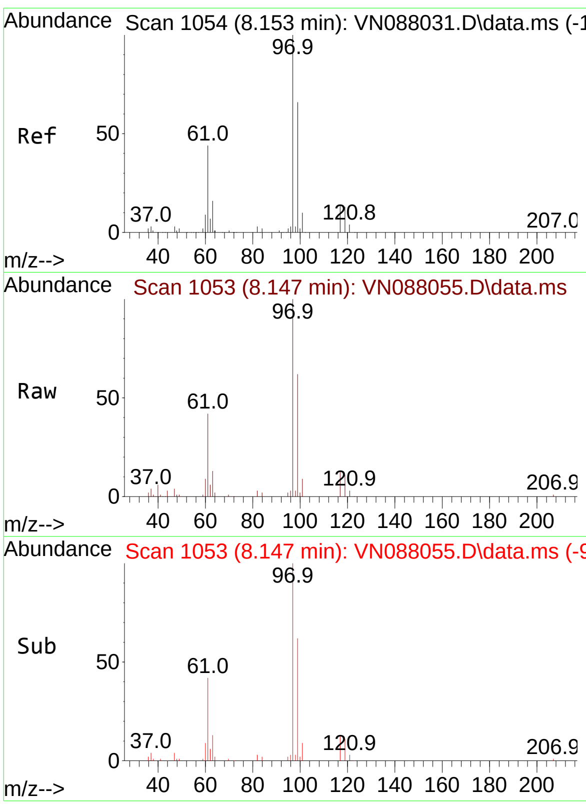


#31
2,2-Dichloropropane
Concen: 18.334 ug/l
RT: 7.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 77 Resp: 12840

Ion	Ratio	Lower	Upper
77	100		
97	21.5	17.8	26.8

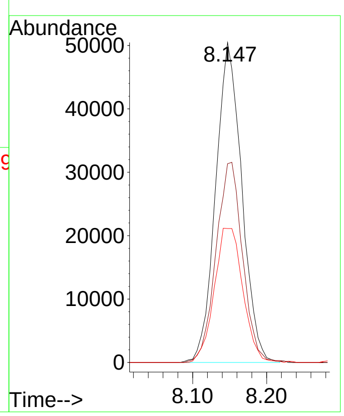




#32
1,1,1-Trichloroethane
Concen: 18.239 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 97 Resp: 123879

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.4	77.2
61	46.0	34.7	52.1



Instrument :
MSVOA_N
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VSTDCCC020

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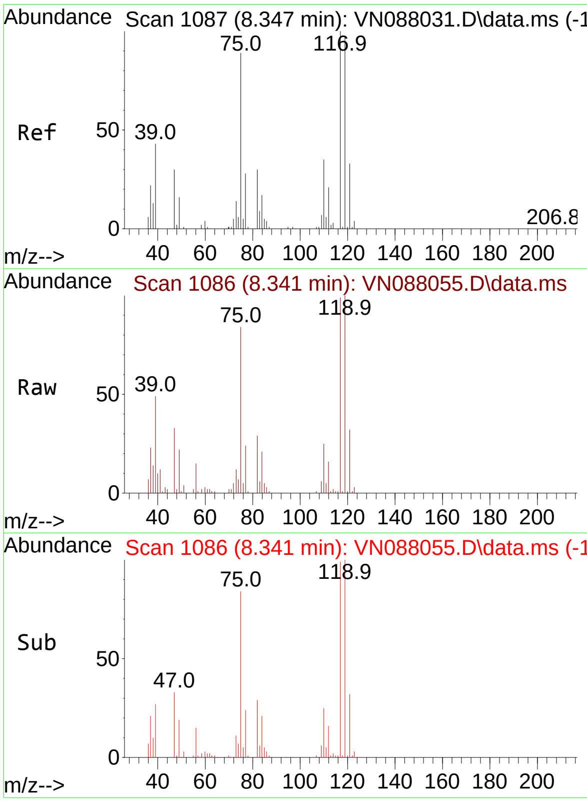
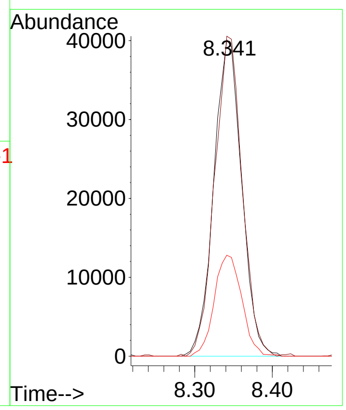
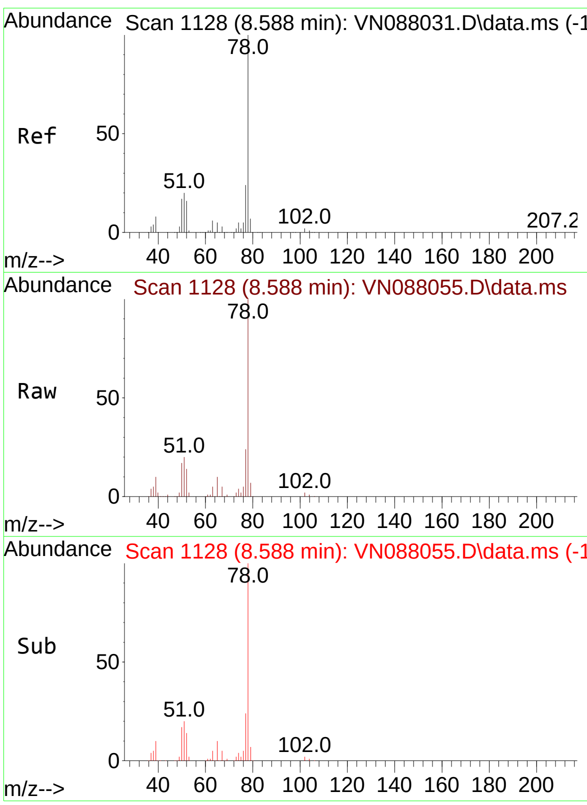
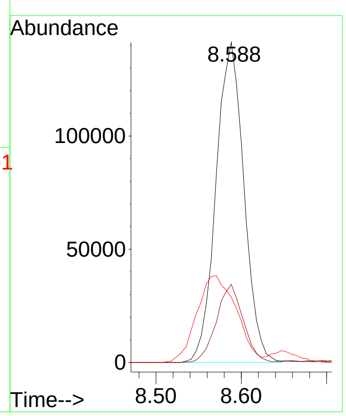



```
#33
Carbon Tetrachloride
Concen:   17.672 ug/l
RT:   8.341 min   Scan# 1(
Delta R.T.   -0.006 min
Lab File:    VN088055.D
Acq: 17 Oct 2025   09:29

Tgt Ion:117 Resp:  10053
Ion  Ratio  Lower  Upper
117  100
119  100.7   77.9  116.9
121   31.9   26.4   39.6
```






```
#34
Benzene
Concen:   17.882 ug/l
RT:   8.588 min   Scan# 1128
Delta R.T.   0.000 min
Lab File:    VN088055.D
Acq: 17 Oct 2025   09:29

Tgt Ion: 78 Resp:   322407
Ion  Ratio  Lower  Upper
 78  100
 77   24.4   18.9   28.3
 51   17.4   15.6   23.4
```



Sample Results: **VN088055.D**

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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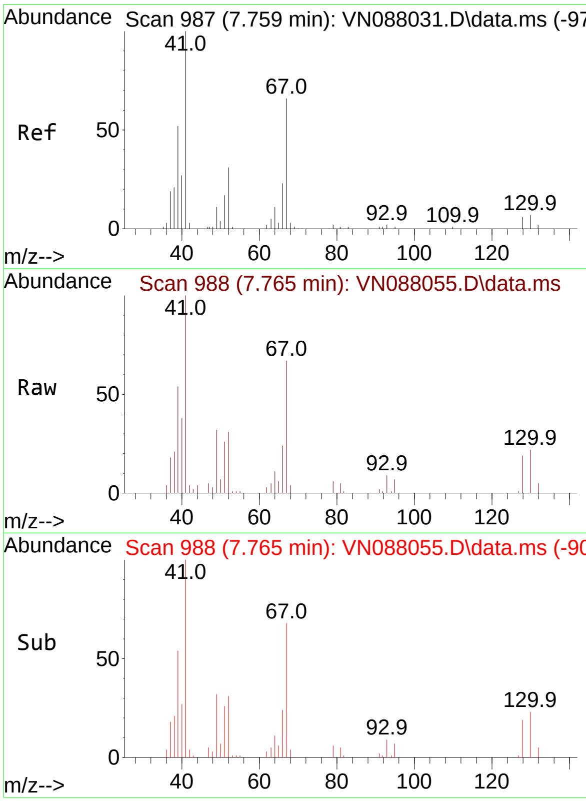
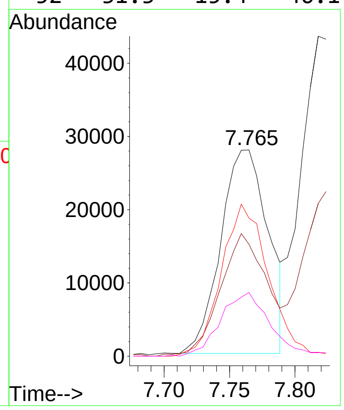
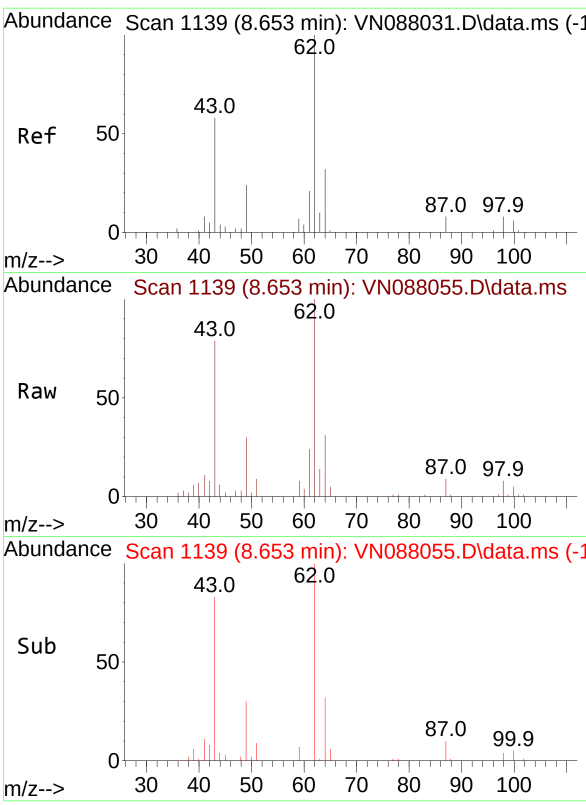


#35
Methacrylonitrile
Concen: 16.643 ug/l
RT: 7.765 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 41 Resp: 7016

Ion	Ratio	Lower	Upper
41	100		
39	53.7	26.1	78.3
67	66.9	33.1	99.2
52	31.3	15.4	46.1

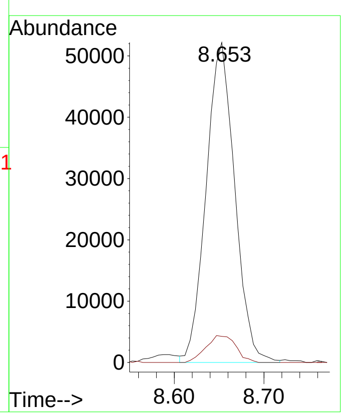




#36
1,2-Dichloroethane
Concen: 18.531 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 62 Resp: 115989

Ion	Ratio	Lower	Upper
62	100		
98	8.8	7.8	11.6



Instrument :
MSVOA_N
ClientSampleId :
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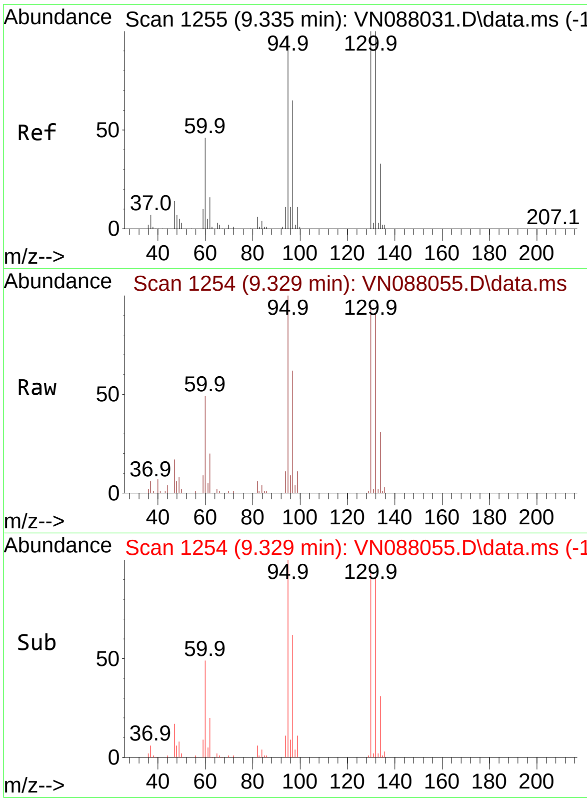
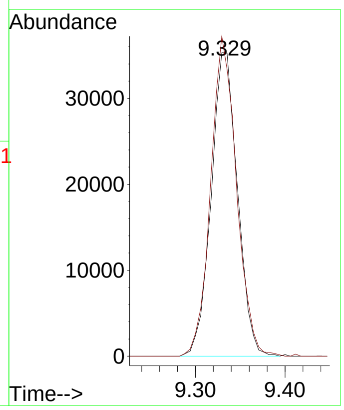
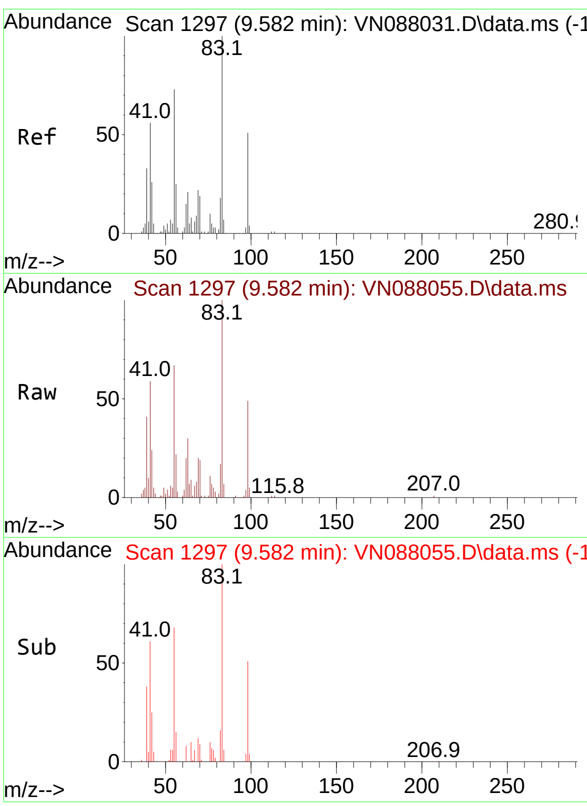


#37
Trichloroethene
Concen: 16.902 ug/l
RT: 9.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:130 Resp: 7219

Ion	Ratio	Lower	Upper
130	100		
95	105.4	78.7	118.1

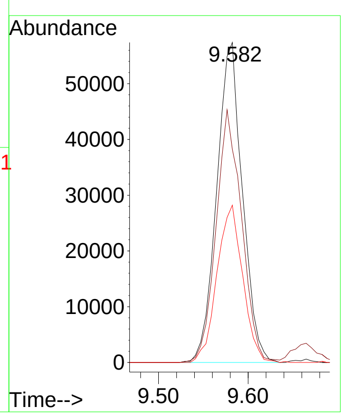




#38
Methylcyclohexane
Concen: 17.044 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 83 Resp: 114412

Ion	Ratio	Lower	Upper
83	100		
55	78.7	37.3	111.9
98	49.2	25.4	76.0



Instrument :
MSVOA_N
ClientSampleId :
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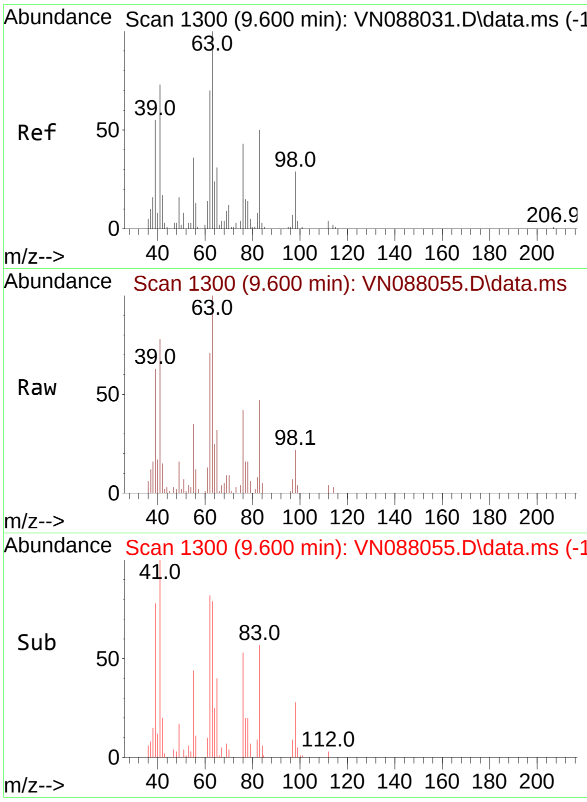
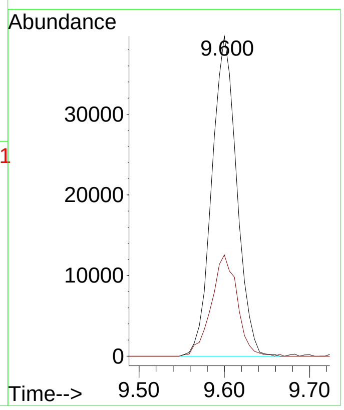
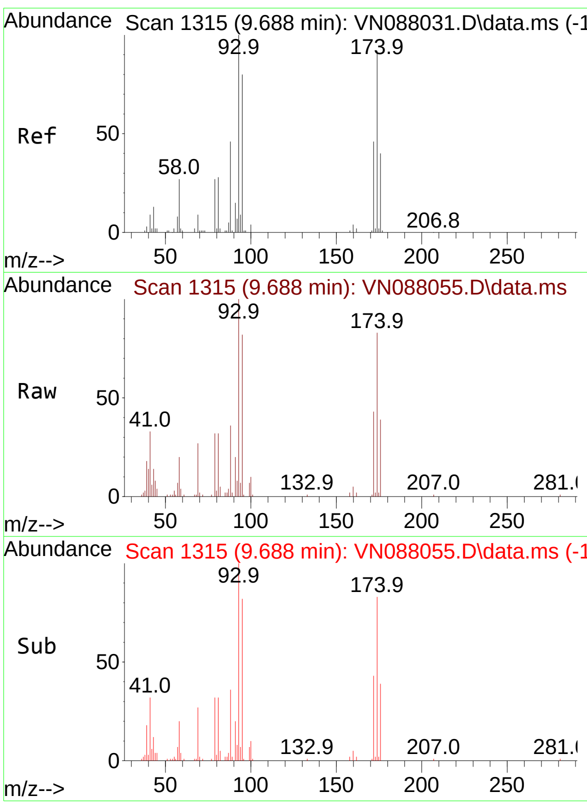


#39
1,2-Dichloropropane
Concen: 17.791 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 63 Resp: 8042

Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.0	37.6

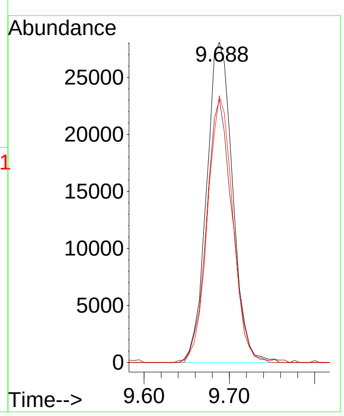




#40
Dibromomethane
Concen: 18.115 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 93 Resp: 59612

Ion	Ratio	Lower	Upper
93	100		
95	80.7	0.0	158.6
174	80.7	0.0	180.8



Instrument :
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ClientSampleId :
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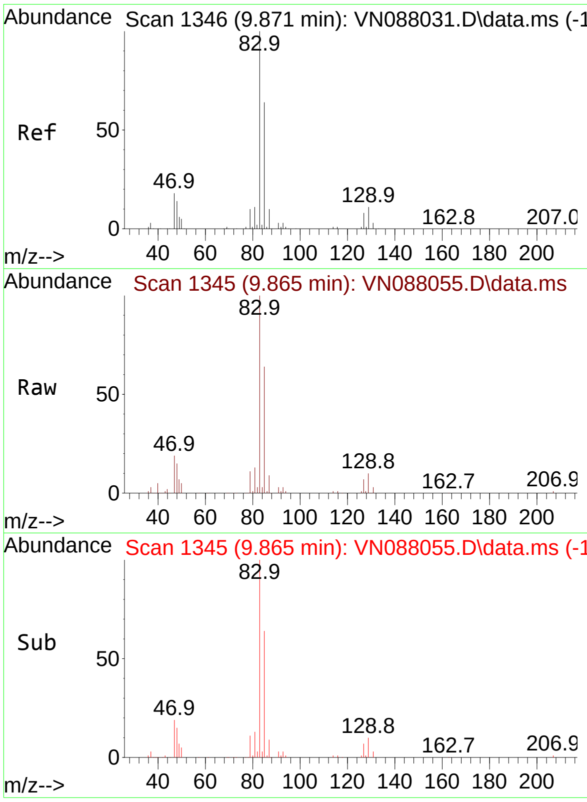
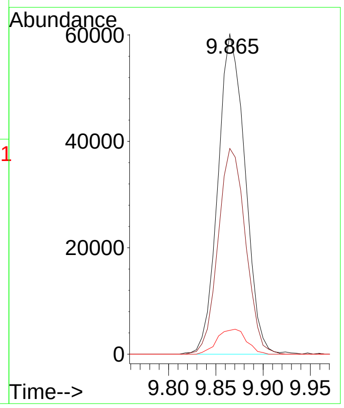
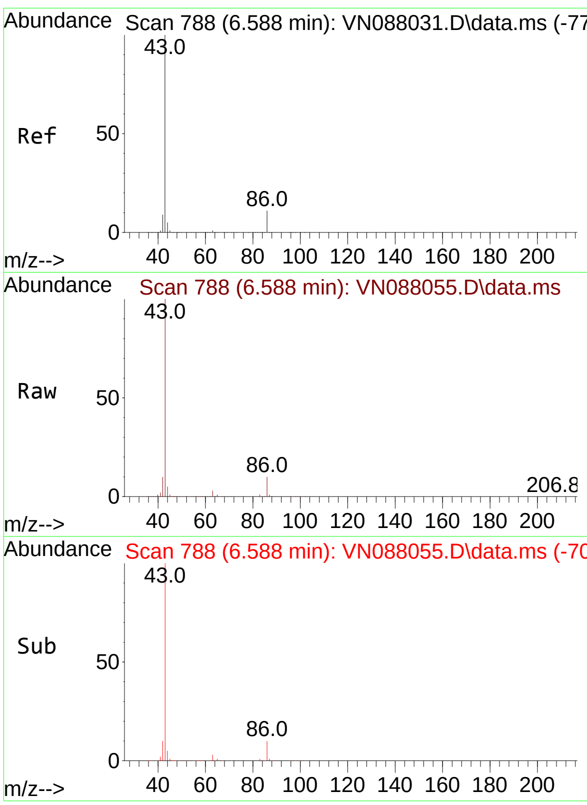


#41
Bromodichloromethane
Concen: 17.860 ug/l
RT: 9.865 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 83 Resp: 12003

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.0	76.4
127	7.5	6.1	9.1

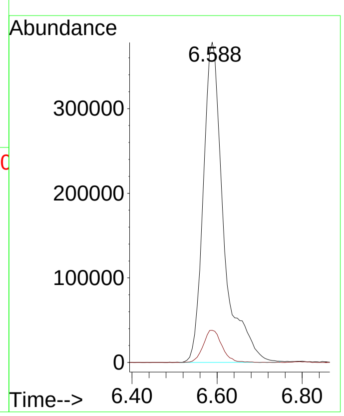


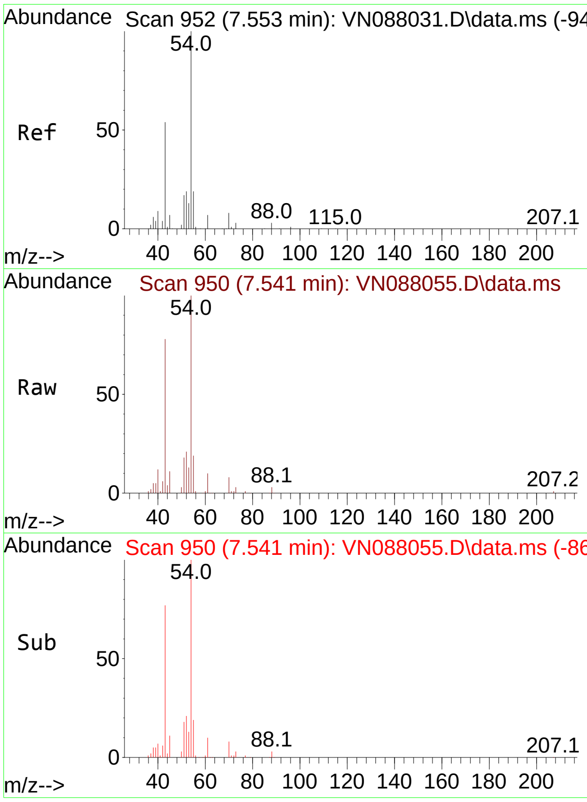


#42
Vinyl Acetate
Concen: 92.397 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 43 Resp: 1261882

Ion	Ratio	Lower	Upper
43	100		
86	9.1	8.4	12.6





#43
Ethyl Acetate
Concen: 18.273 ug/l m
RT: 7.541 min Scan# 9
Delta R.T. -0.012 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 43 Resp: 14081

Ion	Ratio	Lower	Upper
43	100		
45	13.6	10.2	15.4

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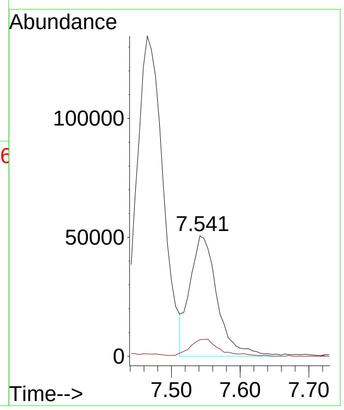
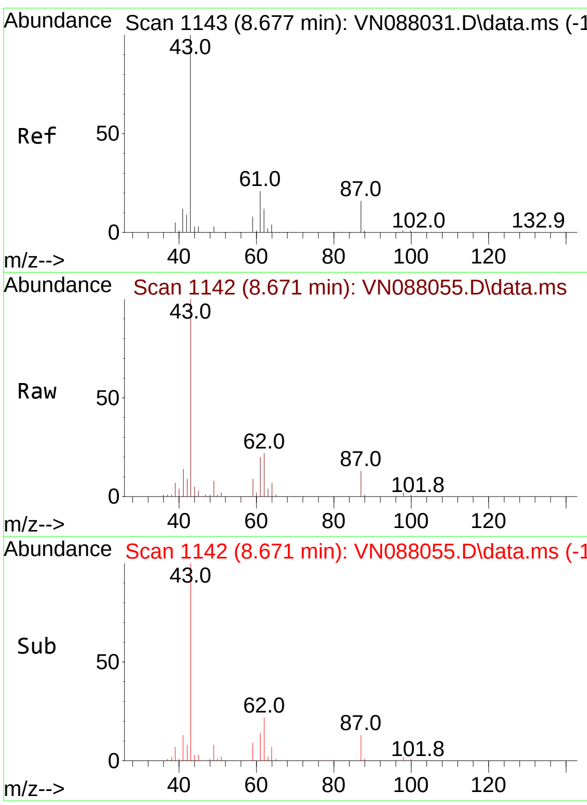
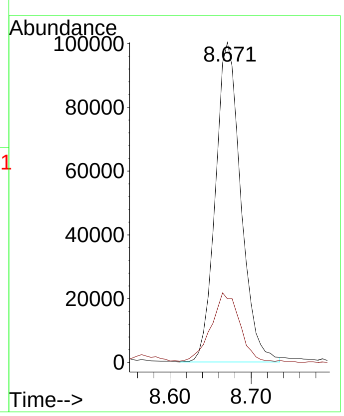


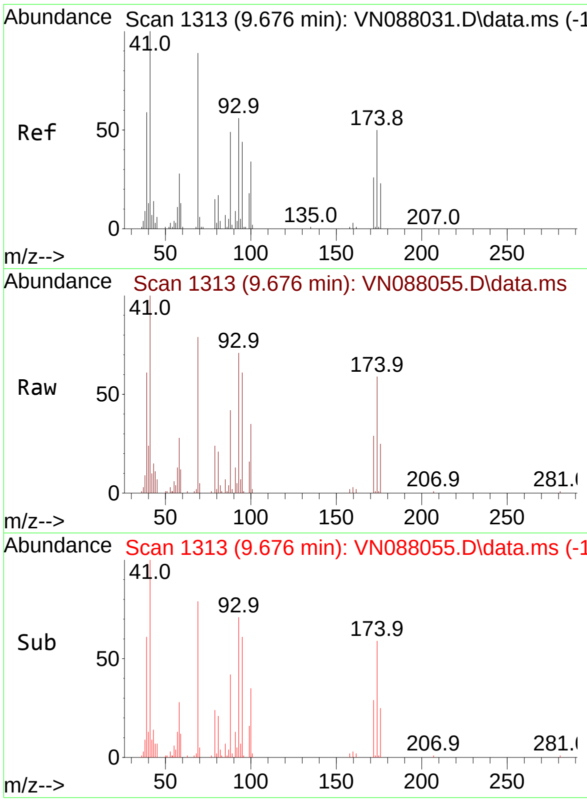


#44
Isopropyl Acetate
Concen: 17.358 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 43 Resp: 218478

Ion	Ratio	Lower	Upper
43	100		
61	24.8	18.7	28.1





#45
1,4-Dioxane
Concen: 299.765 ug/l
RT: 9.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Instrument : MSVOA_N
ClientSampleId : VSTDCCC020

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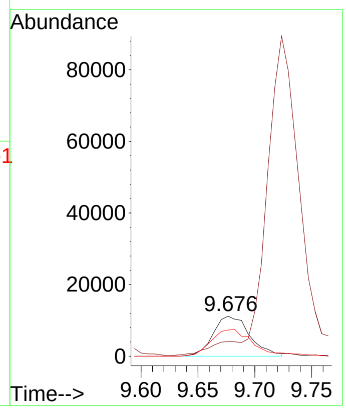
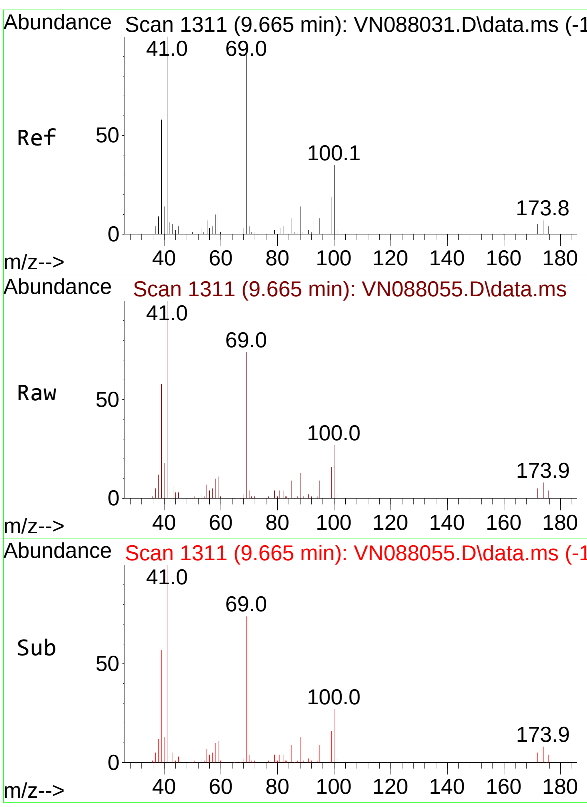
Tgt Ion: 88 Resp: 2509

Ion	Ratio	Lower	Upper
88	100		
43	32.2	18.6	27.8#
58	77.1	57.4	86.2

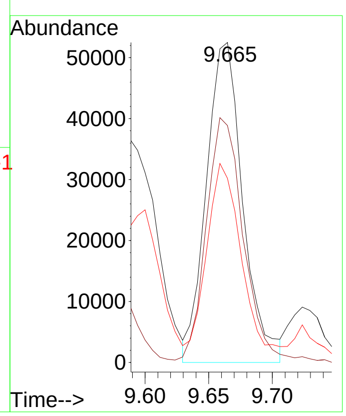




#46
Methyl methacrylate
Concen: 18.908 ug/l m
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 41 Resp: 104805

Ion	Ratio	Lower	Upper
41	100		
69	74.1	44.9	134.7
39	57.5	30.3	90.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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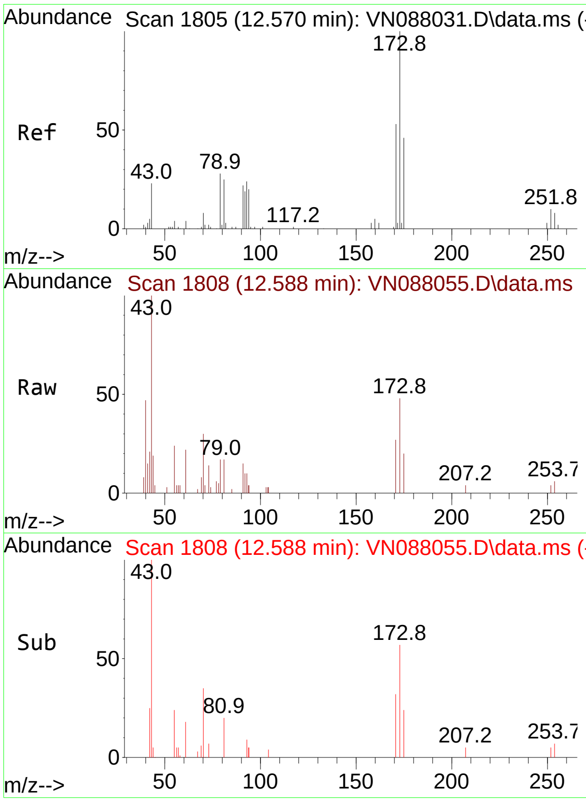
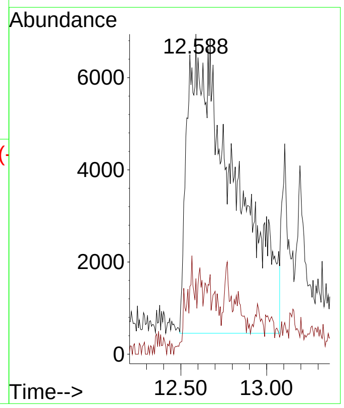
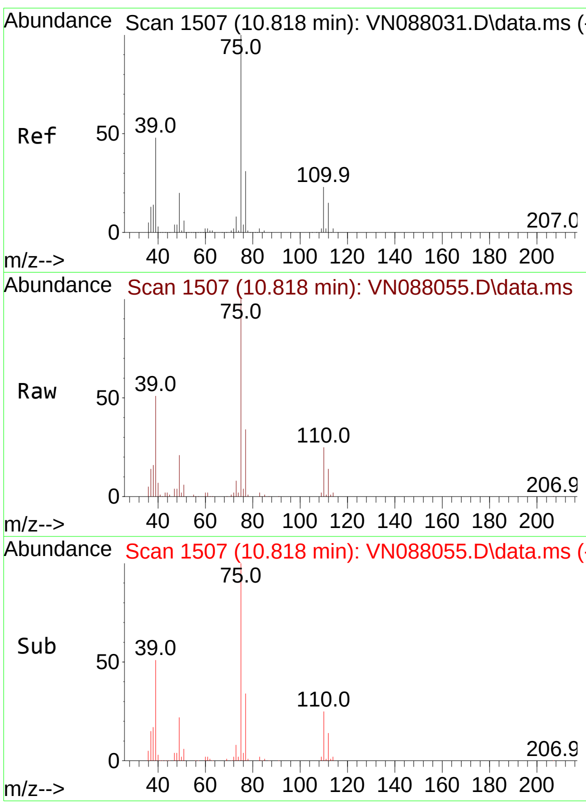


#47
n-amyl Acetate
Concen: 20.365 ug/l m
RT: 12.588 min Scan# 1
Delta R.T. 0.018 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 43 Resp: 12149

Ion	Ratio	Lower	Upper
43	100		
55	0.4	0.6	0.8

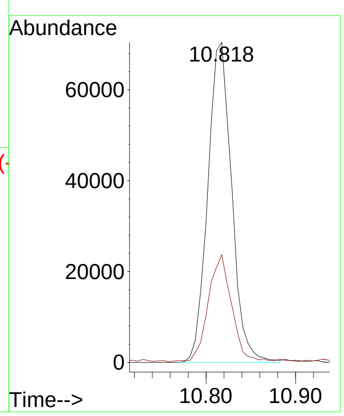


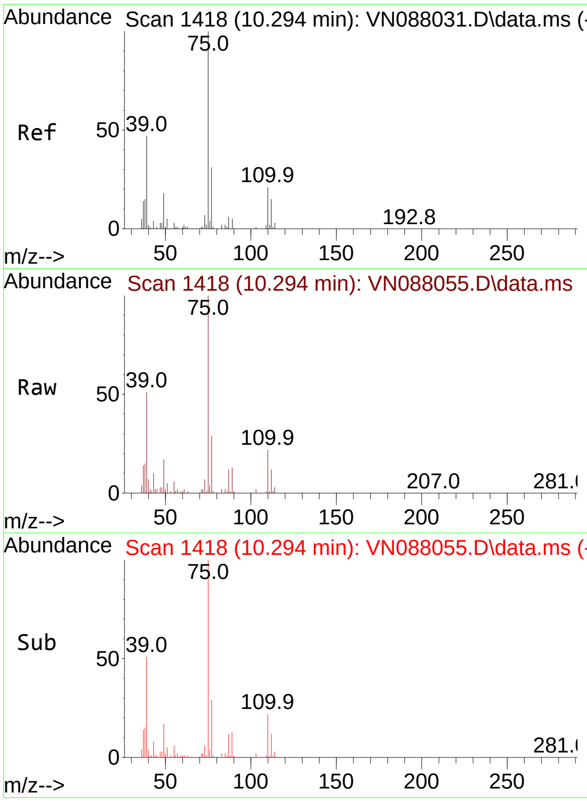


#48
t-1,3-Dichloropropene
Concen: 17.526 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 75 Resp: 130980

Ion	Ratio	Lower	Upper
75	100		
77	33.1	24.5	36.7





#49
cis-1,3-Dichloropropene
Concen: 17.833 ug/l
RT: 10.294 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 75 Resp: 13901

Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.0	37.4
39	50.9	37.4	56.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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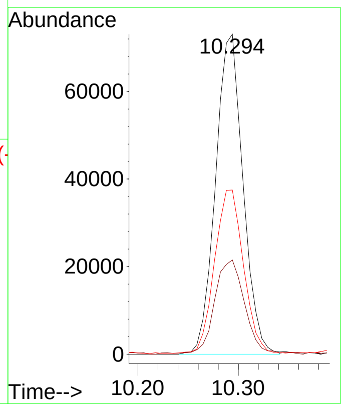
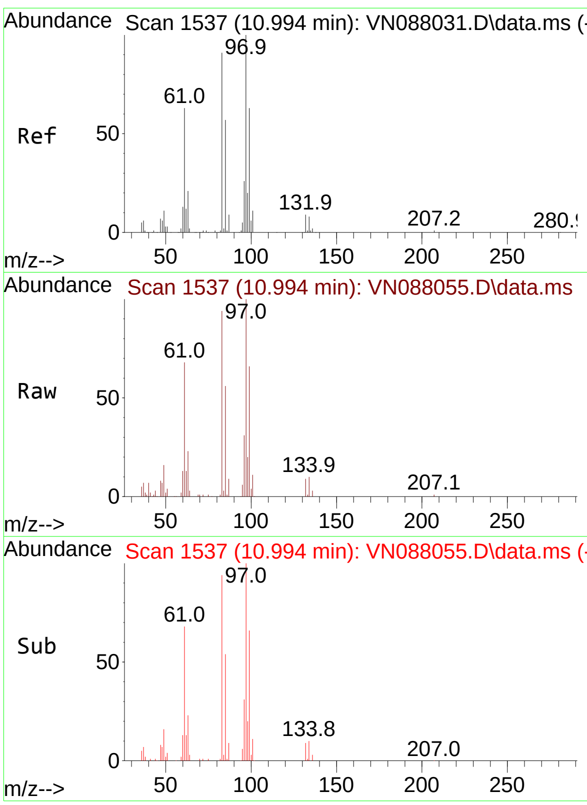
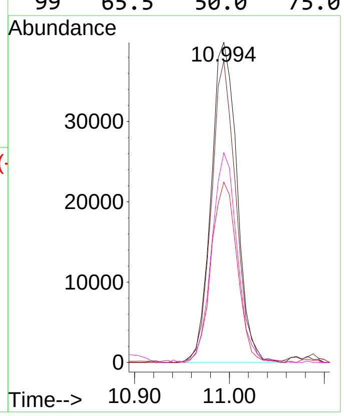




#50
1,1,2-Trichloroethane
Concen: 17.333 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 97 Resp: 75536

Ion	Ratio	Lower	Upper
97	100		
83	94.3	72.5	108.7
85	55.9	45.5	68.3
99	65.5	50.0	75.0



Instrument :
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ClientSampleId :
VSTDCCC020

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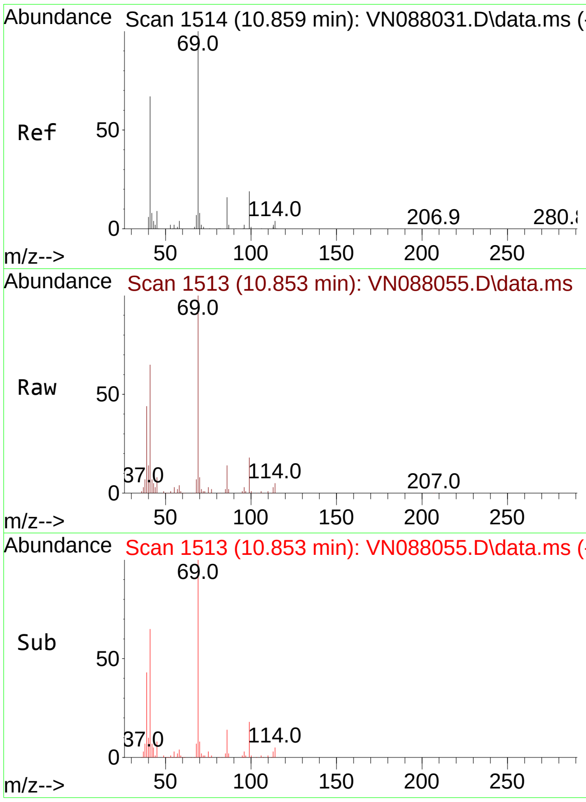
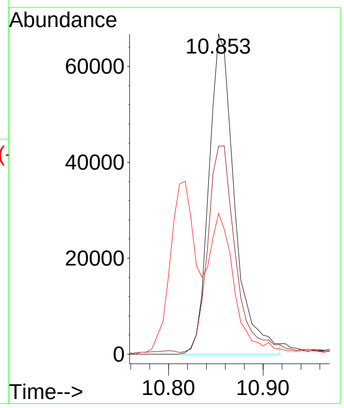
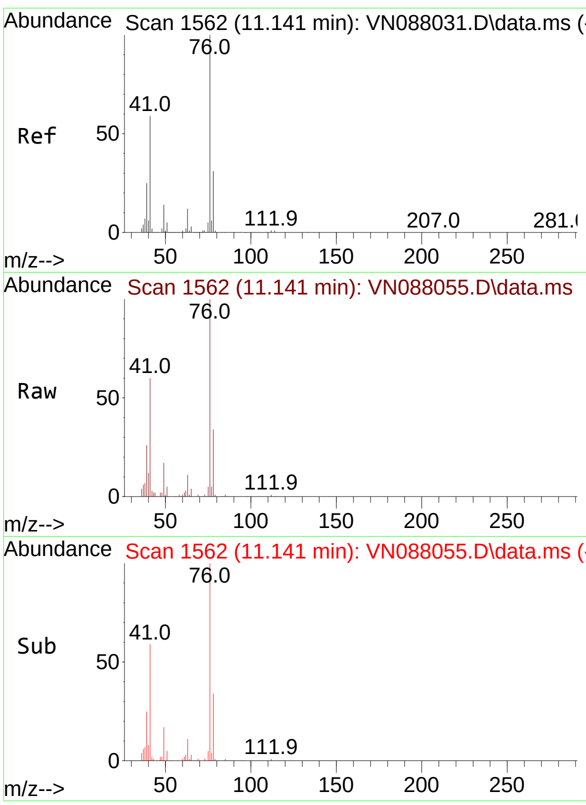


#51
Ethyl methacrylate
Concen: 17.140 ug/l
RT: 10.853 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 69 Resp: 12640

Ion	Ratio	Lower	Upper
69	100		
41	64.5	33.3	99.8
39	42.3	20.3	61.0

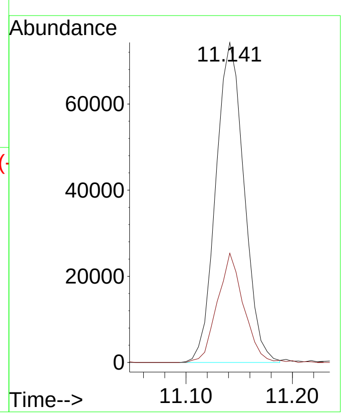


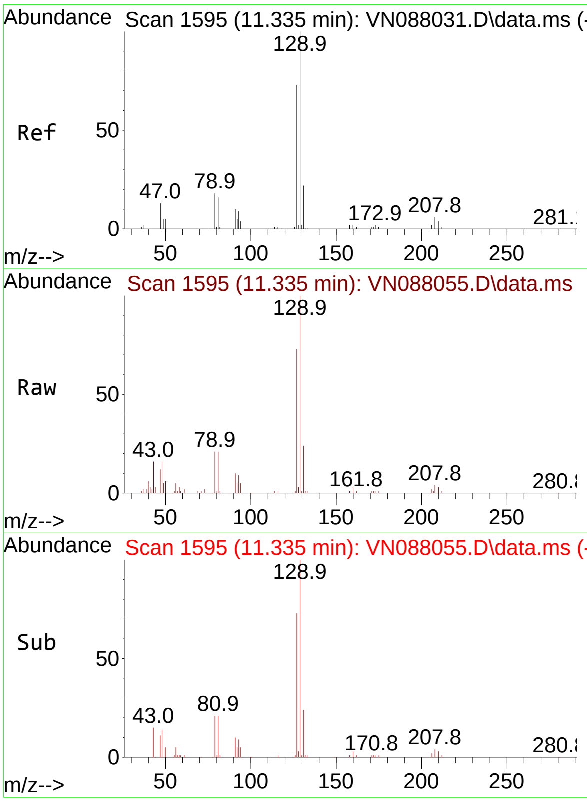


#52
1,3-Dichloropropane
Concen: 18.069 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 76 Resp: 137378

Ion	Ratio	Lower	Upper
76	100		
78	31.8	0.0	65.0





#53
Dibromochloromethane
Concen: 17.666 ug/l
RT: 11.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:129 Resp: 9203

Ion	Ratio	Lower	Upper
129	100		
127	76.5	39.1	117.3

Instrument :
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ClientSampleId :
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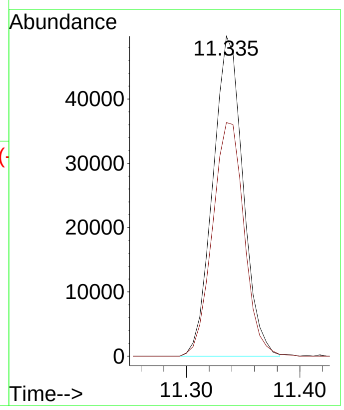
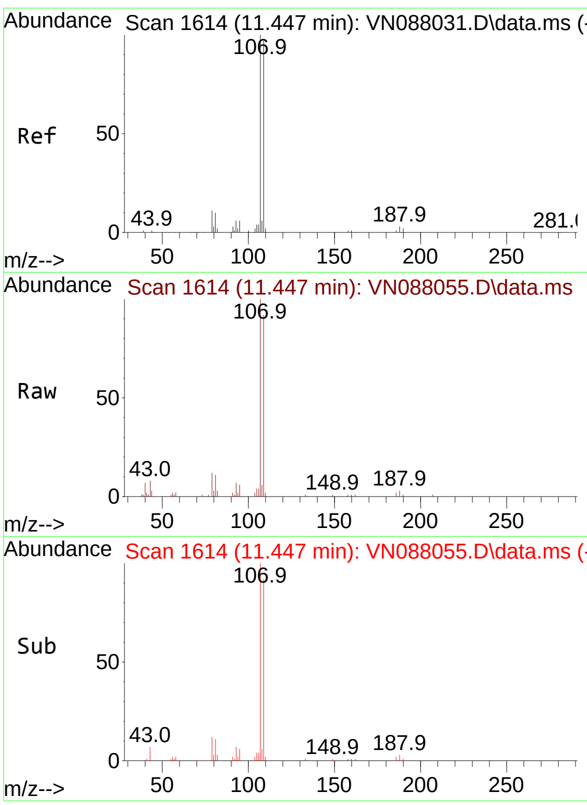
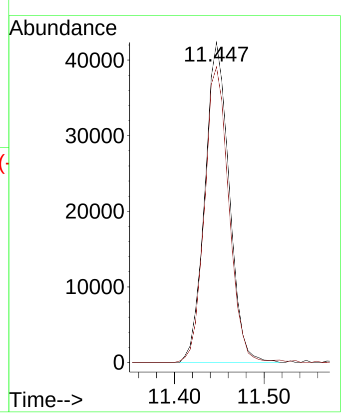


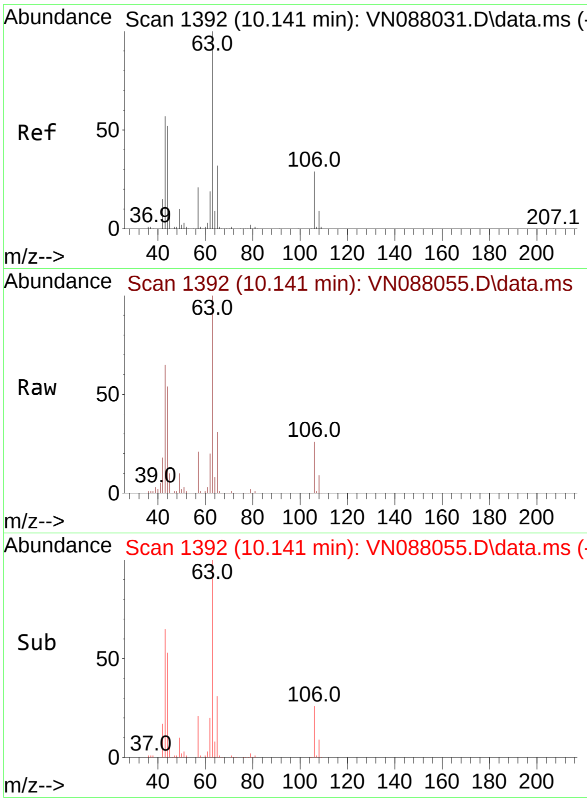


#54
1,2-Dibromoethane
Concen: 17.184 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:107 Resp: 80058

Ion	Ratio	Lower	Upper
107	100		
109	91.6	75.5	113.3





#55
2-Chloroethyl vinyl ether
Concen: 88.807 ug/l
RT: 10.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 63 Resp: 35353

Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.7	38.5
106	26.4	22.6	34.0

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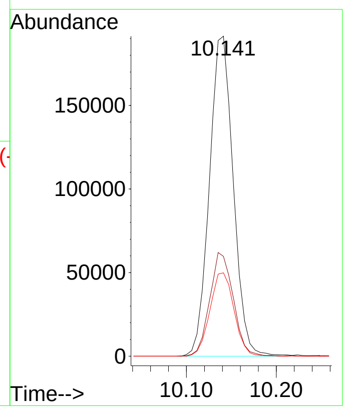
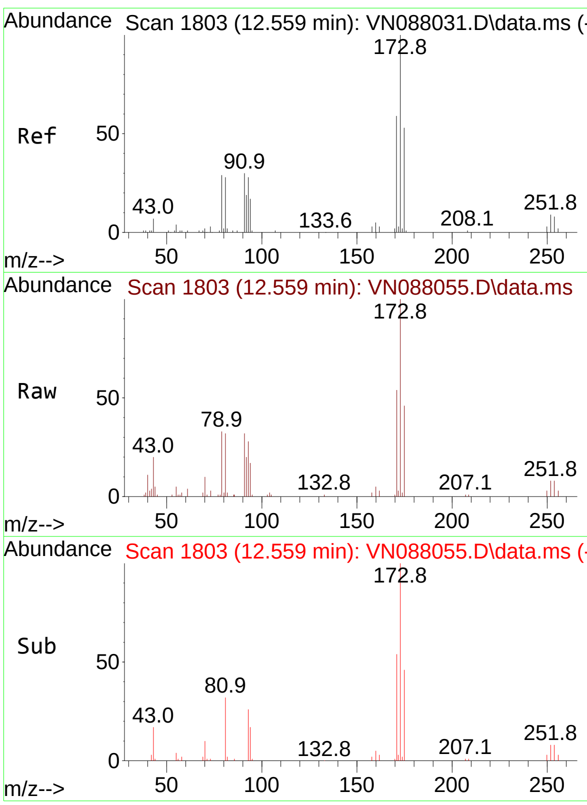
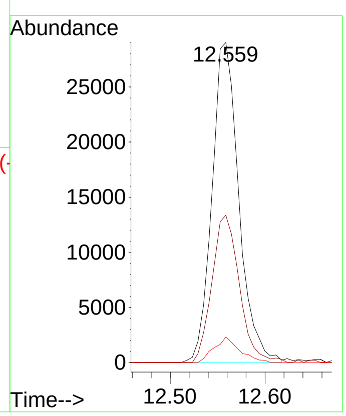


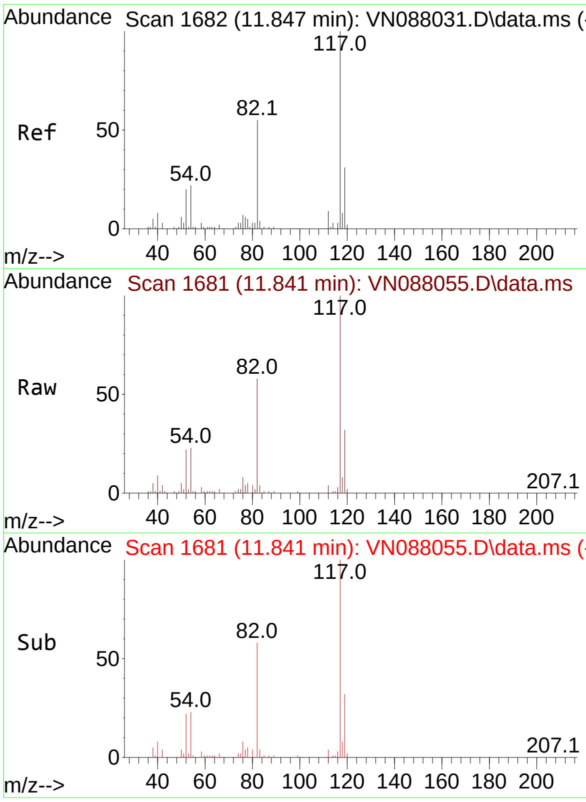


#56
Bromoform
Concen: 16.246 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:173 Resp: 57223

Ion	Ratio	Lower	Upper
173	100		
175	46.4	39.6	59.4
254	7.5	6.6	10.0





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:117 Resp: 33976

Ion	Ratio	Lower	Upper
117	100		
82	58.4	45.2	67.8
119	31.3	25.9	38.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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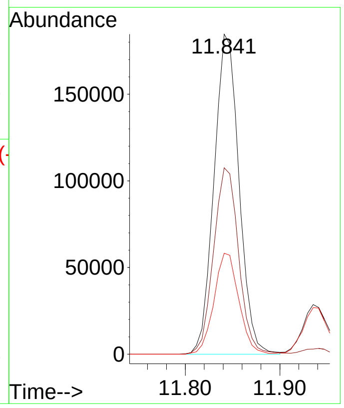
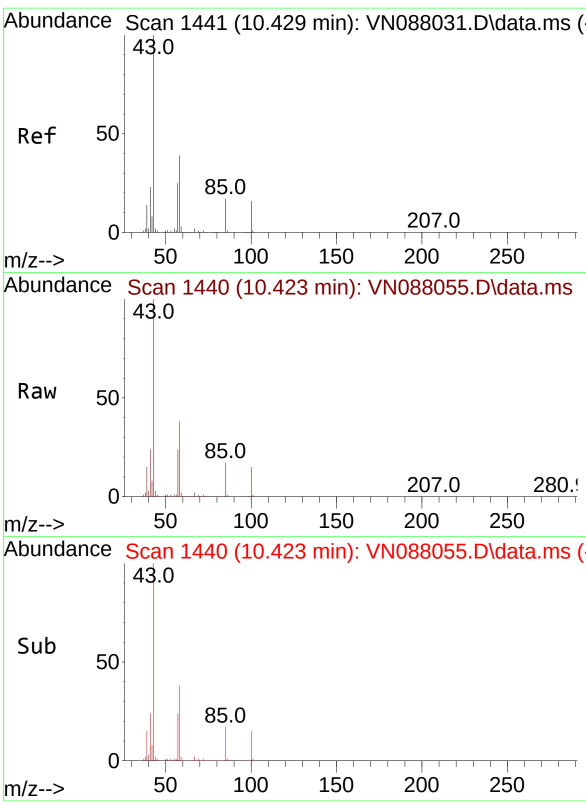
Supervised By :Mahesh Dadoda 10/20/2025

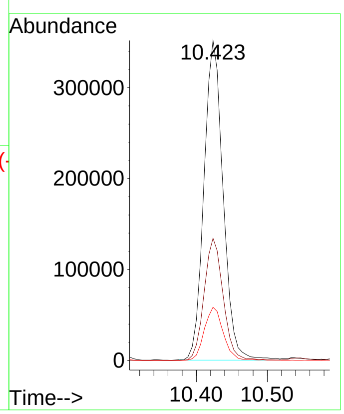




#58
4-Methyl-2-Pentanone
Concen: 86.980 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 43 Resp: 661034

Ion	Ratio	Lower	Upper
43	100		
58	37.6	31.2	46.8
85	16.5	13.7	20.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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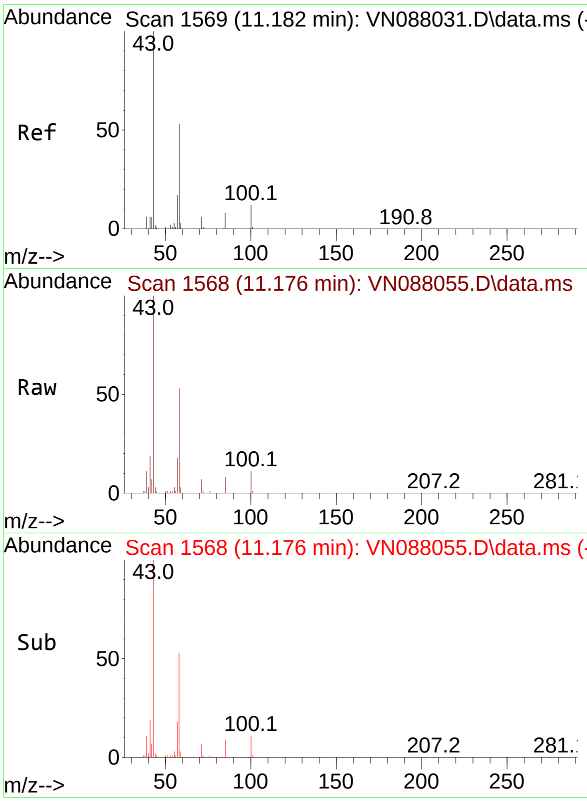
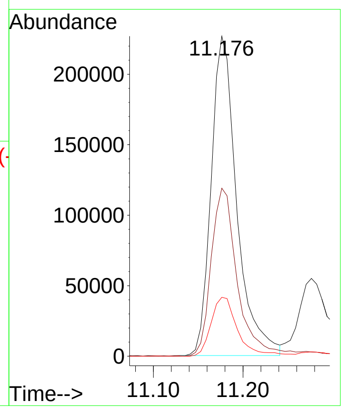
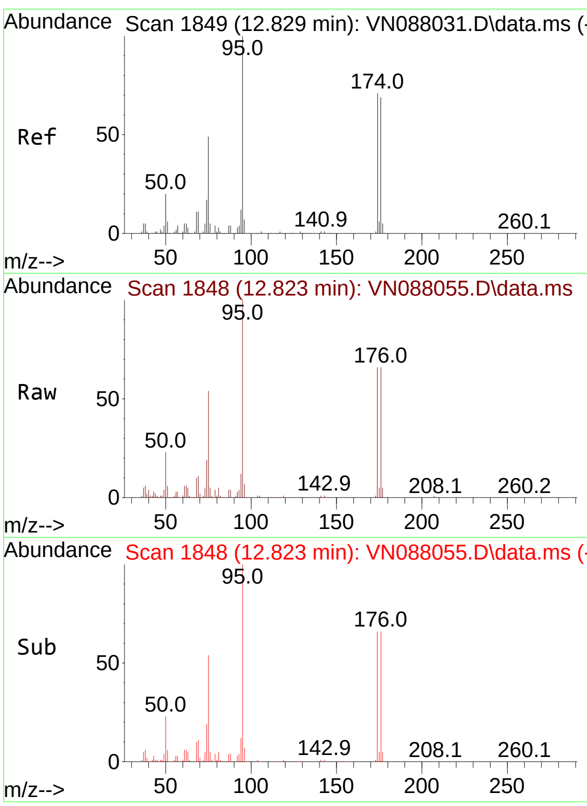
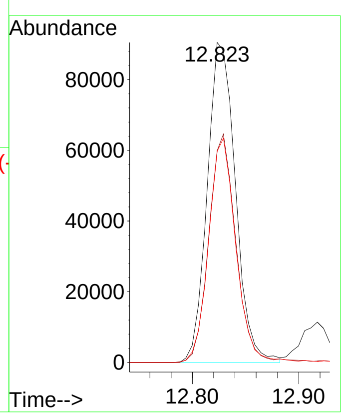


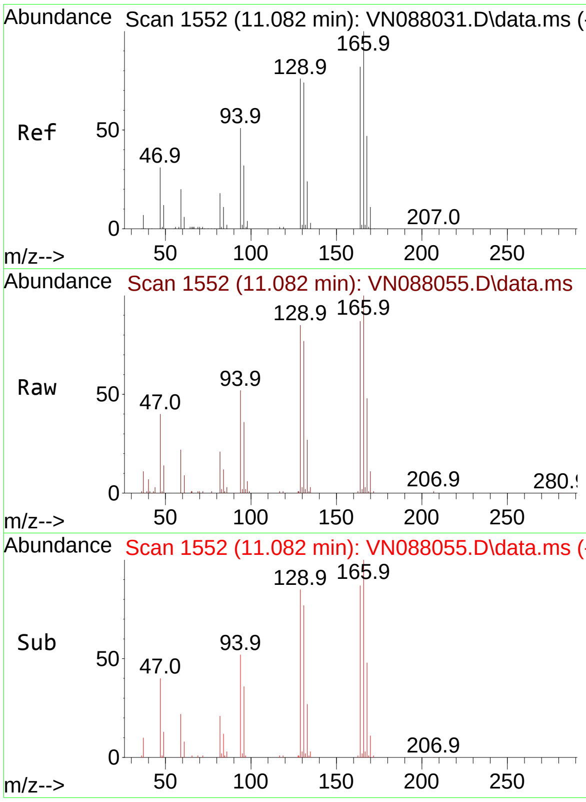

```
#59
2-Hexanone
Concen:   89.713 ug/l
RT:  11.176 min  Scan# 1
Delta R.T.  -0.006 min
Lab File:   VN088055.D
Acq: 17 Oct 2025  09:29

Tgt Ion: 43 Resp:  45015
Ion  Ratio  Lower  Upper
 43  100
 58   53.7   43.1   64.7
 57   19.3   14.6   21.8
```






```
#60
4-Bromofluorobenzene
Concen:   29.905 ug/l
RT:  12.823 min  Scan# 1848
Delta R.T.  -0.006 min
Lab File:   VN088055.D
Acq: 17 Oct 2025  09:29

Tgt Ion: 95 Resp:  167508
Ion  Ratio  Lower  Upper
 95  100
174   67.7   57.4   86.0
176   67.3   57.0   85.4
```

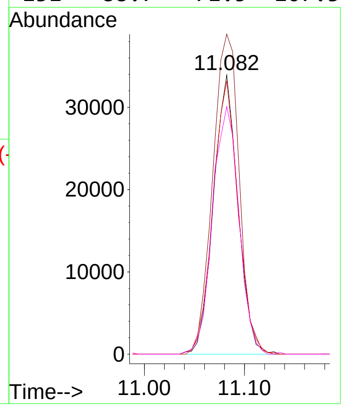




#61
Tetrachloroethene
Concen: 16.745 ug/l
RT: 11.082 min Scan# 1!
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:164 Resp: 5761(

Ion	Ratio	Lower	Upper
164	100		
166	114.6	97.2	145.8
129	97.7	73.7	110.5
131	88.7	71.5	107.3



Instrument :
MSVOA_N
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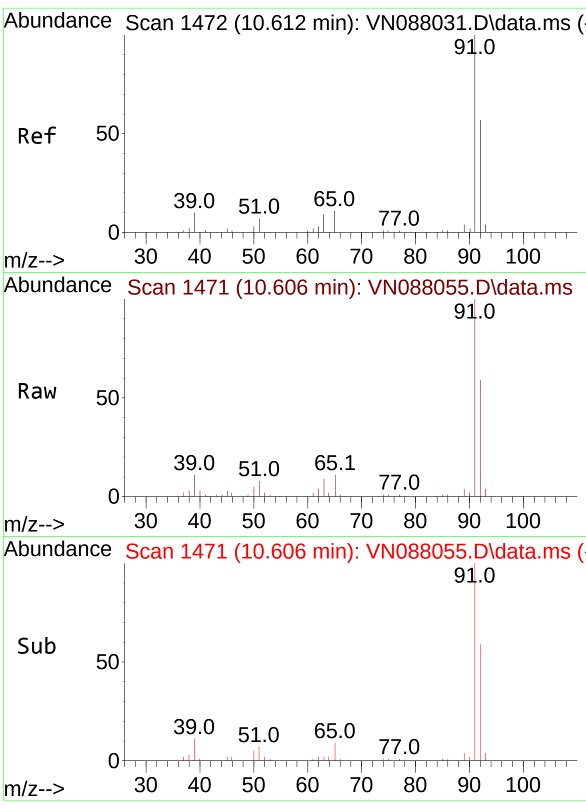
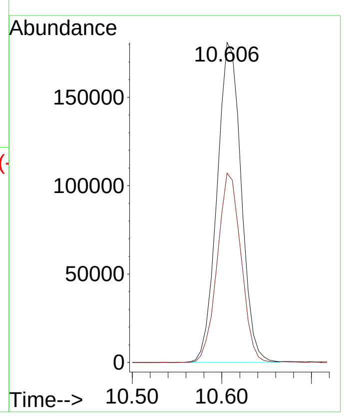
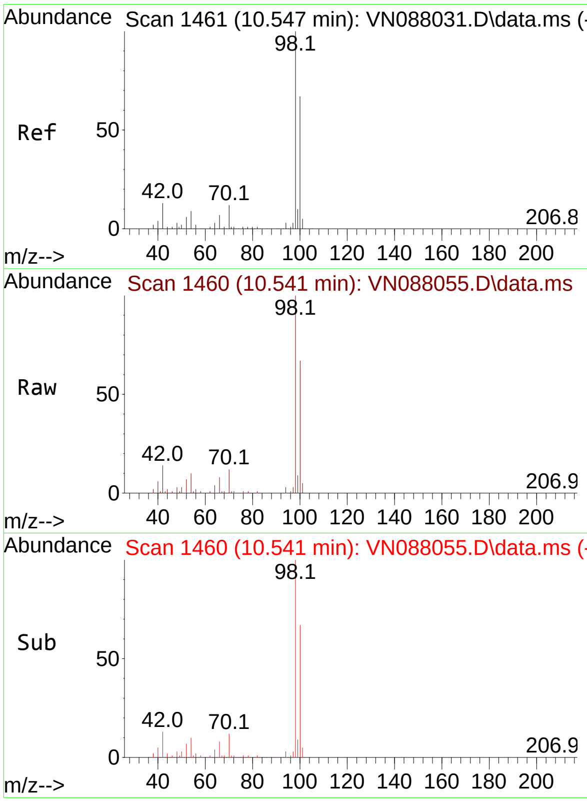


#62
Toluene
Concen: 17.595 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 91 Resp: 339113

Ion	Ratio	Lower	Upper
91	100		
92	58.3	45.8	68.8





#63
Toluene-d8
Concen: 30.523 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 98 Resp: 462055

Ion	Ratio	Lower	Upper
98	100		
100	64.9	53.1	79.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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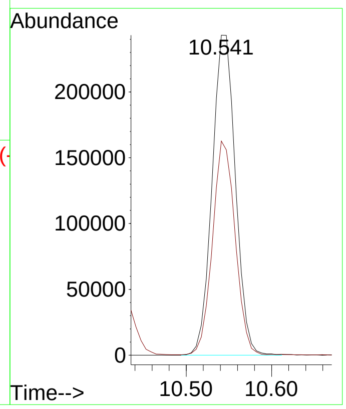
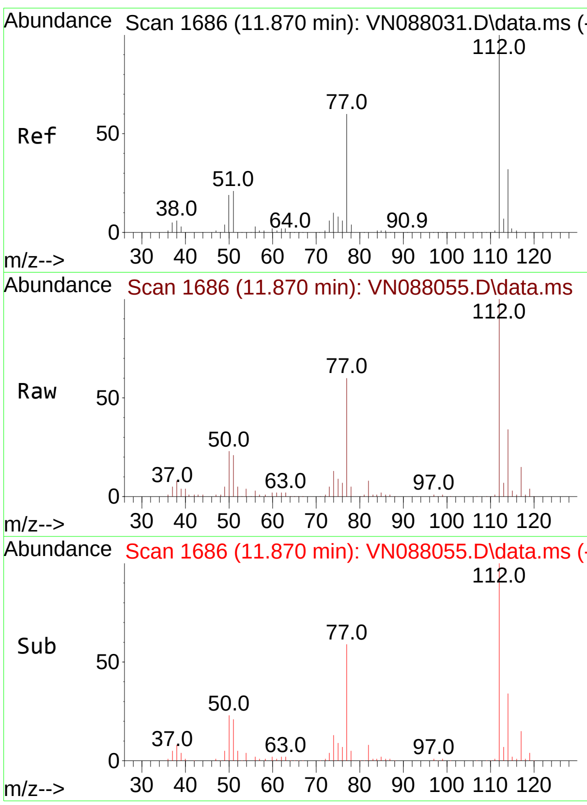
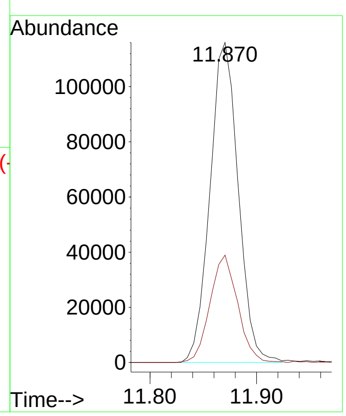


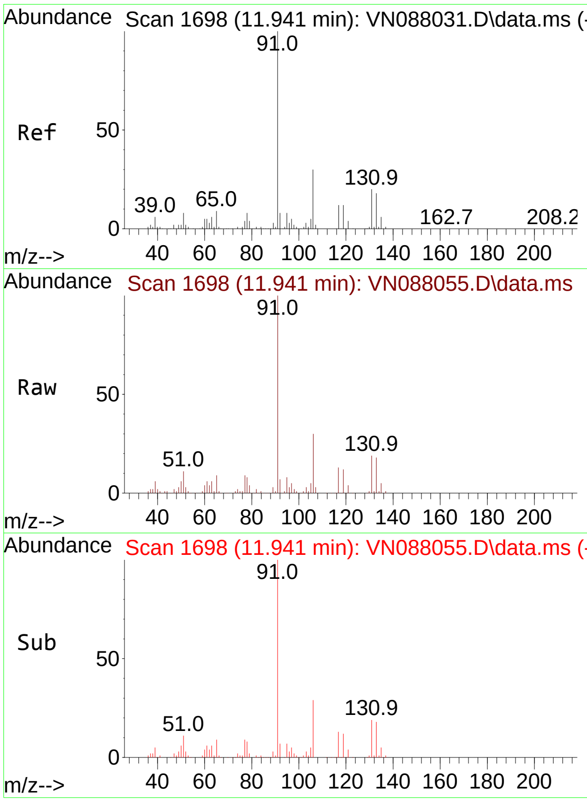


#64
Chlorobenzene
Concen: 17.379 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:112 Resp: 213944

Ion	Ratio	Lower	Upper
112	100		
114	33.3	25.7	38.5





#65
1,1,1,2-Tetrachloroethane
Concen: 17.603 ug/l
RT: 11.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:131 Resp: 7467

Ion	Ratio	Lower	Upper
131	100		
133	94.4	0.0	183.8
119	66.9	0.0	132.0

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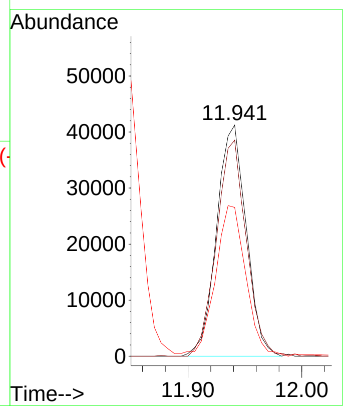
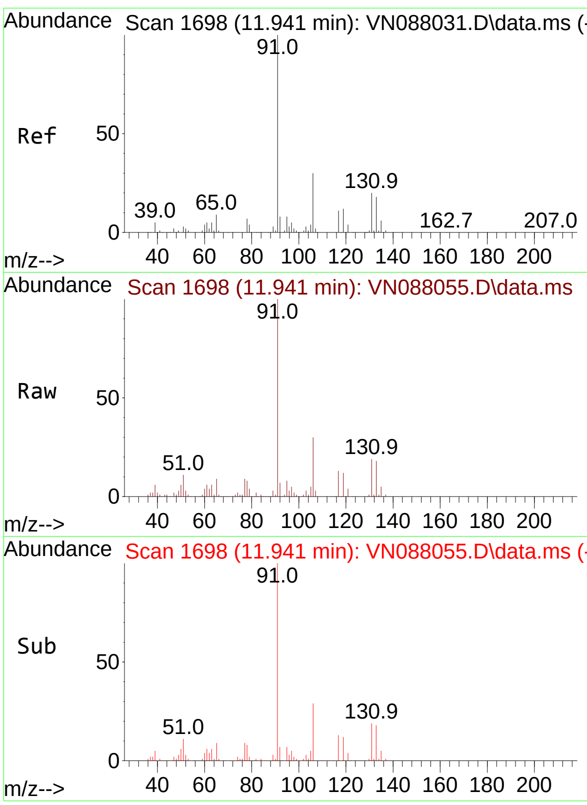
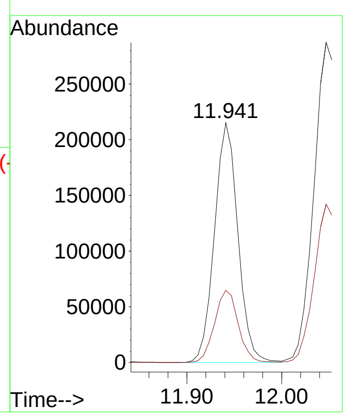


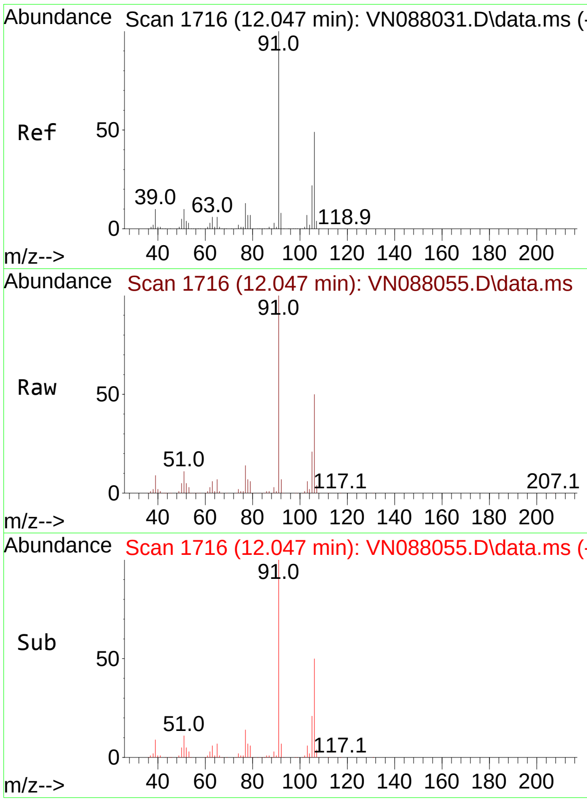


#66
Ethyl Benzene
Concen: 17.649 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 91 Resp: 369860

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.0	36.0





#67
m/p-Xylenes
Concen: 35.077 ug/l
RT: 12.047 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:106 Resp: 28338

Ion	Ratio	Lower	Upper
106	100		
91	206.6	161.4	242.0

Instrument :
MSVOA_N
ClientSampleId :
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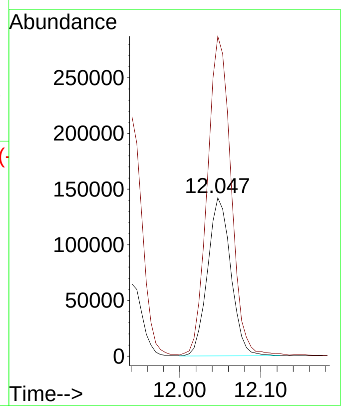
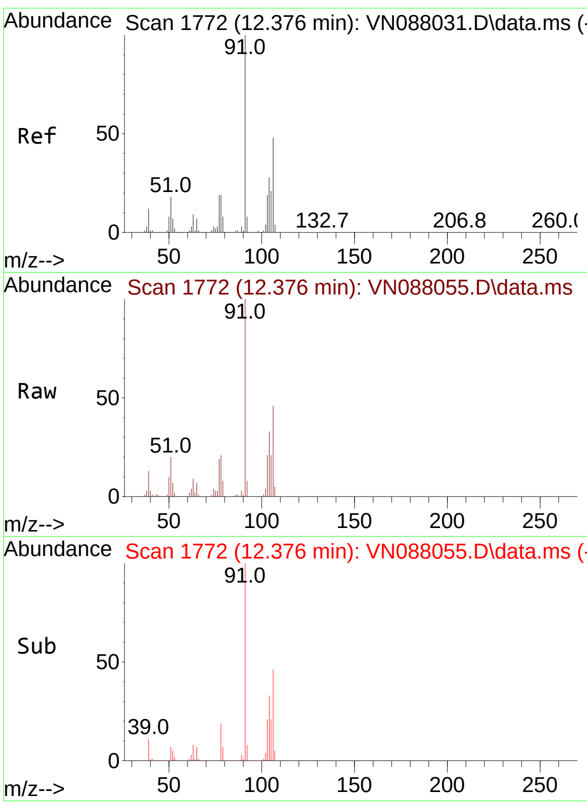
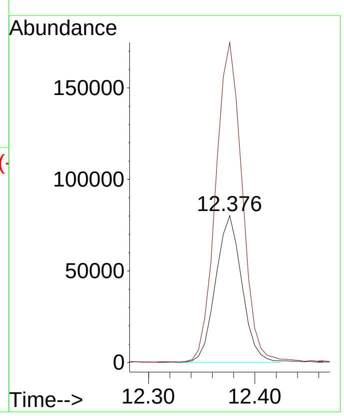




#68
o-Xylene
Concen: 17.081 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:106 Resp: 137374

Ion	Ratio	Lower	Upper
106	100		
91	219.1	105.2	315.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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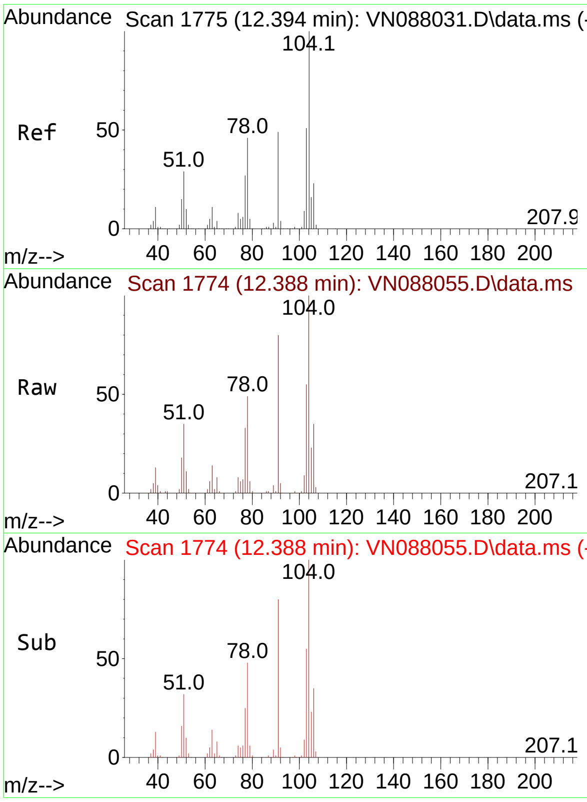
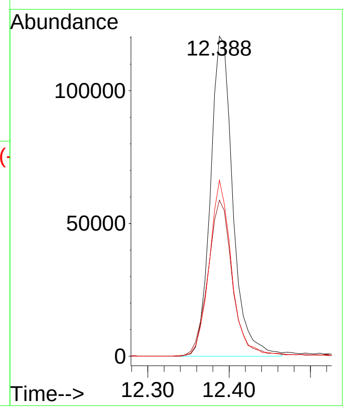
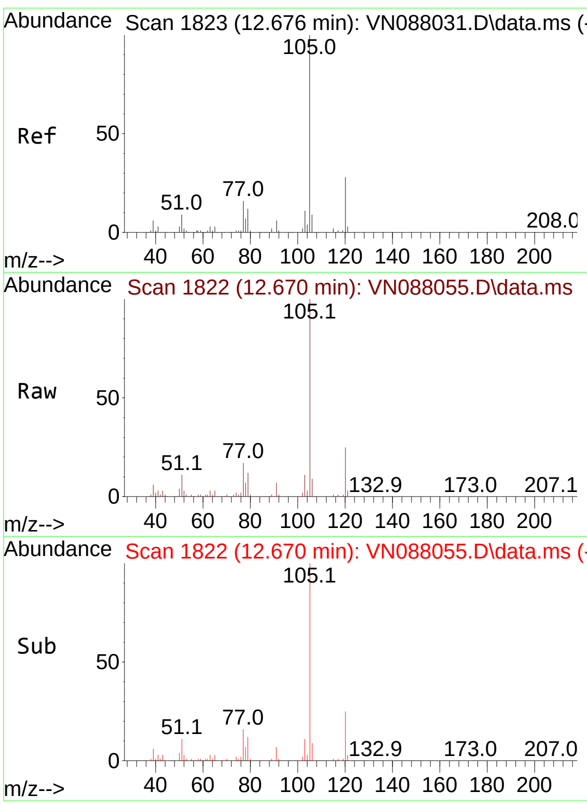
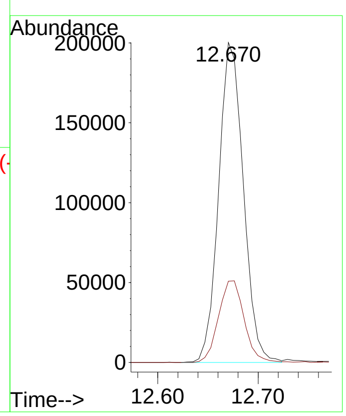



```
#69
Styrene
Concen:   17.352 ug/l
RT:  12.388 min  Scan# 1
Delta R.T.   -0.006 min
Lab File:   VN088055.D
Acq: 17 Oct 2025  09:29

Tgt Ion:104 Resp:  23085
Ion  Ratio  Lower  Upper
104  100
 78   52.6   41.8   62.6
103   55.4   44.9   67.3
```






```
#70
Isopropylbenzene
Concen:   17.376 ug/l
RT:  12.670 min  Scan# 1822
Delta R.T.   -0.006 min
Lab File:   VN088055.D
Acq: 17 Oct 2025  09:29

Tgt Ion:105 Resp:  342498
Ion  Ratio  Lower  Upper
105  100
120   26.5   19.1   35.5
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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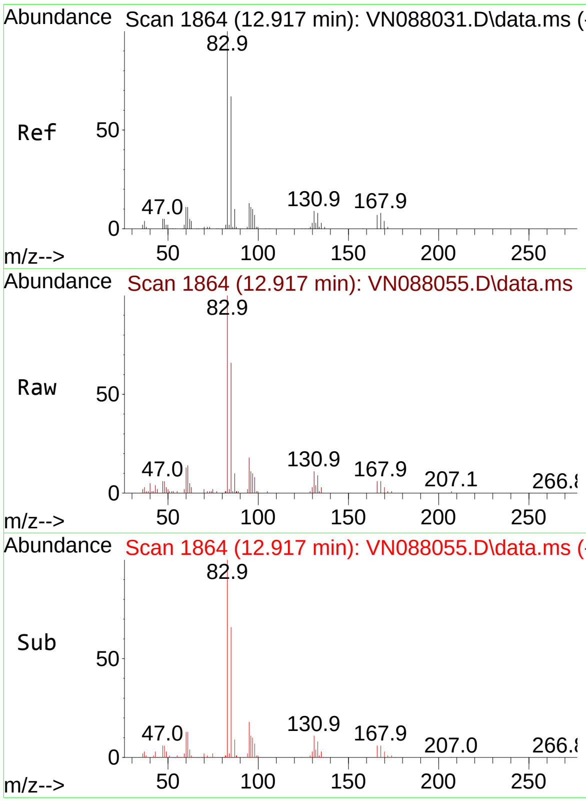
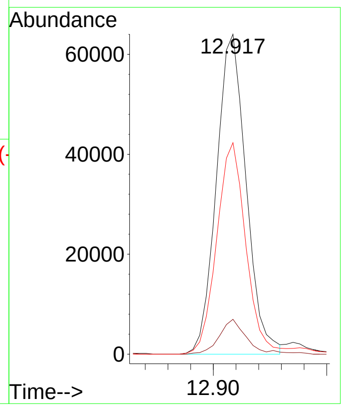
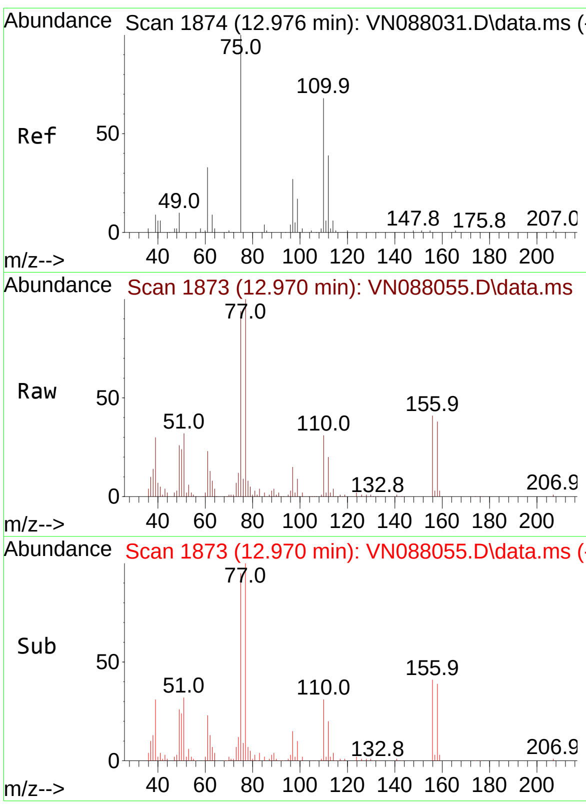
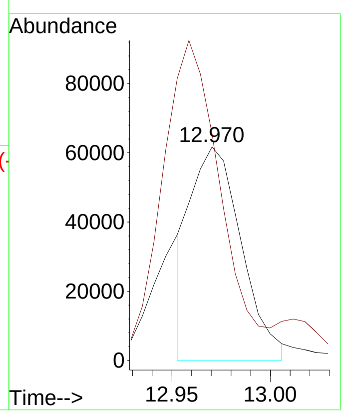


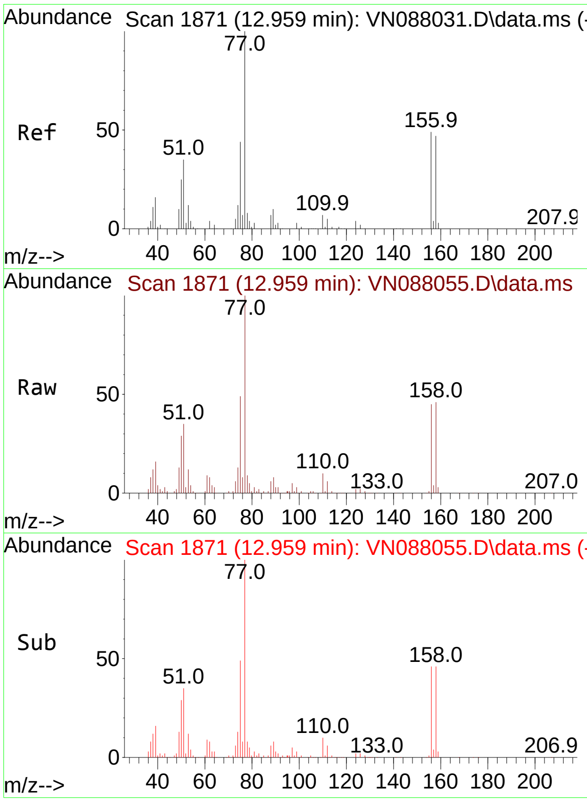

```
#71
1,1,2,2-Tetrachloroethane
Concen:   17.452 ug/l
RT:  12.917 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088055.D
Acq: 17 Oct 2025  09:29

Tgt Ion: 83 Resp:  11662
Ion  Ratio  Lower  Upper
 83  100
131    9.5    4.8   14.3
 85   64.9   32.4   97.2
```






```
#72
1,2,3-Trichloropropane
Concen:   17.917 ug/l m
RT:  12.970 min  Scan# 1873
Delta R.T.  -0.006 min
Lab File:   VN088055.D
Acq: 17 Oct 2025  09:29

Tgt Ion: 75 Resp:  111200
Ion  Ratio  Lower  Upper
 75  100
 77  171.4    0.0  364.0
```





#73
Bromobenzene
Concen: 16.773 ug/l
RT: 12.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:156 Resp: 8081

Ion	Ratio	Lower	Upper
156	100		
77	235.8	0.0	439.8
158	95.0	0.0	190.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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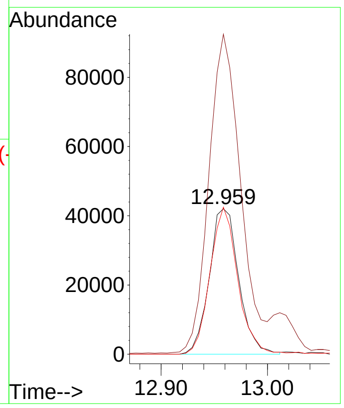
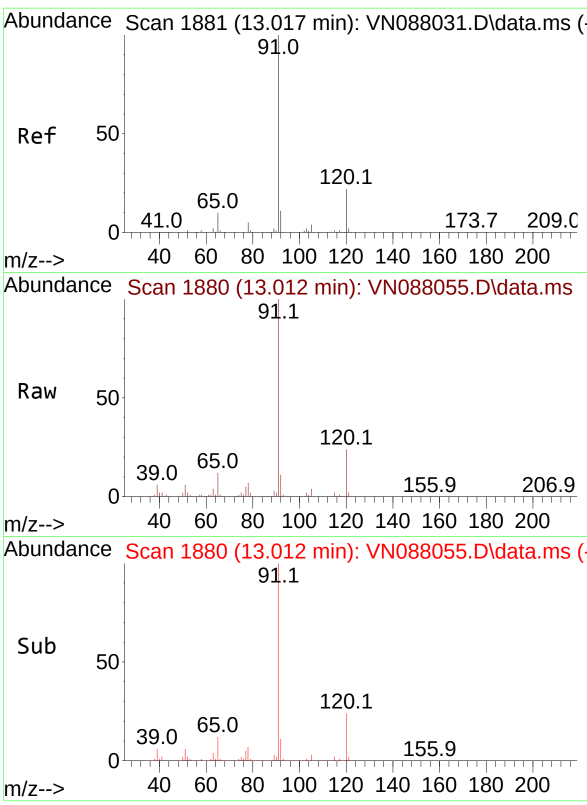
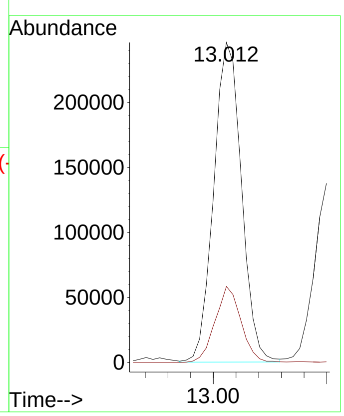


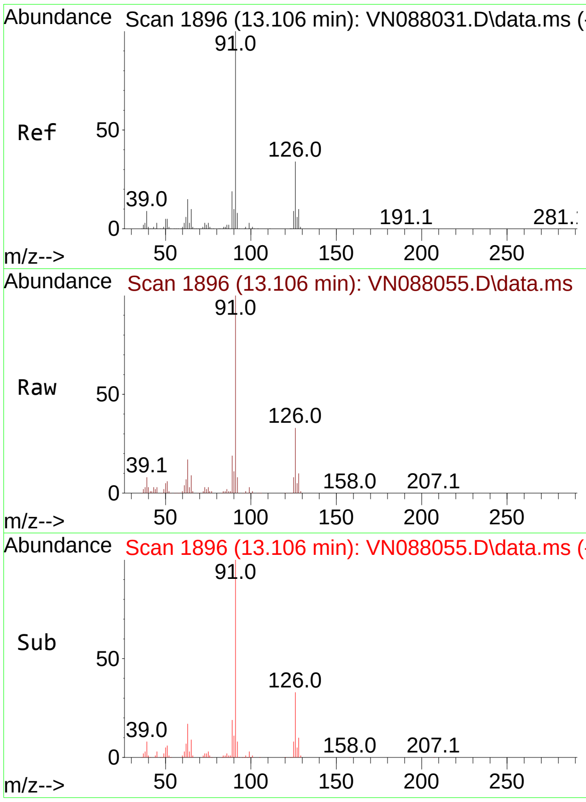


#74
n-propylbenzene
Concen: 17.581 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 91 Resp: 418345

Ion	Ratio	Lower	Upper
91	100		
120	22.3	0.0	46.2





#75
2-Chlorotoluene
Concen: 17.646 ug/l
RT: 13.106 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 91 Resp: 25673

Ion	Ratio	Lower	Upper
91	100		
126	32.5	0.0	66.6

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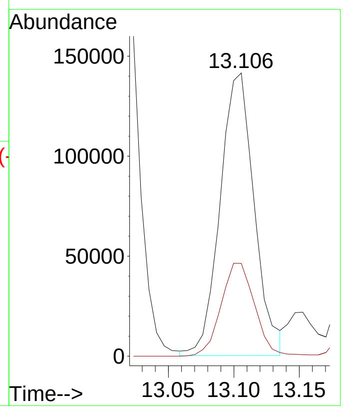
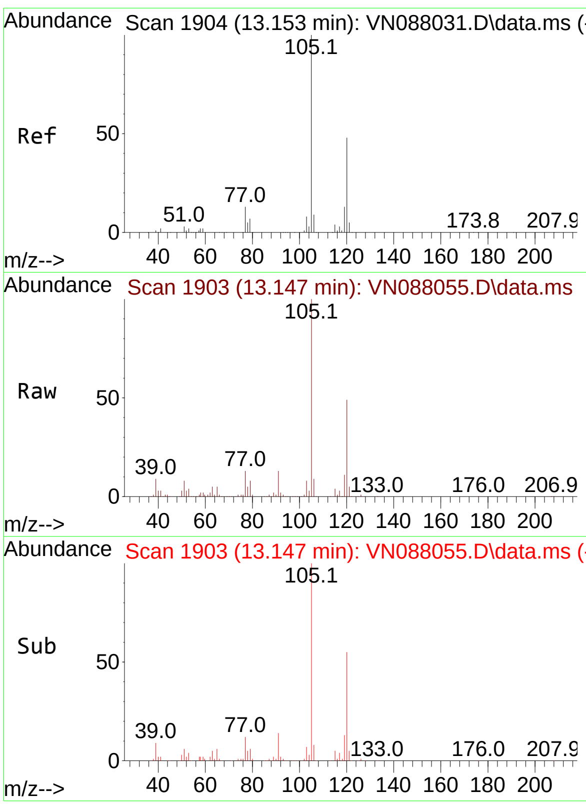
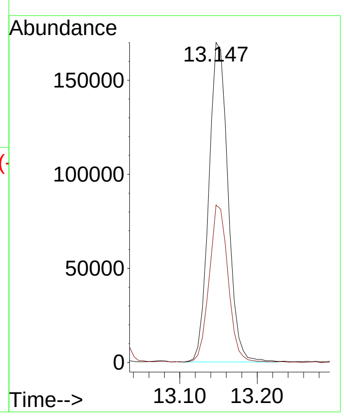


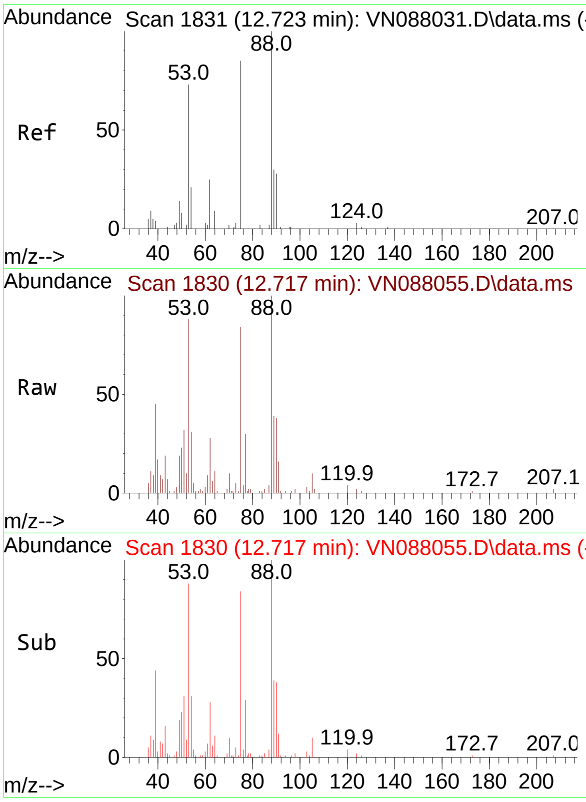


#76
1,3,5-Trimethylbenzene
Concen: 17.481 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:105 Resp: 292691

Ion	Ratio	Lower	Upper
105	100		
120	48.8	0.0	100.6






```
#77
t-1,4-Dichloro-2-butene
Concen:   15.998 ug/l m
RT:  12.717 min  Scan# 1
Delta R.T.  -0.006 min
Lab File:   VN088055.D
Acq: 17 Oct 2025  09:29

Tgt Ion: 75 Resp:   39570
Ion  Ratio  Lower  Upper
 75  100
 53  104.7   41.8  125.3
 89   46.8   19.9   59.6
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
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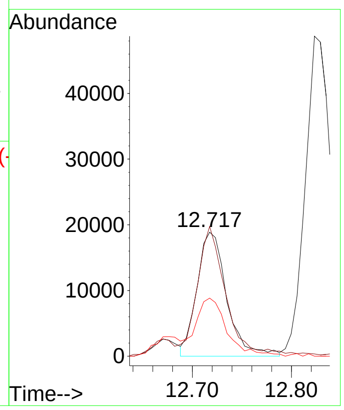
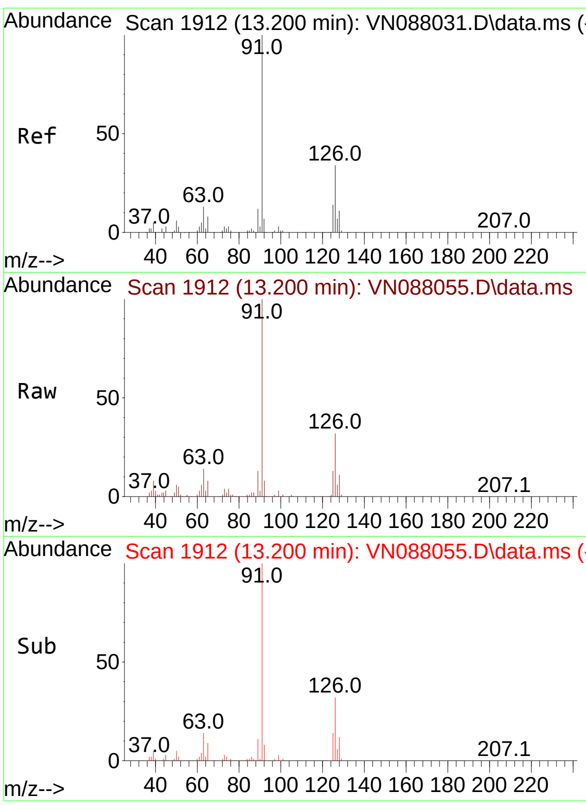
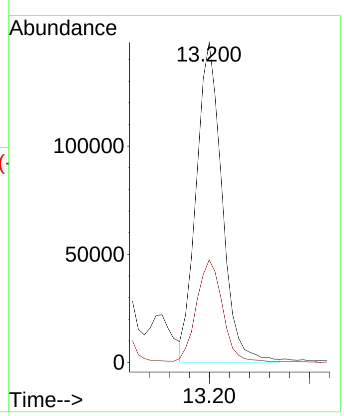





```
#78
4-Chlorotoluene
Concen:   17.851 ug/l
RT:  13.200 min  Scan# 1912
Delta R.T.  0.000 min
Lab File:   VN088055.D
Acq: 17 Oct 2025  09:29

Tgt Ion: 91 Resp:  263876
Ion  Ratio  Lower  Upper
 91  100
126   32.6    0.0   68.8
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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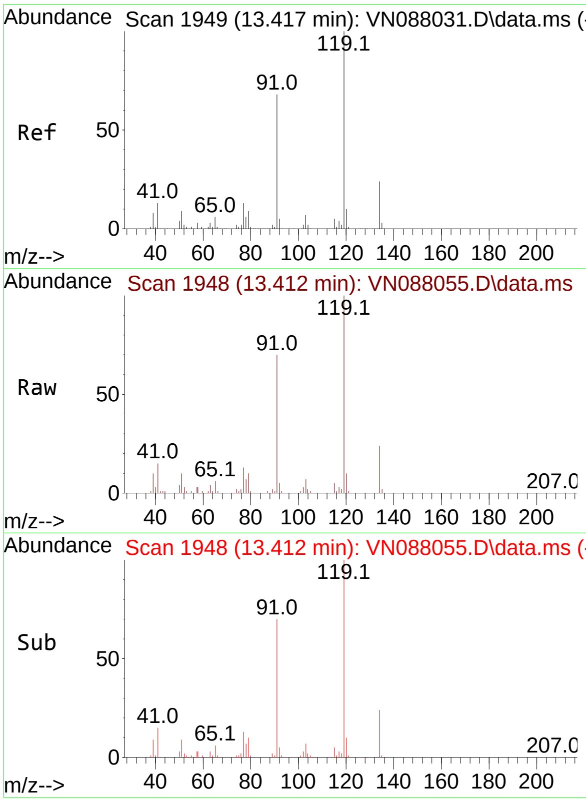
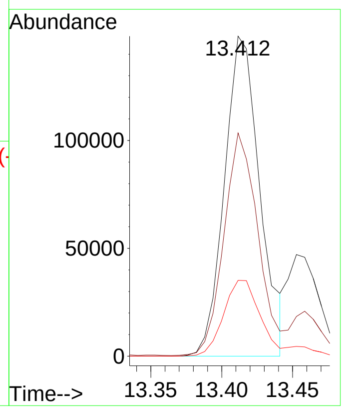
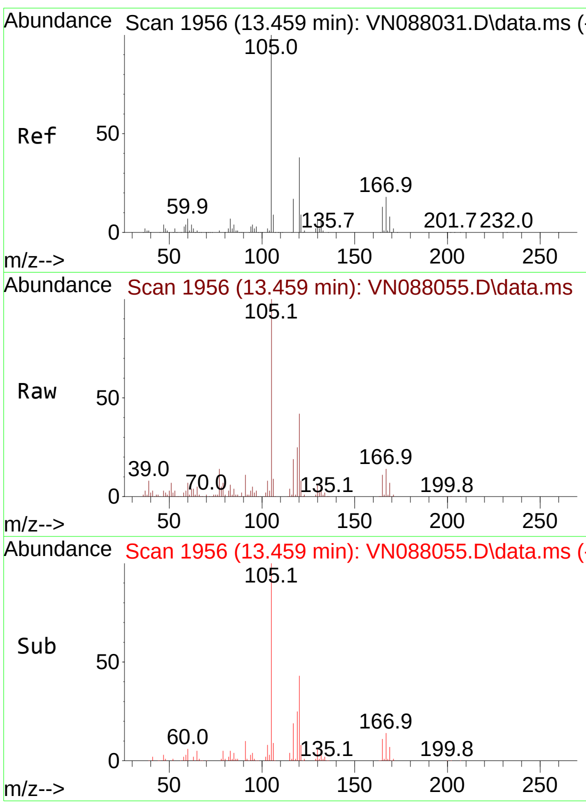


#79
tert-butylbenzene
Concen: 17.735 ug/l
RT: 13.412 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:119 Resp: 25743

Ion	Ratio	Lower	Upper
119	100		
91	66.6	0.0	132.4
134	24.2	0.0	48.6

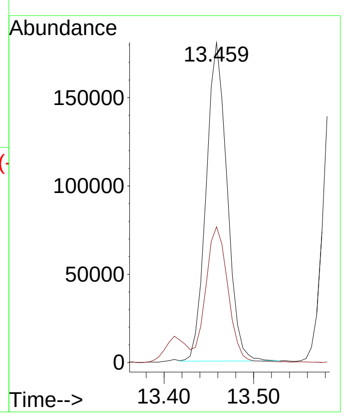




#80
1,2,4-Trimethylbenzene
Concen: 17.478 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:105 Resp: 292967

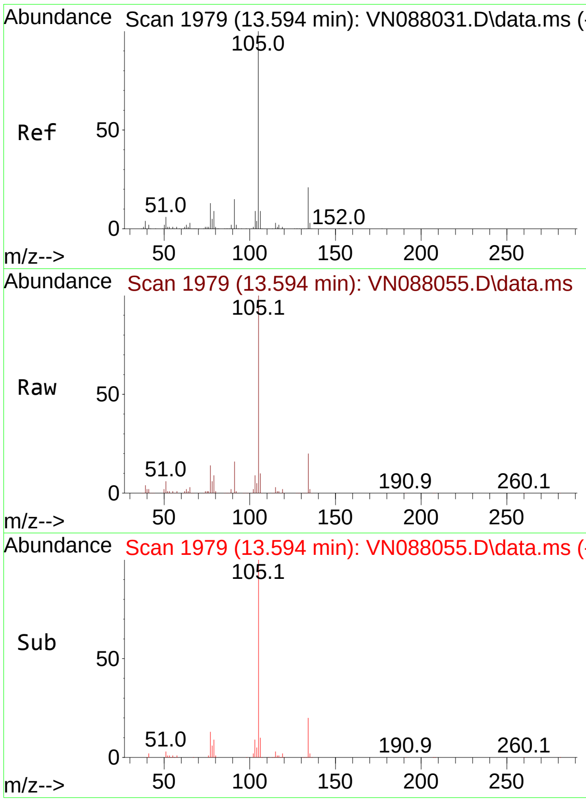
Ion	Ratio	Lower	Upper
105	100		
120	44.1	0.0	93.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED

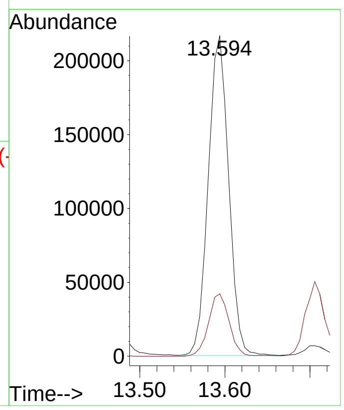
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

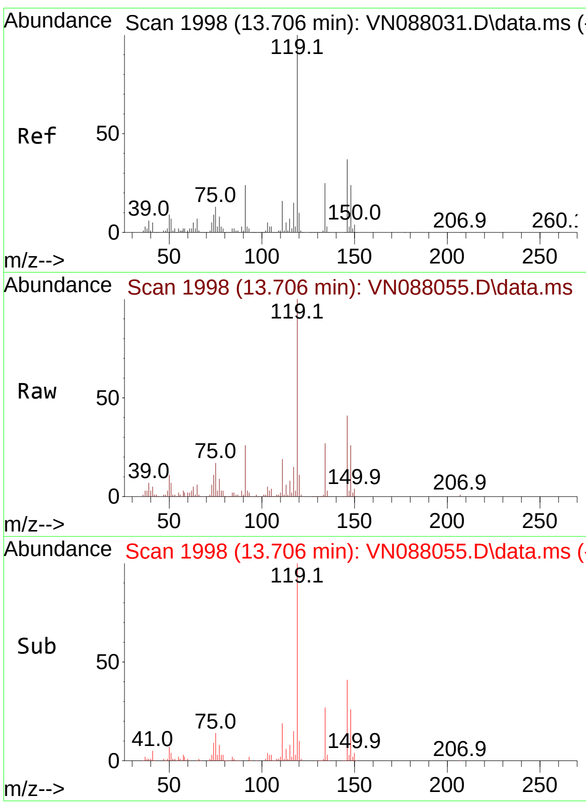


#81
sec-Butylbenzene
Concen: 17.713 ug/l
RT: 13.594 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:105 Resp: 36149

Ion	Ratio	Lower	Upper
105	100		
134	19.7	0.0	41.2

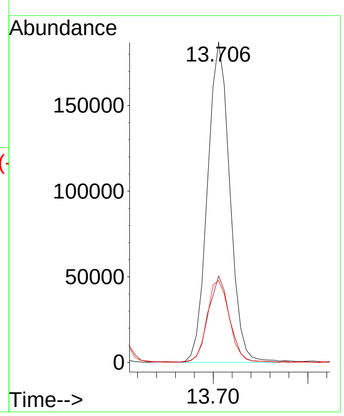


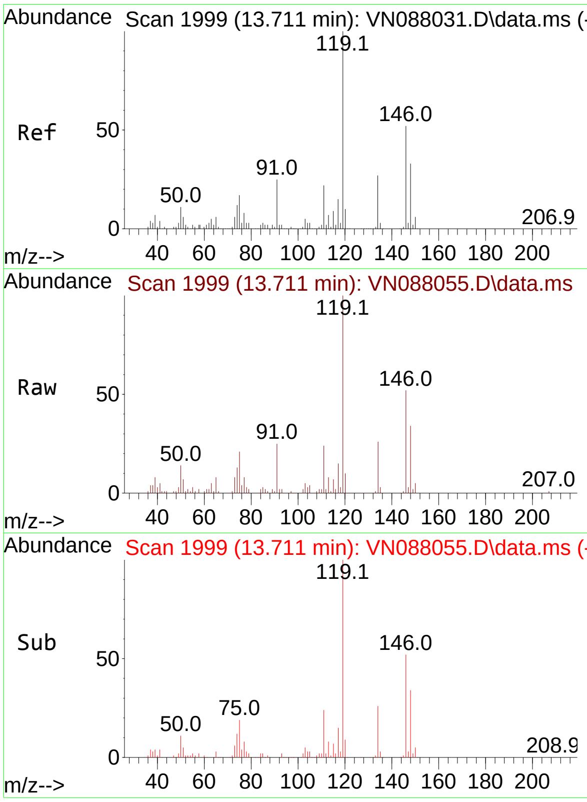


#82
p-Isopropyltoluene
Concen: 17.630 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:119 Resp: 307176

Ion	Ratio	Lower	Upper
119	100		
134	26.0	0.0	52.6
91	25.4	0.0	48.2





#83
1,3-Dichlorobenzene
Concen: 17.105 ug/l
RT: 13.711 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

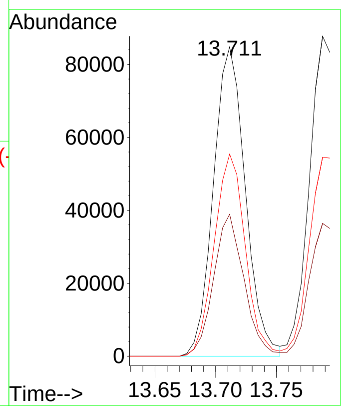
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

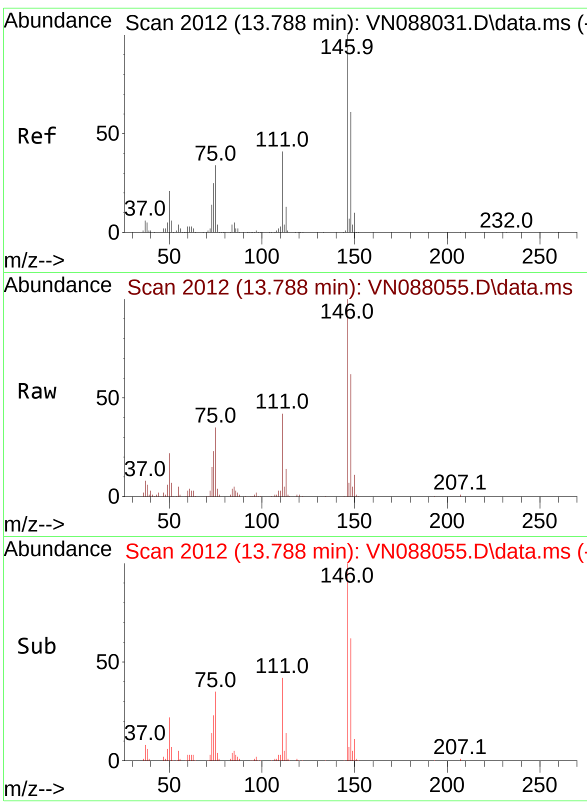
Tgt Ion:146 Resp: 15505

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.1	63.1
148	63.6	31.5	94.5

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

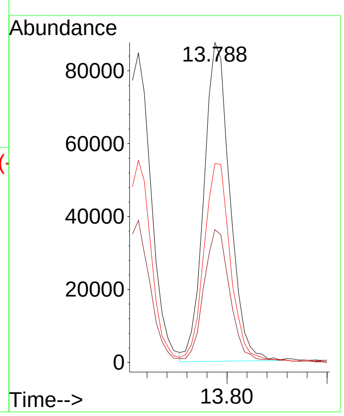




#84
1,4-Dichlorobenzene
Concen: 16.843 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:146 Resp: 157460

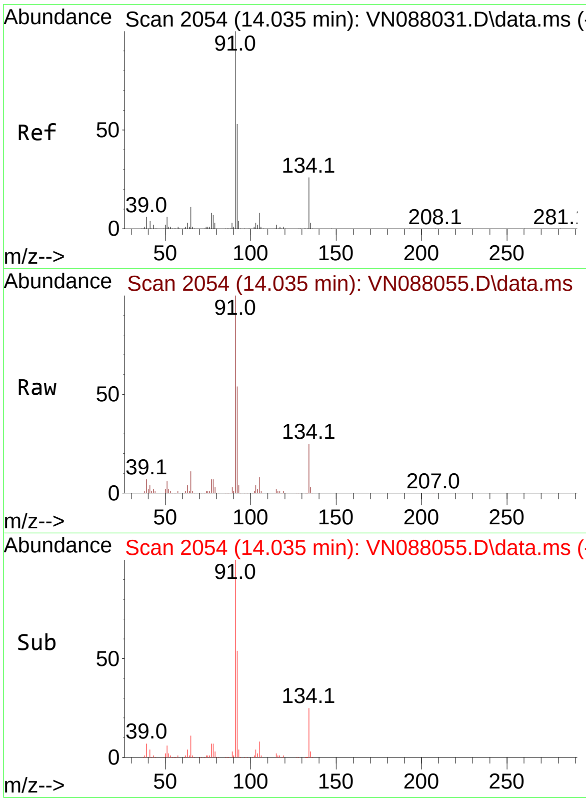
Ion	Ratio	Lower	Upper
146	100		
111	40.1	20.5	61.6
148	64.2	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

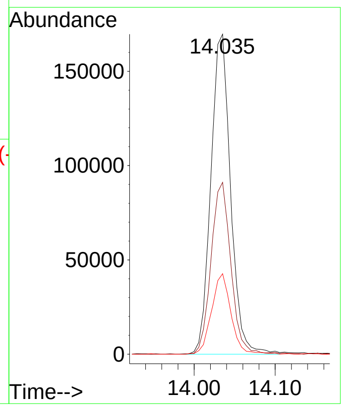
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

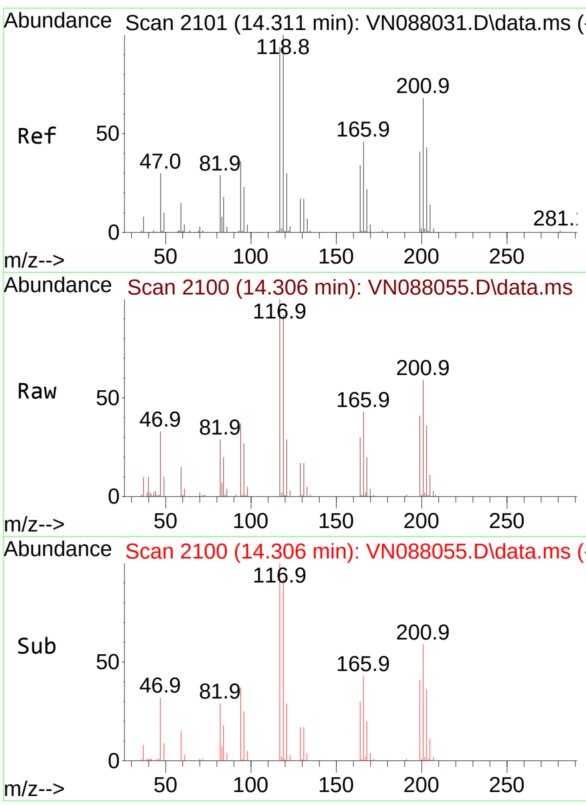


#85
n-Butylbenzene
Concen: 17.722 ug/l
RT: 14.035 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 91 Resp: 28727

Ion	Ratio	Lower	Upper
91	100		
92	53.6	0.0	107.6
134	24.6	0.0	52.6

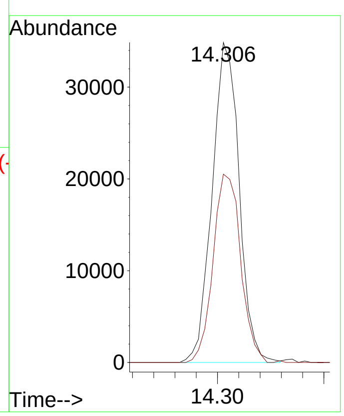




#86
Hexachloroethane
Concen: 17.608 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

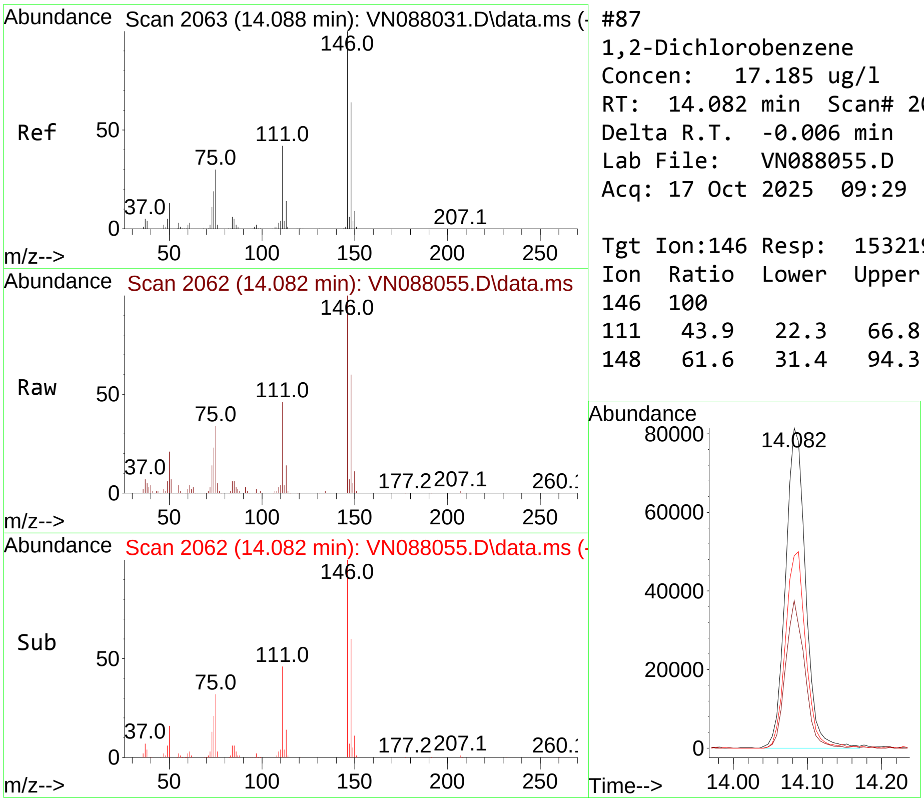
Tgt Ion:117 Resp: 61461

Ion	Ratio	Lower	Upper
117	100		
201	60.1	34.8	104.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

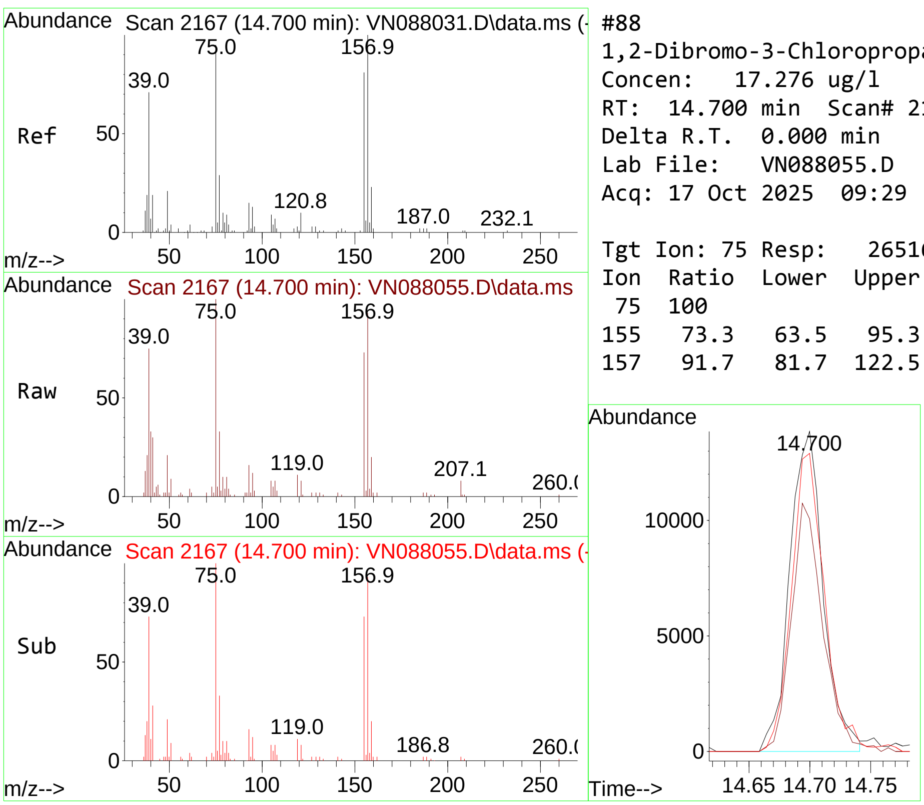
Manual Integrations APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#87
1,2-Dichlorobenzene
Concen: 17.185 ug/l
RT: 14.082 min Scan# 2(
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:146 Resp: 153219

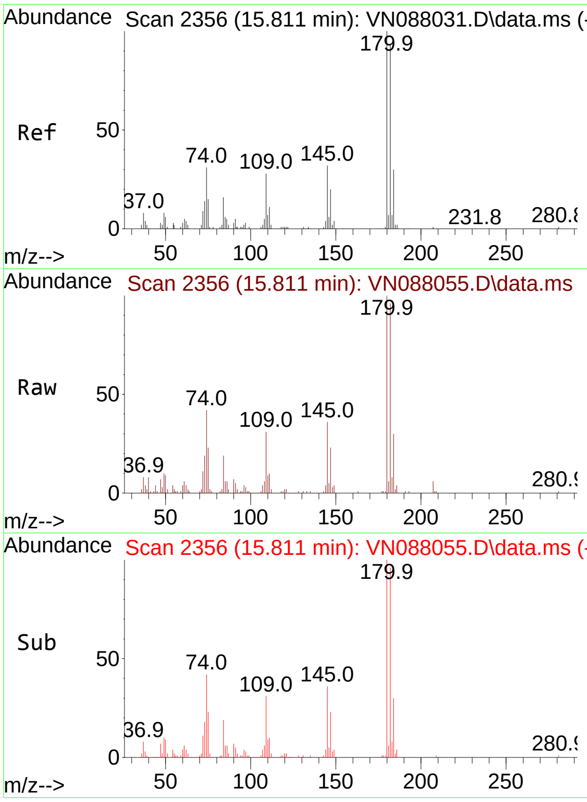
Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.3	66.8
148	61.6	31.4	94.3



#88
1,2-Dibromo-3-Chloropropane
Concen: 17.276 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion: 75 Resp: 26516

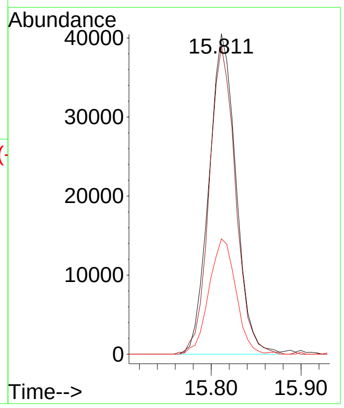
Ion	Ratio	Lower	Upper
75	100		
155	73.3	63.5	95.3
157	91.7	81.7	122.5



#89
1,2,4-Trichlorobenzene
Concen: 15.928 ug/l
RT: 15.811 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:180 Resp: 8459

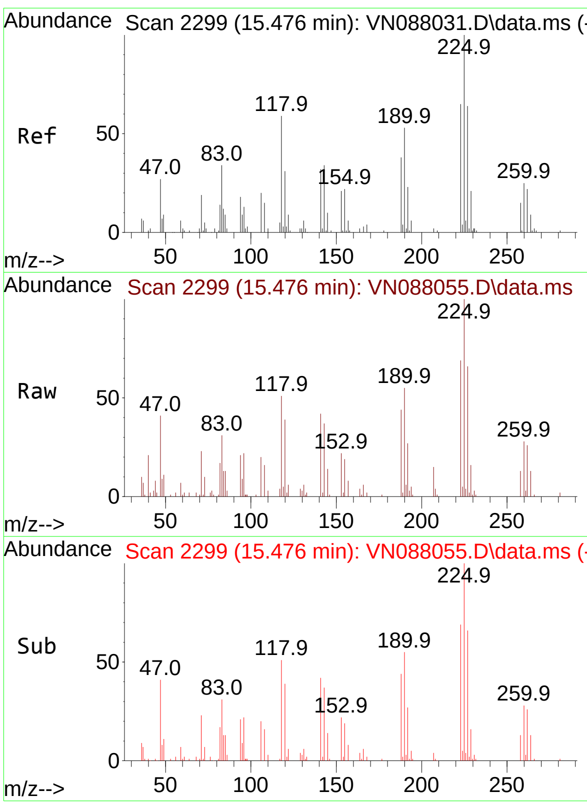
Ion	Ratio	Lower	Upper
180	100		
182	93.5	74.6	112.0
145	35.8	27.2	40.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

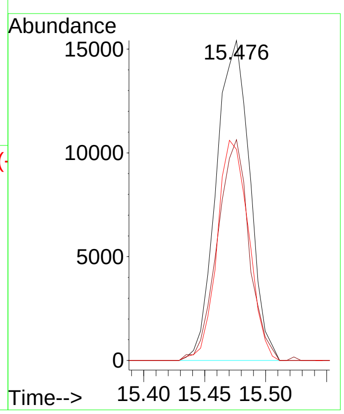
Reviewed By :John Carlone   10/20/2025
Supervised By :Mahesh Dadoda   10/20/2025

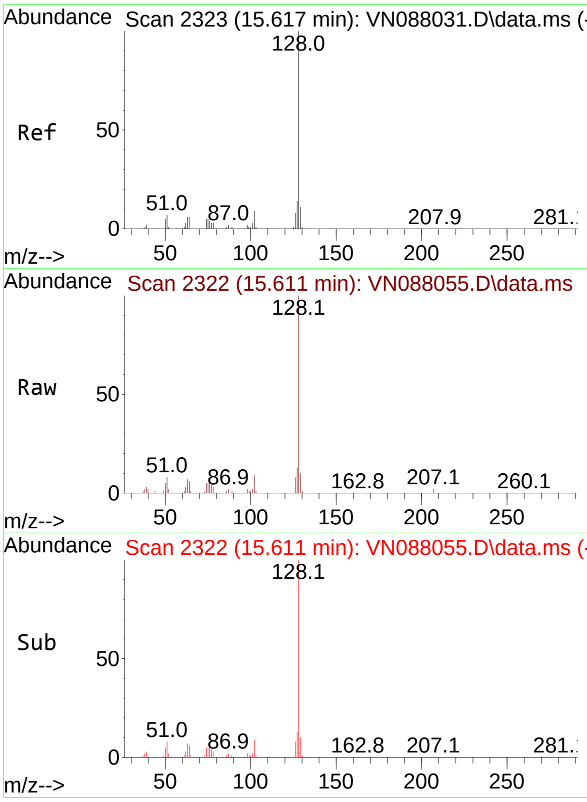


#90
Hexachlorobutadiene
Concen: 15.955 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:225 Resp: 29490

Ion	Ratio	Lower	Upper
225	100		
223	65.0	0.0	129.6
227	64.9	0.0	132.2

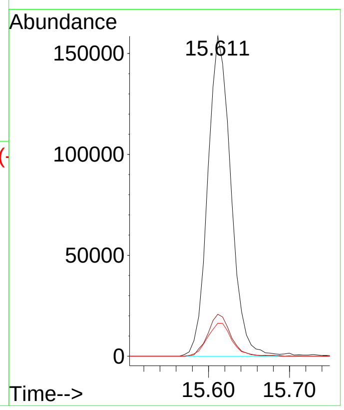




#91
Naphthalene
Concen: 16.169 ug/l
RT: 15.611 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:128 Resp: 31437

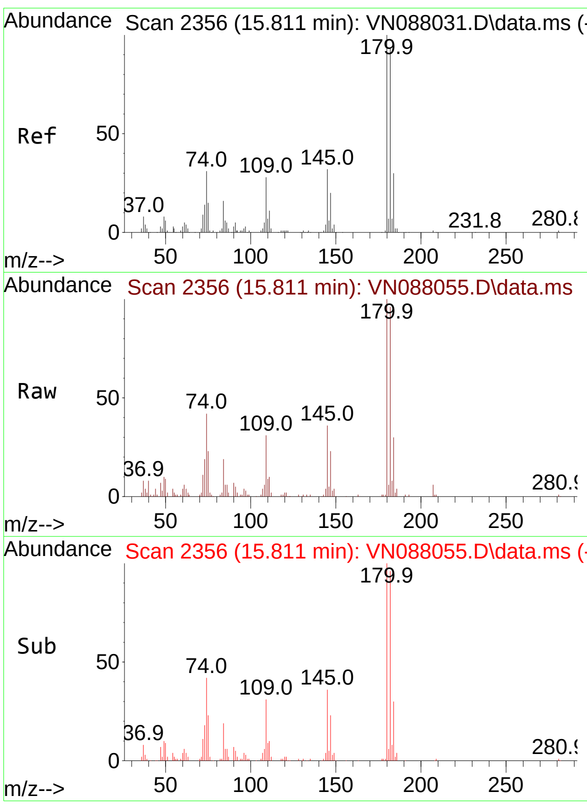
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.8	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED

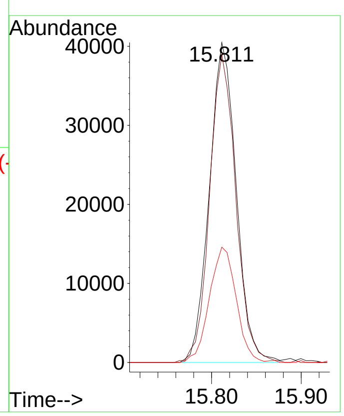
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#92
1,2,3-Trichlorobenzene
Concen: 15.928 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088055.D
Acq: 17 Oct 2025 09:29

Tgt Ion:180 Resp: 84590

Ion	Ratio	Lower	Upper
180	100		
182	93.5	0.0	186.6
145	35.8	0.0	68.0



Sample Results: **VN088055.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088055.D
Acq On : 17 Oct 2025 09:29
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Oct 18 01:18:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	Bromochloromethane	1.000	1.000	0.0	96	0.00
2	M	Dichlorodifluoromethane	1.718	1.505	12.4	81	0.00
3	M	Chloromethane	1.948	1.658	14.9	82	0.00
4	M	Vinyl Chloride	2.031	1.773	12.7	84	0.00
5	M	Bromomethane	1.092	0.978	10.4	90	0.00
6	M	Chloroethane	1.340	1.174	12.4	85	0.00
7	M	Trichlorofluoromethane	2.762	2.501	9.4	88	0.01
8	T	Diethyl Ether	1.248	1.095	12.3	86	0.00
9		1,1,2-Trichlorotrifluoroeth	1.479	1.306	11.7	86	0.00
10	M	1,1-Dichloroethene	1.577	1.383	12.3	85	0.00
11		Methyl Iodide	1.454	1.027	29.4#	82	0.00
12		Methyl Acetate	2.564	2.320	9.5	88	0.00
13	M	Acrolein	0.397	0.365	8.1	100	0.00
14	M	Acrylonitrile	1.237	1.060	14.3	84	0.00
15	M	Acetone	0.362	0.330	8.8	87	0.00
16	M	Carbon Disulfide	4.945	4.253	14.0	84	0.01
17		Allyl chloride	2.976	2.567	13.7	84	0.00
18	M	Methylene Chloride	2.005	1.742	13.1	86	0.00
19	M	trans-1,2-Dichloroethene	1.824	1.593	12.7	84	0.00
20	T	Diisopropyl ether	6.776	6.101	10.0	87	0.00
21	M	1,1-Dichloroethane	3.528	3.153	10.6	86	0.00
22	M	cis-1,2-Dichloroethene	2.283	1.955	14.4	83	0.00
23	M	tert-Butyl Alcohol	0.496	0.385	22.4	75	-0.01
24	M	Methyl tert-Butyl Ether	6.809	5.953	12.6	85	0.00
25	M	Chloroform	3.640	3.230	11.3	87	0.00
26		Cyclohexane	2.923	2.548	12.8	83	0.00
27	s	1,2-Dichloroethane-d4	2.336	2.445	-4.7	101	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
29		1,1-Dichloropropene	0.430	0.386	10.2	87	0.00
30	M	2-Butanone	0.317	0.285	10.1	85	-0.01
31		2,2-Dichloropropane	0.554	0.508	8.3	87	0.00
32	M	1,1,1-Trichloroethane	0.537	0.490	8.8	86	0.00
33	M	Carbon Tetrachloride	0.450	0.398	11.6	84	0.00
34	M	Benzene	1.426	1.275	10.6	86	0.00
35		Methacrylonitrile	0.334	0.278	16.8	79	0.00
36	M	1,2-Dichloroethane	0.495	0.459	7.3	88	0.00
37	M	Trichloroethene	0.338	0.286	15.4	81	0.00
38		Methylcyclohexane	0.531	0.453	14.7	82	0.00
39	M	1,2-Dichloropropane	0.358	0.318	11.2	86	0.00
40		Dibromomethane	0.260	0.236	9.2	86	0.00
41	M	Bromodichloromethane	0.532	0.475	10.7	87	0.00
42	M	Vinyl Acetate	1.080	0.998	7.6	94	0.00
43		Ethyl Acetate	0.610	0.557	8.7	86	-0.01
44		Isopropyl Acetate	0.996	0.864	13.3	83	0.00
45	T	1,4-Dioxane	0.007	0.005	28.6#	66	0.00
46		Methyl methacrylate	0.439	0.415	5.5	102	0.00
47		n-amyl Acetate	0.472	0.481	-1.9	99	0.02
48	M	t-1,3-Dichloropropene	0.591	0.518	12.4	86	0.00

Sample Results: **VN088055.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088055.D
Acq On : 17 Oct 2025 09:29
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Oct 18 01:18:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	cis-1,3-Dichloropropene	0.617	0.550	10.9	86	0.00
50	M	1,1,2-Trichloroethane	0.345	0.299	13.3	83	0.00
51		Ethyl methacrylate	0.583	0.500	14.2	85	0.00
52		1,3-Dichloropropane	0.601	0.543	9.7	87	0.00
53	M	Dibromochloromethane	0.412	0.364	11.7	86	0.00
54	M	1,2-Dibromoethane	0.369	0.317	14.1	83	0.00
55	M	2-Chloroethyl vinyl ether	0.315	0.280	11.1	83	0.00
56	M	Bromoform	0.279	0.226	19.0	81	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
58	M	4-Methyl-2-Pentanone	0.671	0.584	13.0	83	0.00
59	M	2-Hexanone	0.443	0.397	10.4	87	0.00
60	S	4-Bromofluorobenzene	0.495	0.493	0.4	95	0.00
61	M	Tetrachloroethene	0.304	0.254	16.4	79	0.00
62	M	Toluene	1.702	1.497	12.0	84	0.00
63	S	Toluene-d8	1.337	1.360	-1.7	97	0.00
64	M	Chlorobenzene	1.087	0.945	13.1	83	0.00
65		1,1,1,2-Tetrachloroethane	0.375	0.330	12.0	82	0.00
66	M	Ethyl Benzene	1.850	1.633	11.7	85	0.00
67	M	m/p-Xylenes	0.713	0.626	12.2	84	0.00
68	M	o-Xylene	0.710	0.606	14.6	82	0.00
69	M	Styrene	1.175	1.019	13.3	86	0.00
70		Isopropylbenzene	1.740	1.512	13.1	84	0.00
71	M	1,1,2,2-Tetrachloroethane	0.590	0.515	12.7	84	0.00
72		1,2,3-Trichloropropane	0.548	0.491	10.4	91	0.00
73		Bromobenzene	0.425	0.357	16.0	80	0.00
74		n-propylbenzene	2.101	1.847	12.1	85	0.00
75		2-Chlorotoluene	1.285	1.133	11.8	85	0.00
76		1,3,5-Trimethylbenzene	1.478	1.292	12.6	84	0.00
77		t-1,4-Dichloro-2-butene	0.218	0.175	19.7	85	0.00
78		4-Chlorotoluene	1.305	1.165	10.7	86	0.00
79		tert-butylbenzene	1.282	1.136	11.4	84	0.00
80		1,2,4-Trimethylbenzene	1.480	1.293	12.6	84	0.00
81		sec-Butylbenzene	1.802	1.596	11.4	85	0.00
82		p-Isopropyltoluene	1.538	1.356	11.8	84	0.00
83	M	1,3-Dichlorobenzene	0.800	0.685	14.4	81	0.00
84	M	1,4-Dichlorobenzene	0.825	0.695	15.8	80	0.00
85		n-Butylbenzene	1.431	1.268	11.4	85	0.00
86	T	Hexachloroethane	0.308	0.271	12.0	86	0.00
87	M	1,2-Dichlorobenzene	0.787	0.676	14.1	82	0.00
88		1,2-Dibromo-3-Chloropropane	0.136	0.117	14.0	80	0.00
89		1,2,4-Trichlorobenzene	0.469	0.373	20.5	76	0.00
90		Hexachlorobutadiene	0.163	0.130	20.2	78	0.00
91	M	Naphthalene	1.717	1.388	19.2	78	0.00
92		1,2,3-Trichlorobenzene	0.469	0.373	20.5	76	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **VN088055.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088055.D
Acq On : 17 Oct 2025 09:29
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Oct 18 01:18:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	Bromochloromethane	30.000	30.000	0.0	96	0.00
2	M	Dichlorodifluoromethane	20.000	17.514	12.4	81	0.00
3	M	Chloromethane	20.000	17.024	14.9	82	0.00
4	M	Vinyl Chloride	20.000	17.453	12.7	84	0.00
5	M	Bromomethane	20.000	17.904	10.5	90	0.00
6	M	Chloroethane	20.000	17.527	12.4	85	0.00
7	M	Trichlorofluoromethane	20.000	18.105	9.5	88	0.01
8	T	Diethyl Ether	20.000	17.544	12.3	86	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	17.658	11.7	86	0.00
10	M	1,1-Dichloroethene	20.000	17.542	12.3	85	0.00
11		Methyl Iodide	20.000	14.123	29.4#	82	0.00
12		Methyl Acetate	20.000	18.097	9.5	88	0.00
13	M	Acrolein	100.000	92.008	8.0	100	0.00
14	M	Acrylonitrile	100.000	85.644	14.4	84	0.00
15	M	Acetone	100.000	91.155	8.8	87	0.00
16	M	Carbon Disulfide	20.000	17.201	14.0	84	0.01
17		Allyl chloride	20.000	17.251	13.7	84	0.00
18	M	Methylene Chloride	20.000	17.377	13.1	86	0.00
19	M	trans-1,2-Dichloroethene	20.000	17.471	12.6	84	0.00
20	T	Diisopropyl ether	20.000	18.007	10.0	87	0.00
21	M	1,1-Dichloroethane	20.000	17.877	10.6	86	0.00
22	M	cis-1,2-Dichloroethene	20.000	17.125	14.4	83	0.00
23	M	tert-Butyl Alcohol	100.000	77.626	22.4	75	-0.01
24	M	Methyl tert-Butyl Ether	20.000	17.486	12.6	85	0.00
25	M	Chloroform	20.000	17.747	11.3	87	0.00
26		Cyclohexane	20.000	17.439	12.8	83	0.00
27	s	1,2-Dichloroethane-d4	30.000	31.393	-4.6	101	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	94	0.00
29		1,1-Dichloropropene	20.000	17.962	10.2	87	0.00
30	M	2-Butanone	100.000	89.786	10.2	85	-0.01
31		2,2-Dichloropropane	20.000	18.334	8.3	87	0.00
32	M	1,1,1-Trichloroethane	20.000	18.239	8.8	86	0.00
33	M	Carbon Tetrachloride	20.000	17.672	11.6	84	0.00
34	M	Benzene	20.000	17.882	10.6	86	0.00
35		Methacrylonitrile	20.000	16.643	16.8	79	0.00
36	M	1,2-Dichloroethane	20.000	18.531	7.3	88	0.00
37	M	Trichloroethene	20.000	16.902	15.5	81	0.00
38		Methylcyclohexane	20.000	17.044	14.8	82	0.00
39	M	1,2-Dichloropropane	20.000	17.791	11.0	86	0.00
40		Dibromomethane	20.000	18.115	9.4	86	0.00
41	M	Bromodichloromethane	20.000	17.860	10.7	87	0.00
42	M	Vinyl Acetate	100.000	92.397	7.6	94	0.00
43		Ethyl Acetate	20.000	18.273	8.6	86	-0.01
44		Isopropyl Acetate	20.000	17.358	13.2	83	0.00
45	T	1,4-Dioxane	400.000	299.765	25.1#	66	0.00
46		Methyl methacrylate	20.000	18.908	5.5	102	0.00
47		n-amyl Acetate	20.000	20.365	-1.8	99	0.02
48	M	t-1,3-Dichloropropene	20.000	17.526	12.4	86	0.00

Evaluate Continuing Calibration Report

Sample Results: **VN088055.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088055.D
Acq On : 17 Oct 2025 09:29
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Oct 18 01:18:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	cis-1,3-Dichloropropene	20.000	17.833	10.8	86	0.00
50	M	1,1,2-Trichloroethane	20.000	17.333	13.3	83	0.00
51		Ethyl methacrylate	20.000	17.140	14.3	85	0.00
52		1,3-Dichloropropane	20.000	18.069	9.7	87	0.00
53	M	Dibromochloromethane	20.000	17.666	11.7	86	0.00
54	M	1,2-Dibromoethane	20.000	17.184	14.1	83	0.00
55	M	2-Chloroethyl vinyl ether	100.000	88.807	11.2	83	0.00
56	M	Bromoform	20.000	16.246	18.8	81	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	96	0.00
58	M	4-Methyl-2-Pentanone	100.000	86.980	13.0	83	0.00
59	M	2-Hexanone	100.000	89.713	10.3	87	0.00
60	S	4-Bromofluorobenzene	30.000	29.905	0.3	95	0.00
61	M	Tetrachloroethene	20.000	16.745	16.3	79	0.00
62	M	Toluene	20.000	17.595	12.0	84	0.00
63	S	Toluene-d8	30.000	30.523	-1.7	97	0.00
64	M	Chlorobenzene	20.000	17.379	13.1	83	0.00
65		1,1,1,2-Tetrachloroethane	20.000	17.603	12.0	82	0.00
66	M	Ethyl Benzene	20.000	17.649	11.8	85	0.00
67	M	m/p-Xylenes	40.000	35.077	12.3	84	0.00
68	M	o-Xylene	20.000	17.081	14.6	82	0.00
69	M	Styrene	20.000	17.352	13.2	86	0.00
70		Isopropylbenzene	20.000	17.376	13.1	84	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	17.452	12.7	84	0.00
72		1,2,3-Trichloropropane	20.000	17.917	10.4	91	0.00
73		Bromobenzene	20.000	16.773	16.1	80	0.00
74		n-propylbenzene	20.000	17.581	12.1	85	0.00
75		2-Chlorotoluene	20.000	17.646	11.8	85	0.00
76		1,3,5-Trimethylbenzene	20.000	17.481	12.6	84	0.00
77		t-1,4-Dichloro-2-butene	20.000	15.998	20.0	85	0.00
78		4-Chlorotoluene	20.000	17.851	10.7	86	0.00
79		tert-butylbenzene	20.000	17.735	11.3	84	0.00
80		1,2,4-Trimethylbenzene	20.000	17.478	12.6	84	0.00
81		sec-Butylbenzene	20.000	17.713	11.4	85	0.00
82		p-Isopropyltoluene	20.000	17.630	11.9	84	0.00
83	M	1,3-Dichlorobenzene	20.000	17.105	14.5	81	0.00
84	M	1,4-Dichlorobenzene	20.000	16.843	15.8	80	0.00
85		n-Butylbenzene	20.000	17.722	11.4	85	0.00
86	T	Hexachloroethane	20.000	17.608	12.0	86	0.00
87	M	1,2-Dichlorobenzene	20.000	17.185	14.1	82	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	17.276	13.6	80	0.00
89		1,2,4-Trichlorobenzene	20.000	15.928	20.4	76	0.00
90		Hexachlorobutadiene	20.000	15.955	20.2	78	0.00
91	M	Naphthalene	20.000	16.169	19.2	78	0.00
92		1,2,3-Trichlorobenzene	20.000	15.928	20.4	76	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: ARDM01

Lab Code: ACE | SDG No.: Q3385

Instrument ID: MSVOA_N | Calibration Date/Time: 10/20/2025 08:52

Lab File ID: VN088072.D | Init. Calib. Date(s): 10/08/2025 10/08/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:34 11:12

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

COMPOUND	$\overline{RRF}$	RRF020	MIN RRF	%D	MAX%D
Chloromethane	1.948	1.947		-0.05	
Vinyl Chloride	2.031	2.097	0.1	3.25	
Bromomethane	1.092	1.203	0.1	10.16	
Chloroethane	1.340	1.480		10.45	
Trichlorofluoromethane	2.762	3.223		16.69	
1,1-Dichloroethene	1.577	1.667	0.1	5.71	
Acrolein	0.397	0.290		-26.95	
Acrylonitrile	1.238	1.199		-3.15	
Methylene Chloride	2.005	1.939		-3.29	
trans-1,2-Dichloroethene	1.824	1.794		-1.64	
1,1-Dichloroethane	3.528	3.632	0.2	2.95	
Carbon Tetrachloride	0.450	0.480	0.1	6.67	
Chloroform	3.640	3.692	0.2	1.43	
1,1,1-Trichloroethane	0.537	0.564	0.1	5.03	
Benzene	1.426	1.410	0.5	-1.12	
1,2-Dichloroethane	0.495	0.519	0.1	4.85	
Trichloroethene	0.338	0.322	0.3	-4.73	
1,2-Dichloropropane	0.358	0.355		-0.84	
Bromodichloromethane	0.532	0.534	0.2	0.38	
Toluene	1.702	1.675	0.4	-1.59	
t-1,3-Dichloropropene	0.591	0.577	0.1	-2.37	
cis-1,3-Dichloropropene	0.617	0.603	0.2	-2.27	
1,1,2-Trichloroethane	0.345	0.332	0.1	-3.77	
2-Chloroethyl vinyl ether	0.315	0.305		-3.17	
Dibromochloromethane	0.412	0.406	0.1	-1.46	
Tetrachloroethene	0.304	0.289	0.2	-4.93	
Chlorobenzene	1.087	1.064	0.5	-2.12	
Ethyl Benzene	1.850	1.840	0.1	-0.54	
m/p-Xylenes	0.713	0.703	0.3	-1.4	
o-Xylene	0.710	0.671	0.3	-5.49	
Bromoform	0.279	0.254	0.1	-8.96	
1,1,2,2-Tetrachloroethane	0.590	0.569	0.3	-3.56	
1,3-Dichlorobenzene	0.800	0.773	0.2	-3.38	
1,4-Dichlorobenzene	0.825	0.789	0.2	-4.36	
1,2-Dichlorobenzene	0.787	0.735	0.2	-6.61	
1,2-Dichloroethane-d4	2.336	2.535	0.01	8.52	
Toluene-d8	1.337	1.373	0.01	2.69	
4-Bromofluorobenzene	0.495	0.491	0.2	-0.81	

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088072.D
Acq On : 20 Oct 2025 08:52
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 21 05:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	7.794	128	63726	30.000 ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	362466	30.000 ug/l	0.00
57) Chlorobenzene-d5	11.847	117	325295	30.000 ug/l	0.00
System Monitoring Compounds					
27) 1,2-Dichloroethane-d4	8.559	65	161531	32.552 ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.500%		
60) 4-Bromofluorobenzene	12.829	95	159804	29.799 ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.333%		
63) Toluene-d8	10.547	98	446523	30.809 ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.700%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.142	85	80003	21.918 ug/l	91
3) Chloromethane	2.383	50	82731	19.992 ug/l	97
4) Vinyl Chloride	2.536	62	89098	20.649 ug/l	98
5) Bromomethane	2.983	94	51124	22.034 ug/l	95
6) Chloroethane	3.142	64	62867	22.087 ug/l	94
7) Trichlorofluoromethane	3.512	101	136939	23.338 ug/l	99
8) Diethyl Ether	3.965	74	55914	21.090 ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	70080	22.311 ug/l	81
10) 1,1-Dichloroethene	4.336	96	70811	21.134 ug/l	99
11) Methyl Iodide	4.577	142	51497	16.676 ug/l	94
12) Methyl Acetate	5.018	43	116645	21.414 ug/l #	82
13) Acrolein	4.171	56	61550	73.018 ug/l #	2
14) Acrylonitrile	5.706	53	254729	96.903 ug/l	99
15) Acetone	4.418	58	70682	91.815 ug/l	87
16) Carbon Disulfide	4.706	76	206839	19.692 ug/l	95
17) Allyl chloride	5.012	41	127700	20.198 ug/l	98
18) Methylene Chloride	5.259	84	82361	19.340 ug/l	93
19) trans-1,2-Dichloroethene	5.771	96	76196	19.669 ug/l	88
20) Diisopropyl ether	6.653	45	292084	20.292 ug/l	98
21) 1,1-Dichloroethane	6.553	63	154307	20.593 ug/l	95
22) cis-1,2-Dichloroethene	7.477	96	96556	19.911 ug/l	97
23) tert-Butyl Alcohol	5.512	59	96312	91.354 ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	286064	19.779 ug/l	99
25) Chloroform	7.947	83	156842	20.283 ug/l	100
26) Cyclohexane	8.241	56	129471	20.854 ug/l #	91
29) 1,1-Dichloropropene	8.353	75	107889	20.766 ug/l	96
30) 2-Butanone	7.471	43	358564	93.573 ug/l	98
31) 2,2-Dichloropropane	7.471	77	144018	21.513 ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	136339	21.001 ug/l	98
33) Carbon Tetrachloride	8.341	117	115927	21.318 ug/l	99
34) Benzene	8.588	78	340745	19.772 ug/l	98
35) Methacrylonitrile	7.765	41	77127	19.140 ug/l	97
36) 1,2-Dichloroethane	8.647	62	125450	20.969 ug/l	98
37) Trichloroethene	9.335	130	77911	19.082 ug/l	96
38) Methylcyclohexane	9.582	83	131494	20.494 ug/l	96
39) 1,2-Dichloropropane	9.600	63	85704	19.834 ug/l	98
40) Dibromomethane	9.688	93	62463	19.858 ug/l	93
41) Bromodichloromethane	9.865	83	128973	20.076 ug/l	97
42) Vinyl Acetate	6.588	43	1206232	92.402 ug/l	99

Sample Results: **VN088072.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088072.D
Acq On : 20 Oct 2025 08:52
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 21 05:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	147783	20.063	ug/l	98
44) Isopropyl Acetate	8.671	43	230525	19.161	ug/l	99
45) 1,4-Dioxane	9.682	88	31429	392.783	ug/l #	95
46) Methyl methacrylate	9.665	41	90825	17.143	ug/l	96
47) n-amyl Acetate	12.576	43	131674m	23.091	ug/l	
48) t-1,3-Dichloropropene	10.818	75	139436	19.520	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	145645	19.546	ug/l	92
50) 1,1,2-Trichloroethane	10.994	97	80339	19.287	ug/l	94
51) Ethyl methacrylate	10.853	69	134305	19.052	ug/l	95
52) 1,3-Dichloropropane	11.141	76	143752	19.780	ug/l	99
53) Dibromochloromethane	11.341	129	98131	19.706	ug/l	97
54) 1,2-Dibromoethane	11.447	107	86411	19.404	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	368632	96.878	ug/l	99
56) Bromoform	12.559	173	61257	18.195	ug/l	97
58) 4-Methyl-2-Pentanone	10.424	43	704411	96.812	ug/l	98
59) 2-Hexanone	11.176	43	456860	95.101	ug/l	99
61) Tetrachloroethene	11.082	164	62742	19.047	ug/l	95
62) Toluene	10.606	91	363252	19.686	ug/l	99
64) Chlorobenzene	11.871	112	230771	19.581	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.935	131	79692	19.621	ug/l	98
66) Ethyl Benzene	11.941	91	399110	19.892	ug/l	100
67) m/p-Xylenes	12.047	106	304711	39.395	ug/l	99
68) o-Xylene	12.376	106	145451	18.890	ug/l	93
69) Styrene	12.388	104	245082	19.241	ug/l	98
70) Isopropylbenzene	12.670	105	377646	20.011	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.918	83	123484	19.300	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	123985m	20.866	ug/l	
73) Bromobenzene	12.959	156	85045	18.438	ug/l	90
74) n-propylbenzene	13.012	91	465597	20.437	ug/l	98
75) 2-Chlorotoluene	13.106	91	279953	20.097	ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	316376	19.736	ug/l	97
77) t-1,4-Dichloro-2-butene	12.718	75	43352	18.307	ug/l	94
78) 4-Chlorotoluene	13.200	91	289399	20.449	ug/l	95
79) tert-butylbenzene	13.417	119	276106	19.868	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	321547	20.037	ug/l	97
81) sec-Butylbenzene	13.594	105	405651	20.761	ug/l	97
82) p-Isopropyltoluene	13.706	119	336823	20.191	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	167629	19.315	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	171003	19.106	ug/l	98
85) n-Butylbenzene	14.035	91	325847	20.996	ug/l	97
86) Hexachloroethane	14.306	117	68161	20.397	ug/l	87
87) 1,2-Dichlorobenzene	14.082	146	159365	18.669	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	27995	19.052	ug/l	90
89) 1,2,4-Trichlorobenzene	15.811	180	89076	17.519	ug/l	98
90) Hexachlorobutadiene	15.476	225	33669	19.026	ug/l	98
91) Naphthalene	15.611	128	335656	18.031	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	89076	17.519	ug/l	98

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

Quantitation Report (QT Reviewed)

Sample Results: **VN088072.D**

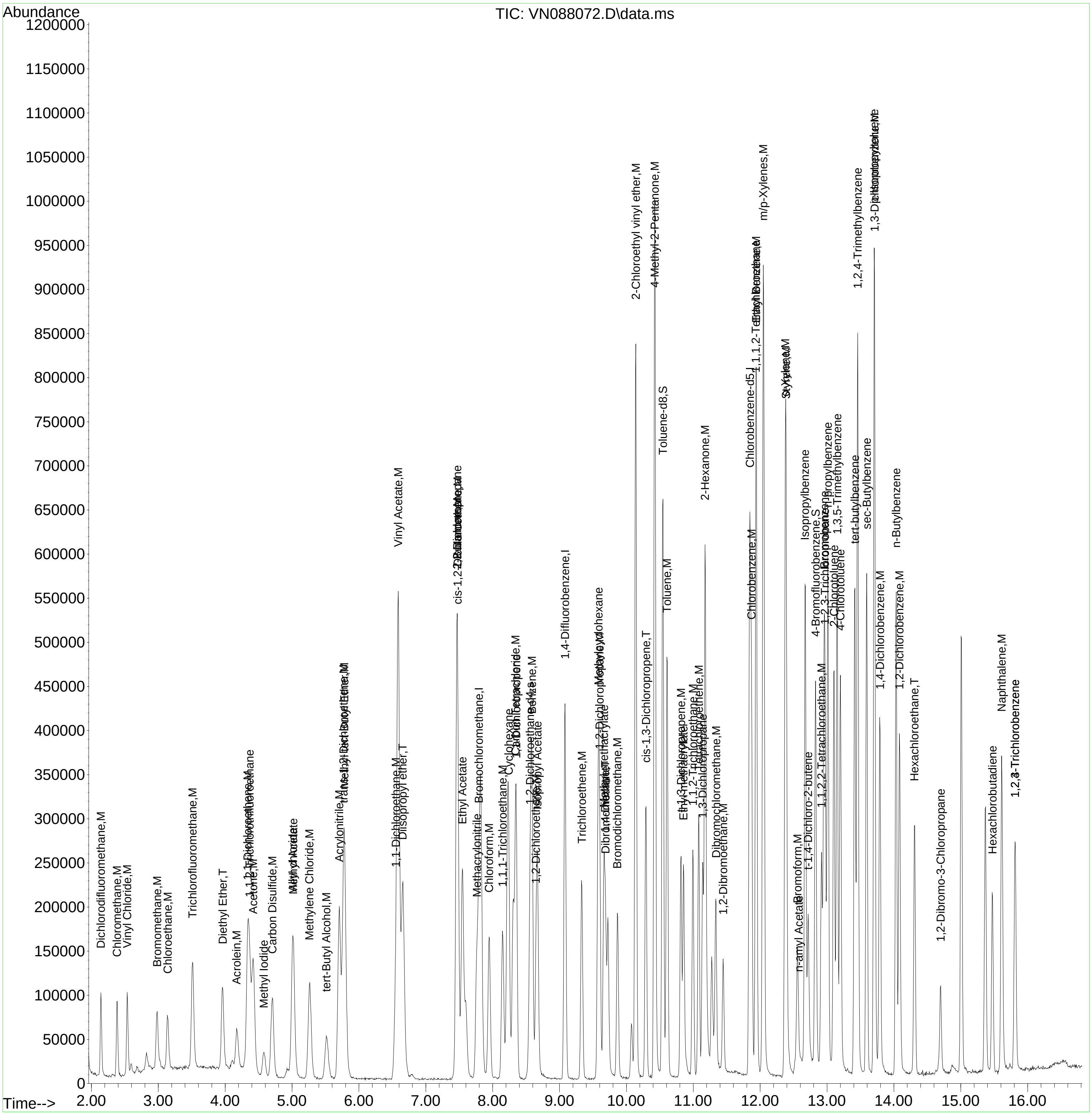
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088072.D
Acq On    : 20 Oct 2025  08:52
Operator  : JC\MD
Sample    : VSTDCCC020
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Oct 21 05:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title  : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



Sample Results: **VN088072.D**

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

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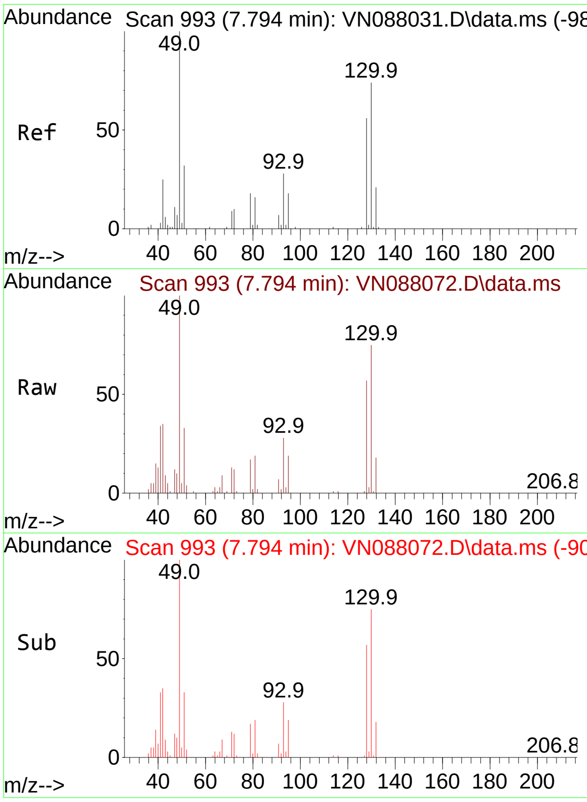
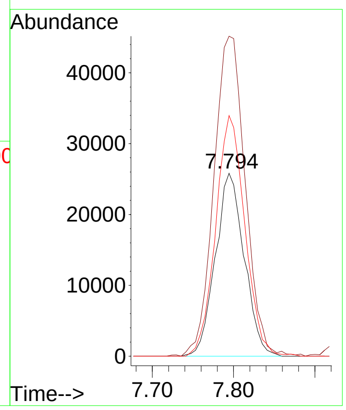
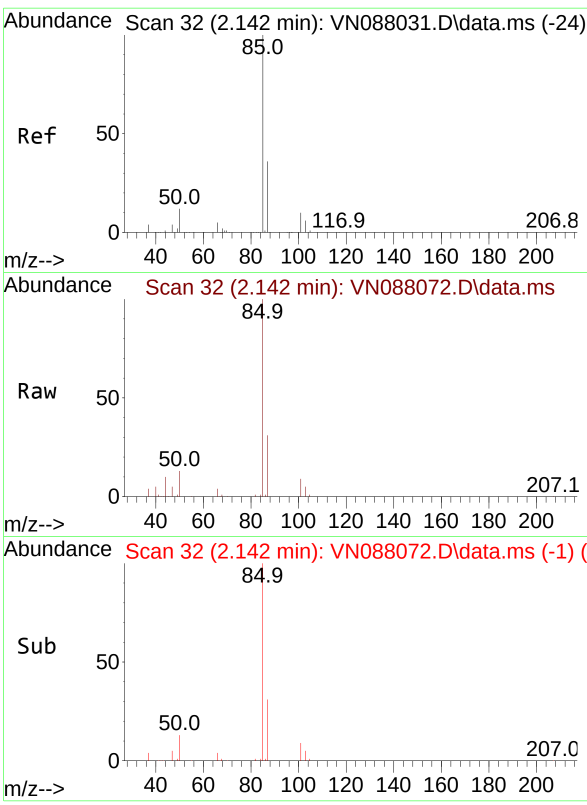
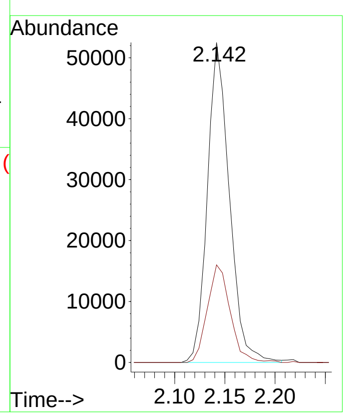


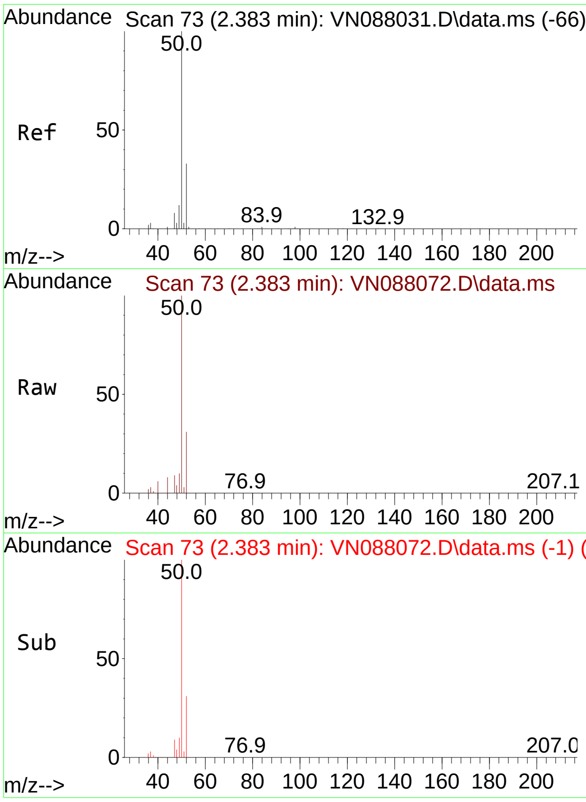

```
#1
Bromochloromethane
Concen:   30.000 ug/l
RT:   7.794 min   Scan# 99
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025   08:52

Tgt Ion:128 Resp:   6372
Ion  Ratio  Lower  Upper
128  100
 49  190.1    0.0  439.8
130  133.2    0.0  325.8
```






```
#2
Dichlorodifluoromethane
Concen:   21.918 ug/l
RT:   2.142 min   Scan# 32
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025   08:52

Tgt Ion: 85 Resp:   80003
Ion  Ratio  Lower  Upper
 85  100
 87   30.5   17.9   53.8
```





#3
Chloromethane
Concen: 19.992 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 50 Resp: 8273

Ion	Ratio	Lower	Upper
50	100		
52	31.2	26.3	39.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/21/2025
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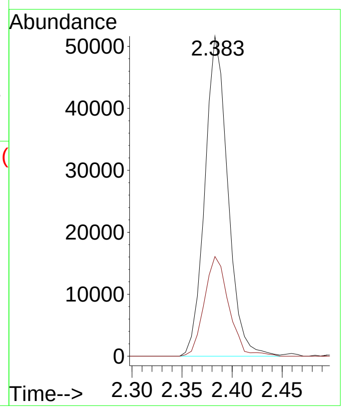
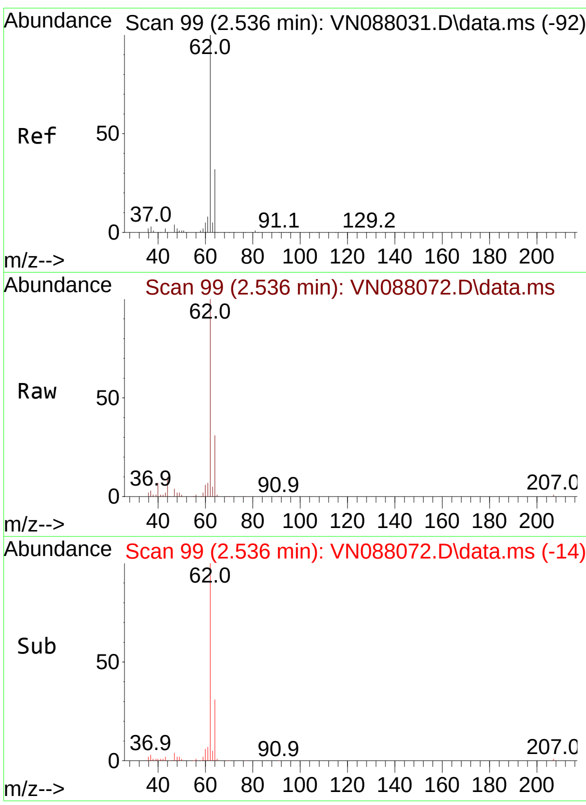
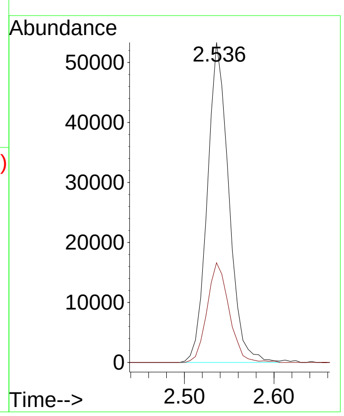




#4
Vinyl Chloride
Concen: 20.649 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 62 Resp: 89098

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

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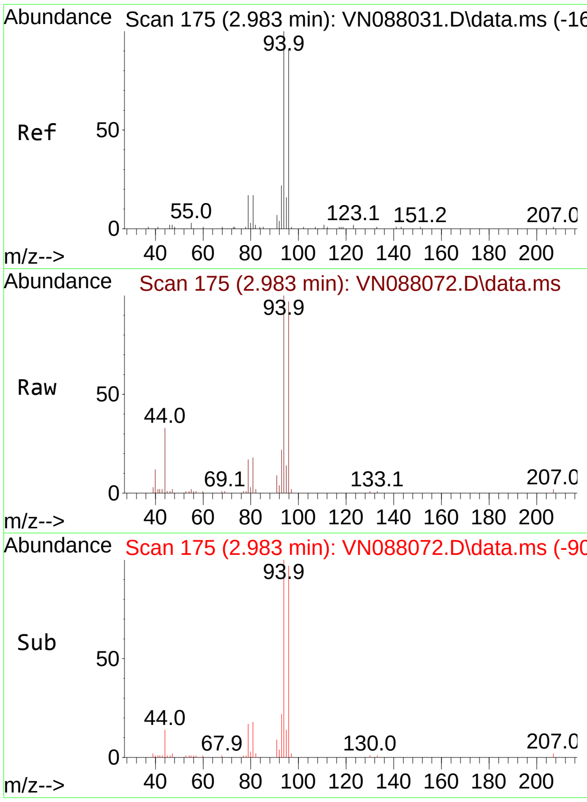
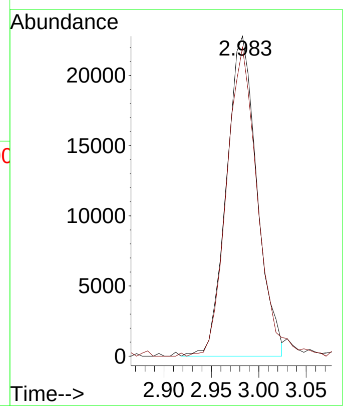
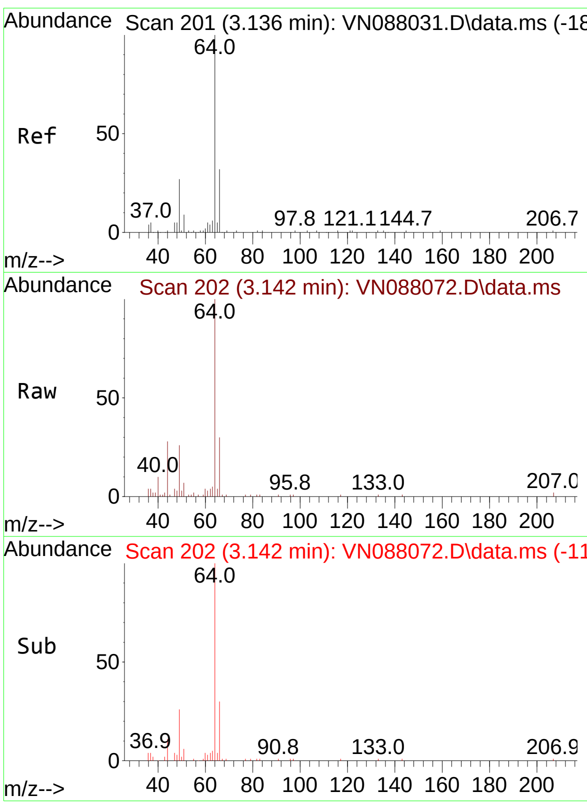
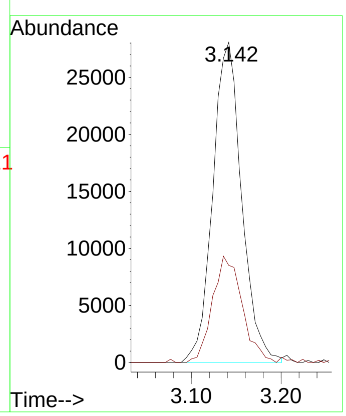


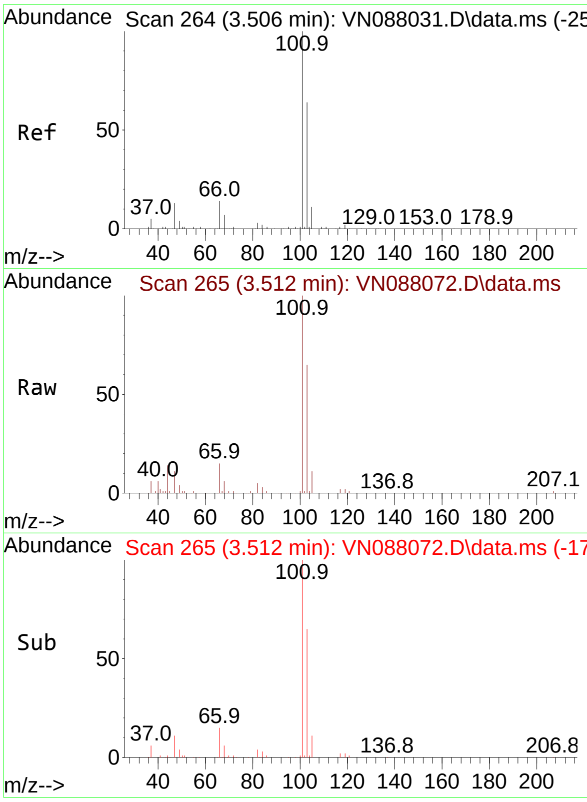

```
#5
Bromomethane
Concen:    22.034 ug/l
RT:    2.983 min   Scan# 1
Delta R.T.   0.000 min
Lab File:    VN088072.D
Acq: 20 Oct 2025   08:52

Tgt Ion: 94 Resp:    5112
Ion   Ratio   Lower   Upper
 94   100
 96    95.5    73.0   109.4
```






```
#6
Chloroethane
Concen:    22.087 ug/l
RT:    3.142 min   Scan# 202
Delta R.T.   0.006 min
Lab File:    VN088072.D
Acq: 20 Oct 2025   08:52

Tgt Ion: 64 Resp:    62867
Ion   Ratio   Lower   Upper
 64   100
 66    30.4    26.8    40.2
```





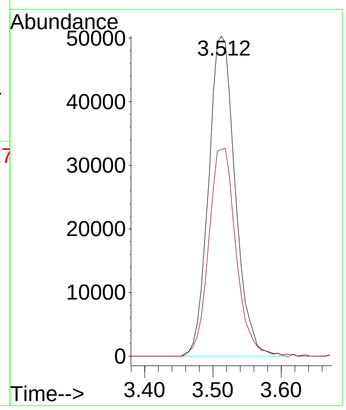
#7
Trichlorofluoromethane
Concen: 23.338 ug/l
RT: 3.512 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

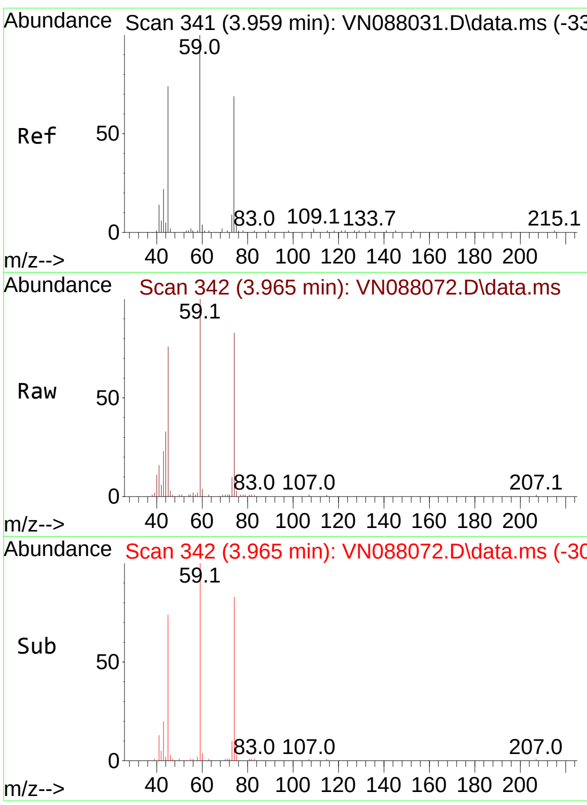
Tgt Ion:101 Resp: 13693

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.0	76.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

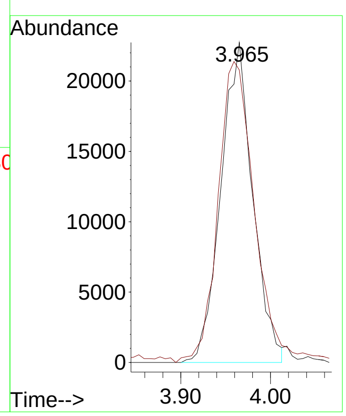




#8
Diethyl Ether
Concen: 21.090 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 74 Resp: 55914

Ion	Ratio	Lower	Upper
74	100		
45	106.4	20.4	183.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
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Reviewed By :John Carlone 10/21/2025
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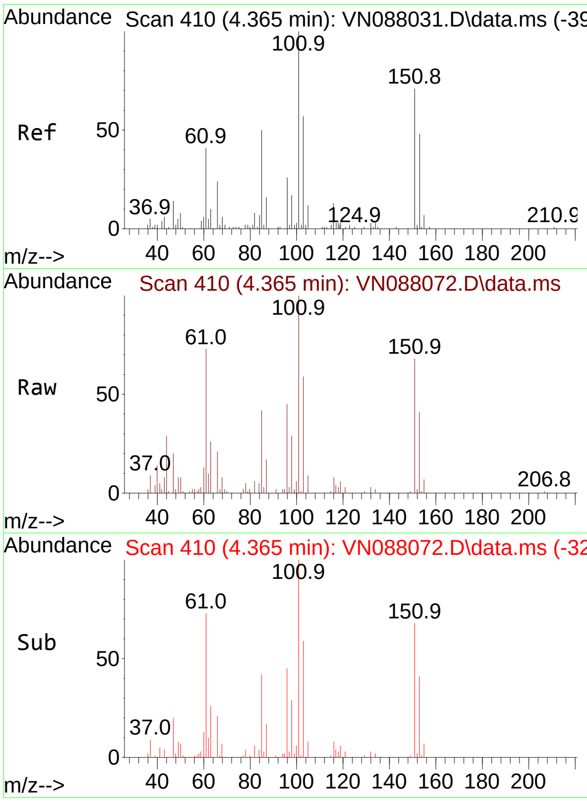
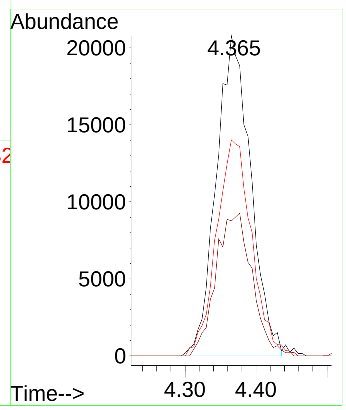
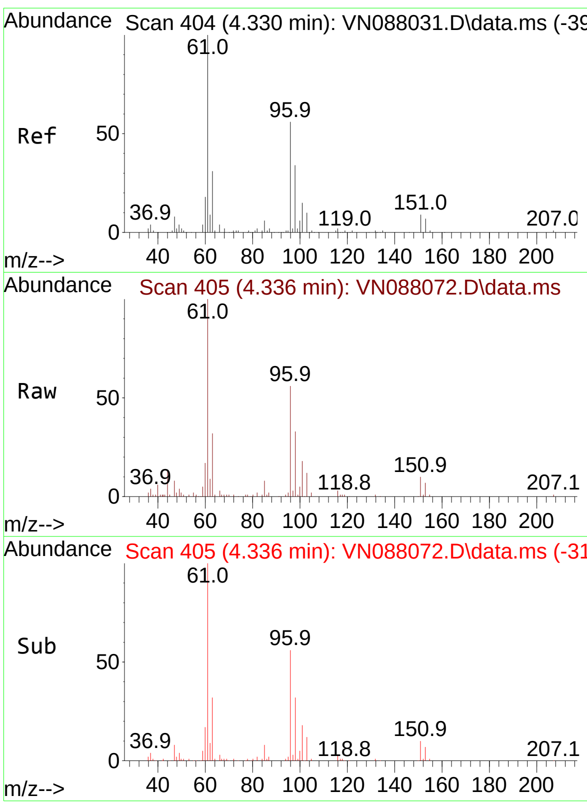
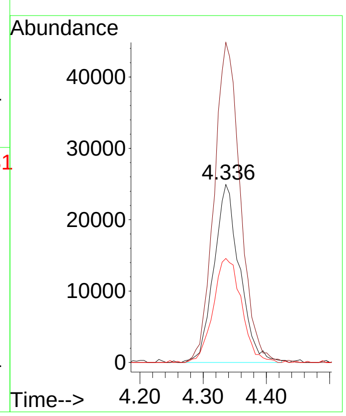



```
#9
1,1,2-Trichlorotrifluoroethane
Concen:   22.311 ug/l
RT:   4.365 min   Scan# 41
Delta R.T.   0.000 min
Lab File:    VN088072.D
Acq: 20 Oct 2025   08:52

Tgt Ion:101 Resp:   7008(
Ion   Ratio   Lower   Upper
101   100
 85    22.7     0.0   103.2
151    69.1     0.0   141.4
```






```
#10
1,1-Dichloroethene
Concen:   21.134 ug/l
RT:   4.336 min   Scan# 405
Delta R.T.   0.006 min
Lab File:    VN088072.D
Acq: 20 Oct 2025   08:52

Tgt Ion: 96 Resp:    70811
Ion   Ratio   Lower   Upper
 96   100
 61   179.9   144.1   216.1
 98    58.5    49.0    73.6
```



Sample Results: **VN088072.D**

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
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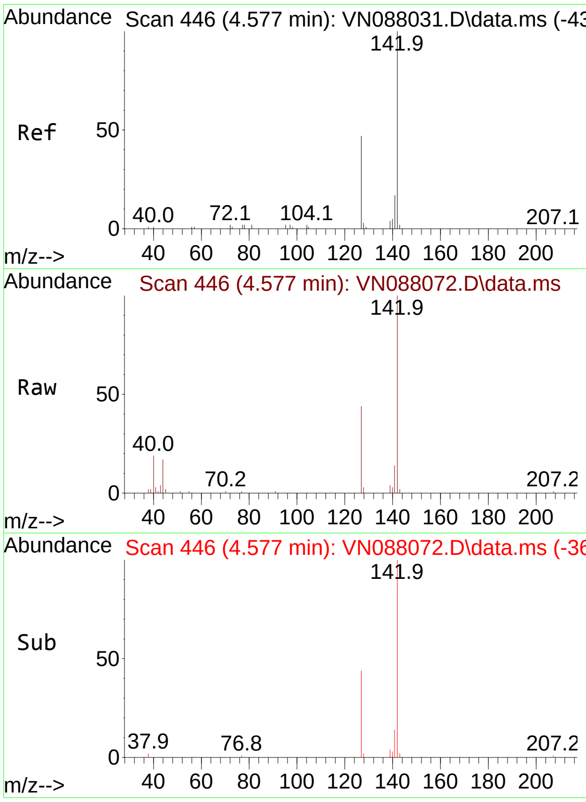
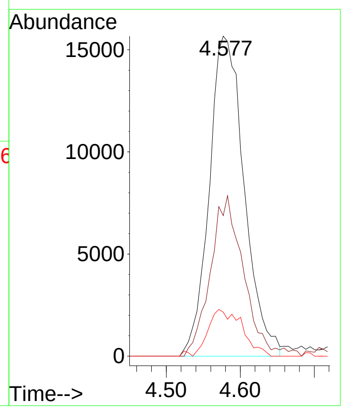
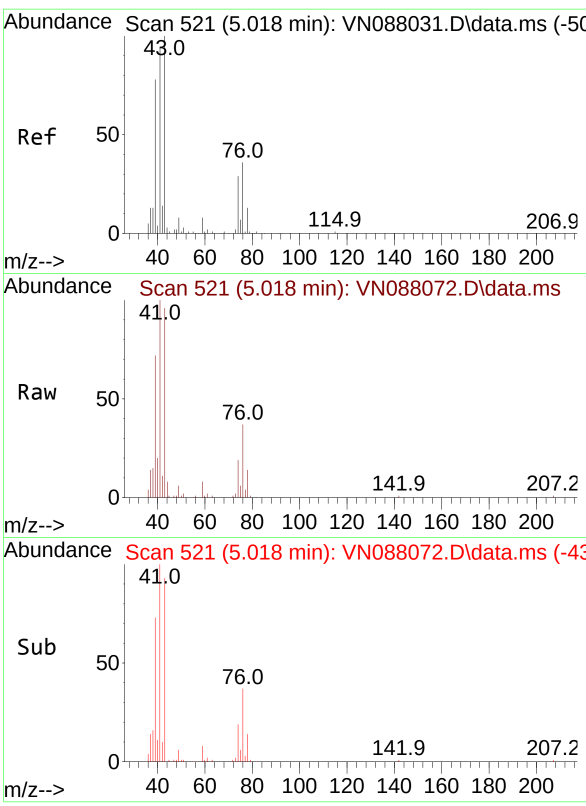
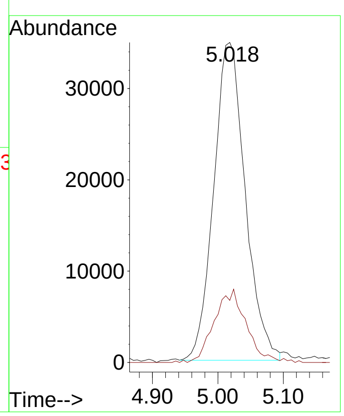


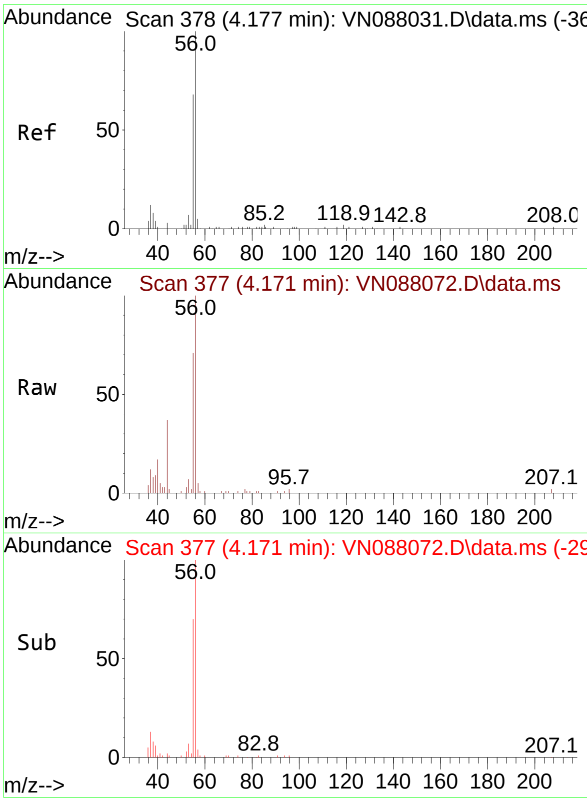

```
#11
Methyl Iodide
Concen:   16.676 ug/l
RT:   4.577 min  Scan# 44
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion:142 Resp:   5149
Ion  Ratio  Lower  Upper
142  100
127   43.6   23.4   70.3
141   13.9    8.8   26.2
```






```
#12
Methyl Acetate
Concen:   21.414 ug/l
RT:   5.018 min  Scan# 521
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion: 43 Resp:  116645
Ion  Ratio  Lower  Upper
 43  100
 74   19.5   23.3   34.9#
```





#13
Acrolein
Concen: 73.018 ug/l
RT: 4.171 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 56 Resp: 6155

Ion	Ratio	Lower	Upper
56	100		
55	73.8	0.3	0.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

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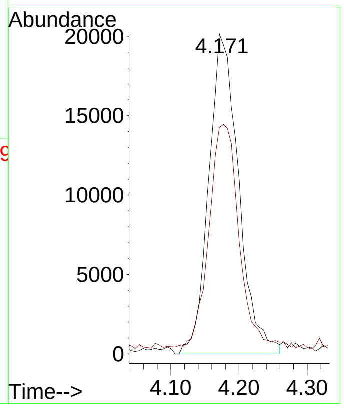
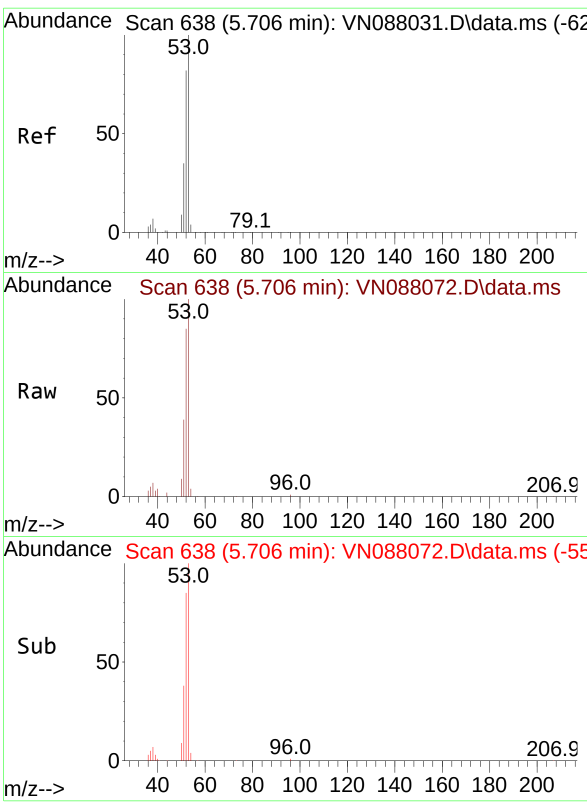
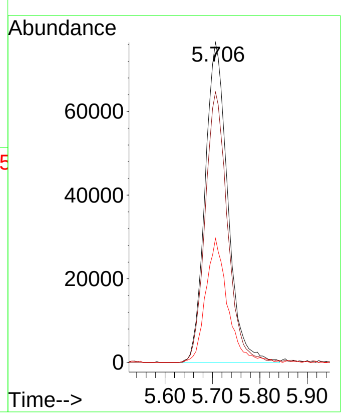




#14
Acrylonitrile
Concen: 96.903 ug/l
RT: 5.706 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 53 Resp: 254729

Ion	Ratio	Lower	Upper
53	100		
52	83.1	41.3	124.1
51	36.8	18.0	54.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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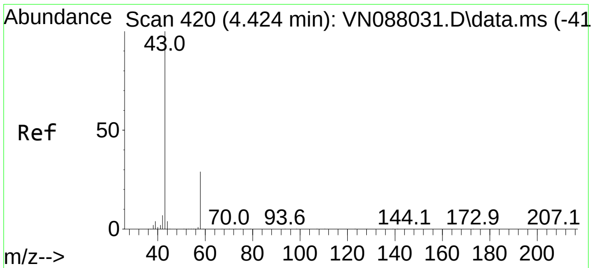
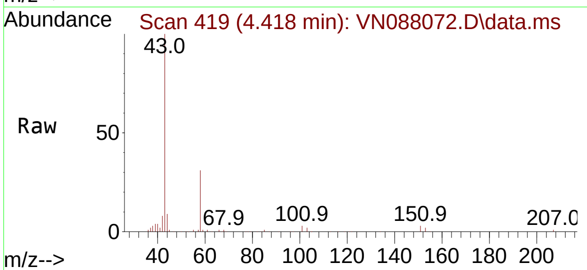
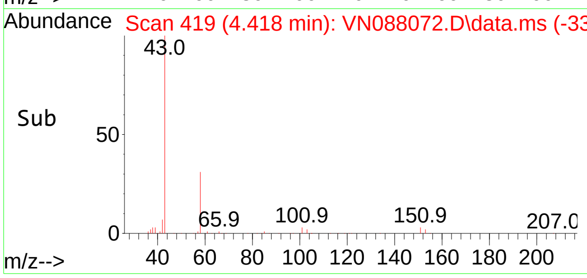
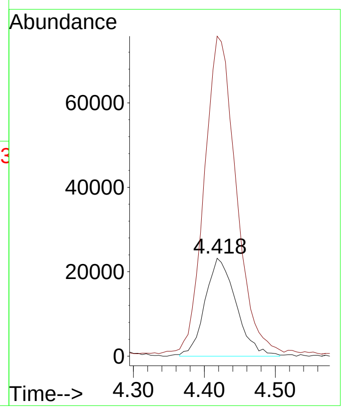


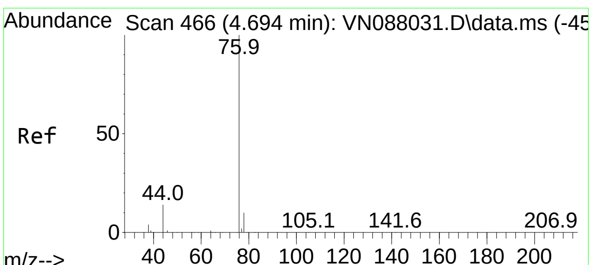


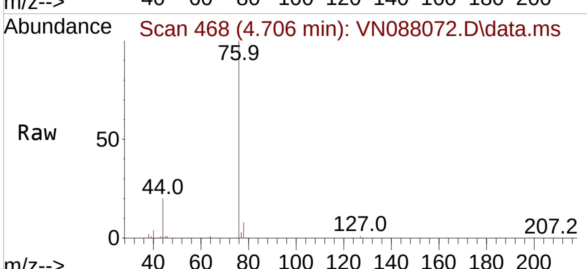


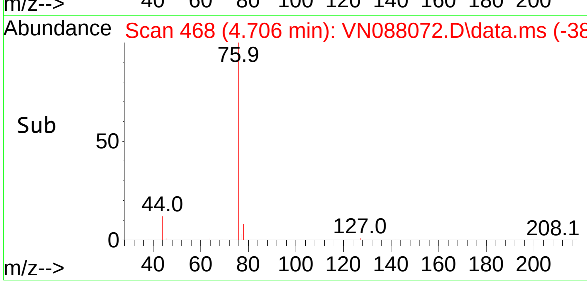

```
#15
Acetone
Concen:   91.815 ug/l
RT:   4.418 min  Scan# 4
Delta R.T.  -0.006 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion: 58 Resp:   7068
Ion  Ratio  Lower  Upper
 58  100
 43  323.8  282.6  424.0
```



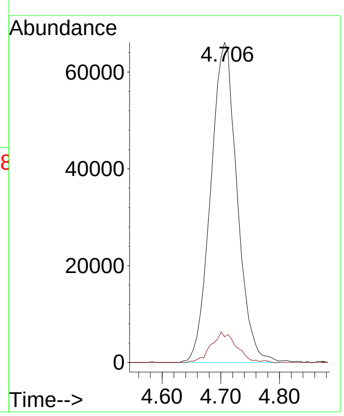







```
#16
Carbon Disulfide
Concen:   19.692 ug/l
RT:   4.706 min  Scan# 468
Delta R.T.  0.012 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion: 76 Resp:  206839
Ion  Ratio  Lower  Upper
 76  100
 78    8.1    7.8   11.8
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

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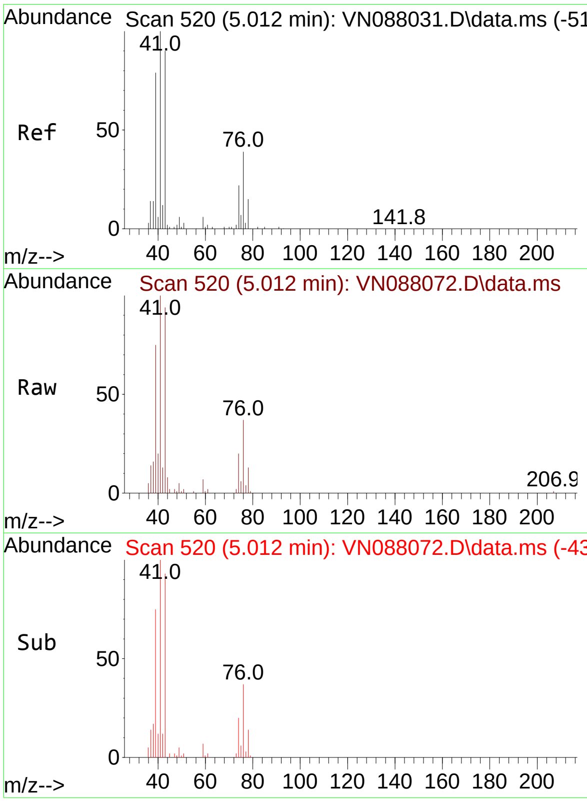
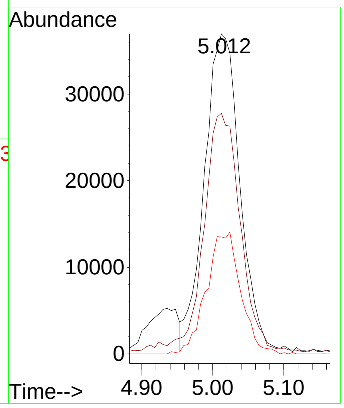
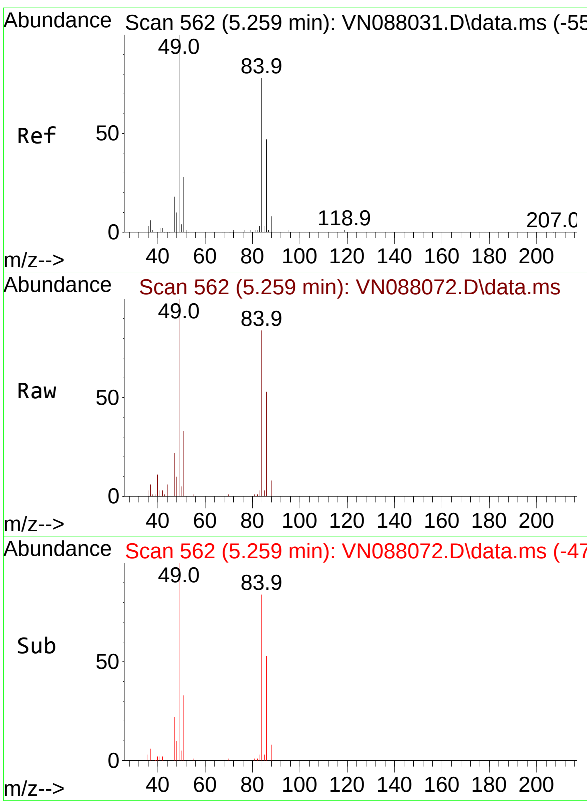


#17
Allyl chloride
Concen: 20.198 ug/l
RT: 5.012 min Scan# 5
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 41 Resp: 12770

Ion	Ratio	Lower	Upper
41	100		
39	74.9	36.4	109.2
76	37.2	18.1	54.1

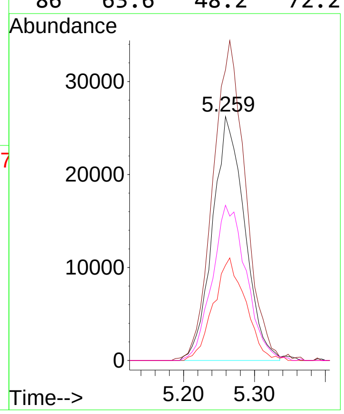




#18
Methylene Chloride
Concen: 19.340 ug/l
RT: 5.259 min Scan# 562
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 84 Resp: 82361

Ion	Ratio	Lower	Upper
84	100		
49	118.1	102.6	153.8
51	39.1	28.6	42.8
86	63.6	48.2	72.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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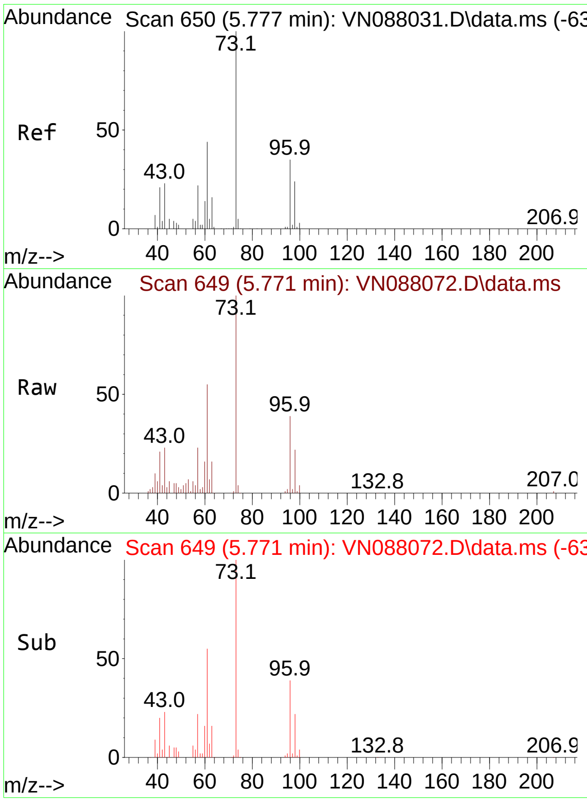
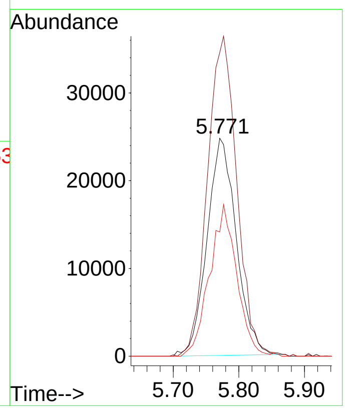
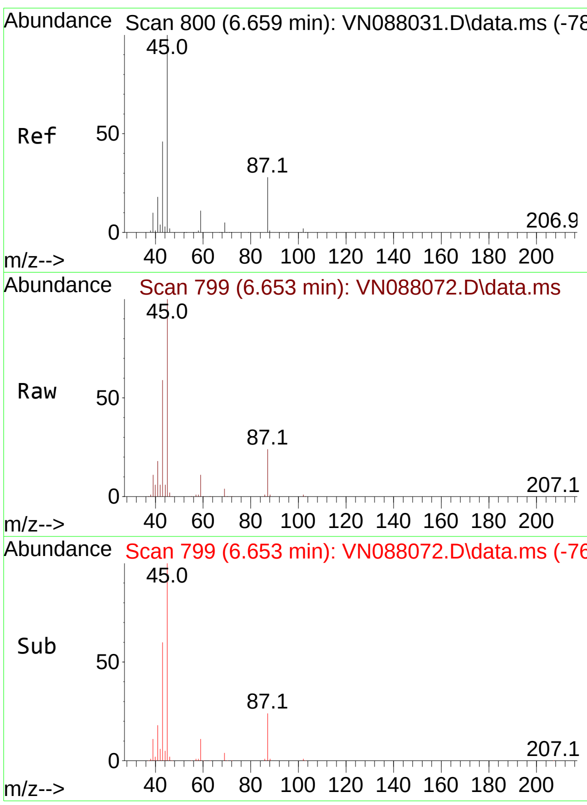


#19
trans-1,2-Dichloroethene
Concen: 19.669 ug/l
RT: 5.771 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 96 Resp: 7619

Ion	Ratio	Lower	Upper
96	100		
61	139.5	100.6	151.0
98	57.5	54.0	81.0

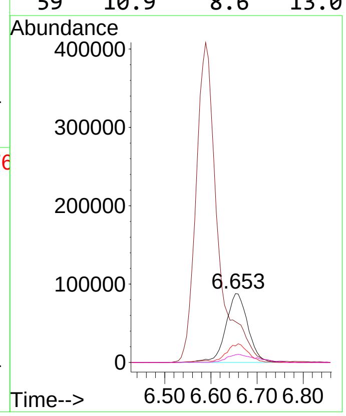




#20
Diisopropyl ether
Concen: 20.292 ug/l
RT: 6.653 min Scan# 799
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 45 Resp: 292084

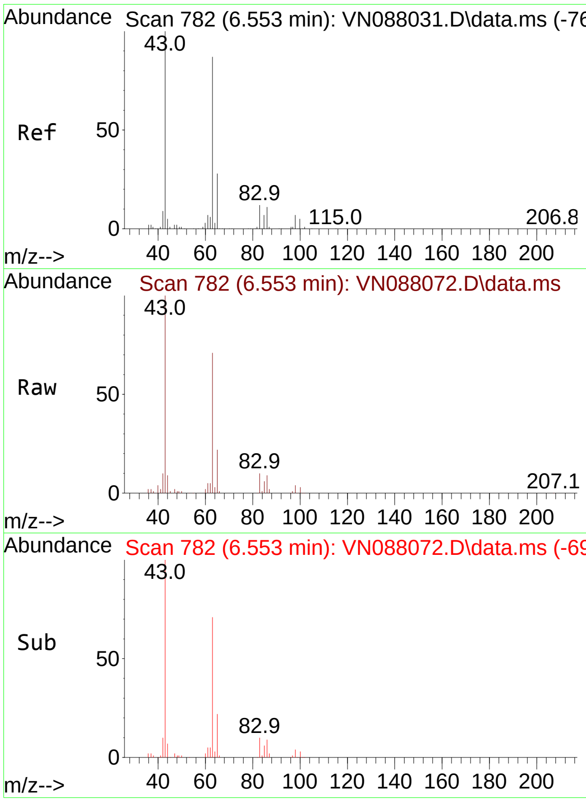
Ion	Ratio	Lower	Upper
45	100		
43	57.6	46.1	69.1
87	24.0	22.3	33.5
59	10.9	8.6	13.0



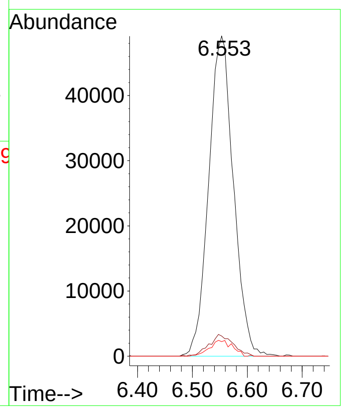
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

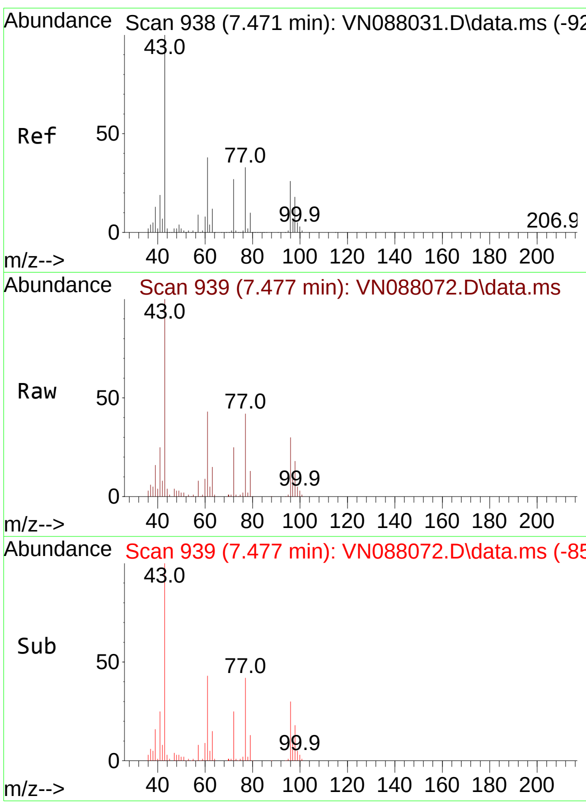
Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

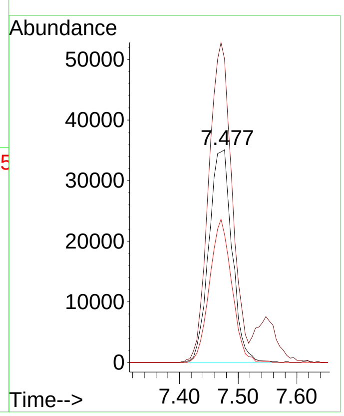



```
#21
1,1-Dichloroethane
Concen:   20.593 ug/l
RT:   6.553 min  Scan# 7
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion: 63 Resp:  15430
Ion  Ratio  Lower  Upper
 63  100
 98    6.3    4.3   12.8
100    4.6    2.6    8.0
```






```
#22
cis-1,2-Dichloroethene
Concen:   19.911 ug/l
RT:   7.477 min  Scan# 939
Delta R.T.  0.006 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion: 96 Resp:   96556
Ion  Ratio  Lower  Upper
 96  100
 61  150.8  117.0  175.6
 98   64.1   52.6   79.0
```



Instrument :
MSVOA_N
ClientSampleId :
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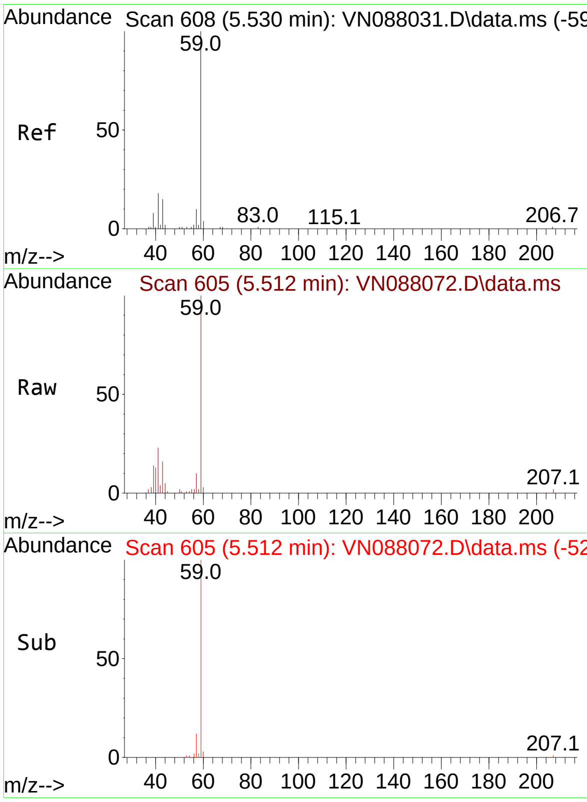
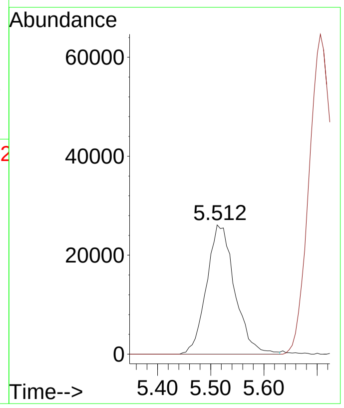
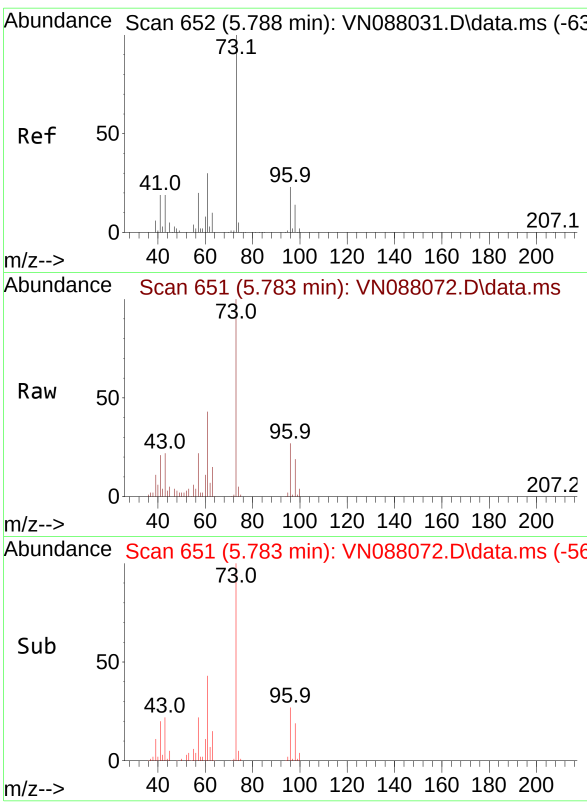
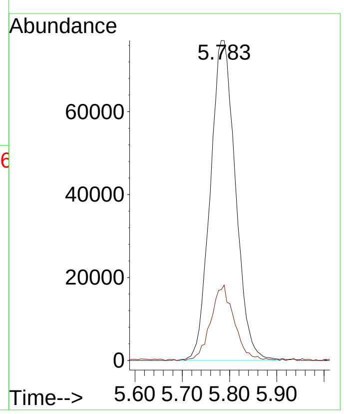


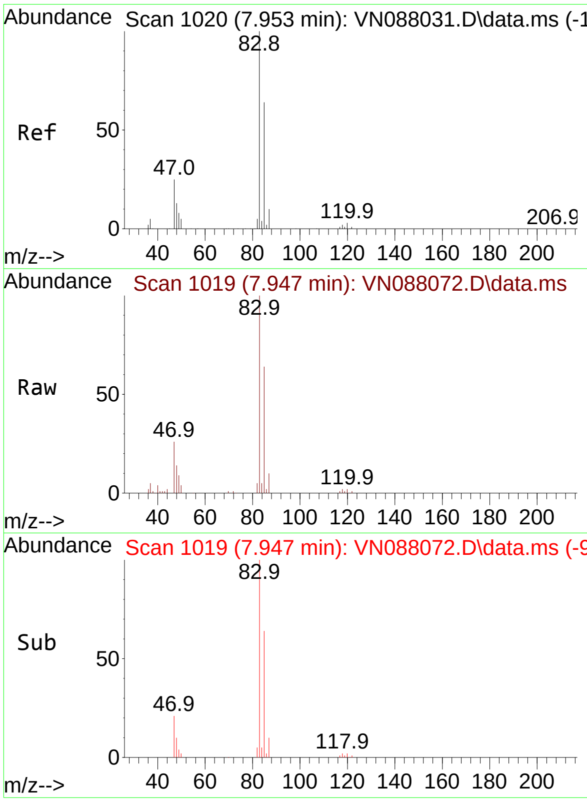

```
#23
tert-Butyl Alcohol
Concen:   91.354 ug/l
RT:   5.512 min   Scan# 60
Delta R.T.   -0.018 min
Lab File:    VN088072.D
Acq: 20 Oct 2025   08:52

Tgt Ion: 59 Resp:   9631
Ion   Ratio   Lower   Upper
 59   100
 52     0.0     0.0     0.0
```






```
#24
Methyl tert-Butyl Ether
Concen:   19.779 ug/l
RT:   5.783 min   Scan# 651
Delta R.T.   -0.006 min
Lab File:    VN088072.D
Acq: 20 Oct 2025   08:52

Tgt Ion: 73 Resp:   286064
Ion   Ratio   Lower   Upper
 73   100
 43    21.6    17.0    25.4
```





#25
Chloroform
Concen: 20.283 ug/l
RT: 7.947 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 83 Resp: 15684

Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.9	76.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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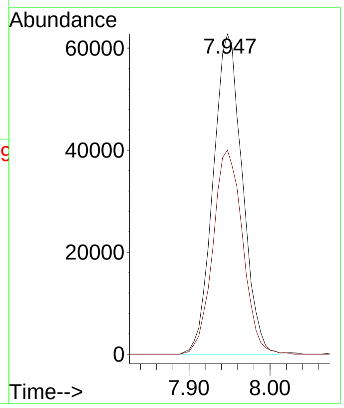
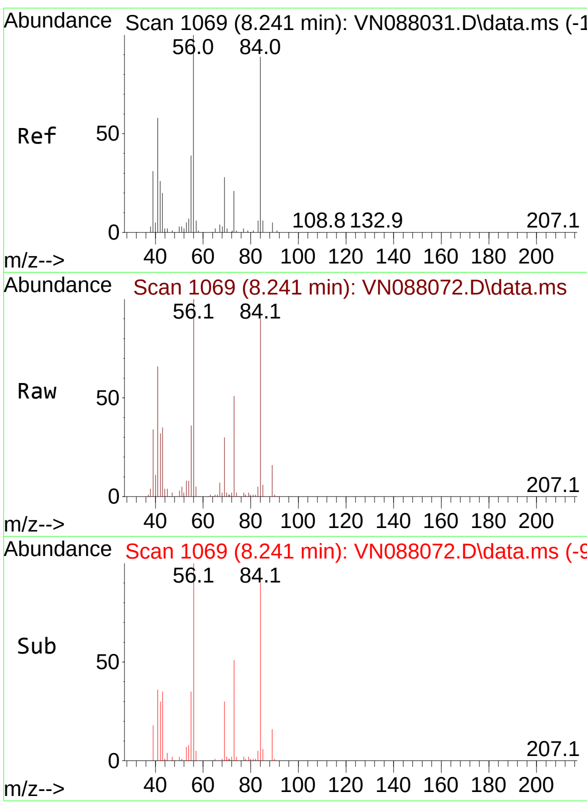
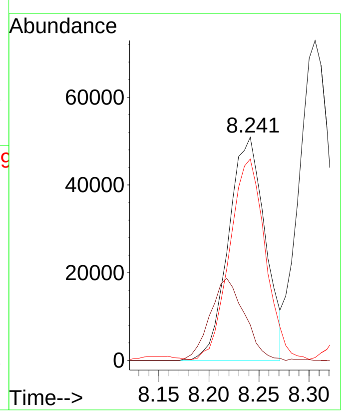




#26
Cyclohexane
Concen: 20.854 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 56 Resp: 129471

Ion	Ratio	Lower	Upper
56	100		
89	34.7	8.6	12.8#
84	88.7	69.6	104.4



Instrument :
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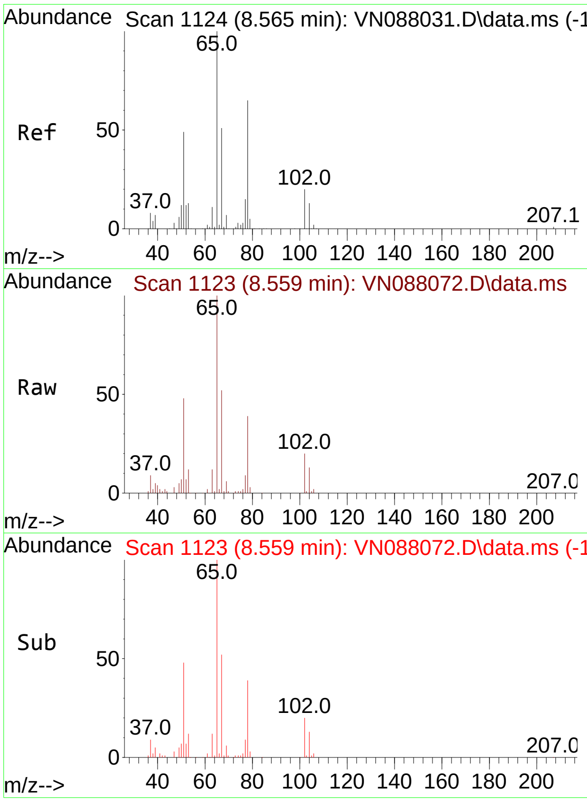
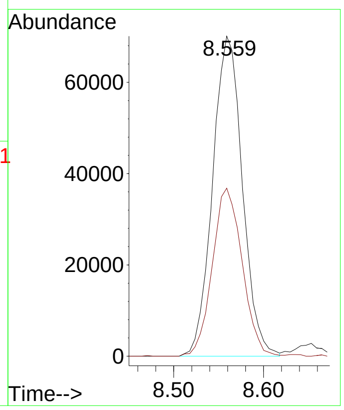
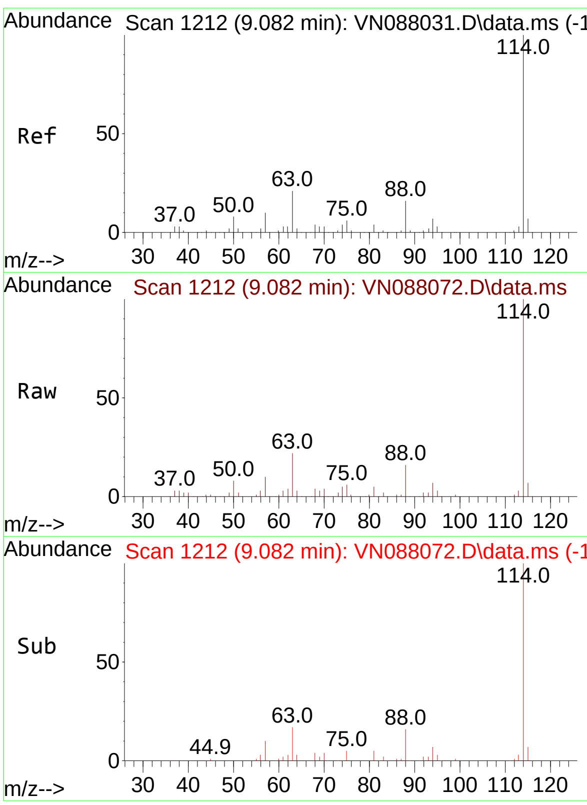


#27
1,2-Dichloroethane-d4
Concen: 32.552 ug/l
RT: 8.559 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 65 Resp: 16153

Ion	Ratio	Lower	Upper
65	100		
67	52.5	41.9	62.9

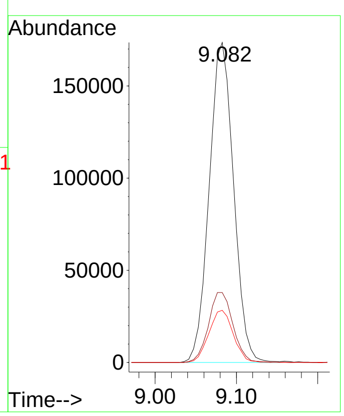


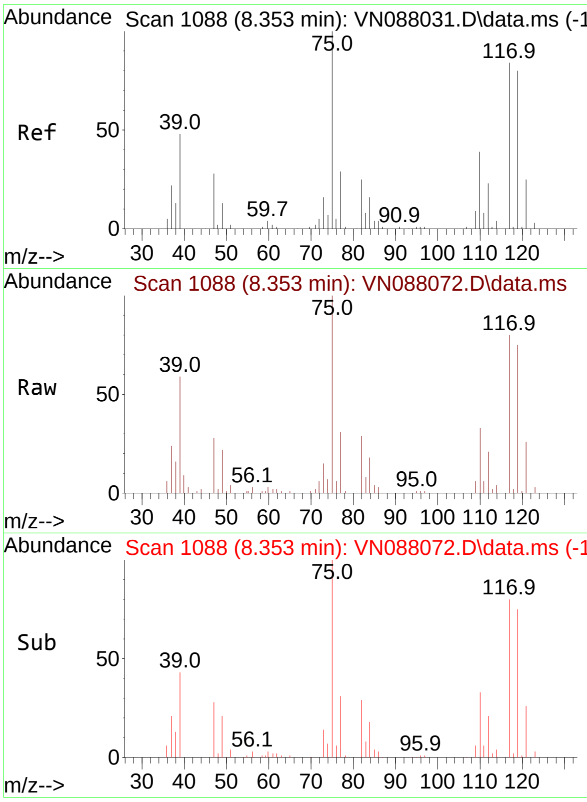


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:114 Resp: 362466

Ion	Ratio	Lower	Upper
114	100		
63	21.9	16.6	25.0
88	16.2	12.6	18.8

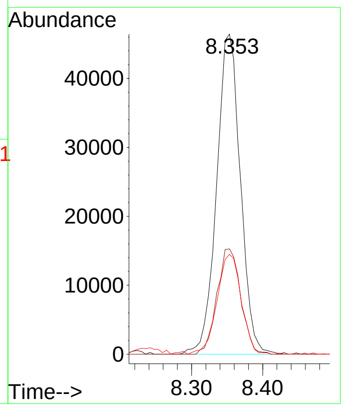




#29
1,1-Dichloropropene
Concen: 20.766 ug/l
RT: 8.353 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 75 Resp: 107889

Ion	Ratio	Lower	Upper
75	100		
110	32.9	0.0	72.2
77	31.5	0.0	60.6



Instrument :
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ClientSampleId :
VSTDCCC020

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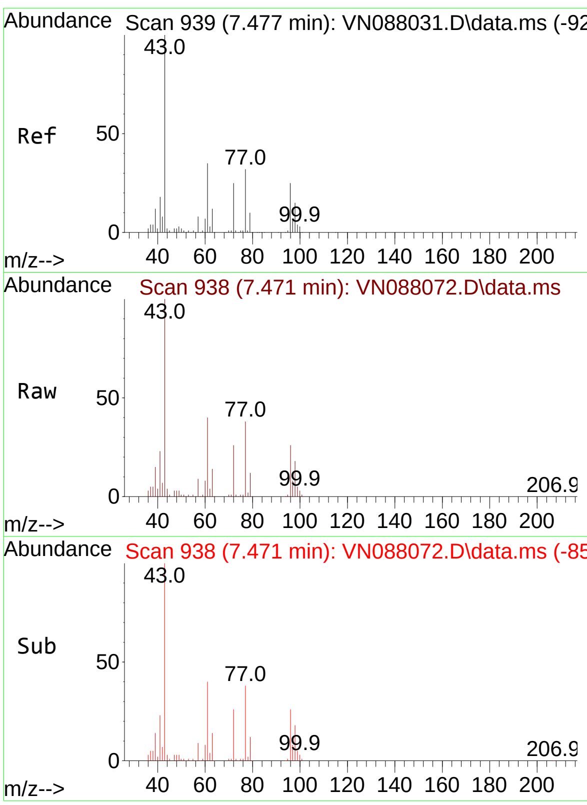
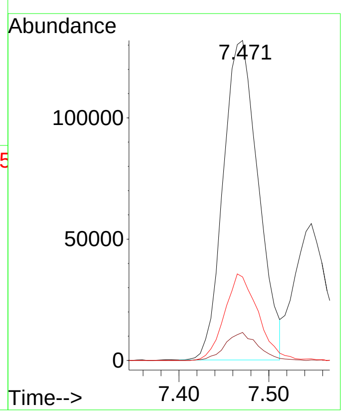


#30
2-Butanone
Concen: 93.573 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 43 Resp: 358564

Ion	Ratio	Lower	Upper
43	100		
57	8.2	6.5	9.7
72	25.8	21.4	32.2



Instrument :
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ClientSampleId :
VSTDCCC020

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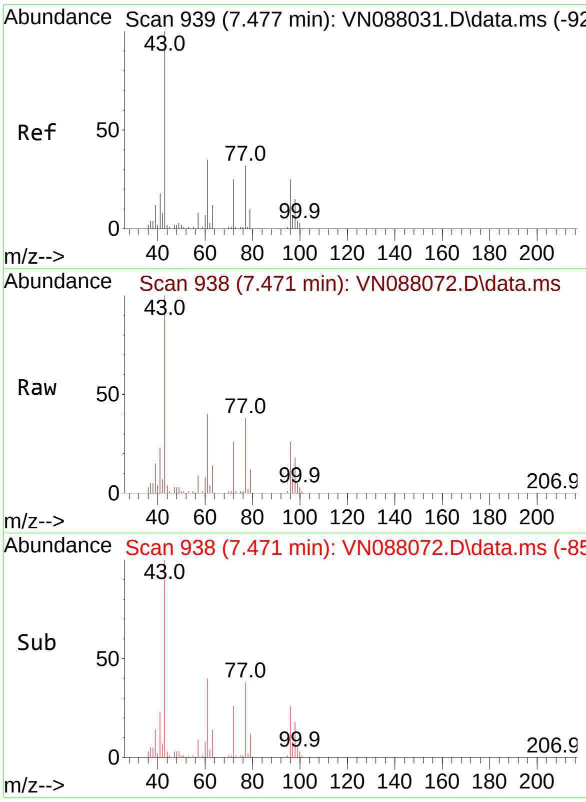
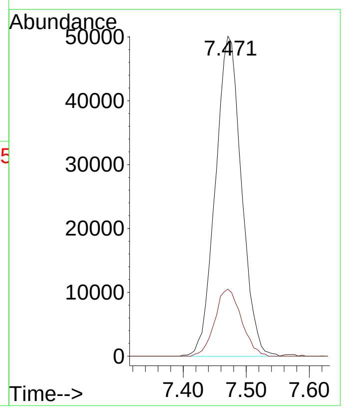
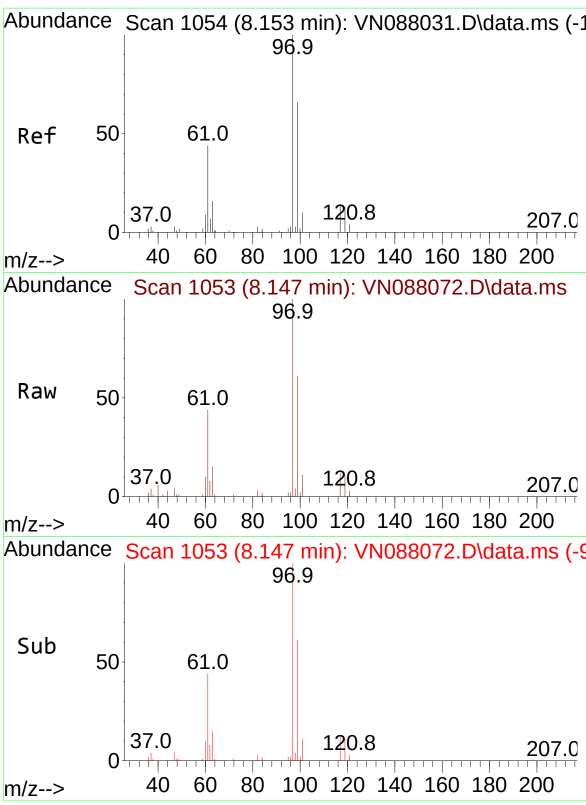


#31
2,2-Dichloropropane
Concen: 21.513 ug/l
RT: 7.471 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 77 Resp: 14401

Ion	Ratio	Lower	Upper
77	100		
97	21.4	17.8	26.8

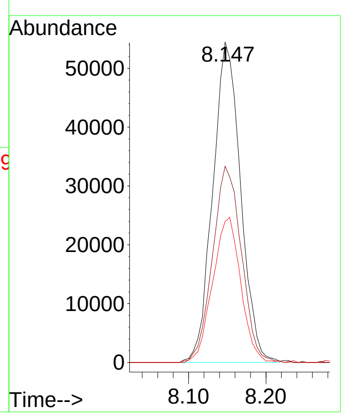


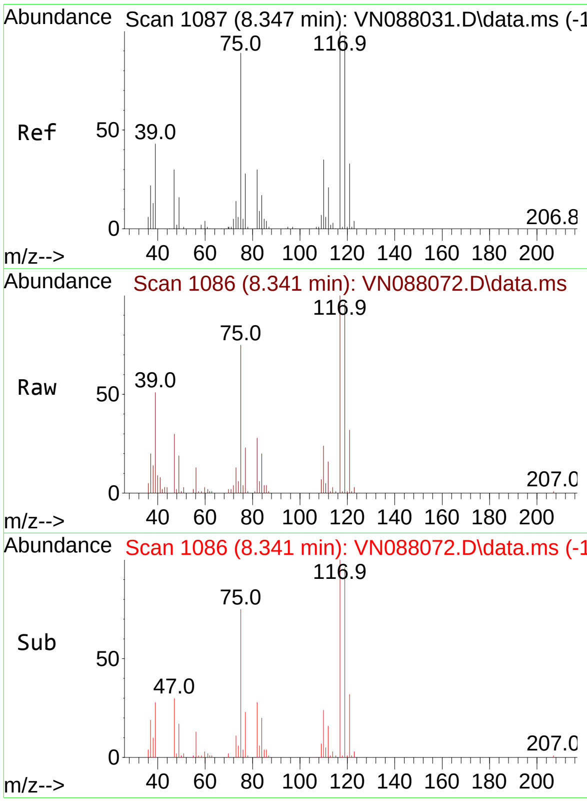


#32
1,1,1-Trichloroethane
Concen: 21.001 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 97 Resp: 136339

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.4	77.2
61	45.6	34.7	52.1





#33
Carbon Tetrachloride
Concen: 21.318 ug/l
RT: 8.341 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:117 Resp: 11592

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.9	116.9
121	32.0	26.4	39.6

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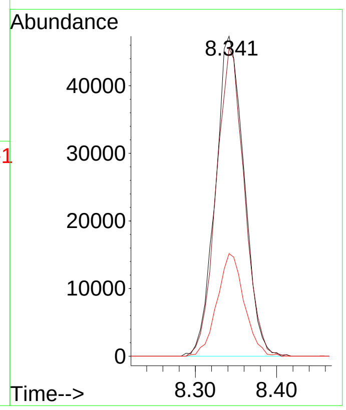
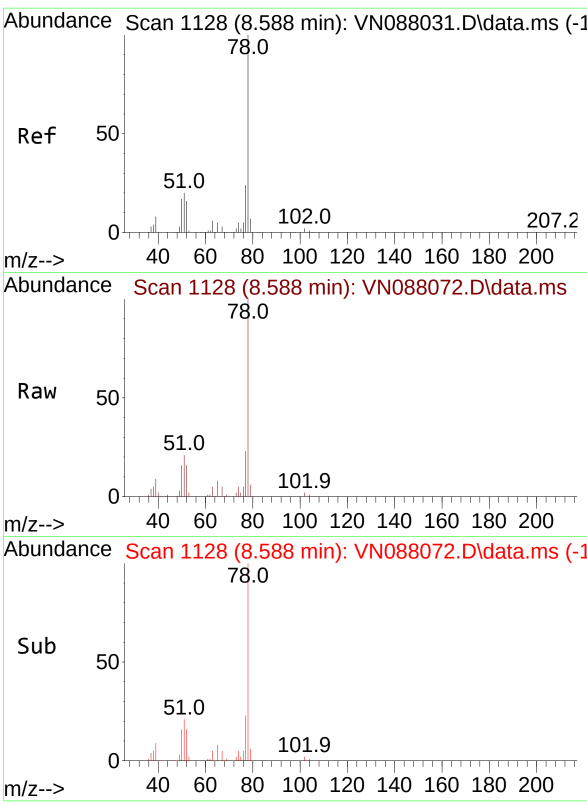
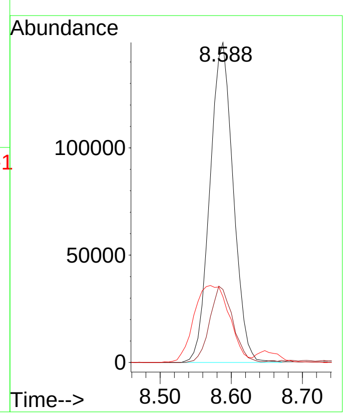




#34
Benzene
Concen: 19.772 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 78 Resp: 340745

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.9	28.3
51	18.9	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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Reviewed By :John Carlone 10/21/2025
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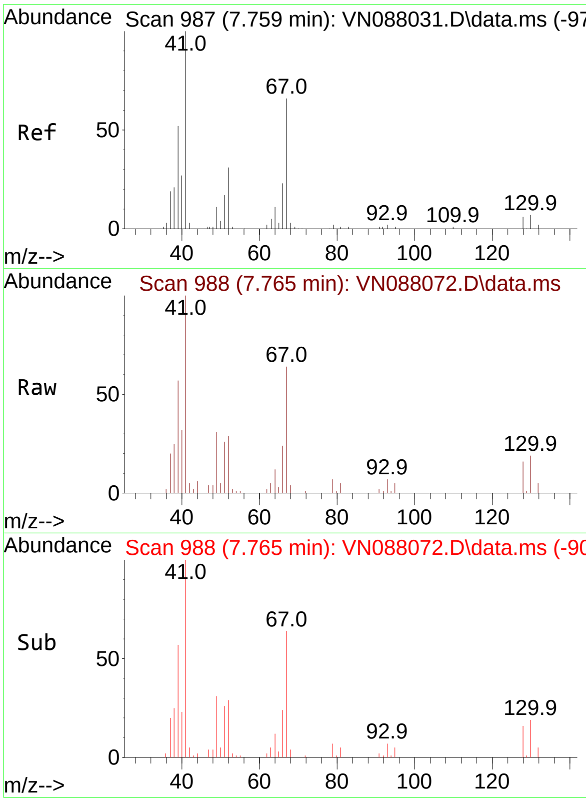
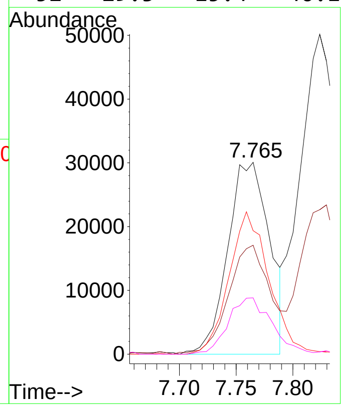
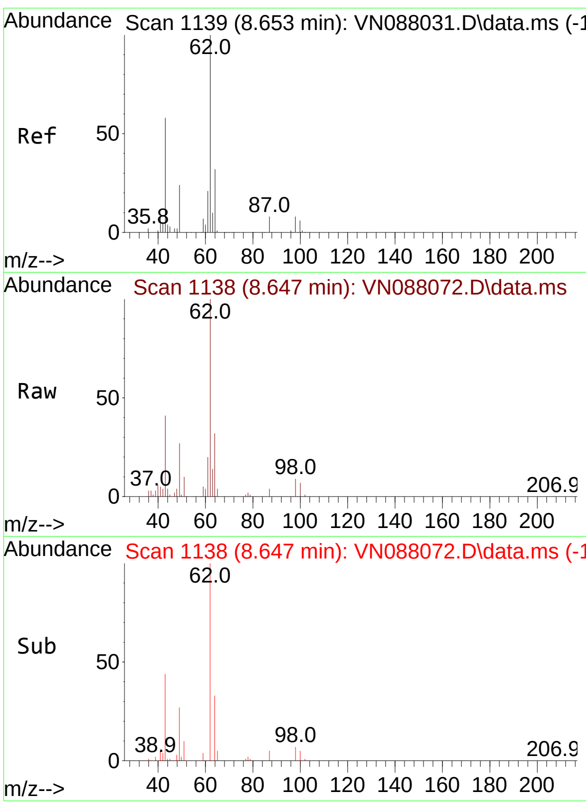


#35
Methacrylonitrile
Concen: 19.140 ug/l
RT: 7.765 min Scan# 98
Delta R.T. 0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 41 Resp: 77127

Ion	Ratio	Lower	Upper
41	100		
39	55.9	26.1	78.3
67	64.3	33.1	99.2
52	29.3	15.4	46.1

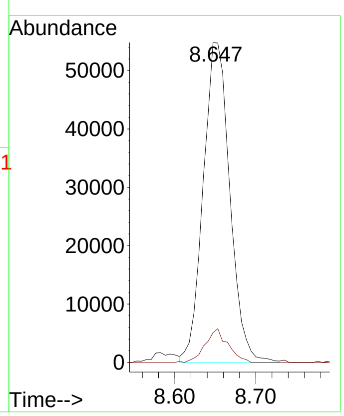




#36
1,2-Dichloroethane
Concen: 20.969 ug/l
RT: 8.647 min Scan# 1138
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 62 Resp: 125450

Ion	Ratio	Lower	Upper
62	100		
98	8.9	7.8	11.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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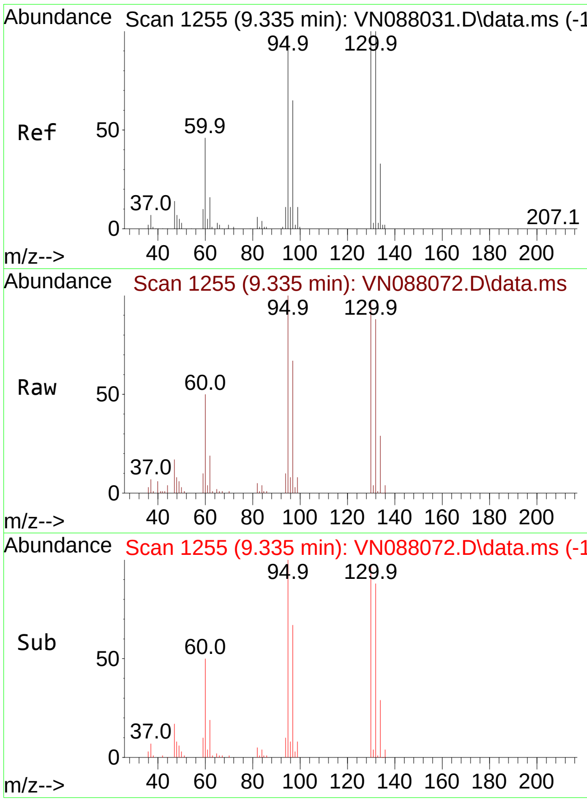
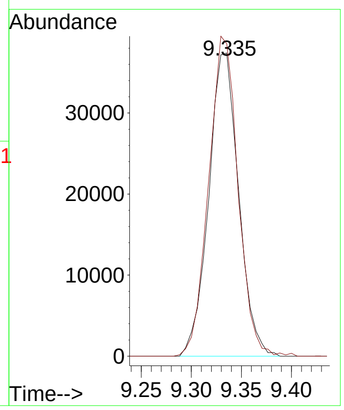
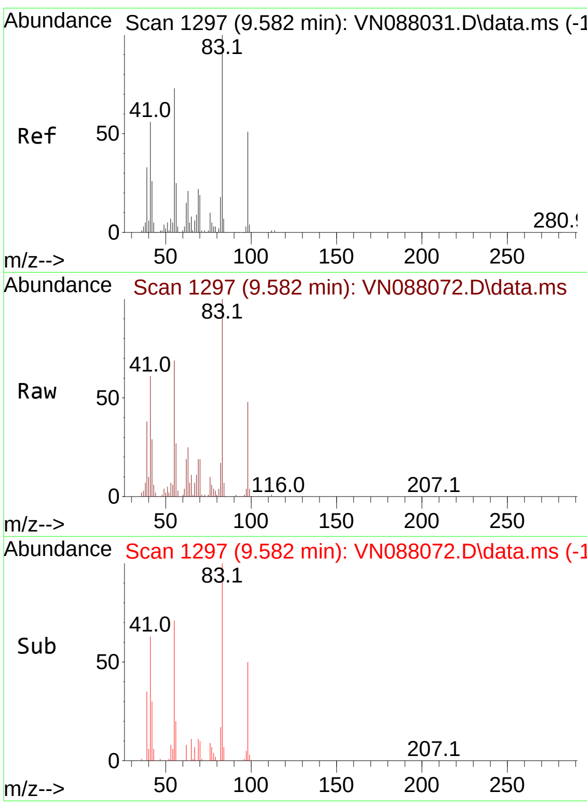


#37
Trichloroethene
Concen: 19.082 ug/l
RT: 9.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:130 Resp: 7791

Ion	Ratio	Lower	Upper
130	100		
95	102.6	78.7	118.1

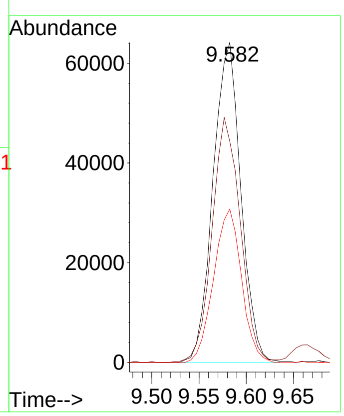


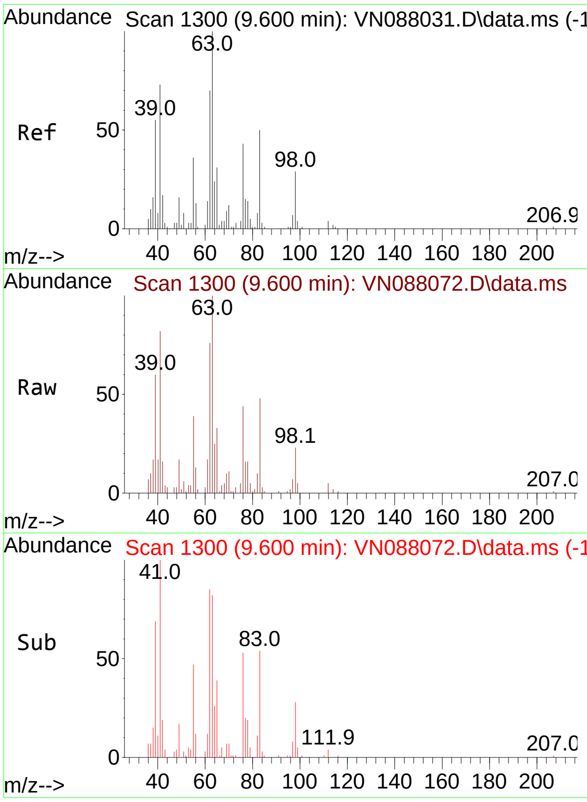


#38
Methylcyclohexane
Concen: 20.494 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 83 Resp: 131494

Ion	Ratio	Lower	Upper
83	100		
55	77.5	37.3	111.9
98	47.9	25.4	76.0





#39
1,2-Dichloropropane
Concen: 19.834 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 63 Resp: 8570

Ion	Ratio	Lower	Upper
63	100		
65	32.6	25.0	37.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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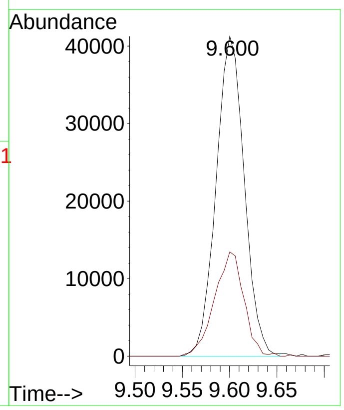
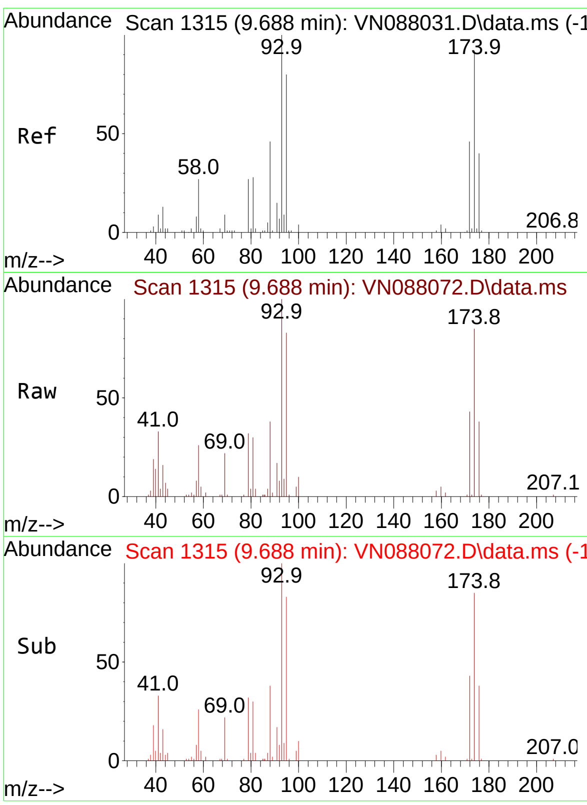
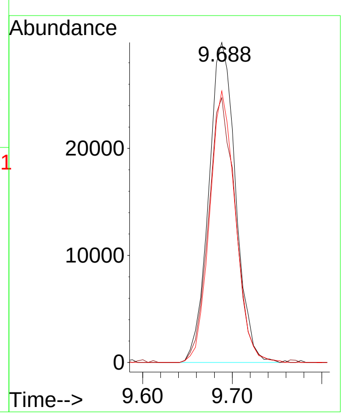




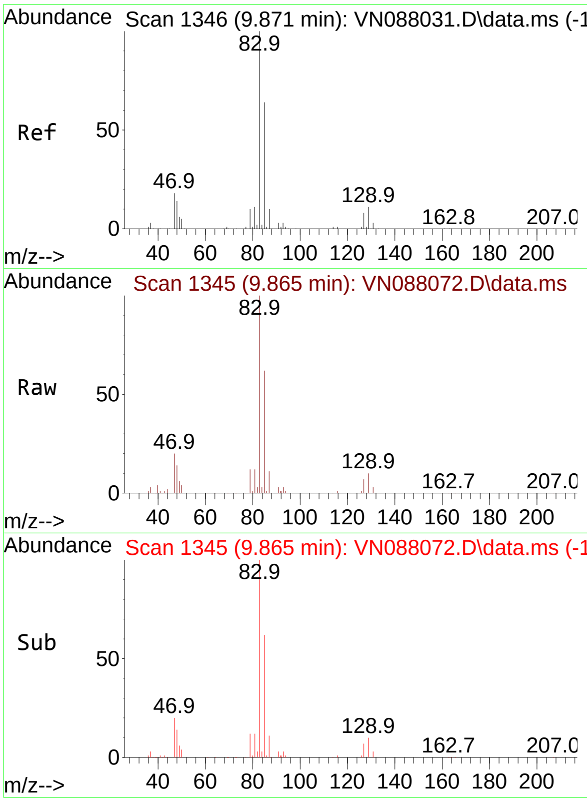
#40
Dibromomethane
Concen: 19.858 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 93 Resp: 62463

Ion	Ratio	Lower	Upper
93	100		
95	82.8	0.0	158.6
174	81.5	0.0	180.8



Sample Results: **VN088072.D**



#41
Bromodichloromethane
Concen: 20.076 ug/l
RT: 9.865 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 83 Resp: 12897

Ion	Ratio	Lower	Upper
83	100		
85	61.5	51.0	76.4
127	6.9	6.1	9.1

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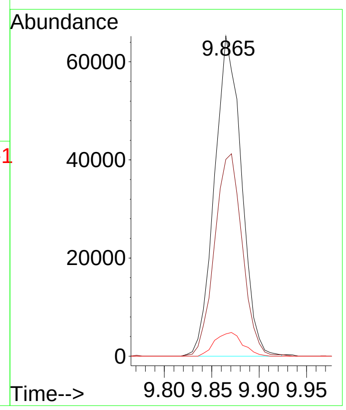
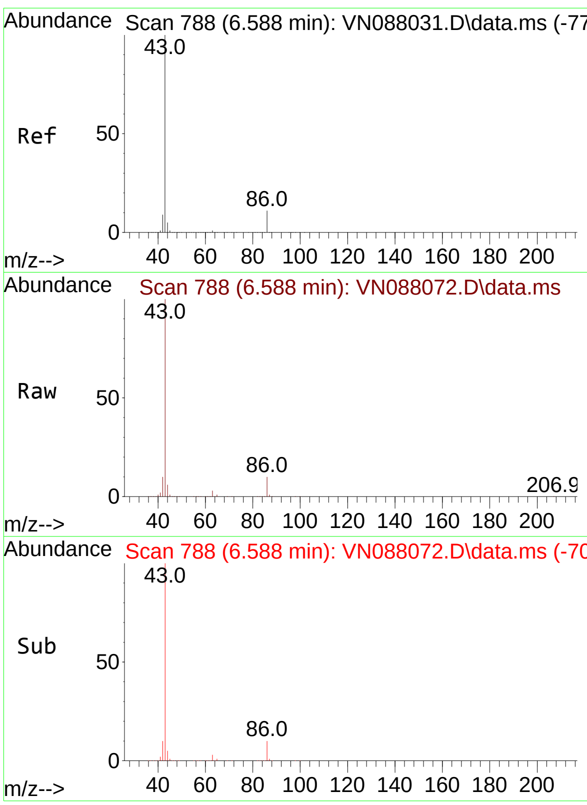
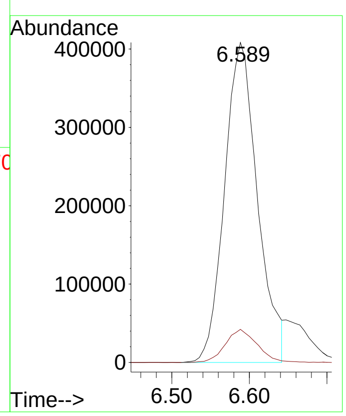




#42
Vinyl Acetate
Concen: 92.402 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 43 Resp: 1206232

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.4	12.6



Instrument :
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ClientSampleId :
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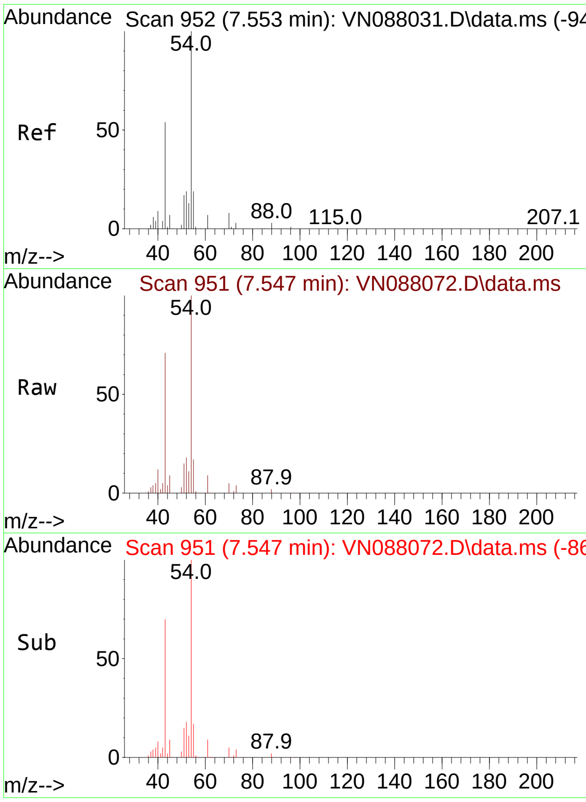
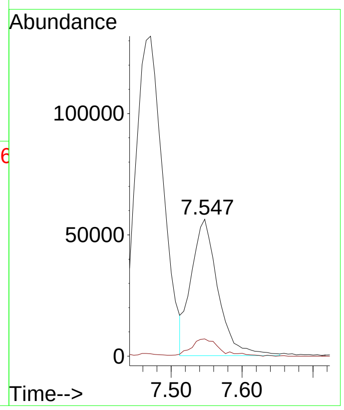
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

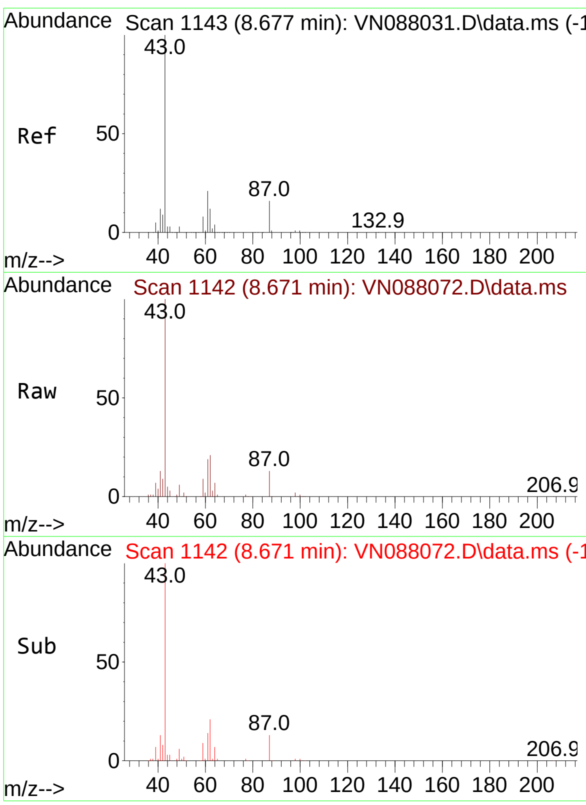


#43
Ethyl Acetate
Concen: 20.063 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 43 Resp: 14778

Ion	Ratio	Lower	Upper
43	100		
45	12.0	10.2	15.4

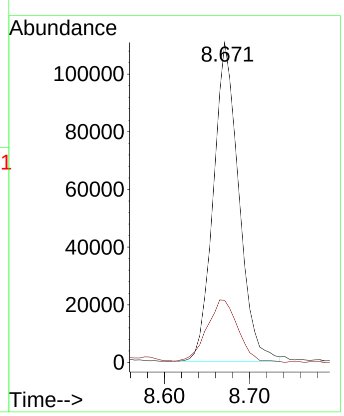




#44
Isopropyl Acetate
Concen: 19.161 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 43 Resp: 230525

Ion	Ratio	Lower	Upper
43	100		
61	24.0	18.7	28.1



Instrument :
MSVOA_N
ClientSampleId :
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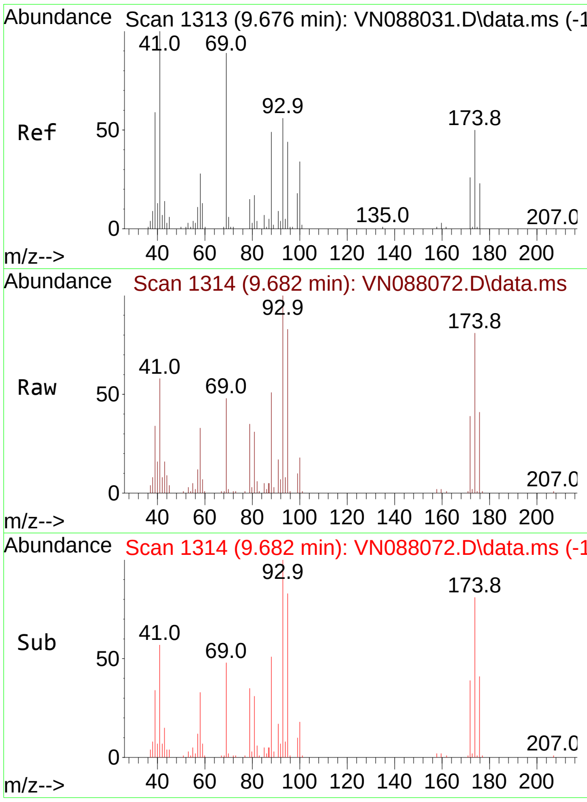
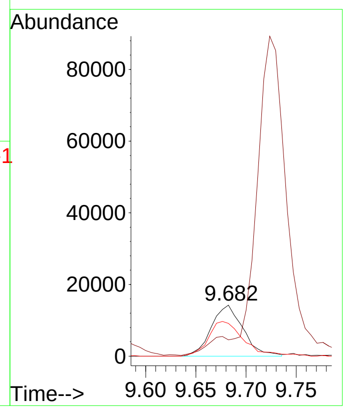
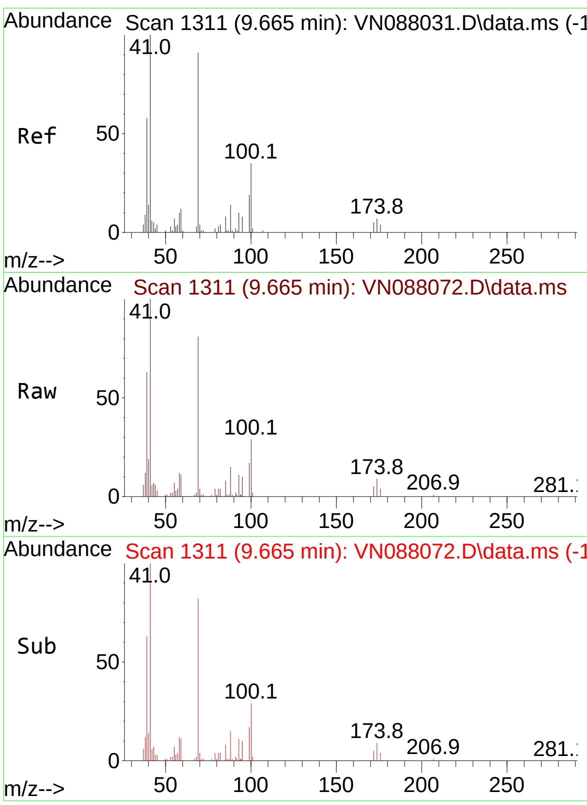


#45
1,4-Dioxane
Concen: 392.783 ug/l
RT: 9.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 88 Resp: 3142

Ion	Ratio	Lower	Upper
88	100		
43	31.0	18.6	27.8
58	71.0	57.4	86.2

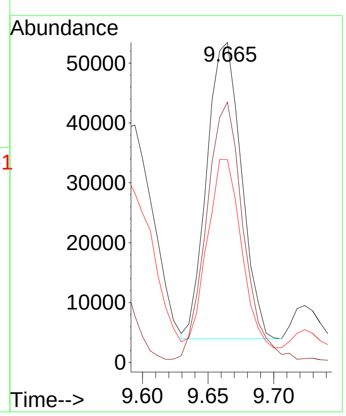




#46
Methyl methacrylate
Concen: 17.143 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 41 Resp: 90825

Ion	Ratio	Lower	Upper
41	100		
69	85.6	44.9	134.7
39	63.5	30.3	90.8



Instrument :
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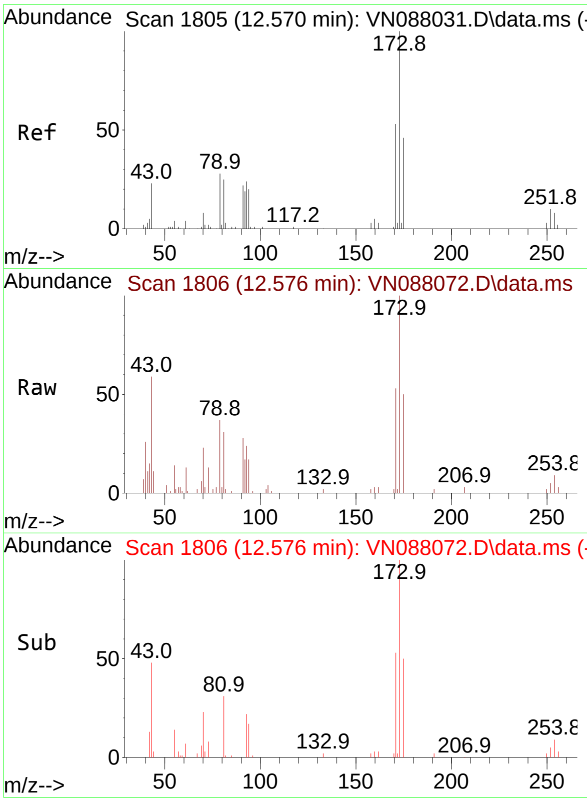
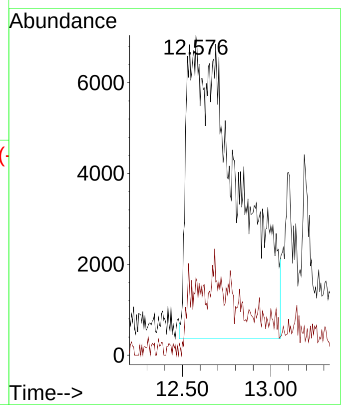
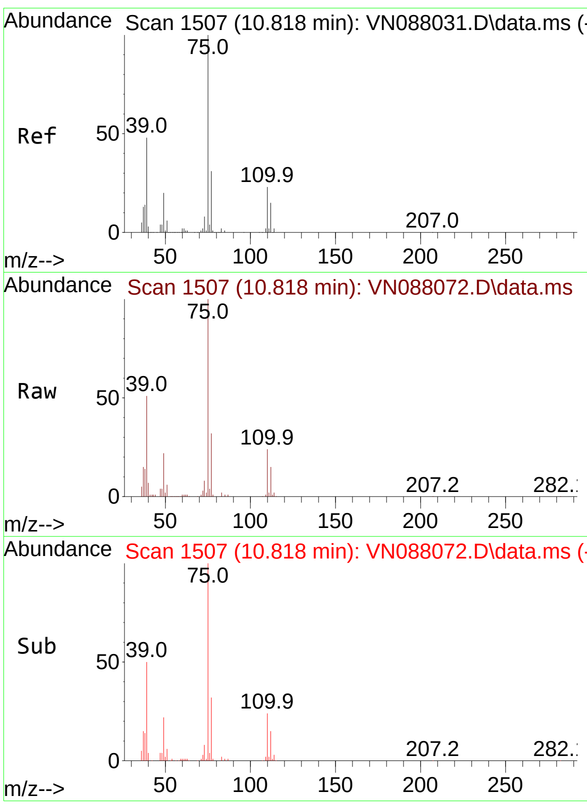
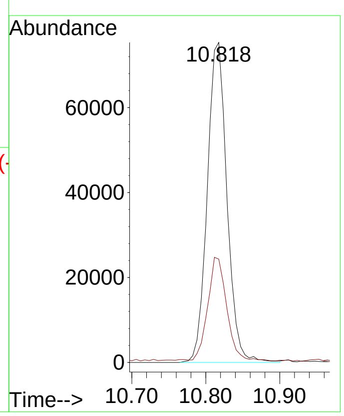


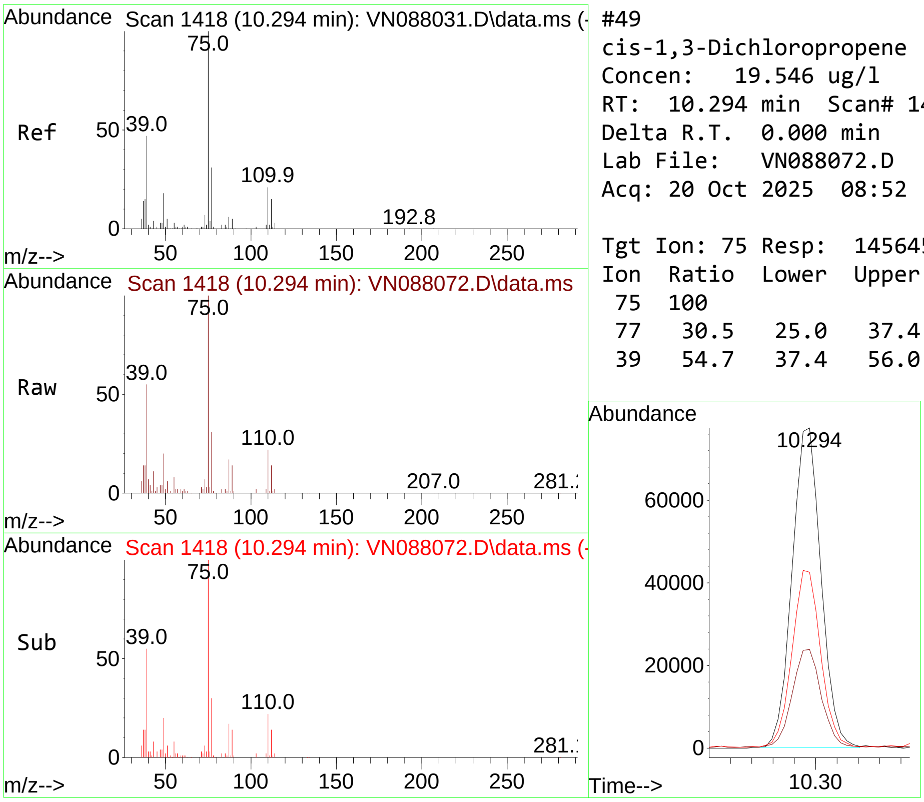

```
#47
n-amyl Acetate
Concen:   23.091 ug/l m
RT:  12.576 min  Scan# 18
Delta R.T.  0.006 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion: 43 Resp:  131674
Ion  Ratio  Lower  Upper
 43  100
 55    2.4    0.6    0.8#
```






```
#48
t-1,3-Dichloropropene
Concen:   19.520 ug/l
RT:  10.818 min  Scan# 1507
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion: 75 Resp:  139436
Ion  Ratio  Lower  Upper
 75  100
 77   31.6   24.5   36.7
```





#49
cis-1,3-Dichloropropene
Concen: 19.546 ug/l
RT: 10.294 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 75 Resp: 14564

Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.0	37.4
39	54.7	37.4	56.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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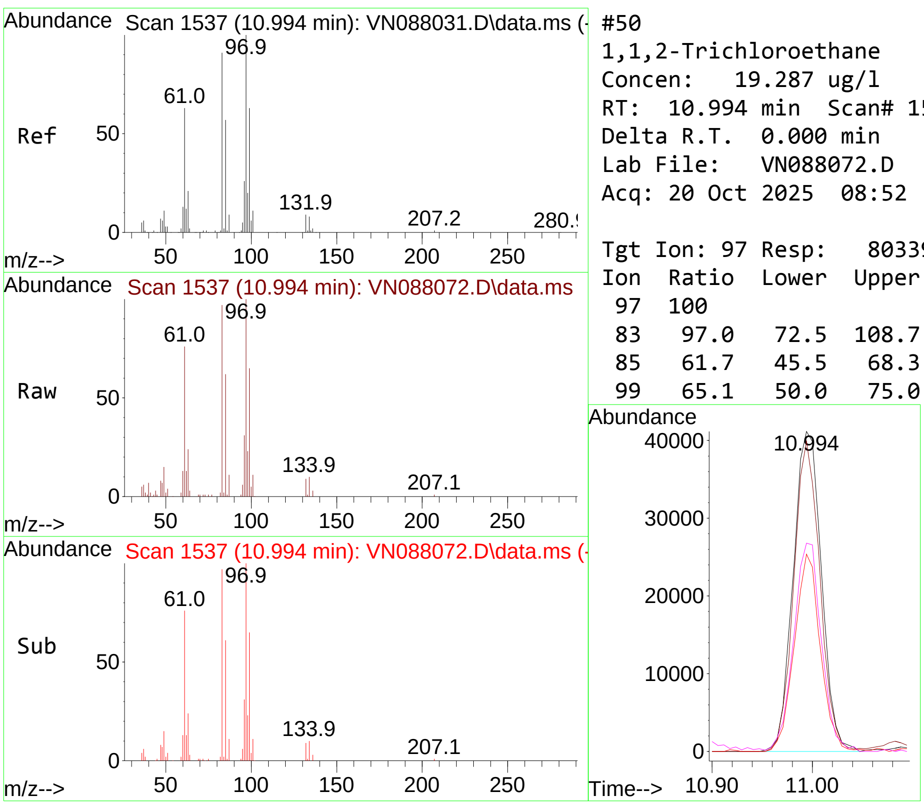

#50
1,1,2-Trichloroethane
Concen: 19.287 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 97 Resp: 80339

Ion	Ratio	Lower	Upper
97	100		
83	97.0	72.5	108.7
85	61.7	45.5	68.3
99	65.1	50.0	75.0

Instrument :
MSVOA_N
ClientSampleId :
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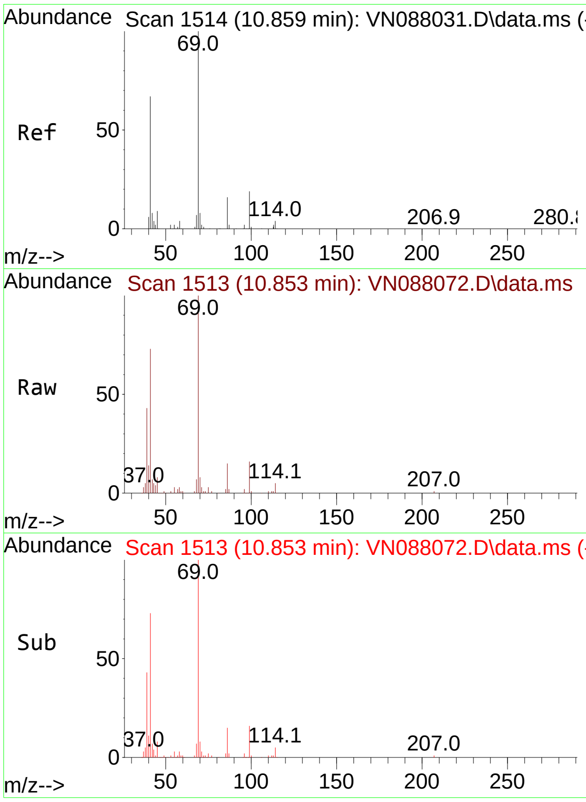
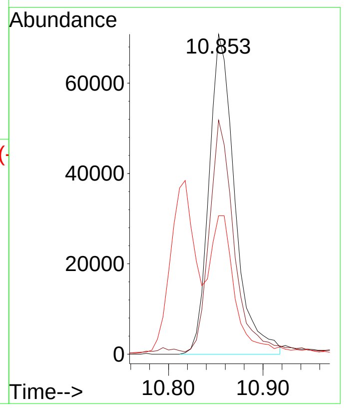
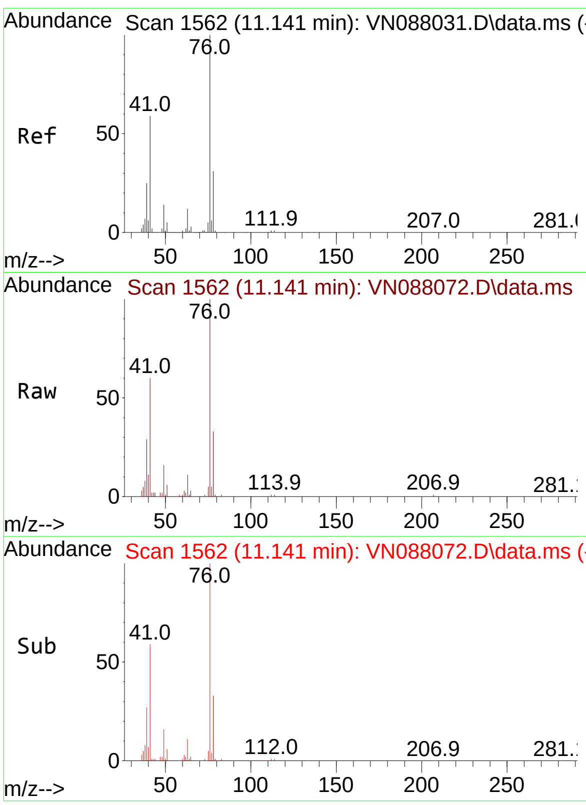


#51
Ethyl methacrylate
Concen: 19.052 ug/l
RT: 10.853 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 69 Resp: 13430

Ion	Ratio	Lower	Upper
69	100		
41	72.1	33.3	99.8
39	41.0	20.3	61.0

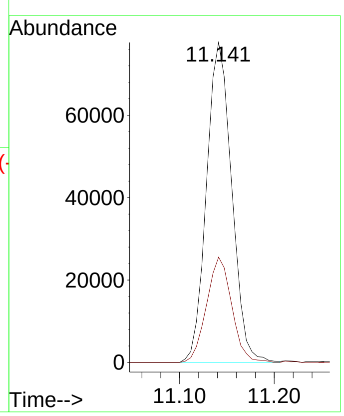




#52
1,3-Dichloropropane
Concen: 19.780 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 76 Resp: 143752

Ion	Ratio	Lower	Upper
76	100		
78	32.8	0.0	65.0



Instrument :
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ClientSampleId :
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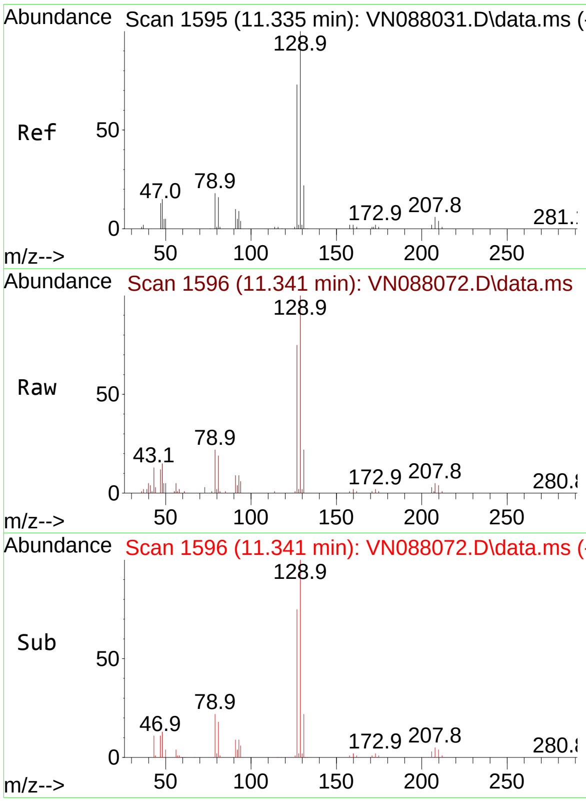
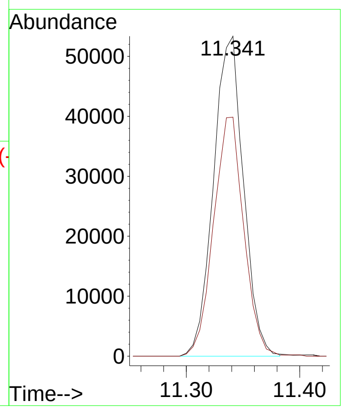
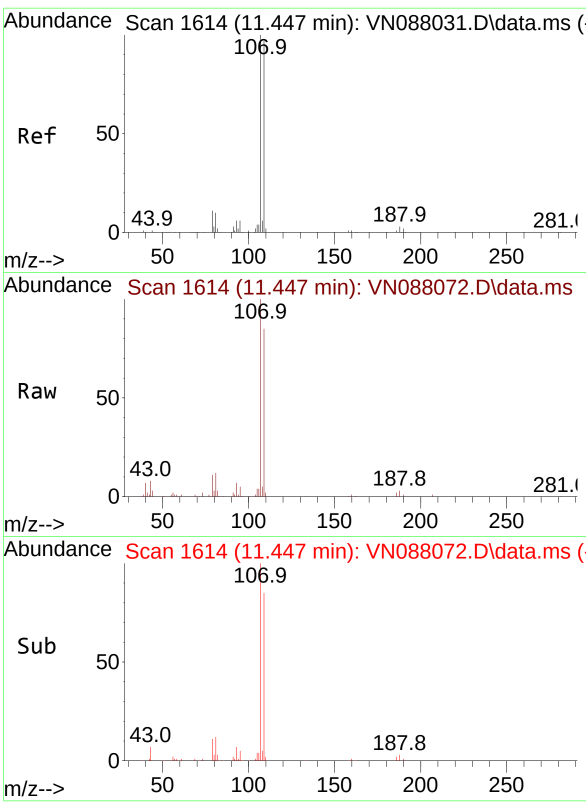
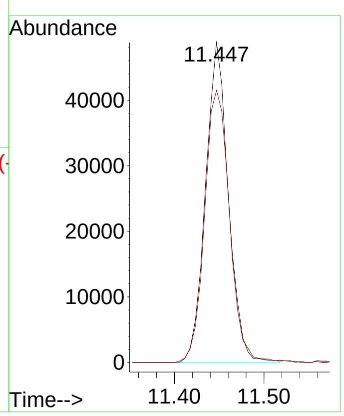



```
#53
Dibromochloromethane
Concen:   19.706 ug/l
RT:  11.341 min   Scan# 1
Delta R.T.  0.006 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion:129 Resp:   98131
Ion  Ratio  Lower  Upper
129  100
127   75.2   39.1  117.3
```






```
#54
1,2-Dibromoethane
Concen:   19.404 ug/l
RT:  11.447 min   Scan# 1614
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion:107 Resp:   86411
Ion  Ratio  Lower  Upper
107  100
109   92.4   75.5  113.3
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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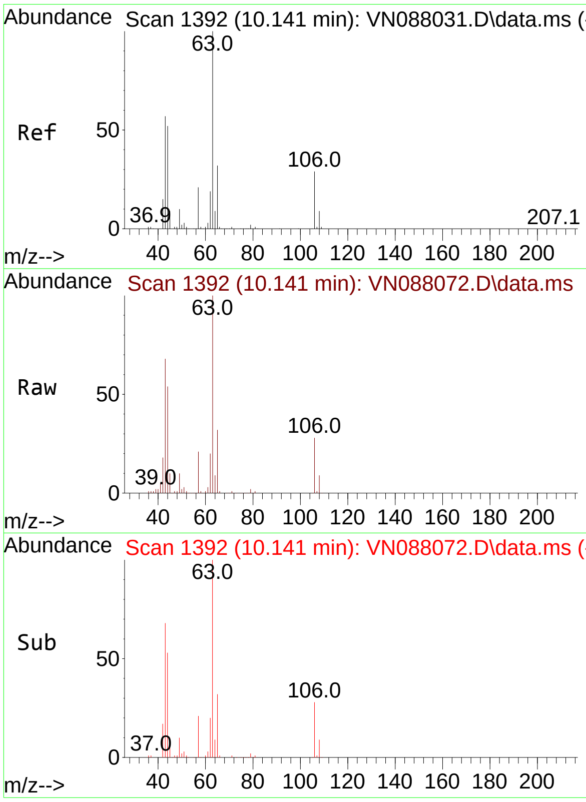
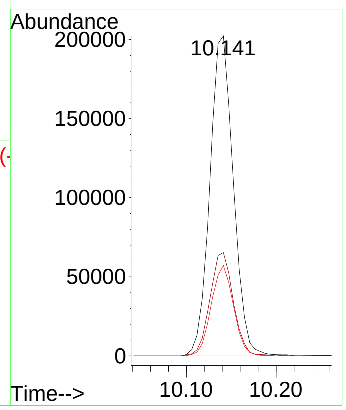
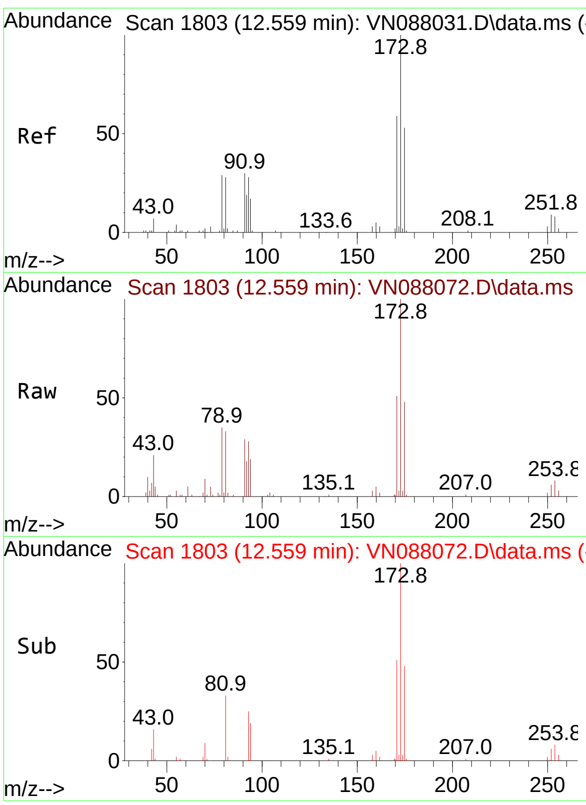


#55
2-Chloroethyl vinyl ether
Concen: 96.878 ug/l
RT: 10.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 63 Resp: 36863

Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.7	38.5
106	26.8	22.6	34.0

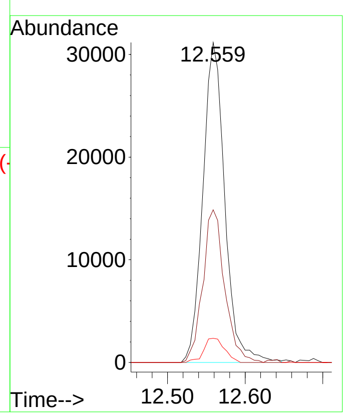




#56
Bromoform
Concen: 18.195 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:173 Resp: 61257

Ion	Ratio	Lower	Upper
173	100		
175	47.6	39.6	59.4
254	6.9	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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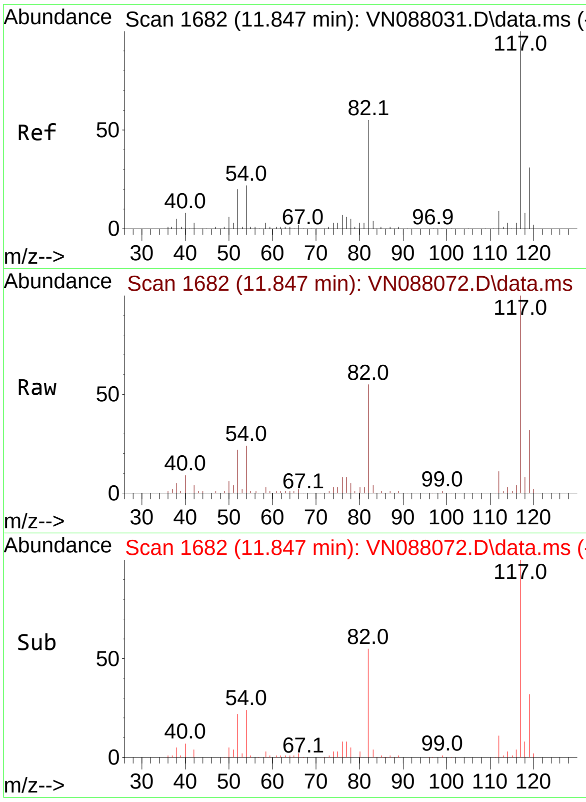
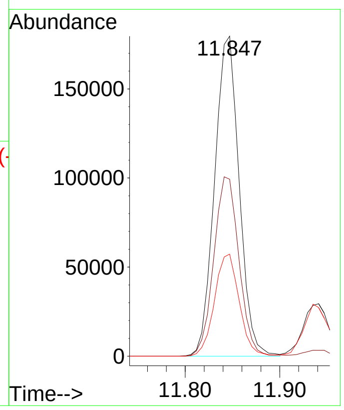
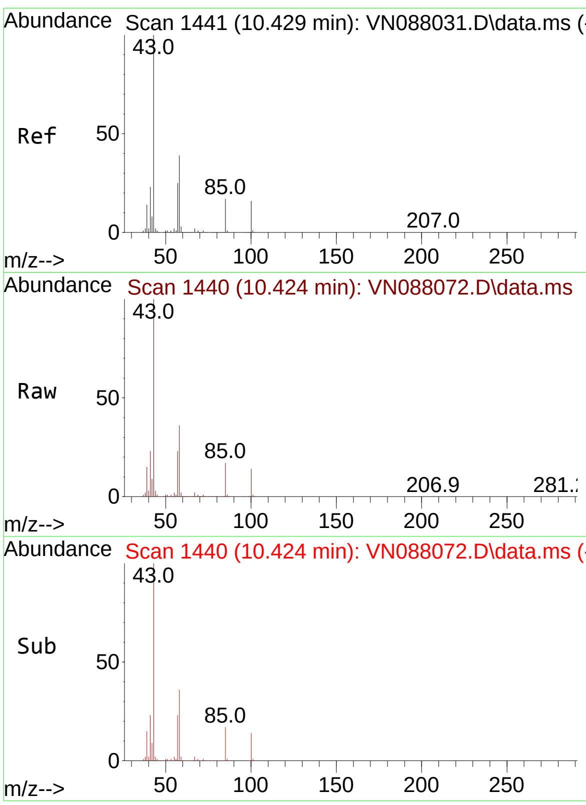
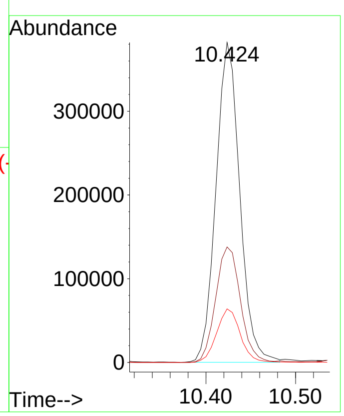



```
#57
Chlorobenzene-d5
Concen:   30.000 ug/l
RT:  11.847 min   Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion:117 Resp:  32529
Ion  Ratio  Lower  Upper
117  100
 82   57.2   45.2   67.8
119   32.1   25.9   38.9
```






```
#58
4-Methyl-2-Pentanone
Concen:   96.812 ug/l
RT:  10.424 min   Scan# 1440
Delta R.T.  -0.006 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion: 43 Resp:  704411
Ion  Ratio  Lower  Upper
 43  100
 58   37.5   31.2   46.8
 85   16.7   13.7   20.5
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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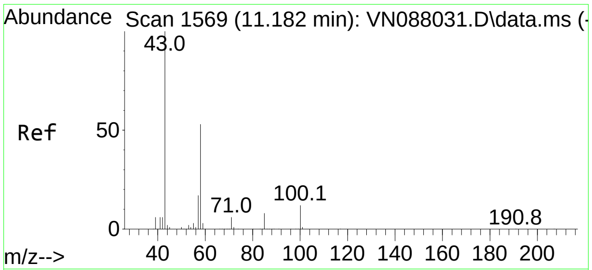
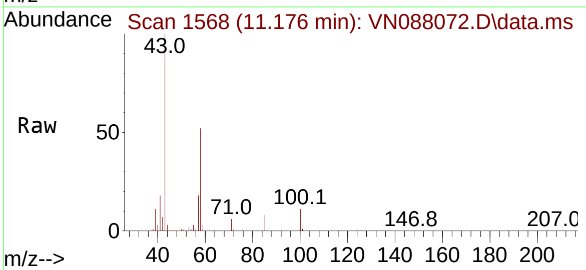
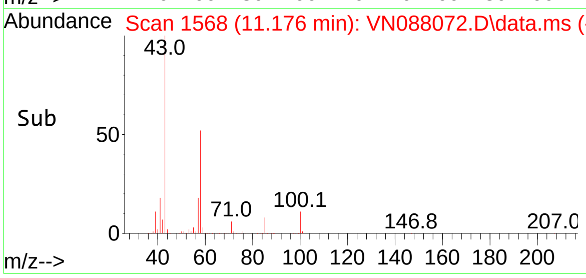


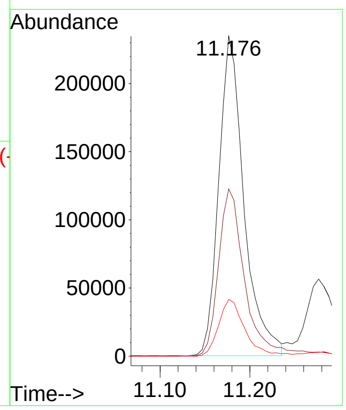


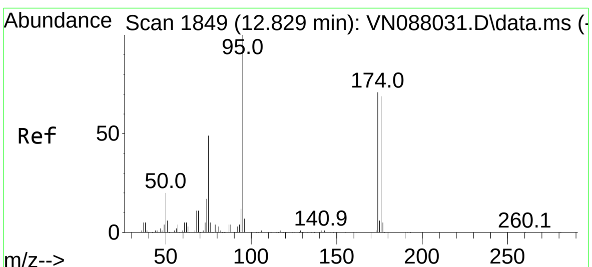


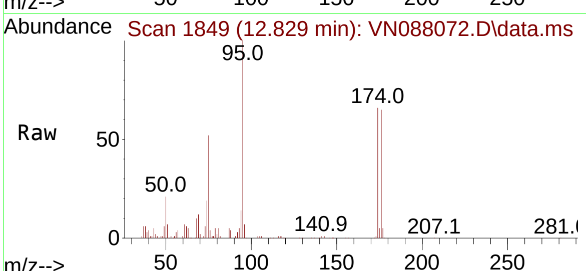
#59
2-Hexanone
Concen: 95.101 ug/l
RT: 11.176 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

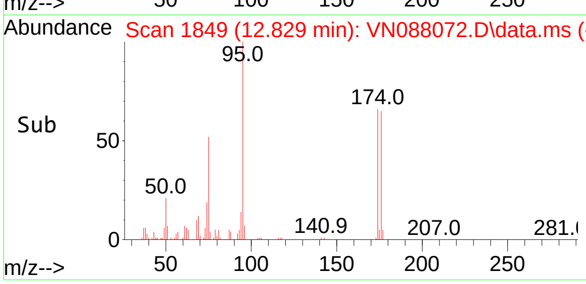
Tgt Ion: 43 Resp: 45686

Ion	Ratio	Lower	Upper
43	100		
58	54.7	43.1	64.7
57	18.6	14.6	21.8





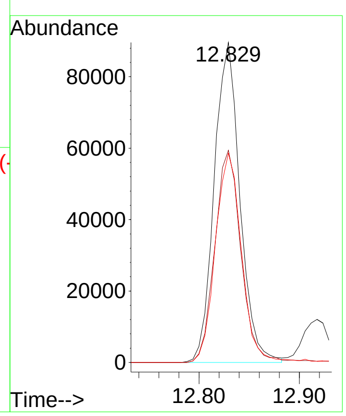




#60
4-Bromofluorobenzene
Concen: 29.799 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 95 Resp: 159804

Ion	Ratio	Lower	Upper
95	100		
174	67.1	57.4	86.0
176	66.3	57.0	85.4



Instrument :
MSVOA_N
ClientSampleId :
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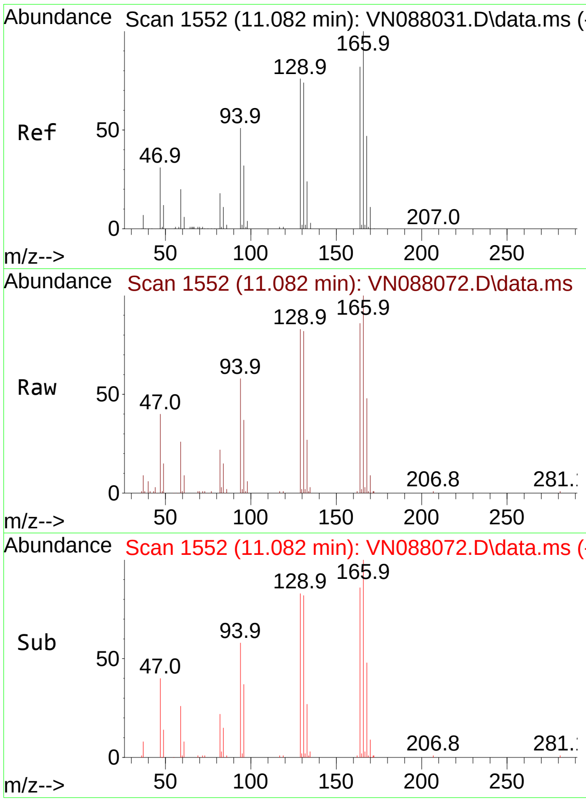
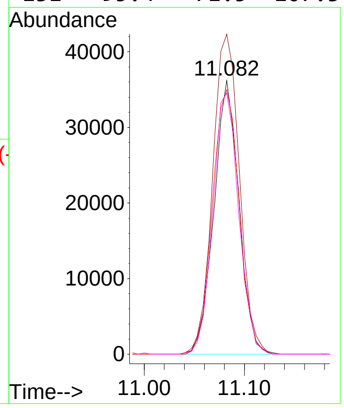
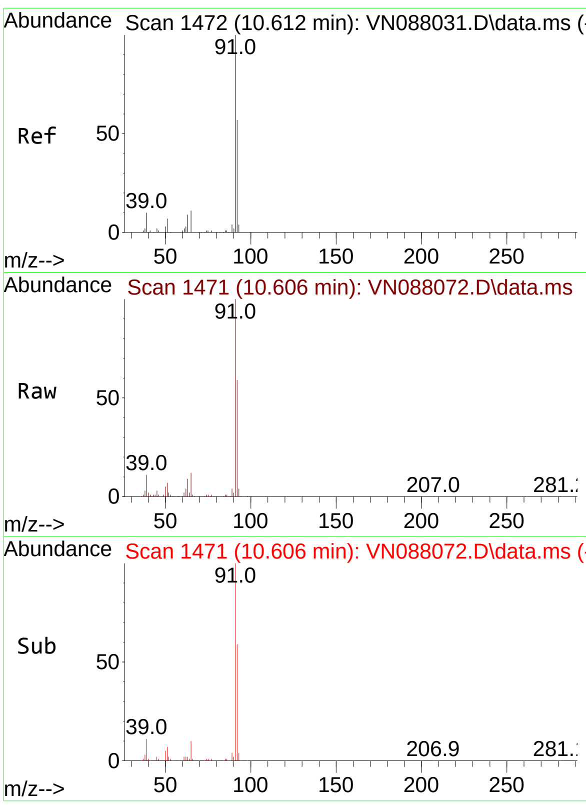


#61
Tetrachloroethene
Concen: 19.047 ug/l
RT: 11.082 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:164 Resp: 6274

Ion	Ratio	Lower	Upper
164	100		
166	117.0	97.2	145.8
129	96.7	73.7	110.5
131	95.4	71.5	107.3

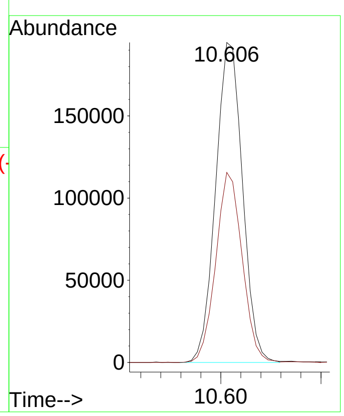




#62
Toluene
Concen: 19.686 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 91 Resp: 363252

Ion	Ratio	Lower	Upper
91	100		
92	58.3	45.8	68.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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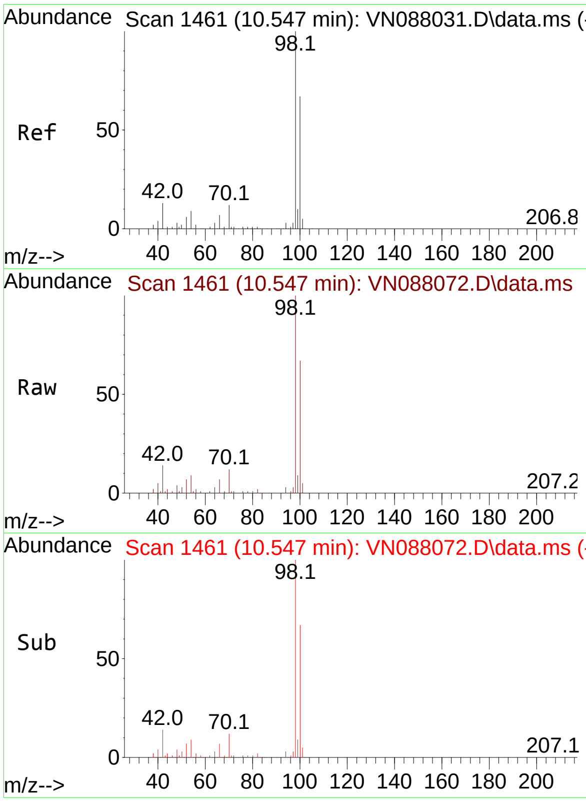
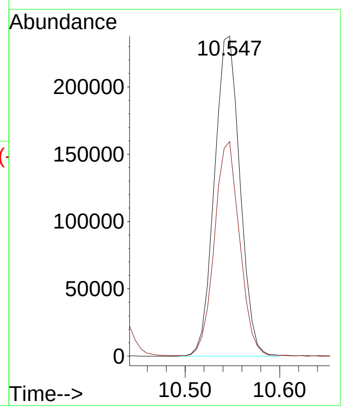
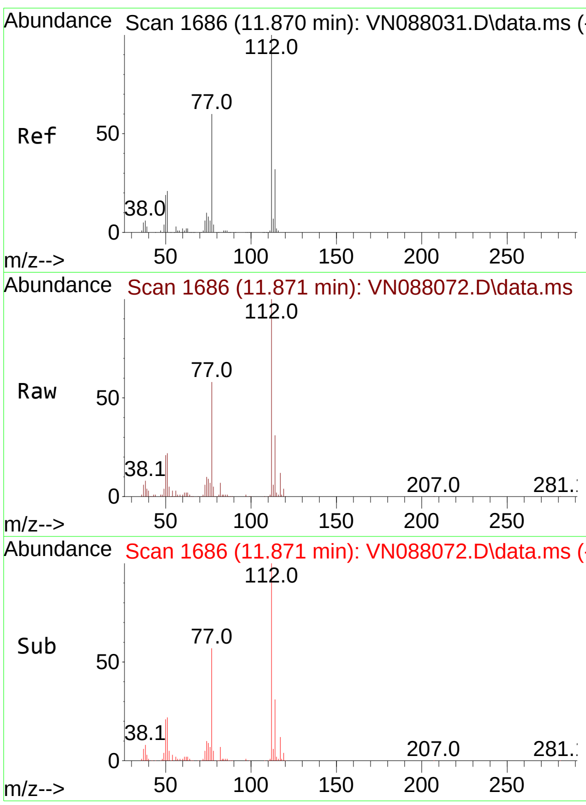


#63
Toluene-d8
Concen: 30.809 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 98 Resp: 44652

Ion	Ratio	Lower	Upper
98	100		
100	65.8	53.1	79.7

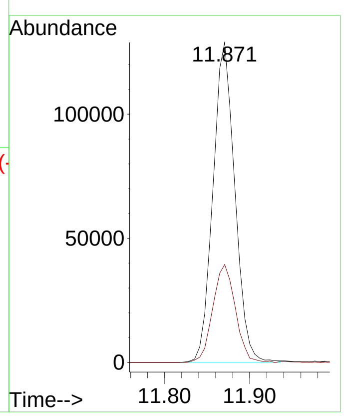




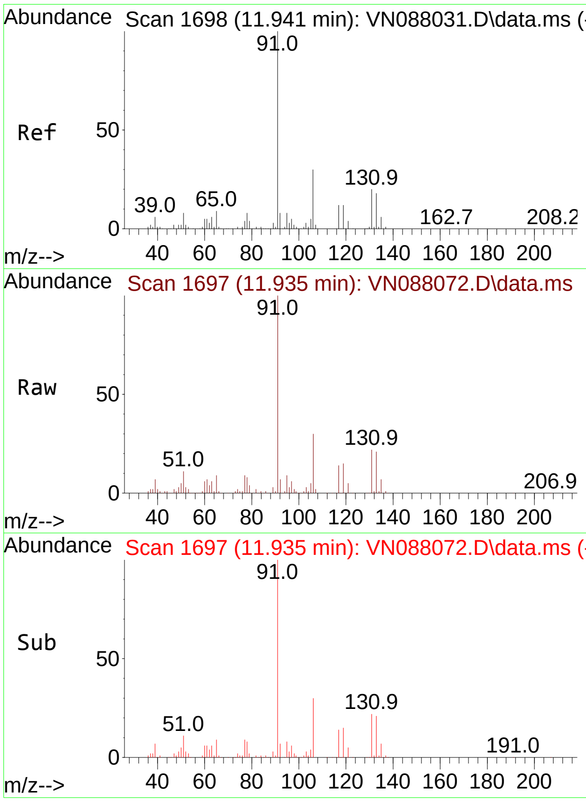
#64
Chlorobenzene
Concen: 19.581 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:112 Resp: 230771

Ion	Ratio	Lower	Upper
112	100		
114	30.6	25.7	38.5



Sample Results: **VN088072.D**



#65
1,1,1,2-Tetrachloroethane
Concen: 19.621 ug/l
RT: 11.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:131 Resp: 7969

Ion	Ratio	Lower	Upper
131	100		
133	94.8	0.0	183.8
119	66.4	0.0	132.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
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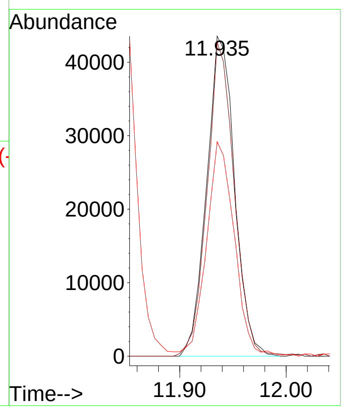
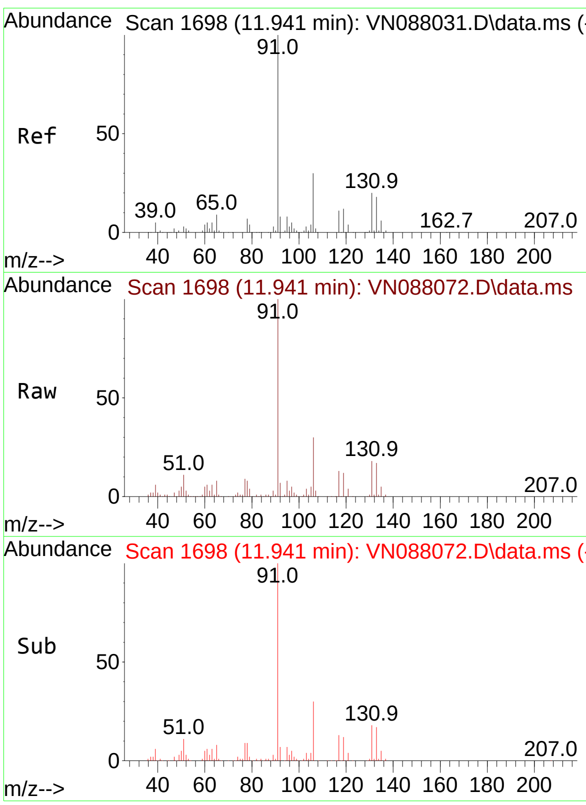
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

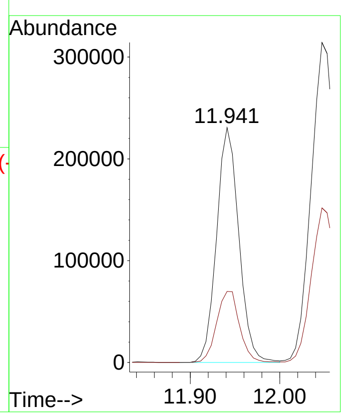




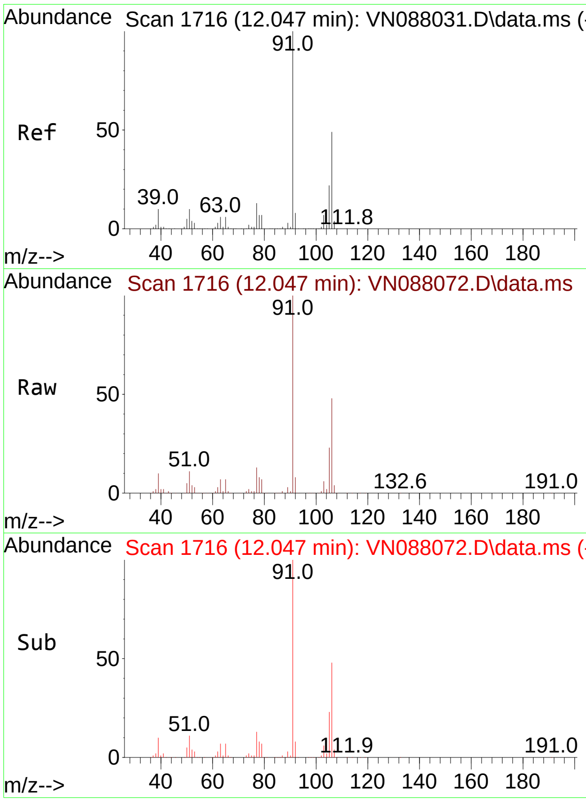
#66
Ethyl Benzene
Concen: 19.892 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 91 Resp: 399110

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.0	36.0



Sample Results: **VN088072.D**



#67
m/p-Xylenes
Concen: 39.395 ug/l
RT: 12.047 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:106 Resp: 30471

Ion	Ratio	Lower	Upper
106	100		
91	203.0	161.4	242.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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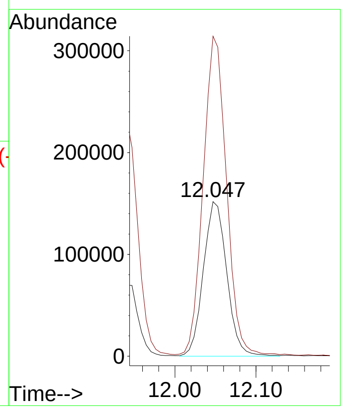
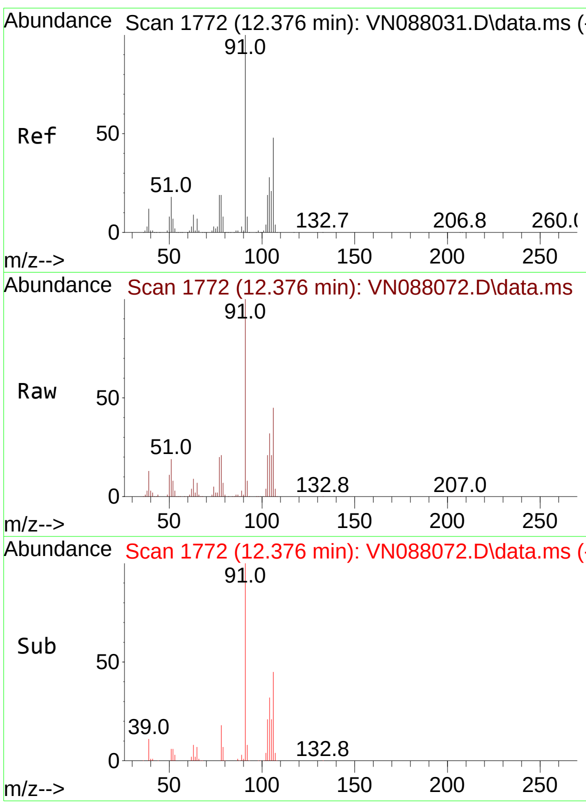
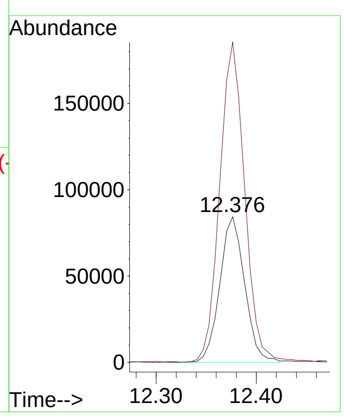




#68
o-Xylene
Concen: 18.890 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:106 Resp: 145451

Ion	Ratio	Lower	Upper
106	100		
91	220.8	105.2	315.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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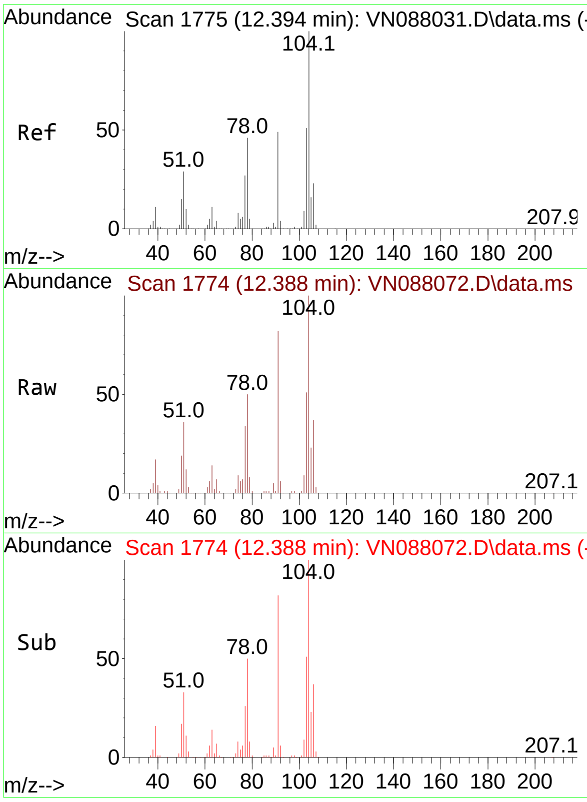
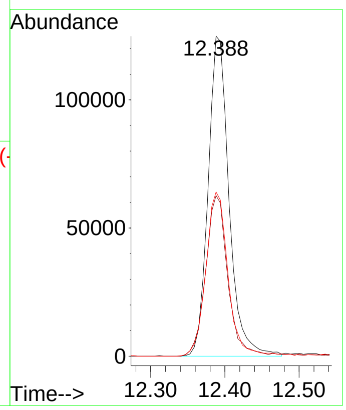
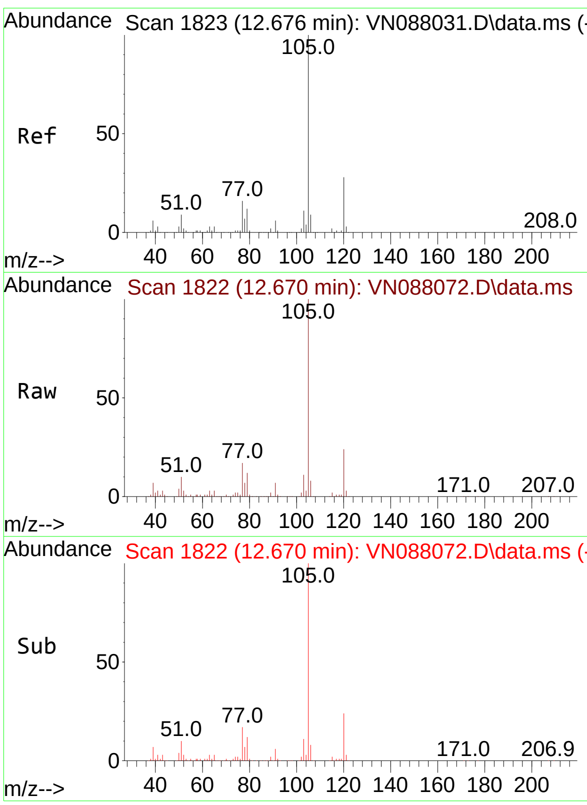


#69
Styrene
Concen: 19.241 ug/l
RT: 12.388 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:104 Resp: 24508

Ion	Ratio	Lower	Upper
104	100		
78	52.7	41.8	62.6
103	53.9	44.9	67.3

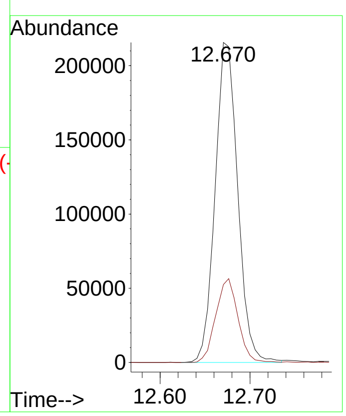


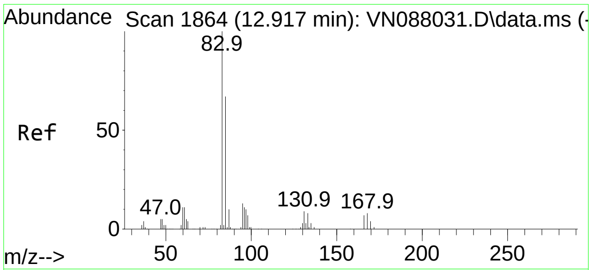


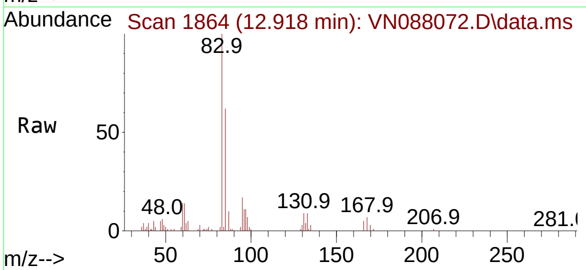
#70
Isopropylbenzene
Concen: 20.011 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

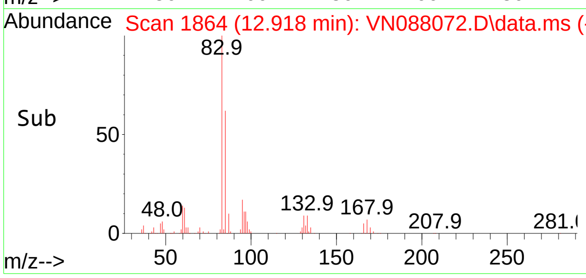
Tgt Ion:105 Resp: 377646

Ion	Ratio	Lower	Upper
105	100		
120	25.6	19.1	35.5









#71
1,1,2,2-Tetrachloroethane
Concen: 19.300 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 83 Resp: 12348

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	63.1	32.4	97.2

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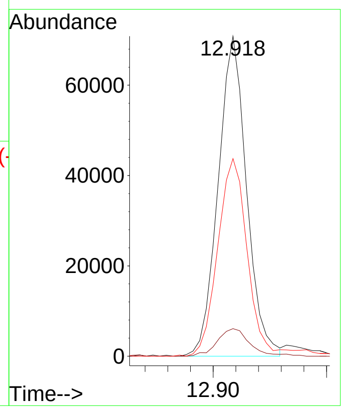
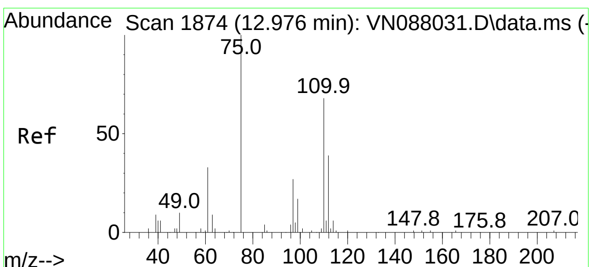
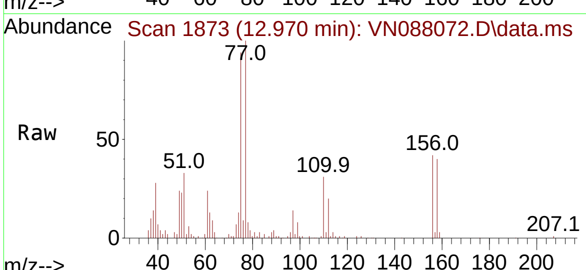
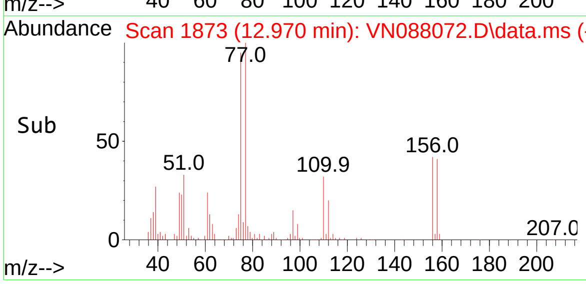




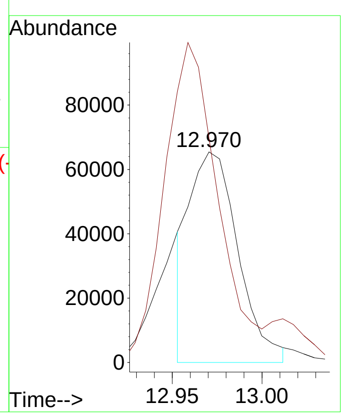


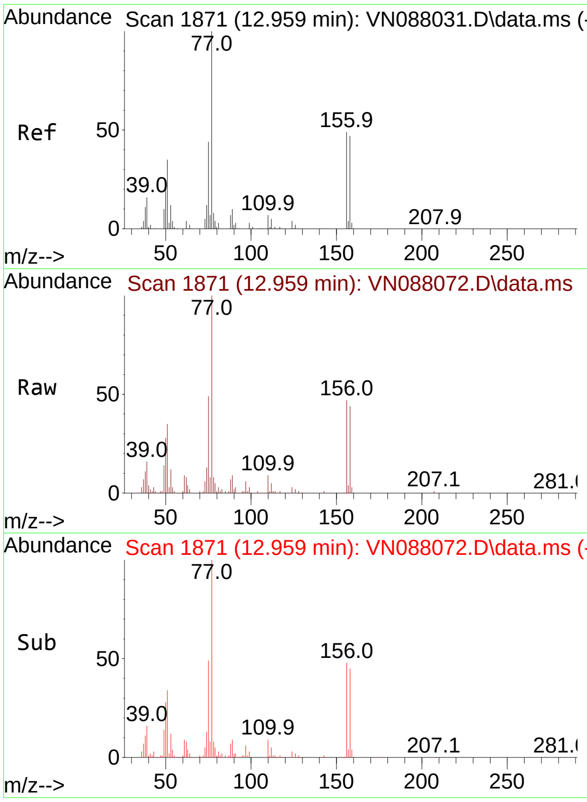


#72
1,2,3-Trichloropropane
Concen: 20.866 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 75 Resp: 123985

Ion	Ratio	Lower	Upper
75	100		
77	166.3	0.0	364.0





#73
Bromobenzene
Concen: 18.438 ug/l
RT: 12.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:156 Resp: 8504

Ion	Ratio	Lower	Upper
156	100		
77	242.4	0.0	439.8
158	95.0	0.0	190.0

Instrument :
MSVOA_N
ClientSampleId :
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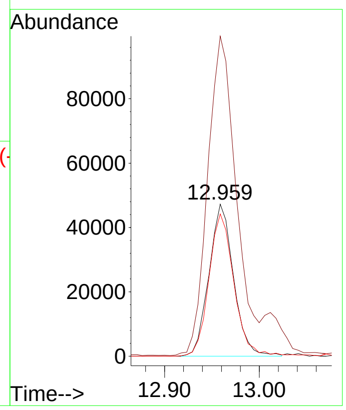
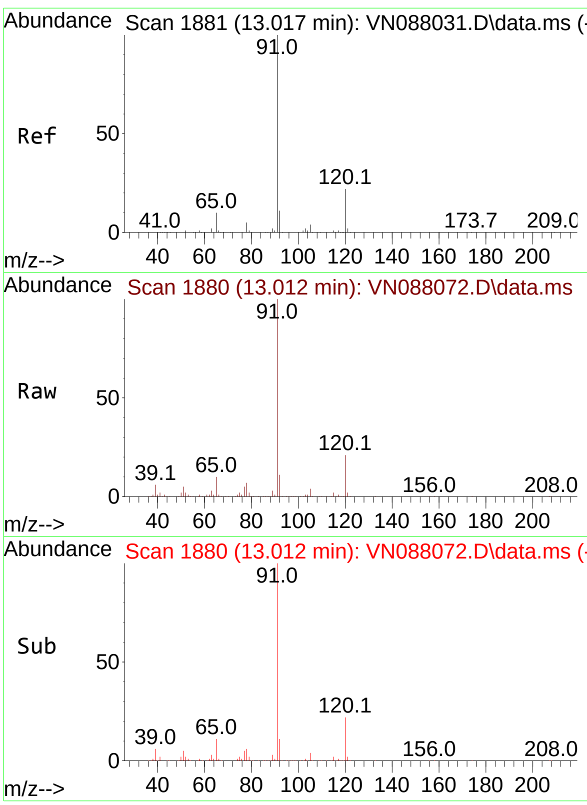
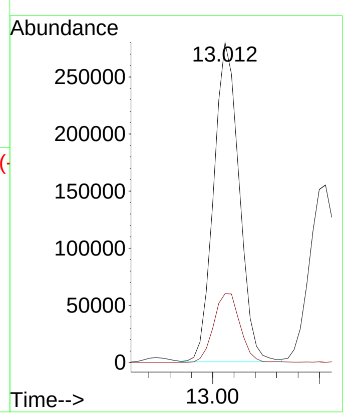


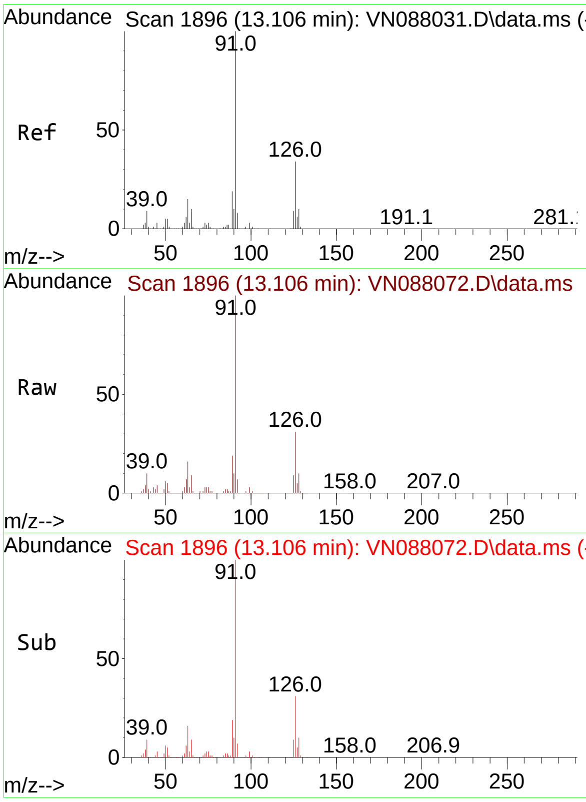


#74
n-propylbenzene
Concen: 20.437 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 91 Resp: 465597

Ion	Ratio	Lower	Upper
91	100		
120	22.2	0.0	46.2





#75
2-Chlorotoluene
Concen: 20.097 ug/l
RT: 13.106 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 91 Resp: 27995

Ion	Ratio	Lower	Upper
91	100		
126	31.7	0.0	66.6

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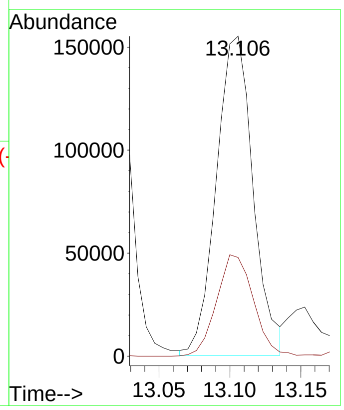
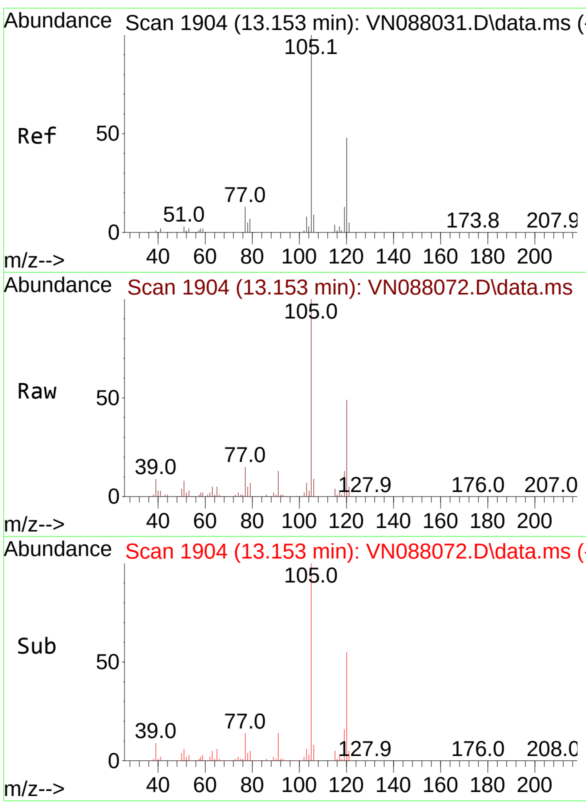
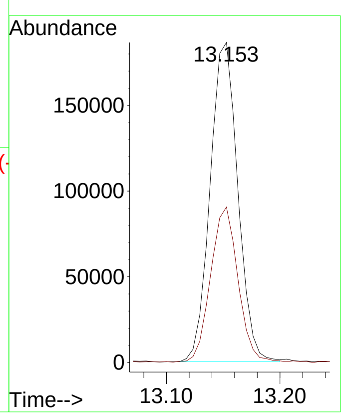




#76
1,3,5-Trimethylbenzene
Concen: 19.736 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:105 Resp: 316376

Ion	Ratio	Lower	Upper
105	100		
120	48.3	0.0	100.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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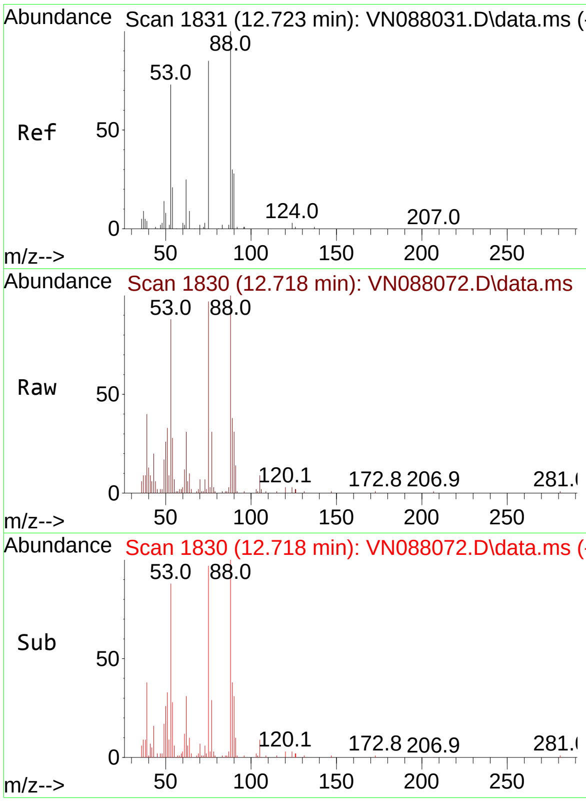
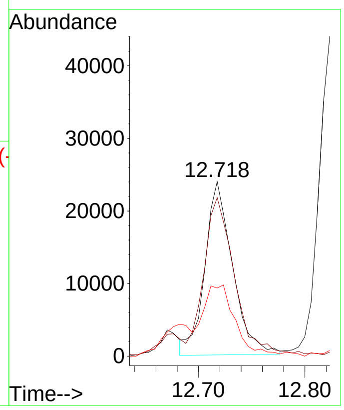
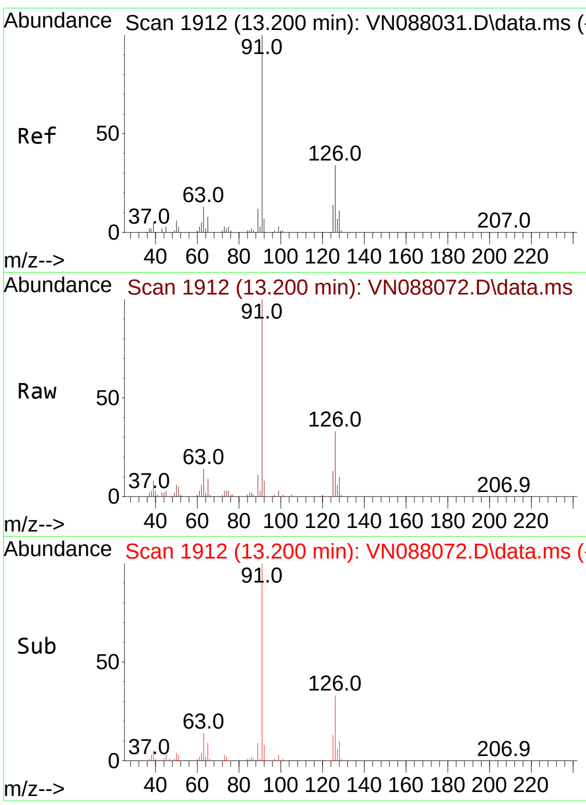


#77
t-1,4-Dichloro-2-butene
Concen: 18.307 ug/l
RT: 12.718 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 75 Resp: 4335

Ion	Ratio	Lower	Upper
75	100		
53	90.5	41.8	125.3
89	38.9	19.9	59.6

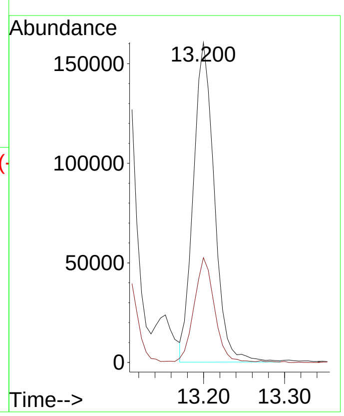




#78
4-Chlorotoluene
Concen: 20.449 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion: 91 Resp: 289399

Ion	Ratio	Lower	Upper
91	100		
126	31.8	0.0	68.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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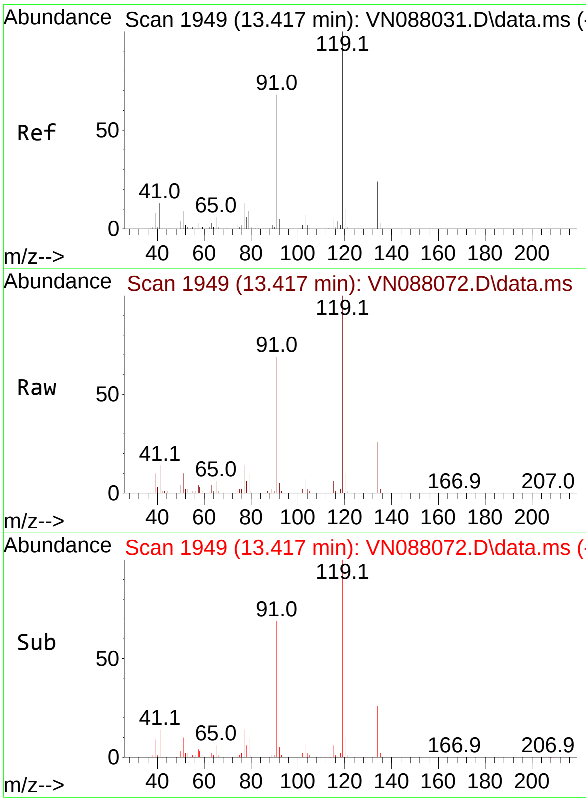
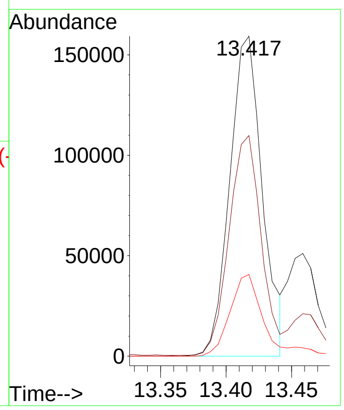
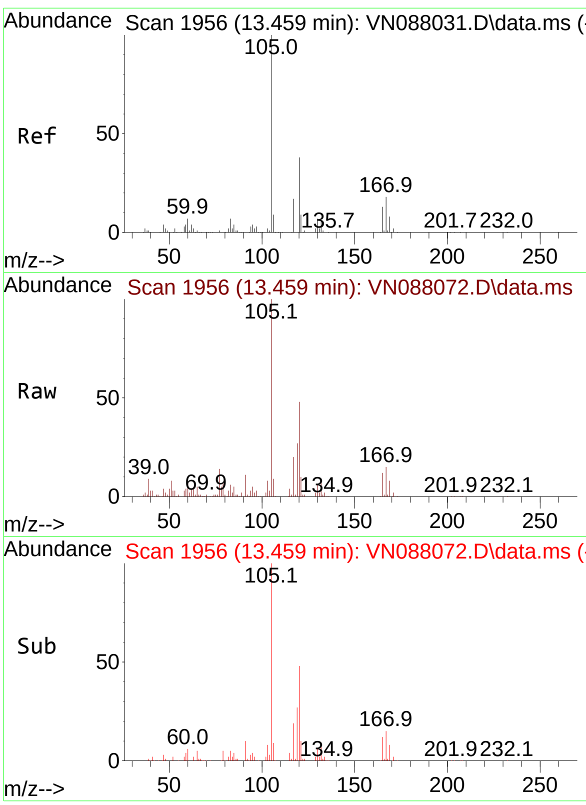
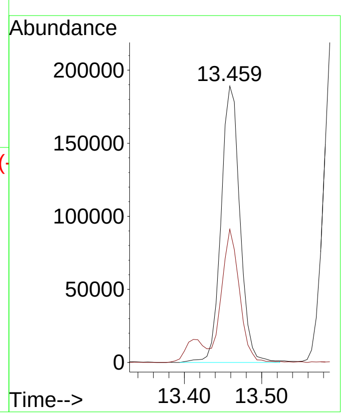



```
#79
tert-butylbenzene
Concen:   19.868 ug/l
RT:  13.417 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion:119 Resp:  27610
Ion  Ratio  Lower  Upper
119  100
 91   67.4    0.0  132.4
134   24.7    0.0   48.6
```






```
#80
1,2,4-Trimethylbenzene
Concen:   20.037 ug/l
RT:  13.459 min  Scan# 1956
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion:105 Resp:  321547
Ion  Ratio  Lower  Upper
105  100
120   45.2    0.0   93.8
```



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

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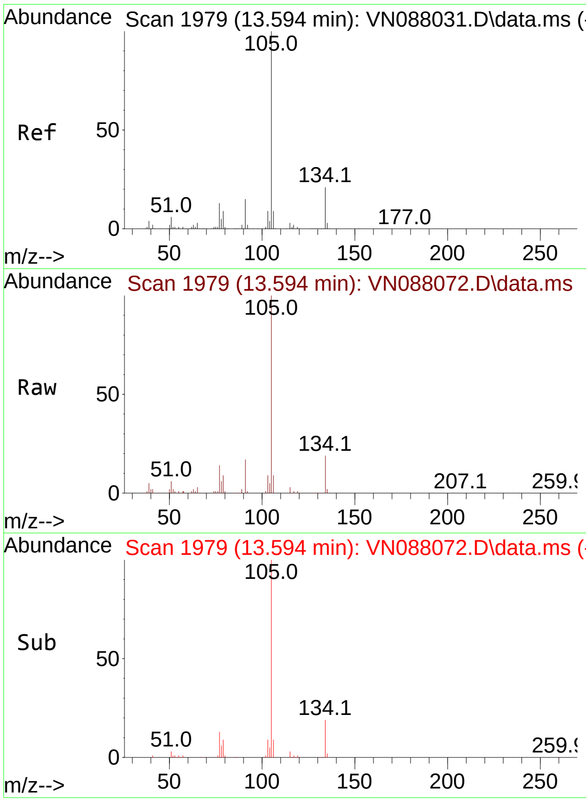
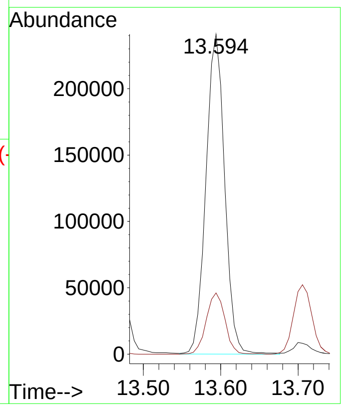
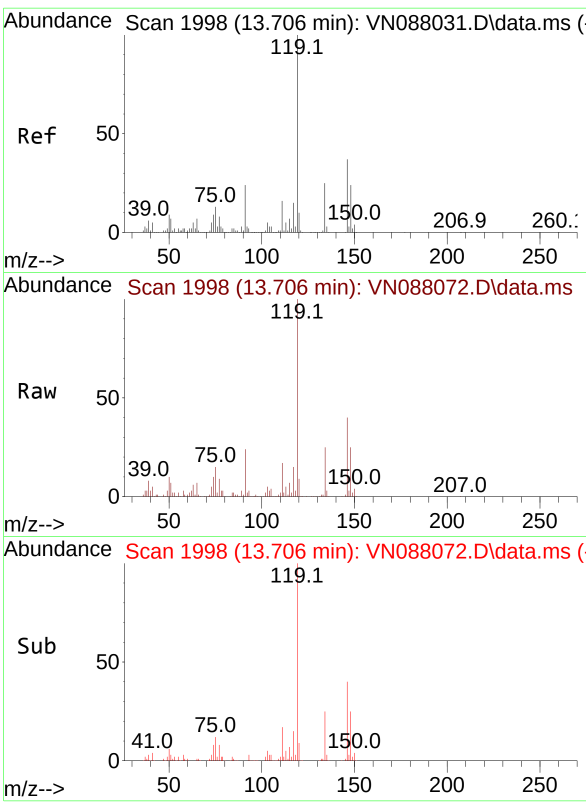
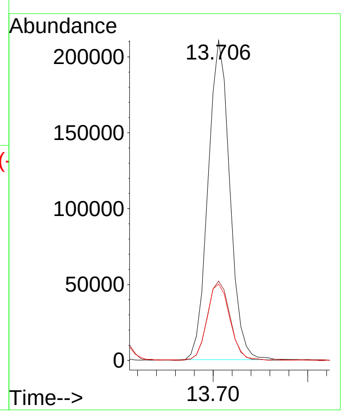


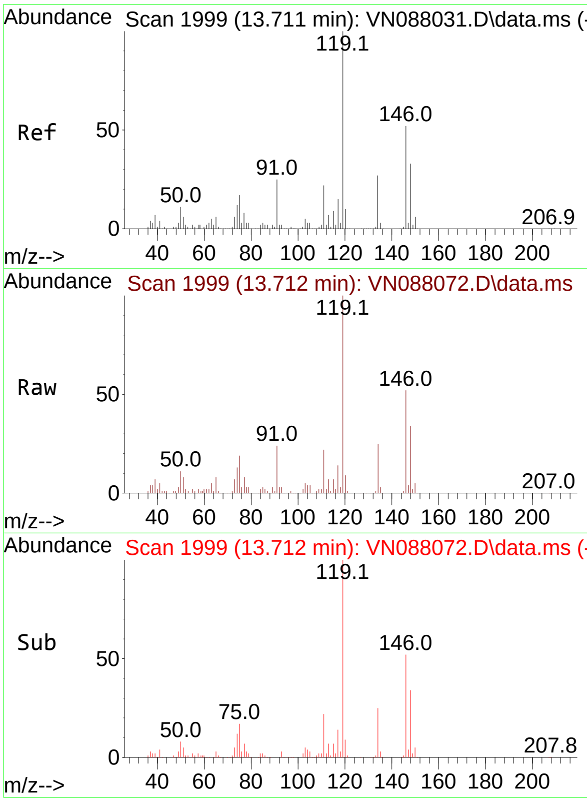

```
#81
sec-Butylbenzene
Concen:   20.761 ug/l
RT:  13.594 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion:105 Resp:  40565
Ion  Ratio  Lower  Upper
105  100
134   19.1    0.0   41.2
```






```
#82
p-Isopropyltoluene
Concen:   20.191 ug/l
RT:  13.706 min  Scan# 1998
Delta R.T.  0.000 min
Lab File:   VN088072.D
Acq: 20 Oct 2025  08:52

Tgt Ion:119 Resp:  336823
Ion  Ratio  Lower  Upper
119  100
134   25.7    0.0   52.6
 91   24.9    0.0   48.2
```





#83
1,3-Dichlorobenzene
Concen: 19.315 ug/l
RT: 13.712 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:146 Resp: 16762

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.1	63.1
148	64.8	31.5	94.5

Manual Integrations
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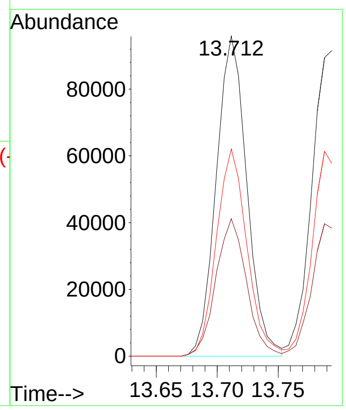
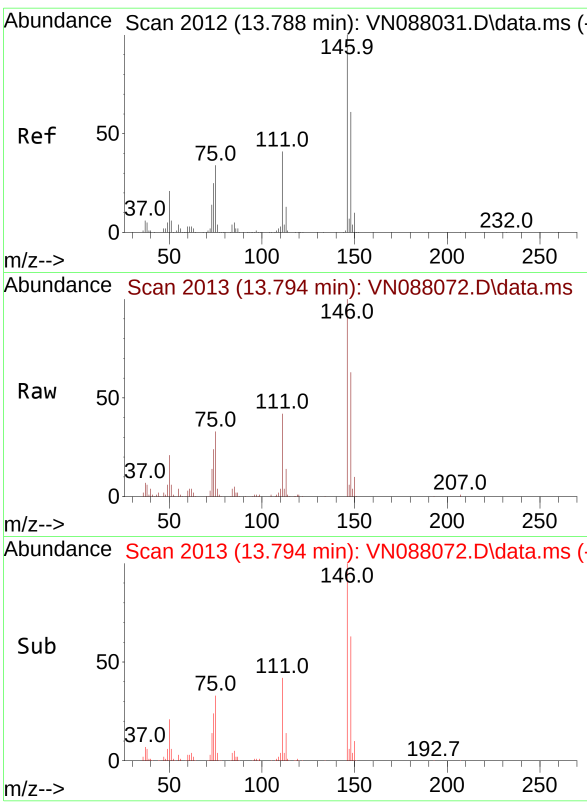
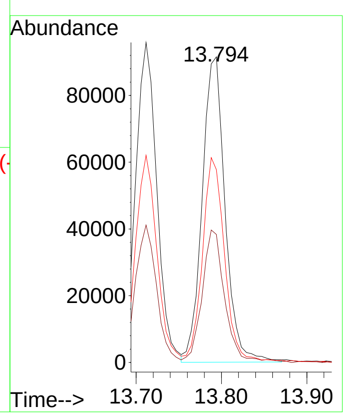


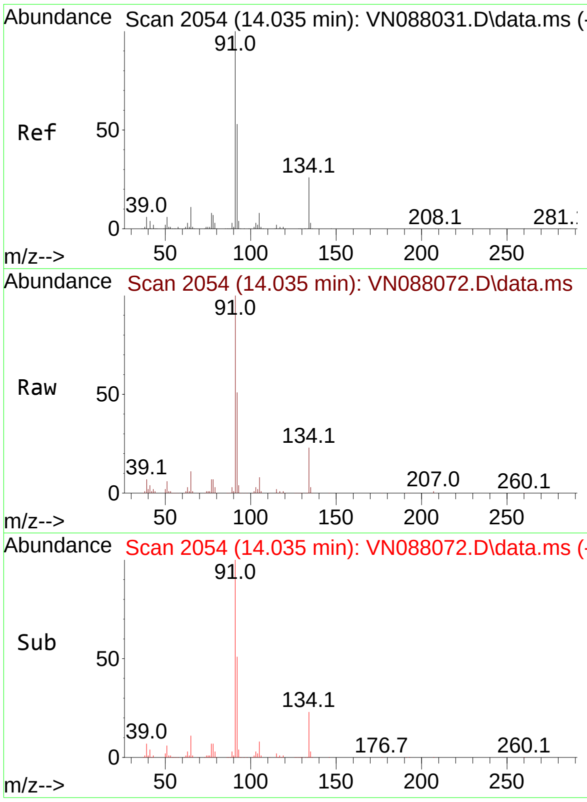


#84
1,4-Dichlorobenzene
Concen: 19.106 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:146 Resp: 171003

Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.5	61.6
148	62.6	31.9	95.9





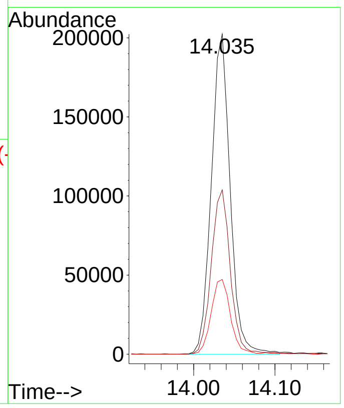
#85
n-Butylbenzene
Concen: 20.996 ug/l
RT: 14.035 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

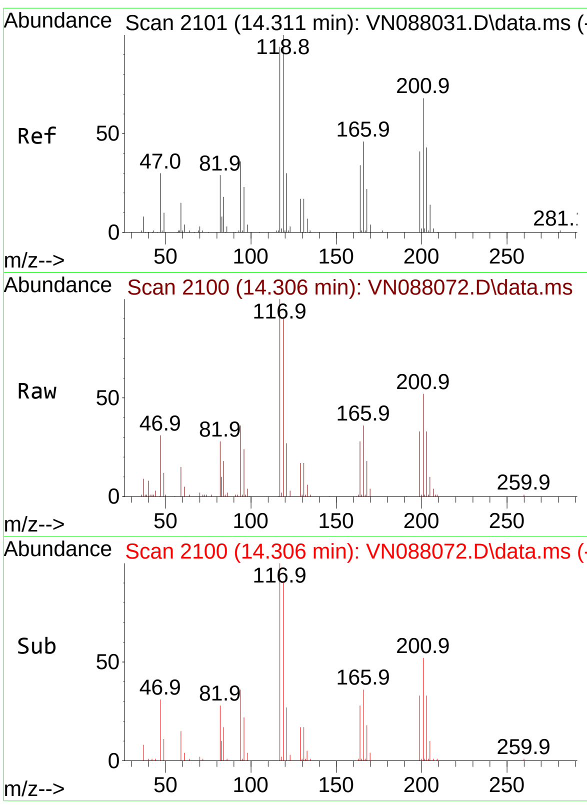
Tgt Ion: 91 Resp: 32584

Ion	Ratio	Lower	Upper
91	100		
92	51.7	0.0	107.6
134	24.0	0.0	52.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

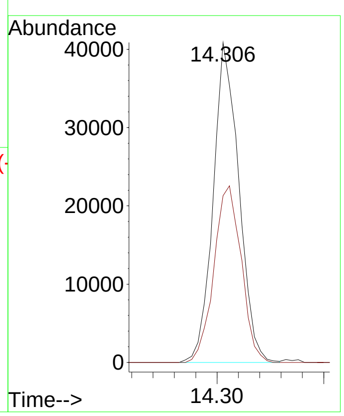


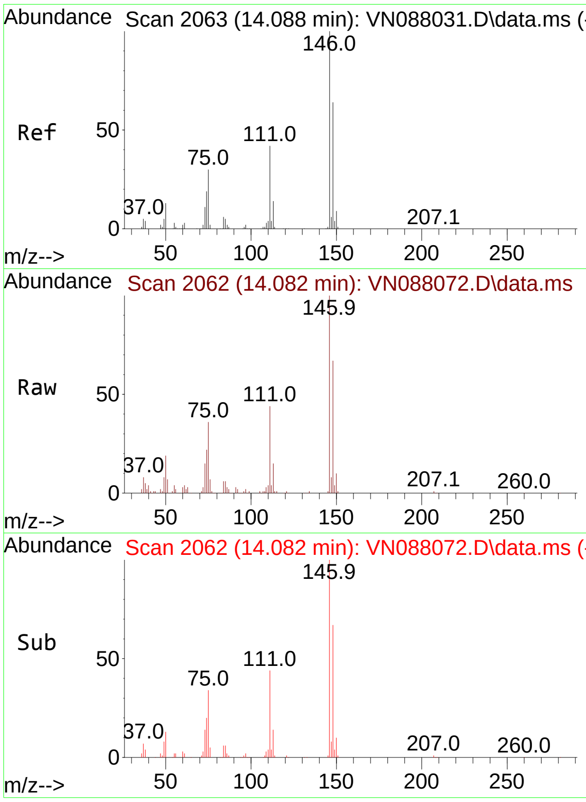


#86
Hexachloroethane
Concen: 20.397 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:117 Resp: 68161

Ion	Ratio	Lower	Upper
117	100		
201	58.8	34.8	104.3

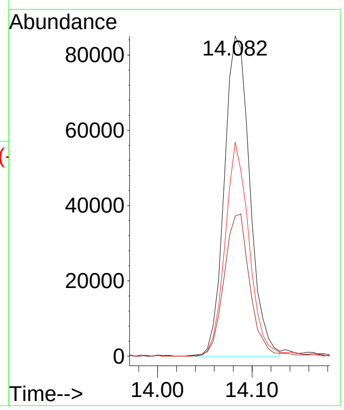




#87
1,2-Dichlorobenzene
Concen: 18.669 ug/l
RT: 14.082 min   Scan# 2(
Delta R.T.   -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025   08:52

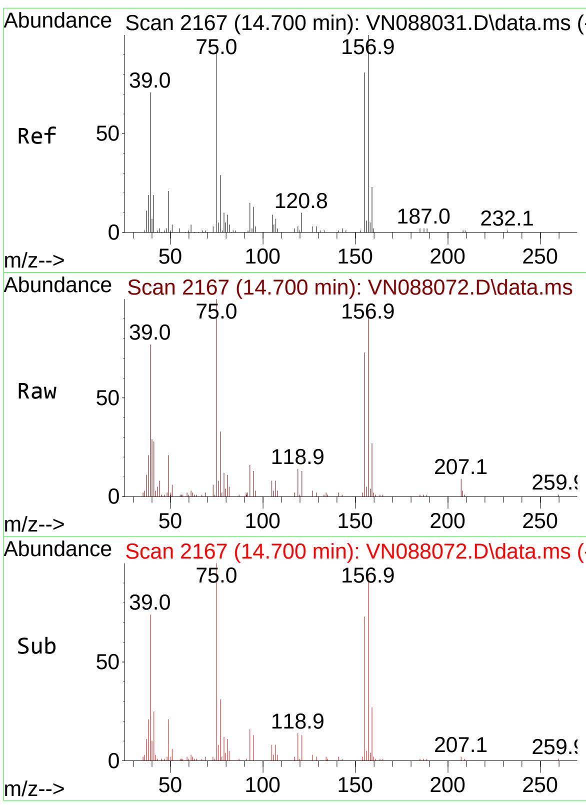
Tgt Ion:146 Resp: 15936!

Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.3	66.8
148	62.8	31.4	94.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

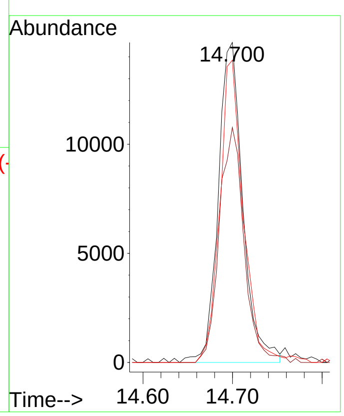
Manual Integrations
APPROVED
Reviewed By :John Carlone   10/21/2025
Supervised By :Semsettin Yesilyurt   10/21/2025

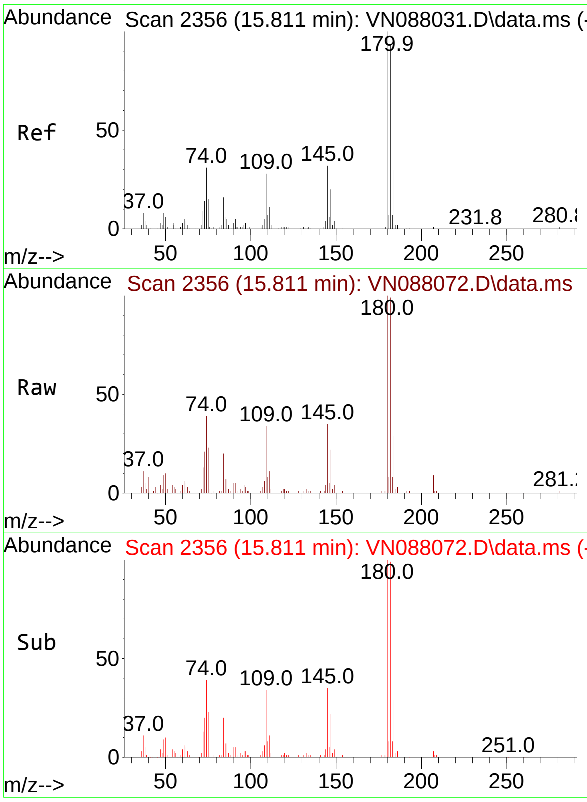


#88
1,2-Dibromo-3-Chloropropane
Concen: 19.052 ug/l
RT: 14.700 min   Scan# 2167
Delta R.T.   0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025   08:52

Tgt Ion: 75 Resp: 27995

Ion	Ratio	Lower	Upper
75	100		
155	73.2	63.5	95.3
157	90.2	81.7	122.5





#89
1,2,4-Trichlorobenzene
Concen: 17.519 ug/l
RT: 15.811 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

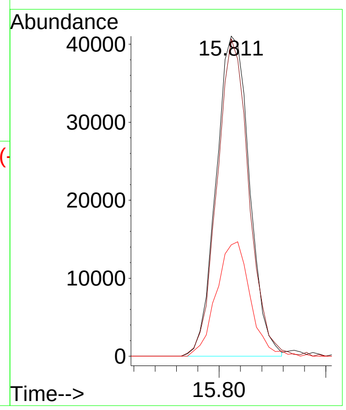
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

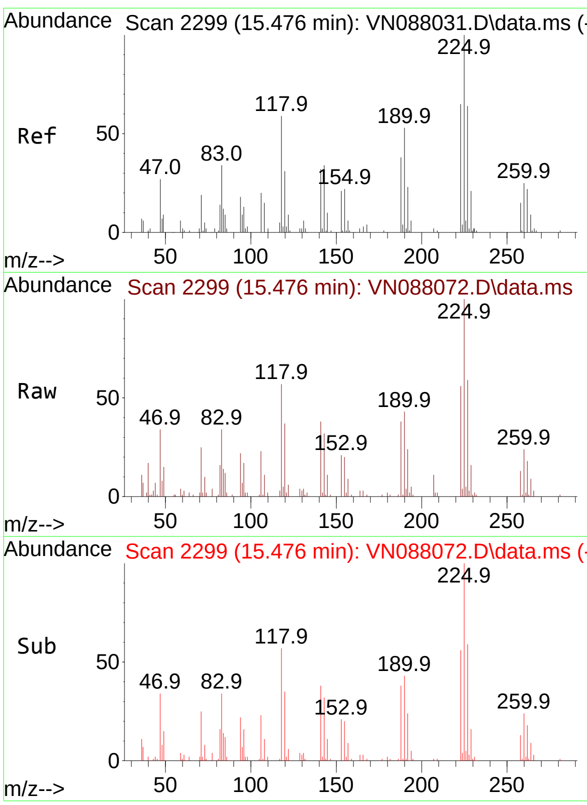
Tgt Ion:180 Resp: 8907

Ion	Ratio	Lower	Upper
180	100		
182	94.7	74.6	112.0
145	36.2	27.2	40.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

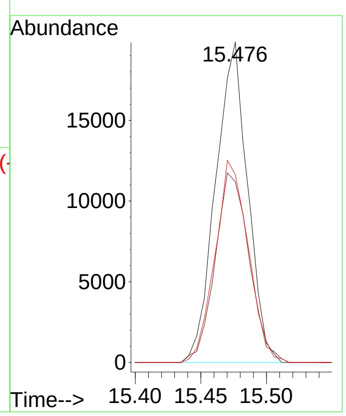


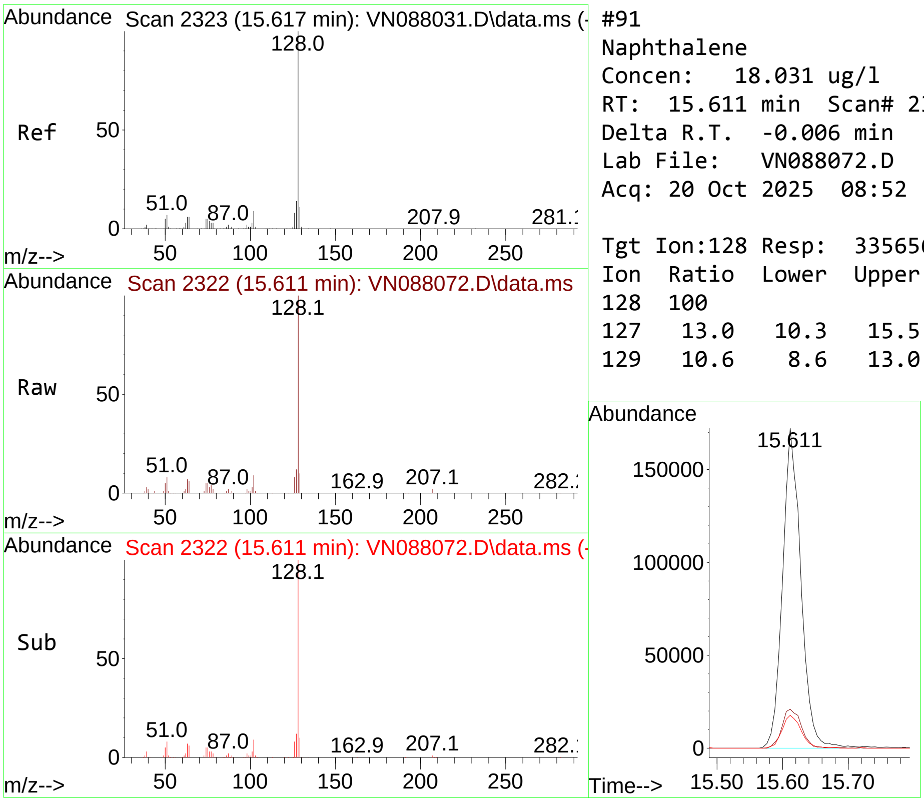


#90
Hexachlorobutadiene
Concen: 19.026 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:225 Resp: 33669

Ion	Ratio	Lower	Upper
225	100		
223	62.9	0.0	129.6
227	65.3	0.0	132.2





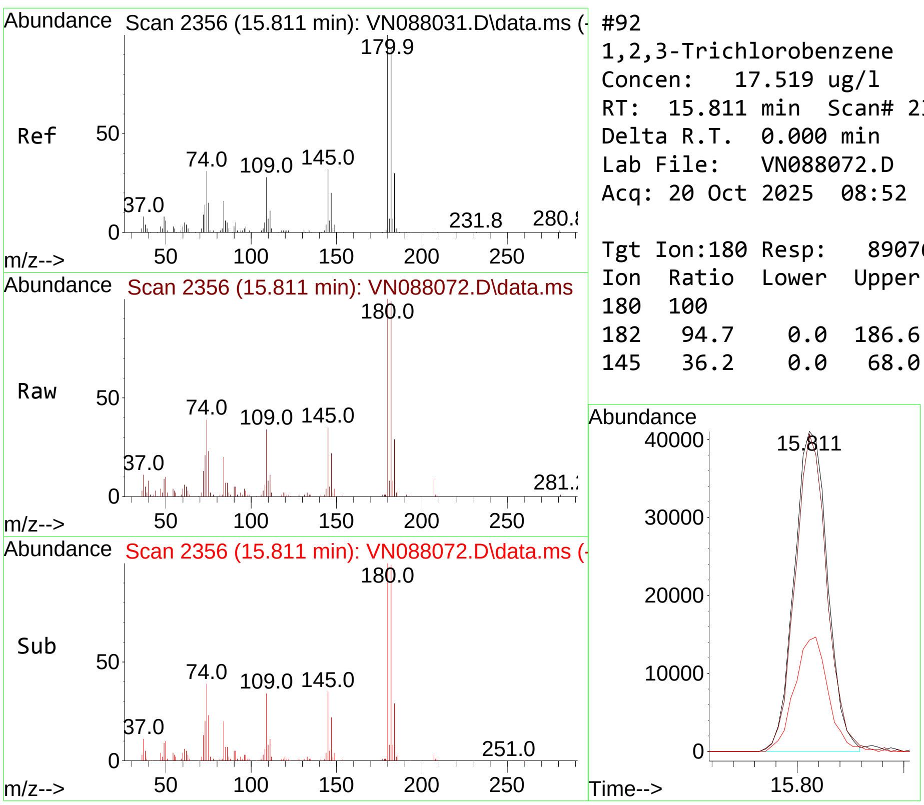
#91
Naphthalene
Concen: 18.031 ug/l
RT: 15.611 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:128 Resp: 33565

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.6	8.6	13.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#92
1,2,3-Trichlorobenzene
Concen: 17.519 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088072.D
Acq: 20 Oct 2025 08:52

Tgt Ion:180 Resp: 89076

Ion	Ratio	Lower	Upper
180	100		
182	94.7	0.0	186.6
145	36.2	0.0	68.0

Sample Results: **VN088072.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088072.D
Acq On : 20 Oct 2025 08:52
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Oct 21 05:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	Bromochloromethane	1.000	1.000	0.0	89	0.00
2	M	Dichlorodifluoromethane	1.718	1.883	-9.6	94	0.00
3	M	Chloromethane	1.948	1.947	0.1	90	0.00
4	M	Vinyl Chloride	2.031	2.097	-3.2	92	0.00
5	M	Bromomethane	1.092	1.203	-10.2	103	0.00
6	M	Chloroethane	1.340	1.480	-10.4	99	0.00
7	M	Trichlorofluoromethane	2.762	3.223	-16.7	105	0.00
8	T	Diethyl Ether	1.248	1.316	-5.4	96	0.00
9		1,1,2-Trichlorotrifluoroeth	1.479	1.650	-11.6	101	0.00
10	M	1,1-Dichloroethene	1.577	1.667	-5.7	95	0.00
11		Methyl Iodide	1.454	1.212	16.6	90	0.00
12		Methyl Acetate	2.564	2.746	-7.1	97	0.00
13	M	Acrolein	0.397	0.290	27.0#	73	0.00
14	M	Acrylonitrile	1.237	1.199	3.1	88	0.00
15	M	Acetone	0.362	0.333	8.0	81	0.00
16	M	Carbon Disulfide	4.945	4.869	1.5	89	0.01
17		Allyl chloride	2.976	3.006	-1.0	91	0.00
18	M	Methylene Chloride	2.005	1.939	3.3	89	0.00
19	M	trans-1,2-Dichloroethene	1.824	1.794	1.6	88	0.00
20	T	Diisopropyl ether	6.776	6.875	-1.5	91	0.00
21	M	1,1-Dichloroethane	3.528	3.632	-2.9	92	0.00
22	M	cis-1,2-Dichloroethene	2.283	2.273	0.4	90	0.00
23	M	tert-Butyl Alcohol	0.496	0.453	8.7	82	-0.02
24	M	Methyl tert-Butyl Ether	6.809	6.733	1.1	90	0.00
25	M	Chloroform	3.640	3.692	-1.4	92	0.00
26		Cyclohexane	2.923	3.048	-4.3	92	0.00
27	s	1,2-Dichloroethane-d4	2.336	2.535	-8.5	98	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
29		1,1-Dichloropropene	0.430	0.446	-3.7	96	0.00
30	M	2-Butanone	0.317	0.297	6.3	85	0.00
31		2,2-Dichloropropane	0.554	0.596	-7.6	98	0.00
32	M	1,1,1-Trichloroethane	0.537	0.564	-5.0	95	0.00
33	M	Carbon Tetrachloride	0.450	0.480	-6.7	97	0.00
34	M	Benzene	1.426	1.410	1.1	91	0.00
35		Methacrylonitrile	0.334	0.319	4.5	87	0.00
36	M	1,2-Dichloroethane	0.495	0.519	-4.8	96	0.00
37	M	Trichloroethene	0.338	0.322	4.7	87	0.00
38		Methylcyclohexane	0.531	0.544	-2.4	94	0.00
39	M	1,2-Dichloropropane	0.358	0.355	0.8	91	0.00
40		Dibromomethane	0.260	0.258	0.8	90	0.00
41	M	Bromodichloromethane	0.532	0.534	-0.4	93	0.00
42	M	Vinyl Acetate	1.080	0.998	7.6	90	0.00
43		Ethyl Acetate	0.610	0.612	-0.3	91	0.00
44		Isopropyl Acetate	0.996	0.954	4.2	88	0.00
45	T	1,4-Dioxane	0.007	0.007	0.0	82	0.00
46		Methyl methacrylate	0.439	0.376	14.4	88	0.00
47		n-amyl Acetate	0.472	0.545	-15.5	107	0.00
48	M	t-1,3-Dichloropropene	0.591	0.577	2.4	91	0.00

Sample Results: **VN088072.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088072.D
Acq On : 20 Oct 2025 08:52
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Oct 21 05:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	cis-1,3-Dichloropropene	0.617	0.603	2.3	90	0.00
50	M	1,1,2-Trichloroethane	0.345	0.332	3.8	89	0.00
51		Ethyl methacrylate	0.583	0.556	4.6	91	0.00
52		1,3-Dichloropropane	0.601	0.595	1.0	91	0.00
53	M	Dibromochloromethane	0.412	0.406	1.5	92	0.00
54	M	1,2-Dibromoethane	0.369	0.358	3.0	90	0.00
55	M	2-Chloroethyl vinyl ether	0.315	0.305	3.2	86	0.00
56	M	Bromoform	0.279	0.254	9.0	86	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
58	M	4-Methyl-2-Pentanone	0.671	0.650	3.1	89	0.00
59	M	2-Hexanone	0.443	0.421	5.0	88	0.00
60	S	4-Bromofluorobenzene	0.495	0.491	0.8	91	0.00
61	M	Tetrachloroethene	0.304	0.289	4.9	86	0.00
62	M	Toluene	1.702	1.675	1.6	90	0.00
63	S	Toluene-d8	1.337	1.373	-2.7	94	0.00
64	M	Chlorobenzene	1.087	1.064	2.1	90	0.00
65		1,1,1,2-Tetrachloroethane	0.375	0.367	2.1	88	0.00
66	M	Ethyl Benzene	1.850	1.840	0.5	92	0.00
67	M	m/p-Xylenes	0.713	0.703	1.4	90	0.00
68	M	o-Xylene	0.710	0.671	5.5	86	0.00
69	M	Styrene	1.175	1.130	3.8	91	0.00
70		Isopropylbenzene	1.740	1.741	-0.1	93	0.00
71	M	1,1,2,2-Tetrachloroethane	0.590	0.569	3.6	89	0.00
72		1,2,3-Trichloropropane	0.548	0.572	-4.4	101	0.00
73		Bromobenzene	0.425	0.392	7.8	84	0.00
74		n-propylbenzene	2.101	2.147	-2.2	94	0.00
75		2-Chlorotoluene	1.285	1.291	-0.5	93	0.00
76		1,3,5-Trimethylbenzene	1.478	1.459	1.3	91	0.00
77		t-1,4-Dichloro-2-butene	0.218	0.200	8.3	93	0.00
78		4-Chlorotoluene	1.305	1.334	-2.2	94	0.00
79		tert-butylbenzene	1.282	1.273	0.7	91	0.00
80		1,2,4-Trimethylbenzene	1.480	1.483	-0.2	92	0.00
81		sec-Butylbenzene	1.802	1.871	-3.8	95	0.00
82		p-Isopropyltoluene	1.538	1.553	-1.0	92	0.00
83	M	1,3-Dichlorobenzene	0.800	0.773	3.4	88	0.00
84	M	1,4-Dichlorobenzene	0.825	0.789	4.4	87	0.00
85		n-Butylbenzene	1.431	1.503	-5.0	96	0.00
86	T	Hexachloroethane	0.308	0.314	-1.9	95	0.00
87	M	1,2-Dichlorobenzene	0.787	0.735	6.6	86	0.00
88		1,2-Dibromo-3-Chloropropane	0.136	0.129	5.1	84	0.00
89		1,2,4-Trichlorobenzene	0.469	0.411	12.4	80	0.00
90		Hexachlorobutadiene	0.163	0.155	4.9	89	0.00
91	M	Naphthalene	1.717	1.548	9.8	83	0.00
92		1,2,3-Trichlorobenzene	0.469	0.411	12.4	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **VN088072.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088072.D
Acq On : 20 Oct 2025 08:52
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Oct 21 05:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	Bromochloromethane	30.000	30.000	0.0	89	0.00
2	M	Dichlorodifluoromethane	20.000	21.918	-9.6	94	0.00
3	M	Chloromethane	20.000	19.992	0.0	90	0.00
4	M	Vinyl Chloride	20.000	20.649	-3.2	92	0.00
5	M	Bromomethane	20.000	22.034	-10.2	103	0.00
6	M	Chloroethane	20.000	22.087	-10.4	99	0.00
7	M	Trichlorofluoromethane	20.000	23.338	-16.7	105	0.00
8	T	Diethyl Ether	20.000	21.090	-5.4	96	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	22.311	-11.6	101	0.00
10	M	1,1-Dichloroethene	20.000	21.134	-5.7	95	0.00
11		Methyl Iodide	20.000	16.676	16.6	90	0.00
12		Methyl Acetate	20.000	21.414	-7.1	97	0.00
13	M	Acrolein	100.000	73.018	27.0#	73	0.00
14	M	Acrylonitrile	100.000	96.903	3.1	88	0.00
15	M	Acetone	100.000	91.815	8.2	81	0.00
16	M	Carbon Disulfide	20.000	19.692	1.5	89	0.01
17		Allyl chloride	20.000	20.198	-1.0	91	0.00
18	M	Methylene Chloride	20.000	19.340	3.3	89	0.00
19	M	trans-1,2-Dichloroethene	20.000	19.669	1.7	88	0.00
20	T	Diisopropyl ether	20.000	20.292	-1.5	91	0.00
21	M	1,1-Dichloroethane	20.000	20.593	-3.0	92	0.00
22	M	cis-1,2-Dichloroethene	20.000	19.911	0.4	90	0.00
23	M	tert-Butyl Alcohol	100.000	91.354	8.6	82	-0.02
24	M	Methyl tert-Butyl Ether	20.000	19.779	1.1	90	0.00
25	M	Chloroform	20.000	20.283	-1.4	92	0.00
26		Cyclohexane	20.000	20.854	-4.3	92	0.00
27	s	1,2-Dichloroethane-d4	30.000	32.552	-8.5	98	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	90	0.00
29		1,1-Dichloropropene	20.000	20.766	-3.8	96	0.00
30	M	2-Butanone	100.000	93.573	6.4	85	0.00
31		2,2-Dichloropropane	20.000	21.513	-7.6	98	0.00
32	M	1,1,1-Trichloroethane	20.000	21.001	-5.0	95	0.00
33	M	Carbon Tetrachloride	20.000	21.318	-6.6	97	0.00
34	M	Benzene	20.000	19.772	1.1	91	0.00
35		Methacrylonitrile	20.000	19.140	4.3	87	0.00
36	M	1,2-Dichloroethane	20.000	20.969	-4.8	96	0.00
37	M	Trichloroethene	20.000	19.082	4.6	87	0.00
38		Methylcyclohexane	20.000	20.494	-2.5	94	0.00
39	M	1,2-Dichloropropane	20.000	19.834	0.8	91	0.00
40		Dibromomethane	20.000	19.858	0.7	90	0.00
41	M	Bromodichloromethane	20.000	20.076	-0.4	93	0.00
42	M	Vinyl Acetate	100.000	92.402	7.6	90	0.00
43		Ethyl Acetate	20.000	20.063	-0.3	91	0.00
44		Isopropyl Acetate	20.000	19.161	4.2	88	0.00
45	T	1,4-Dioxane	400.000	392.783	1.8	82	0.00
46		Methyl methacrylate	20.000	17.143	14.3	88	0.00
47		n-amyl Acetate	20.000	23.091	-15.5	107	0.00
48	M	t-1,3-Dichloropropene	20.000	19.520	2.4	91	0.00

Sample Results: **VN088072.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088072.D
Acq On : 20 Oct 2025 08:52
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Oct 21 05:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 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	cis-1,3-Dichloropropene	20.000	19.546	2.3	90	0.00
50	M	1,1,2-Trichloroethane	20.000	19.287	3.6	89	0.00
51		Ethyl methacrylate	20.000	19.052	4.7	91	0.00
52		1,3-Dichloropropane	20.000	19.780	1.1	91	0.00
53	M	Dibromochloromethane	20.000	19.706	1.5	92	0.00
54	M	1,2-Dibromoethane	20.000	19.404	3.0	90	0.00
55	M	2-Chloroethyl vinyl ether	100.000	96.878	3.1	86	0.00
56	M	Bromoform	20.000	18.195	9.0	86	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	92	0.00
58	M	4-Methyl-2-Pentanone	100.000	96.812	3.2	89	0.00
59	M	2-Hexanone	100.000	95.101	4.9	88	0.00
60	S	4-Bromofluorobenzene	30.000	29.799	0.7	91	0.00
61	M	Tetrachloroethene	20.000	19.047	4.8	86	0.00
62	M	Toluene	20.000	19.686	1.6	90	0.00
63	S	Toluene-d8	30.000	30.809	-2.7	94	0.00
64	M	Chlorobenzene	20.000	19.581	2.1	90	0.00
65		1,1,1,2-Tetrachloroethane	20.000	19.621	1.9	88	0.00
66	M	Ethyl Benzene	20.000	19.892	0.5	92	0.00
67	M	m/p-Xylenes	40.000	39.395	1.5	90	0.00
68	M	o-Xylene	20.000	18.890	5.5	86	0.00
69	M	Styrene	20.000	19.241	3.8	91	0.00
70		Isopropylbenzene	20.000	20.011	-0.1	93	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	19.300	3.5	89	0.00
72		1,2,3-Trichloropropane	20.000	20.866	-4.3	101	0.00
73		Bromobenzene	20.000	18.438	7.8	84	0.00
74		n-propylbenzene	20.000	20.437	-2.2	94	0.00
75		2-Chlorotoluene	20.000	20.097	-0.5	93	0.00
76		1,3,5-Trimethylbenzene	20.000	19.736	1.3	91	0.00
77		t-1,4-Dichloro-2-butene	20.000	18.307	8.5	93	0.00
78		4-Chlorotoluene	20.000	20.449	-2.2	94	0.00
79		tert-butylbenzene	20.000	19.868	0.7	91	0.00
80		1,2,4-Trimethylbenzene	20.000	20.037	-0.2	92	0.00
81		sec-Butylbenzene	20.000	20.761	-3.8	95	0.00
82		p-Isopropyltoluene	20.000	20.191	-1.0	92	0.00
83	M	1,3-Dichlorobenzene	20.000	19.315	3.4	88	0.00
84	M	1,4-Dichlorobenzene	20.000	19.106	4.5	87	0.00
85		n-Butylbenzene	20.000	20.996	-5.0	96	0.00
86	T	Hexachloroethane	20.000	20.397	-2.0	95	0.00
87	M	1,2-Dichlorobenzene	20.000	18.669	6.7	86	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	19.052	4.7	84	0.00
89		1,2,4-Trichlorobenzene	20.000	17.519	12.4	80	0.00
90		Hexachlorobutadiene	20.000	19.026	4.9	89	0.00
91	M	Naphthalene	20.000	18.031	9.8	83	0.00
92		1,2,3-Trichlorobenzene	20.000	17.519	12.4	80	0.00

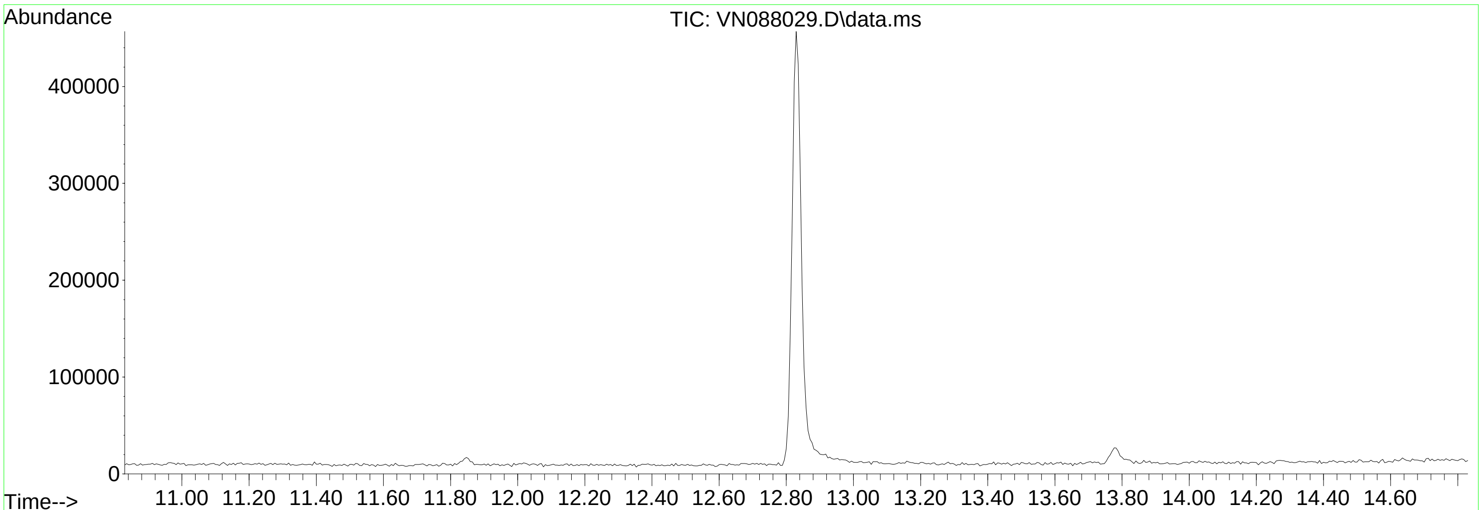
(#) = Out of Range SPCC's out = 0 CCC's out = 0

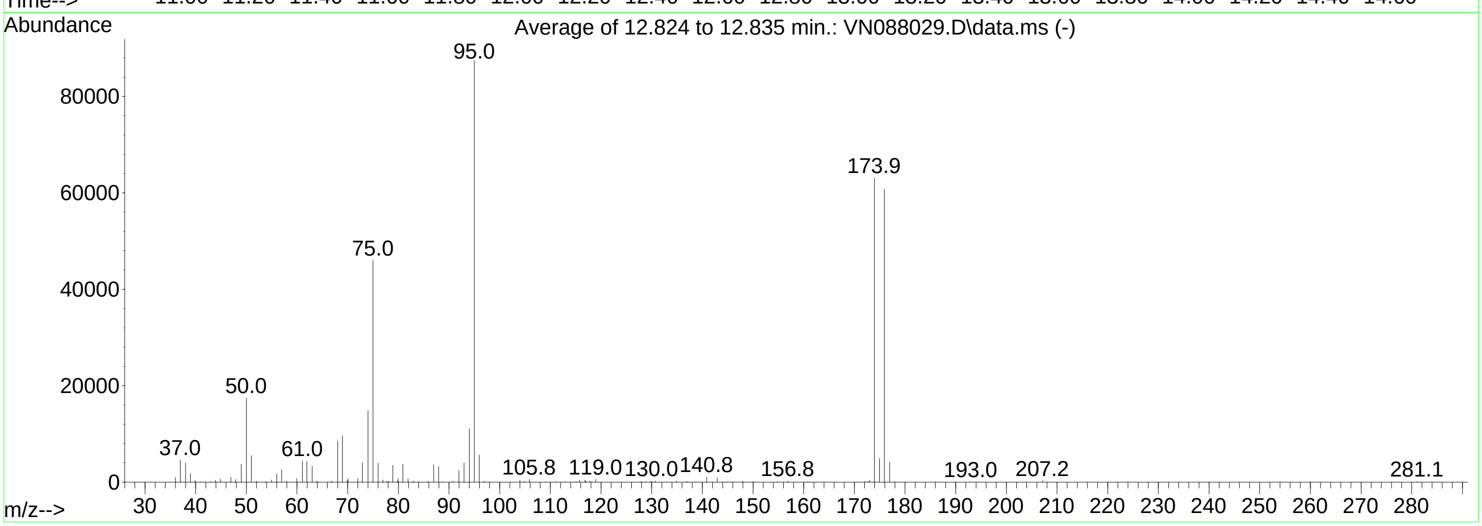
QC SAMPLE DATA

Sample Results: **VN088029.D**

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
Data File : VN088029.D
Acq On    : 08 Oct 2025  09:00
Operator  : JC\MD
Sample    : BFB
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 1   Sample Multiplier: 1

Integration File: RTEINT.P

Method    : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
Title     : SW846 8260
Last Update  : Wed Sep 24 05:05:30 2025
```

Instrument :
MSVOA_N
ClientSampleId :
BFB





AutoFind: Scans 1848, 1849, 1850; Background Corrected with Scan 1838

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	17477	PASS
75	95	30	60	52.6	45984	PASS
95	95	100	100	100.0	87474	PASS
96	95	5	9	6.4	5640	PASS
173	174	0.00	2	0.7	447	PASS
174	95	50	100	72.1	63077	PASS
175	174	5	9	7.8	4922	PASS
176	174	95	101	96.4	60787	PASS
177	176	5	9	6.8	4150	PASS

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.824 to 12.835 min.: VN088029.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1009	47.90	581	59.95	735	72.00	748
36.95	4647	49.00	3723	61.05	4431	72.90	4078
38.00	4004	50.00	17477	61.95	4248	74.00	14870
38.95	1766	51.00	5503	63.00	3349	75.00	45984
39.90	406	51.90	62	63.90	238	76.00	3941
41.05	87	52.05	200	64.20	75	76.95	508
41.90	79	53.80	133	66.85	265	77.75	196
42.90	180	54.95	468	68.00	8577	78.00	198
43.90	433	56.00	1730	68.95	9610	78.90	3521
44.90	634	56.95	2644	69.90	438	79.80	249
46.95	1040	57.95	232	70.10	737	79.95	727

Average of 12.824 to 12.835 min.: VN088029.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	3725	92.95	3969	115.05	120	130.00	219
81.90	684	94.00	11096	115.75	389	130.75	204
82.80	75	95.00	87474	116.80	384	132.90	22
83.05	245	95.95	5640	117.00	258	134.90	235
84.00	168	97.00	213	117.80	275	136.80	157
85.85	165	104.00	436	118.20	72	137.10	107
86.95	3617	104.85	244	118.95	606	138.70	63
87.95	3204	105.85	562	127.70	113	140.85	1072
88.70	58	109.00	53	127.95	150	142.95	947
90.80	185	111.00	107	128.85	143	145.00	52
91.95	2395	113.00	79	129.70	105	146.00	66

Average of 12.824 to 12.835 min.: VN088029.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.95	241	173.95	63077				
149.80	78	174.95	4922				
150.00	59	175.90	60787				
154.85	151	176.95	4150				
156.85	252	178.00	55				
160.70	56	193.00	52				
160.90	52	207.15	299				
170.60	76	281.05	121				
172.05	128						
172.70	168						
173.00	447						

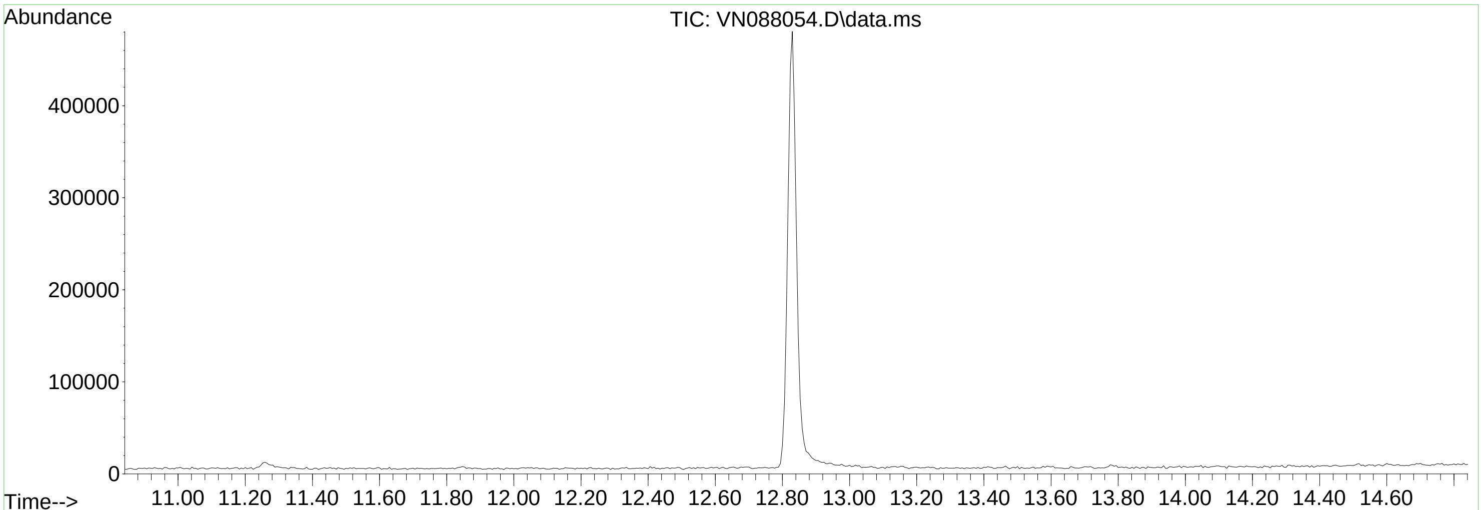
Sample Results: **VN088054.D**

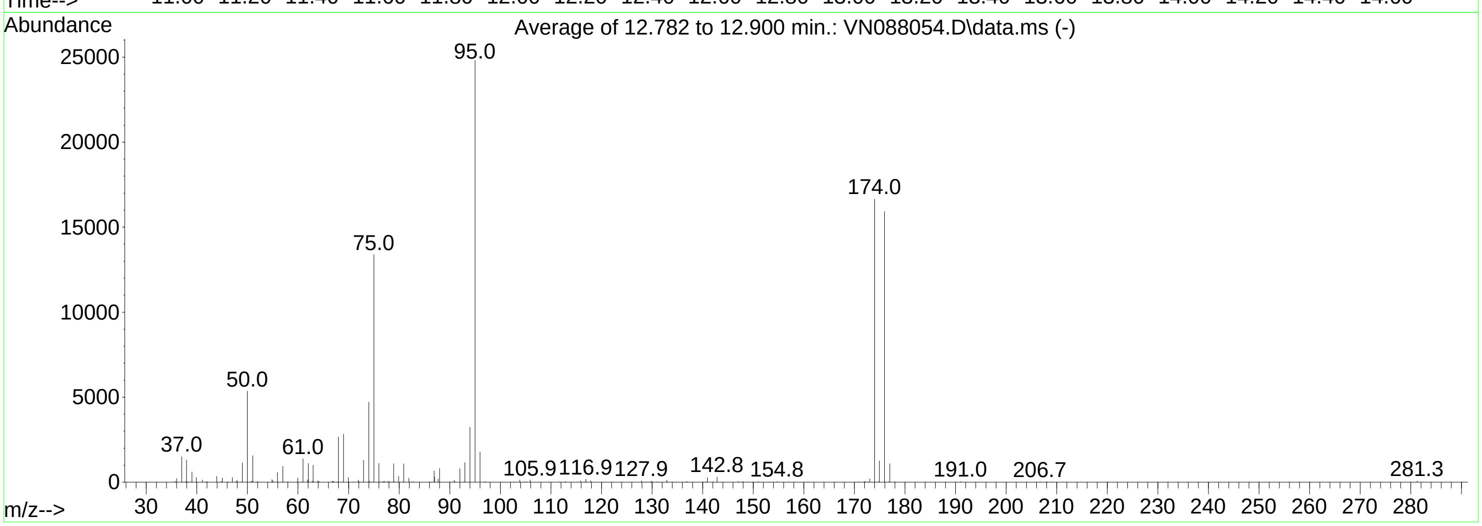
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088054.D
Acq On : 17 Oct 2025 08:56
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Thu Oct 09 02:36:32 2025





AutoFind: Averaged scan 1841 to 1861; Bkg corrected with scan 1840

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	5355	PASS
75	95	30	60	53.9	13380	PASS
95	95	100	100	100.0	24810	PASS
96	95	5	9	7.2	1783	PASS
173	174	0.00	2	1.2	201	PASS
174	95	50	100	67.1	16654	PASS
175	174	5	9	7.5	1251	PASS
176	174	95	101	95.6	15915	PASS
177	176	5	9	6.8	1078	PASS

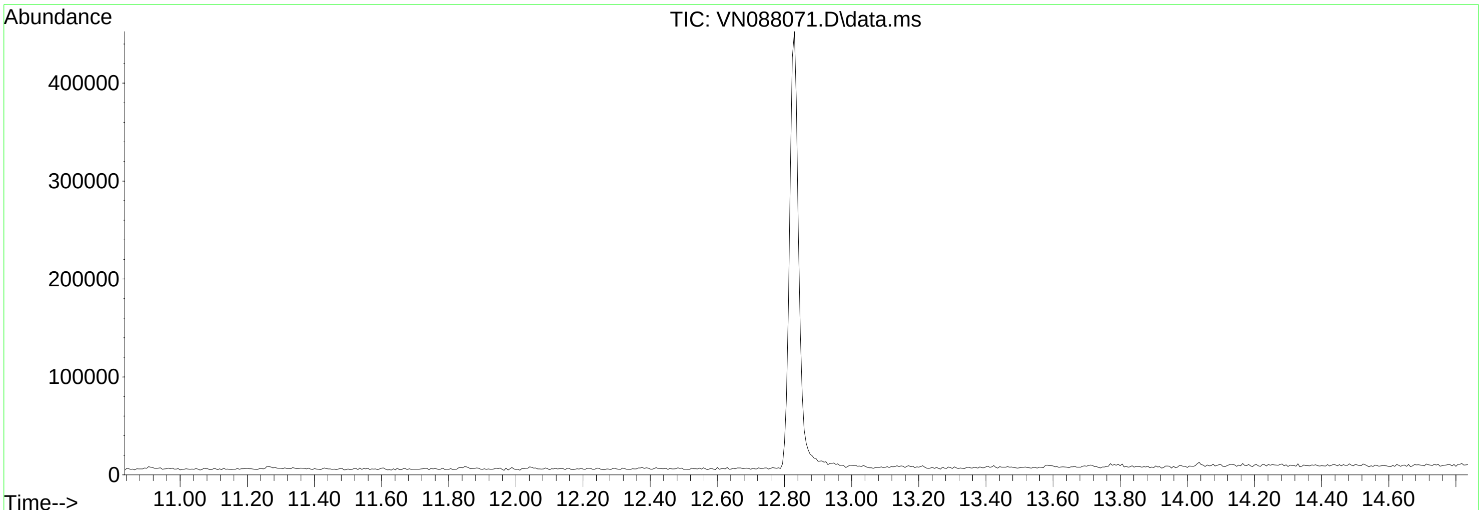
Sample Results: **VN088071.D**

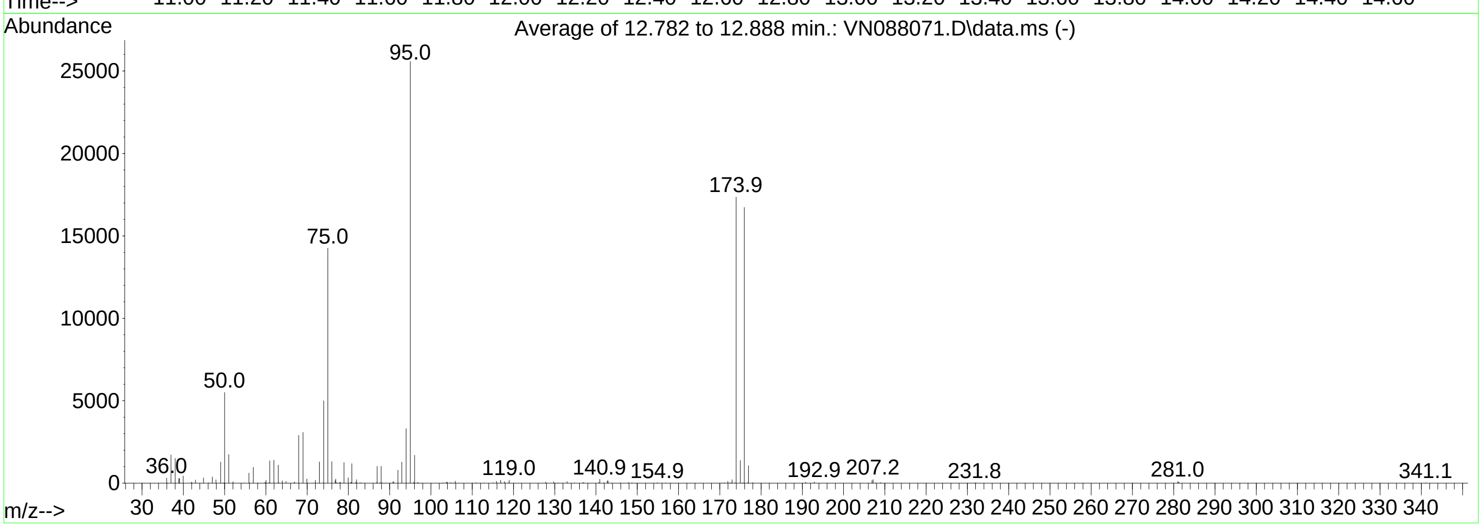
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088071.D
Acq On : 20 Oct 2025 08:17
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Thu Oct 09 02:36:32 2025





AutoFind: Averaged scan 1841 to 1859; Bkg corrected with scan 1840

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	5500	PASS
75	95	30	60	55.7	14257	PASS
95	95	100	100	100.0	25589	PASS
96	95	5	9	6.6	1694	PASS
173	174	0.00	2	1.2	216	PASS
174	95	50	100	67.8	17356	PASS
175	174	5	9	7.9	1374	PASS
176	174	95	101	96.4	16730	PASS
177	176	5	9	6.3	1056	PASS

Raw Data: **VN088058.D**

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN1017WBL01			SDG No.:	Q3385
Lab Sample ID:	VN1017WBL01			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
74-87-3	Chloromethane	0.64	U	1	0.64	5.00	ug/L	10/17/25 10:56	VN101725
75-01-4	Vinyl Chloride	0.83	U	1	0.83	5.00	ug/L	10/17/25 10:56	VN101725
74-83-9	Bromomethane	0.80	U	1	0.80	5.00	ug/L	10/17/25 10:56	VN101725
75-00-3	Chloroethane	2.30	U	1	2.30	5.00	ug/L	10/17/25 10:56	VN101725
75-69-4	Trichlorofluoromethane	0.80	U	1	0.80	5.00	ug/L	10/17/25 10:56	VN101725
75-35-4	1,1-Dichloroethene	0.76	U	1	0.76	5.00	ug/L	10/17/25 10:56	VN101725
107-02-8	Acrolein	6.60	U	1	6.60	25.0	ug/L	10/17/25 10:56	VN101725
107-13-1	Acrylonitrile	2.80	U	1	2.80	25.0	ug/L	10/17/25 10:56	VN101725
75-09-2	Methylene Chloride	0.86	U	1	0.86	5.00	ug/L	10/17/25 10:56	VN101725
156-60-5	trans-1,2-Dichloroethene	0.82	U	1	0.82	5.00	ug/L	10/17/25 10:56	VN101725
75-34-3	1,1-Dichloroethane	0.68	U	1	0.68	5.00	ug/L	10/17/25 10:56	VN101725
56-23-5	Carbon Tetrachloride	0.74	U	1	0.74	5.00	ug/L	10/17/25 10:56	VN101725
67-66-3	Chloroform	0.55	U	1	0.55	5.00	ug/L	10/17/25 10:56	VN101725
71-55-6	1,1,1-Trichloroethane	0.63	U	1	0.63	5.00	ug/L	10/17/25 10:56	VN101725
71-43-2	Benzene	0.45	U	1	0.45	5.00	ug/L	10/17/25 10:56	VN101725
107-06-2	1,2-Dichloroethane	0.50	U	1	0.50	5.00	ug/L	10/17/25 10:56	VN101725
79-01-6	Trichloroethene	0.49	U	1	0.49	5.00	ug/L	10/17/25 10:56	VN101725
78-87-5	1,2-Dichloropropane	0.46	U	1	0.46	5.00	ug/L	10/17/25 10:56	VN101725
75-27-4	Bromodichloromethane	0.64	U	1	0.64	5.00	ug/L	10/17/25 10:56	VN101725
108-88-3	Toluene	0.46	U	1	0.46	5.00	ug/L	10/17/25 10:56	VN101725
10061-02-6	t-1,3-Dichloropropene	0.72	U	1	0.72	5.00	ug/L	10/17/25 10:56	VN101725
10061-01-5	cis-1,3-Dichloropropene	0.67	U	1	0.67	5.00	ug/L	10/17/25 10:56	VN101725
79-00-5	1,1,2-Trichloroethane	0.45	U	1	0.45	5.00	ug/L	10/17/25 10:56	VN101725
110-75-8	2-Chloroethyl vinyl ether	4.60	U	1	4.60	25.0	ug/L	10/17/25 10:56	VN101725
124-48-1	Dibromochloromethane	0.66	U	1	0.66	5.00	ug/L	10/17/25 10:56	VN101725
127-18-4	Tetrachloroethene	0.84	U	1	0.84	5.00	ug/L	10/17/25 10:56	VN101725
108-90-7	Chlorobenzene	0.47	U	1	0.47	5.00	ug/L	10/17/25 10:56	VN101725
100-41-4	Ethyl Benzene	0.56	U	1	0.56	5.00	ug/L	10/17/25 10:56	VN101725
179601-23-1	m/p-Xylenes	1.30	U	1	1.30	10.0	ug/L	10/17/25 10:56	VN101725
95-47-6	o-Xylene	0.67	U	1	0.67	5.00	ug/L	10/17/25 10:56	VN101725
75-25-2	Bromoform	0.94	U	1	0.94	5.00	ug/L	10/17/25 10:56	VN101725
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	1	0.44	5.00	ug/L	10/17/25 10:56	VN101725
541-73-1	1,3-Dichlorobenzene	0.67	U	1	0.67	5.00	ug/L	10/17/25 10:56	VN101725
106-46-7	1,4-Dichlorobenzene	0.81	U	1	0.81	5.00	ug/L	10/17/25 10:56	VN101725
95-50-1	1,2-Dichlorobenzene	0.67	U	1	0.67	5.00	ug/L	10/17/25 10:56	VN101725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	32.4			91 - 110	108%	SPK: 30		
2037-26-5	Toluene-d8	31.5			91 - 112	105%	SPK: 30		
460-00-4	4-Bromofluorobenzene	28.4			63 - 112	95%	SPK: 30		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	56900							
540-36-3	1,4-Difluorobenzene	316000							
3114-55-4	Chlorobenzene-d5	275000							

Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN1017WBL01			SDG No.:	Q3385
Lab Sample ID:	VN1017WBL01			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088058.D
Acq On    : 17 Oct 2025  10:56
Operator  : JC\MD
Sample    : VN1017WBL01
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Oct 18 01:27:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title  : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration
```

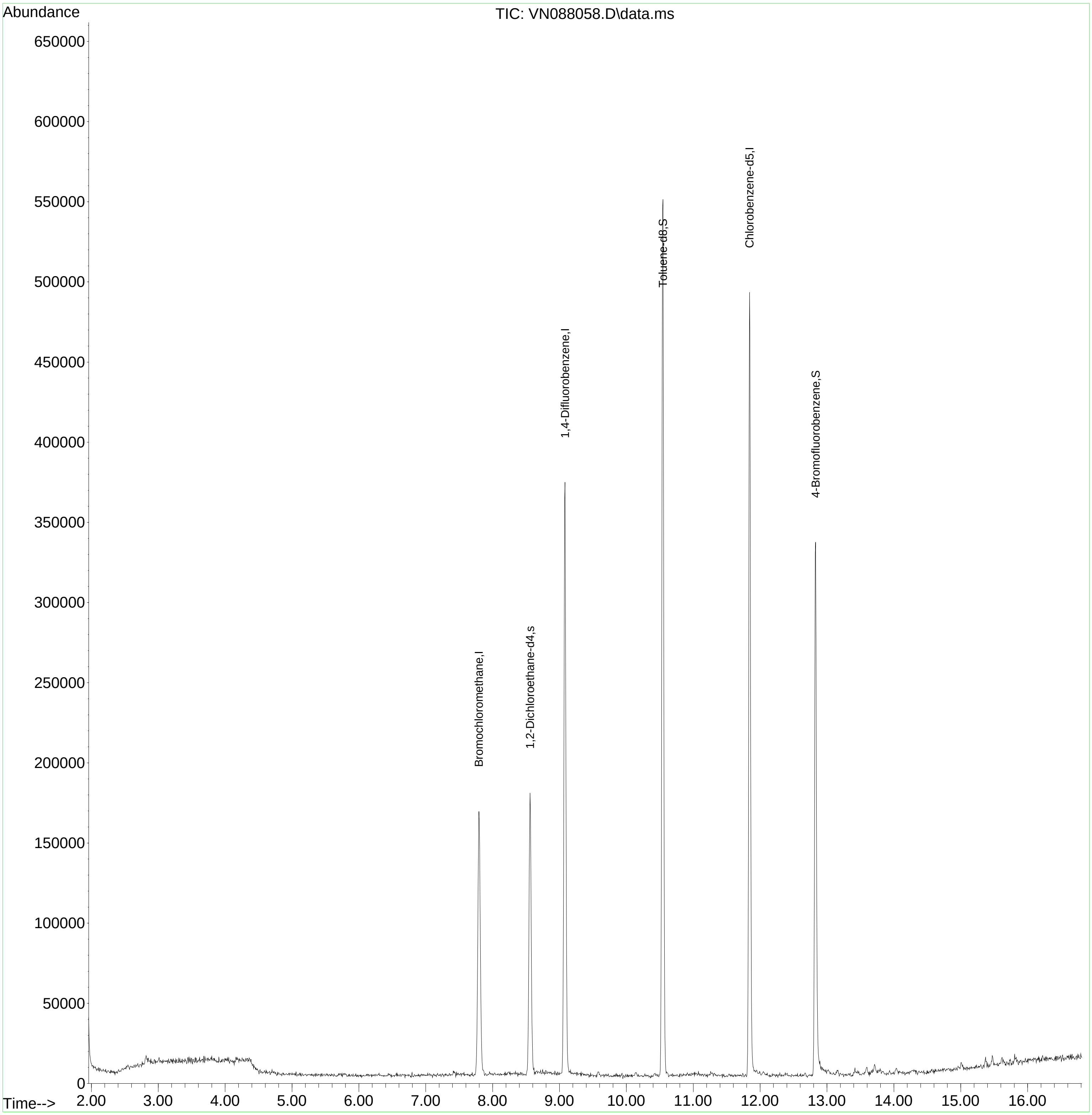
Instrument :
MSVOA_N
ClientSampleId :
VN1017WBL01

```
       Compound                   R.T. QIon  Response  Conc Units Dev(Min)
 -------------------------------------------------------------------------
 Internal Standards
   1) Bromochloromethane         7.794  128    56868    30.000 ug/l     0.00
  28) 1,4-Difluorobenzene        9.083  114   316193    30.000 ug/l     0.00
  57) Chlorobenzene-d5          11.841  117   274787    30.000 ug/l     0.00

 System Monitoring Compounds
  27) 1,2-Dichloroethane-d4      8.559   65   143302    32.361 ug/l    0.00
   Spiked Amount     30.000   Range  91 - 110    Recovery    =  107.867%
  60) 4-Bromofluorobenzene      12.829   95   128667    28.403 ug/l    0.00
   Spiked Amount     30.000   Range  63 - 112    Recovery    =   94.667%
  63) Toluene-d8                10.547   98   385579    31.494 ug/l    0.00
   Spiked Amount     30.000   Range  91 - 112    Recovery    =  104.967%

 Target Compounds                                                  Qvalue
 -------------------------------------------------------------------------

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

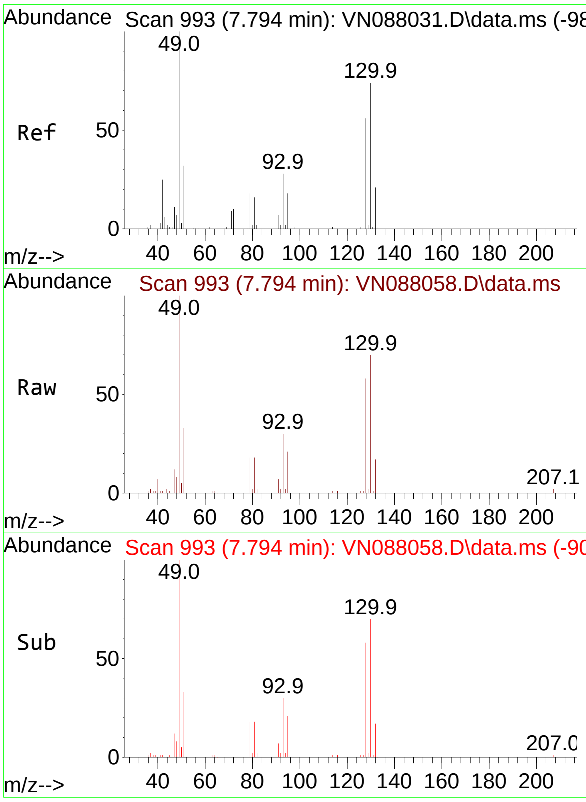
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088058.D
Acq On : 17 Oct 2025 10:56
Operator : JC\MD
Sample : VN1017WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBL01

Quant Time: Oct 18 01:27:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration



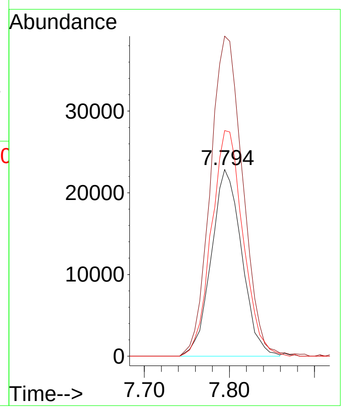
Instrument : MSVOA_N
ClientSampleId : VN1017WBL01

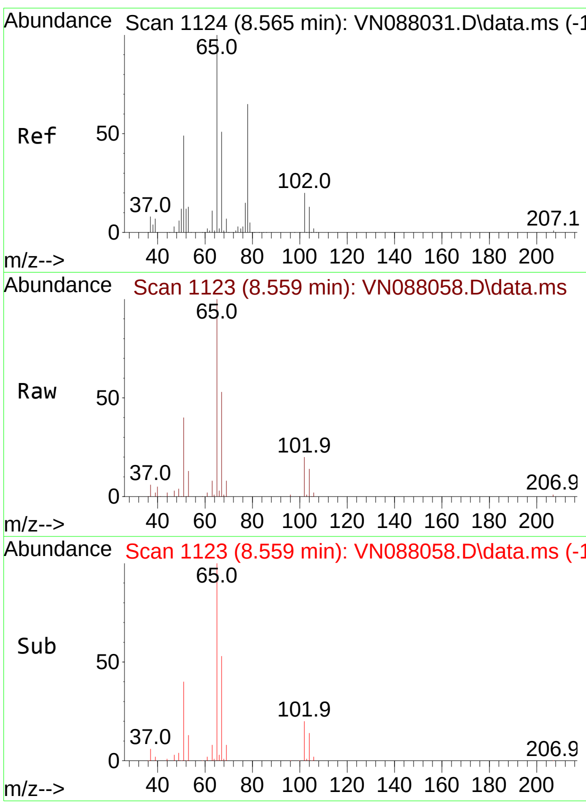


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088058.D
Acq: 17 Oct 2025 10:56

Tgt Ion:128 Resp: 56868

Ion	Ratio	Lower	Upper
128	100		
49	182.3	0.0	439.8
130	125.9	0.0	325.8

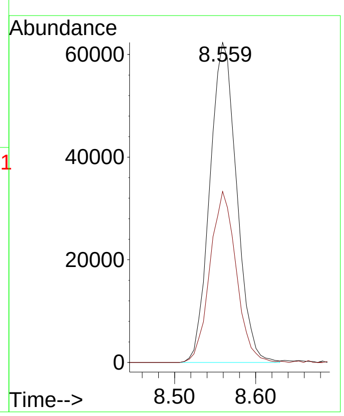




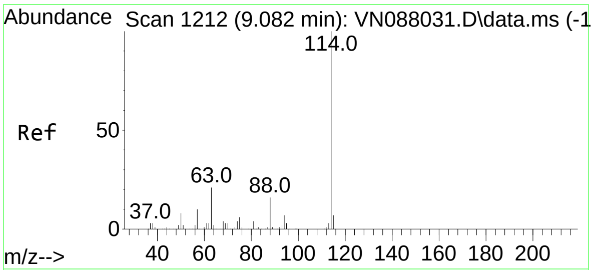
#27
1,2-Dichloroethane-d4
Concen: 32.361 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.006 min
Lab File: VN088058.D
Acq: 17 Oct 2025 10:56

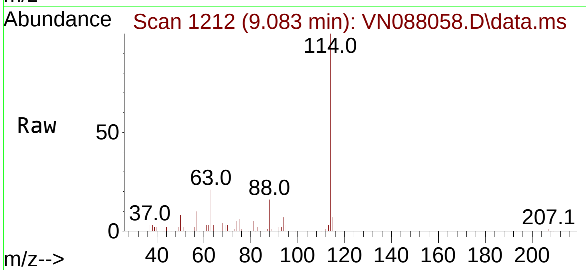
Tgt Ion: 65 Resp: 143302

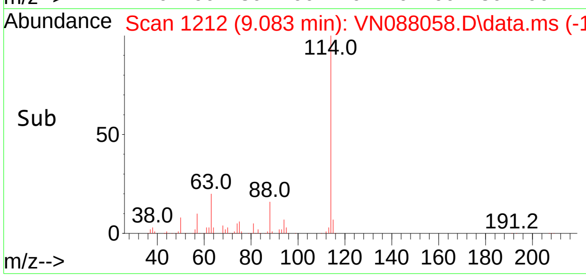
Ion	Ratio	Lower	Upper
65	100		
67	52.3	41.9	62.9



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBL01



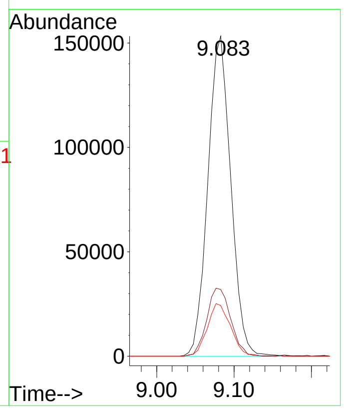


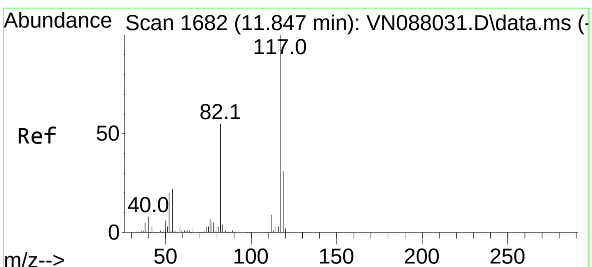


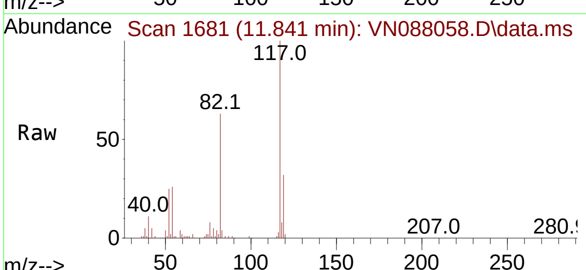
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088058.D
Acq: 17 Oct 2025 10:56

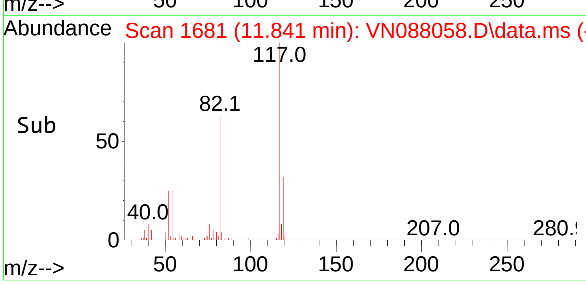
Tgt Ion:114 Resp: 316193

Ion	Ratio	Lower	Upper
114	100		
63	22.1	16.6	25.0
88	16.7	12.6	18.8





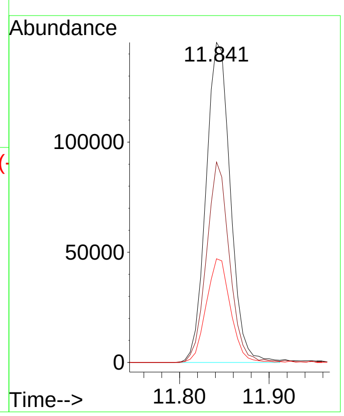




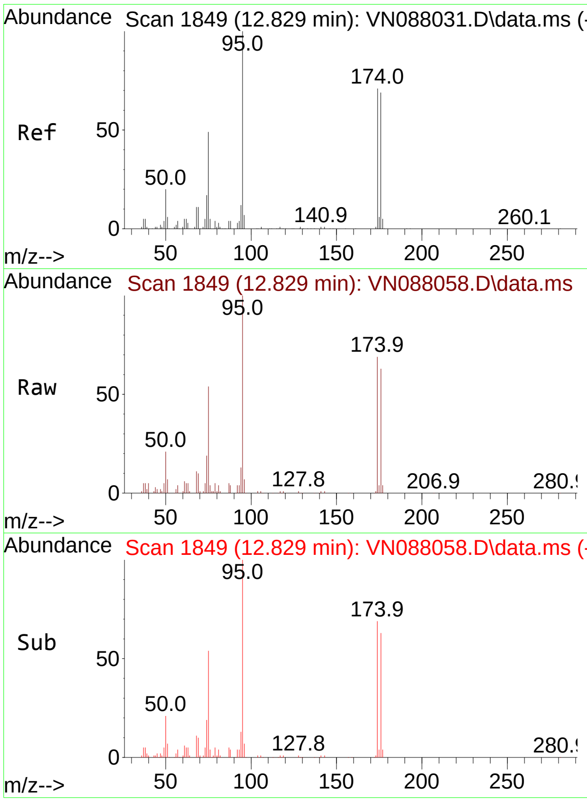
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088058.D
Acq: 17 Oct 2025 10:56

Tgt Ion:117 Resp: 274787

Ion	Ratio	Lower	Upper
117	100		
82	58.7	45.2	67.8
119	32.3	25.9	38.9



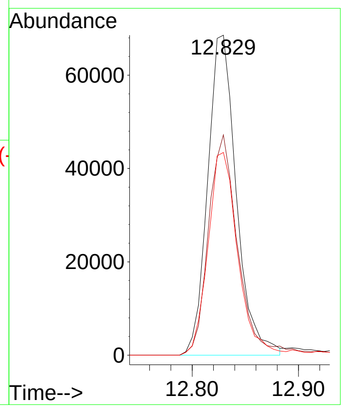
Instrument : MSVOA_N
ClientSampleId : VN1017WBL01

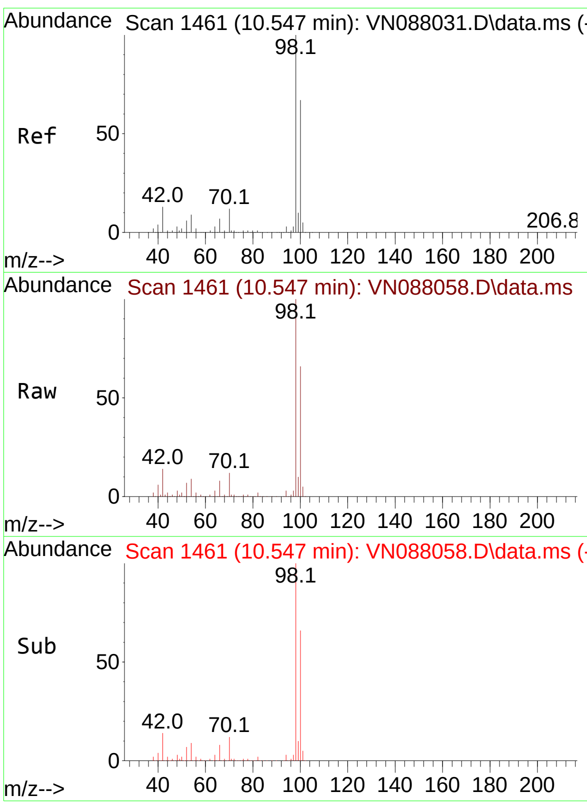


#60
4-Bromofluorobenzene
Concen: 28.403 ug/l
RT: 12.829 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088058.D
Acq: 17 Oct 2025 10:56

Tgt Ion: 95 Resp: 128667

Ion	Ratio	Lower	Upper
95	100		
174	68.7	57.4	86.0
176	65.5	57.0	85.4

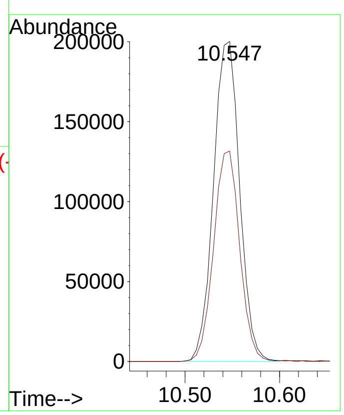




#63
Toluene-d8
Concen: 31.494 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088058.D
Acq: 17 Oct 2025 10:56

Tgt Ion: 98 Resp: 385579

Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.1	79.7



Raw Data: **VN088075.D**

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN1020WBL01			SDG No.:	Q3385
Lab Sample ID:	VN1020WBL01			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
74-87-3	Chloromethane	0.64	U	1	0.64	5.00	ug/L	10/20/25 10:55	VN102025
75-01-4	Vinyl Chloride	0.83	U	1	0.83	5.00	ug/L	10/20/25 10:55	VN102025
74-83-9	Bromomethane	0.80	U	1	0.80	5.00	ug/L	10/20/25 10:55	VN102025
75-00-3	Chloroethane	2.30	U	1	2.30	5.00	ug/L	10/20/25 10:55	VN102025
75-69-4	Trichlorofluoromethane	0.80	U	1	0.80	5.00	ug/L	10/20/25 10:55	VN102025
75-35-4	1,1-Dichloroethene	0.76	U	1	0.76	5.00	ug/L	10/20/25 10:55	VN102025
107-02-8	Acrolein	6.60	U	1	6.60	25.0	ug/L	10/20/25 10:55	VN102025
107-13-1	Acrylonitrile	2.80	U	1	2.80	25.0	ug/L	10/20/25 10:55	VN102025
75-09-2	Methylene Chloride	0.86	U	1	0.86	5.00	ug/L	10/20/25 10:55	VN102025
156-60-5	trans-1,2-Dichloroethene	0.82	U	1	0.82	5.00	ug/L	10/20/25 10:55	VN102025
75-34-3	1,1-Dichloroethane	0.68	U	1	0.68	5.00	ug/L	10/20/25 10:55	VN102025
56-23-5	Carbon Tetrachloride	0.74	U	1	0.74	5.00	ug/L	10/20/25 10:55	VN102025
67-66-3	Chloroform	0.55	U	1	0.55	5.00	ug/L	10/20/25 10:55	VN102025
71-55-6	1,1,1-Trichloroethane	0.63	U	1	0.63	5.00	ug/L	10/20/25 10:55	VN102025
71-43-2	Benzene	0.45	U	1	0.45	5.00	ug/L	10/20/25 10:55	VN102025
107-06-2	1,2-Dichloroethane	0.50	U	1	0.50	5.00	ug/L	10/20/25 10:55	VN102025
79-01-6	Trichloroethene	0.49	U	1	0.49	5.00	ug/L	10/20/25 10:55	VN102025
78-87-5	1,2-Dichloropropane	0.46	U	1	0.46	5.00	ug/L	10/20/25 10:55	VN102025
75-27-4	Bromodichloromethane	0.64	U	1	0.64	5.00	ug/L	10/20/25 10:55	VN102025
108-88-3	Toluene	0.46	U	1	0.46	5.00	ug/L	10/20/25 10:55	VN102025
10061-02-6	t-1,3-Dichloropropene	0.72	U	1	0.72	5.00	ug/L	10/20/25 10:55	VN102025
10061-01-5	cis-1,3-Dichloropropene	0.67	U	1	0.67	5.00	ug/L	10/20/25 10:55	VN102025
79-00-5	1,1,2-Trichloroethane	0.45	U	1	0.45	5.00	ug/L	10/20/25 10:55	VN102025
110-75-8	2-Chloroethyl vinyl ether	4.60	U	1	4.60	25.0	ug/L	10/20/25 10:55	VN102025
124-48-1	Dibromochloromethane	0.66	U	1	0.66	5.00	ug/L	10/20/25 10:55	VN102025
127-18-4	Tetrachloroethene	0.84	U	1	0.84	5.00	ug/L	10/20/25 10:55	VN102025
108-90-7	Chlorobenzene	0.47	U	1	0.47	5.00	ug/L	10/20/25 10:55	VN102025
100-41-4	Ethyl Benzene	0.56	U	1	0.56	5.00	ug/L	10/20/25 10:55	VN102025
179601-23-1	m/p-Xylenes	1.30	U	1	1.30	10.0	ug/L	10/20/25 10:55	VN102025
95-47-6	o-Xylene	0.67	U	1	0.67	5.00	ug/L	10/20/25 10:55	VN102025
75-25-2	Bromoform	0.94	U	1	0.94	5.00	ug/L	10/20/25 10:55	VN102025
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	1	0.44	5.00	ug/L	10/20/25 10:55	VN102025
541-73-1	1,3-Dichlorobenzene	0.67	U	1	0.67	5.00	ug/L	10/20/25 10:55	VN102025
106-46-7	1,4-Dichlorobenzene	0.81	U	1	0.81	5.00	ug/L	10/20/25 10:55	VN102025
95-50-1	1,2-Dichlorobenzene	0.67	U	1	0.67	5.00	ug/L	10/20/25 10:55	VN102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	32.6			91 - 110	108%	SPK: 30		
2037-26-5	Toluene-d8	30.7			91 - 112	102%	SPK: 30		
460-00-4	4-Bromofluorobenzene	28.4			63 - 112	95%	SPK: 30		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	56100							
540-36-3	1,4-Difluorobenzene	303000							
3114-55-4	Chlorobenzene-d5	267000							

Raw Data: **VN088075.D**

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN1020WBL01			SDG No.:	Q3385
Lab Sample ID:	VN1020WBL01			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088075.D
Acq On : 20 Oct 2025 10:55
Operator : JC\MD
Sample : VN1020WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBL01

Quant Time: Oct 21 05:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	56116	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	302542	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	267258	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	142234	32.550	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.500%			
60) 4-Bromofluorobenzene	12.829	95	125221	28.421	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.733%			
63) Toluene-d8	10.541	98	366105	30.746	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.500%			

Target Compounds Qvalue

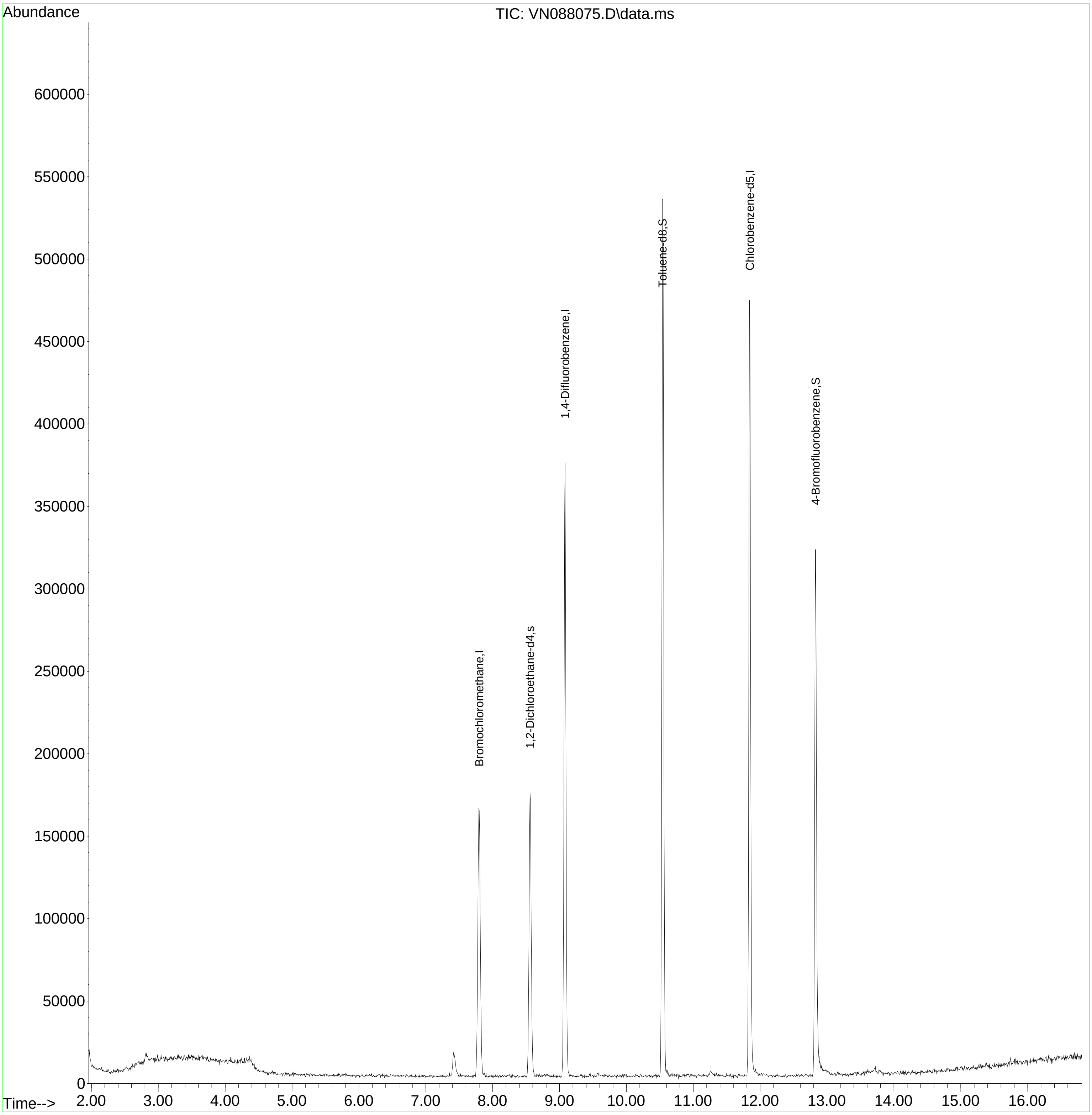
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

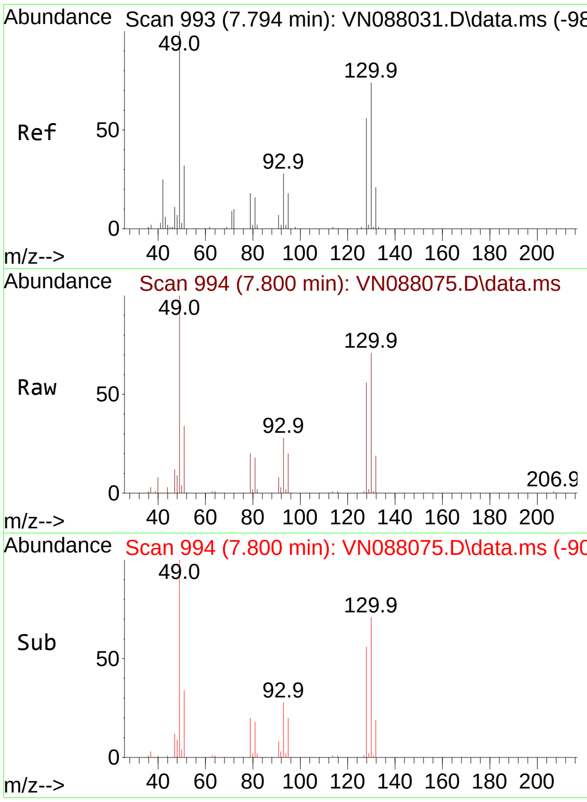
Sample Results: **VN088075.D**

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088075.D
Acq On    : 20 Oct 2025  10:55
Operator  : JC\MD
Sample    : VN1020WBL01
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Oct 21 05:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title  : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBL01



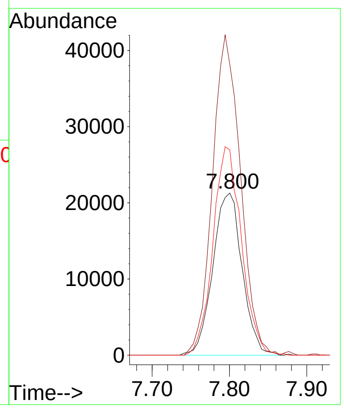
Instrument : MSVOA_N
ClientSampleId : VN1020WBL01

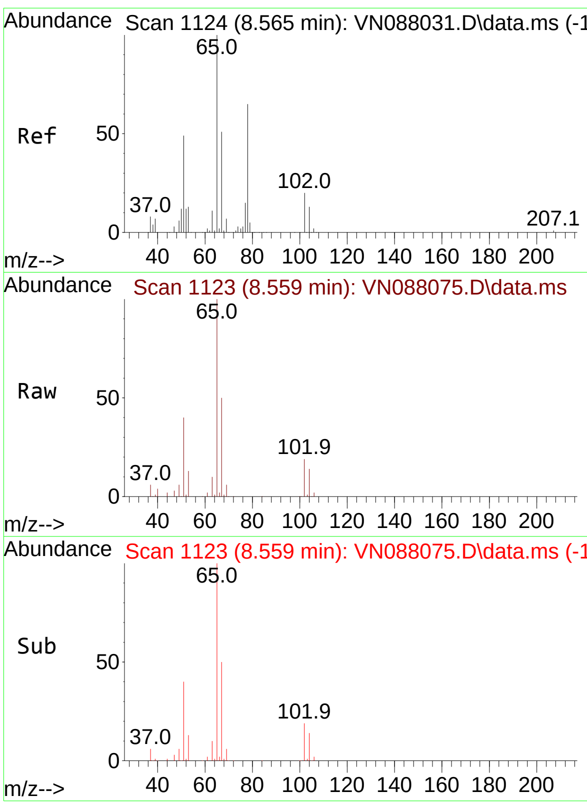


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

Tgt Ion:128 Resp: 56116

Ion	Ratio	Lower	Upper
128	100		
49	189.1	0.0	439.8
130	125.0	0.0	325.8

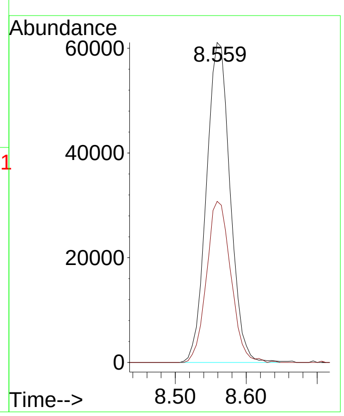




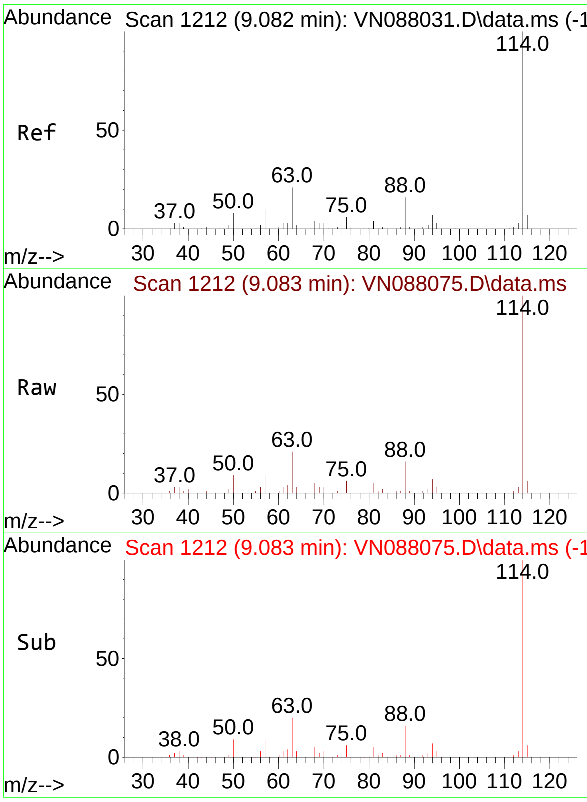
#27
1,2-Dichloroethane-d4
Concen: 32.550 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.006 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

Tgt Ion: 65 Resp: 142234

Ion	Ratio	Lower	Upper
65	100		
67	51.4	41.9	62.9



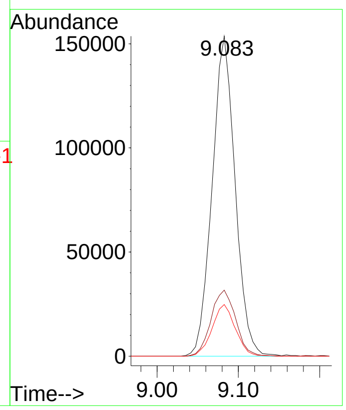
Instrument :
MSVOA_N
ClientSampleId :
VN1020WBL01

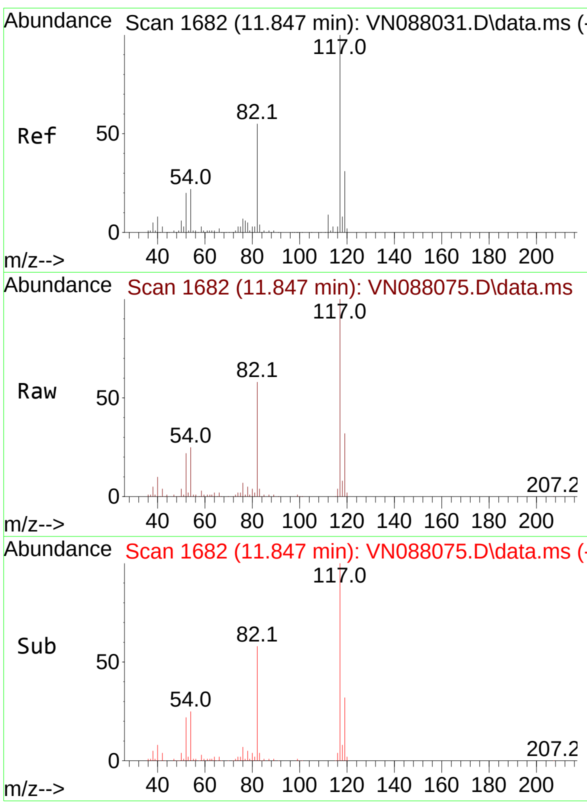


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

Tgt Ion:114 Resp: 302542

Ion	Ratio	Lower	Upper
114	100		
63	22.1	16.6	25.0
88	16.3	12.6	18.8

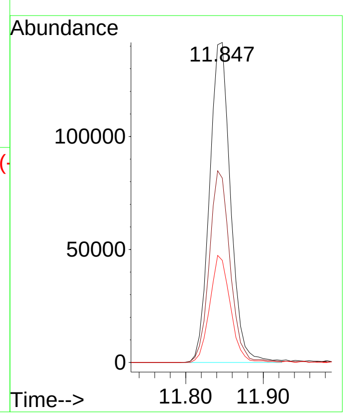




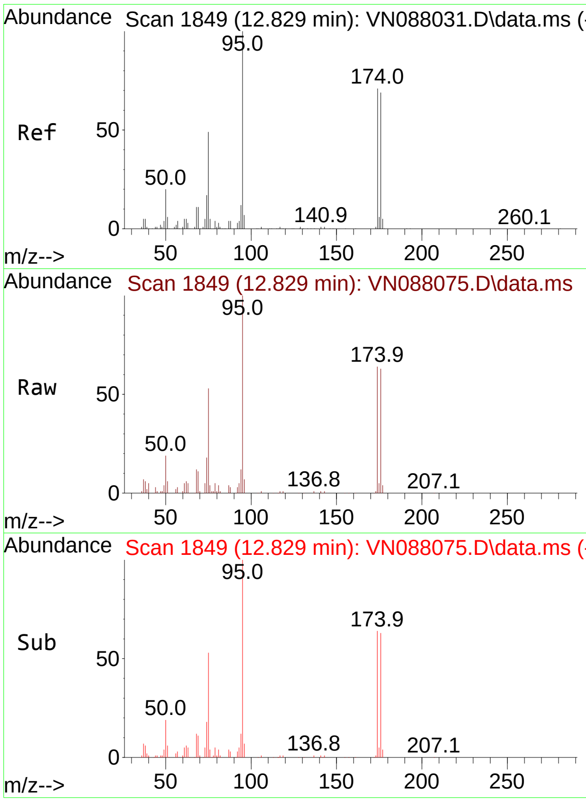
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

Tgt Ion:117 Resp: 267258

Ion	Ratio	Lower	Upper
117	100		
82	58.3	45.2	67.8
119	32.3	25.9	38.9



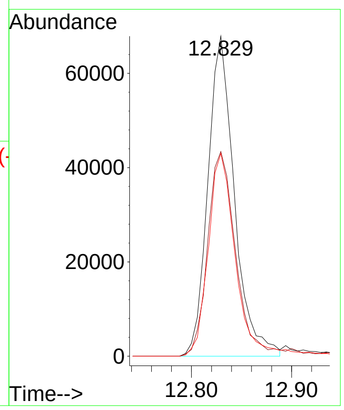
Instrument :
MSVOA_N
ClientSampleId :
VN1020WBL01

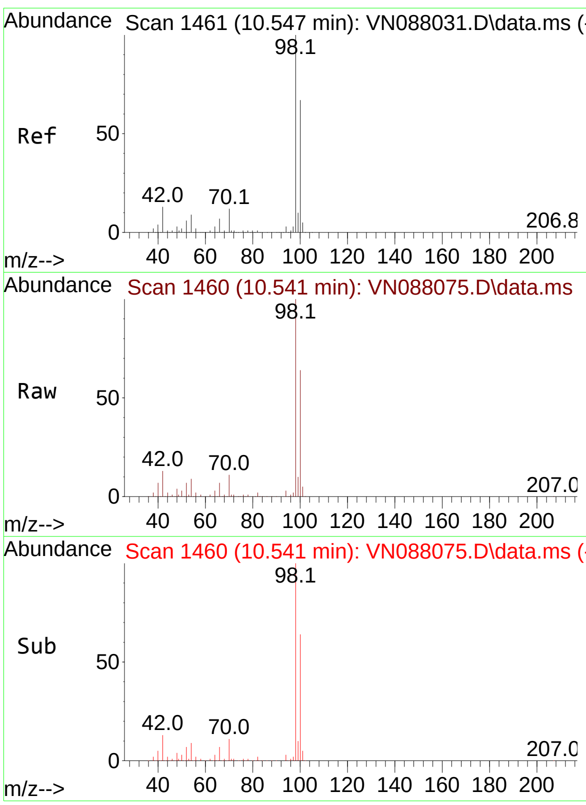


#60
4-Bromofluorobenzene
Concen: 28.421 ug/l
RT: 12.829 min   Scan# 1
Delta R.T.   0.000 min
Lab File: VN088075.D
Acq: 20 Oct 2025   10:55

Tgt Ion: 95 Resp: 125221

Ion	Ratio	Lower	Upper
95	100		
174	66.2	57.4	86.0
176	64.9	57.0	85.4

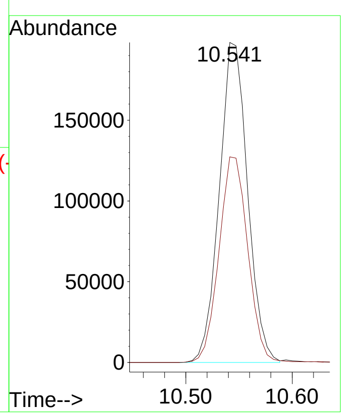




#63
Toluene-d8
Concen: 30.746 ug/l
RT: 10.541 min   Scan# 1460
Delta R.T.   -0.006 min
Lab File: VN088075.D
Acq: 20 Oct 2025   10:55

Tgt Ion: 98 Resp: 366105

Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.1	79.7



Raw Data: **VN088056.D**

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN1017WBS01			SDG No.:	Q3385
Lab Sample ID:	VN1017WBS01			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
74-87-3	Chloromethane	19.1		1	0.64	5.00	ug/L	10/17/25 10:03	VN101725
75-01-4	Vinyl Chloride	20.2		1	0.83	5.00	ug/L	10/17/25 10:03	VN101725
74-83-9	Bromomethane	20.5		1	0.80	5.00	ug/L	10/17/25 10:03	VN101725
75-00-3	Chloroethane	18.9		1	2.30	5.00	ug/L	10/17/25 10:03	VN101725
75-69-4	Trichlorofluoromethane	21.1		1	0.80	5.00	ug/L	10/17/25 10:03	VN101725
75-35-4	1,1-Dichloroethene	20.3		1	0.76	5.00	ug/L	10/17/25 10:03	VN101725
107-02-8	Acrolein	84.0		1	6.60	25.0	ug/L	10/17/25 10:03	VN101725
107-13-1	Acrylonitrile	91.3		1	2.80	25.0	ug/L	10/17/25 10:03	VN101725
75-09-2	Methylene Chloride	19.1		1	0.86	5.00	ug/L	10/17/25 10:03	VN101725
156-60-5	trans-1,2-Dichloroethene	18.9		1	0.82	5.00	ug/L	10/17/25 10:03	VN101725
75-34-3	1,1-Dichloroethane	20.1		1	0.68	5.00	ug/L	10/17/25 10:03	VN101725
56-23-5	Carbon Tetrachloride	20.2		1	0.74	5.00	ug/L	10/17/25 10:03	VN101725
67-66-3	Chloroform	19.5		1	0.55	5.00	ug/L	10/17/25 10:03	VN101725
71-55-6	1,1,1-Trichloroethane	20.0		1	0.63	5.00	ug/L	10/17/25 10:03	VN101725
71-43-2	Benzene	19.2		1	0.45	5.00	ug/L	10/17/25 10:03	VN101725
107-06-2	1,2-Dichloroethane	19.8		1	0.50	5.00	ug/L	10/17/25 10:03	VN101725
79-01-6	Trichloroethene	18.3		1	0.49	5.00	ug/L	10/17/25 10:03	VN101725
78-87-5	1,2-Dichloropropane	19.2		1	0.46	5.00	ug/L	10/17/25 10:03	VN101725
75-27-4	Bromodichloromethane	19.4		1	0.64	5.00	ug/L	10/17/25 10:03	VN101725
108-88-3	Toluene	19.1		1	0.46	5.00	ug/L	10/17/25 10:03	VN101725
10061-02-6	t-1,3-Dichloropropene	18.9		1	0.72	5.00	ug/L	10/17/25 10:03	VN101725
10061-01-5	cis-1,3-Dichloropropene	18.7		1	0.67	5.00	ug/L	10/17/25 10:03	VN101725
79-00-5	1,1,2-Trichloroethane	18.9		1	0.45	5.00	ug/L	10/17/25 10:03	VN101725
110-75-8	2-Chloroethyl vinyl ether	80.5		1	4.60	25.0	ug/L	10/17/25 10:03	VN101725
124-48-1	Dibromochloromethane	18.3		1	0.66	5.00	ug/L	10/17/25 10:03	VN101725
127-18-4	Tetrachloroethene	18.2		1	0.84	5.00	ug/L	10/17/25 10:03	VN101725
108-90-7	Chlorobenzene	19.0		1	0.47	5.00	ug/L	10/17/25 10:03	VN101725
100-41-4	Ethyl Benzene	19.5		1	0.56	5.00	ug/L	10/17/25 10:03	VN101725
179601-23-1	m/p-Xylenes	38.8		1	1.30	10.0	ug/L	10/17/25 10:03	VN101725
95-47-6	o-Xylene	18.7		1	0.67	5.00	ug/L	10/17/25 10:03	VN101725
75-25-2	Bromoform	17.1		1	0.94	5.00	ug/L	10/17/25 10:03	VN101725
79-34-5	1,1,2,2-Tetrachloroethane	18.4		1	0.44	5.00	ug/L	10/17/25 10:03	VN101725
541-73-1	1,3-Dichlorobenzene	19.0		1	0.67	5.00	ug/L	10/17/25 10:03	VN101725
106-46-7	1,4-Dichlorobenzene	18.3		1	0.81	5.00	ug/L	10/17/25 10:03	VN101725
95-50-1	1,2-Dichlorobenzene	18.6		1	0.67	5.00	ug/L	10/17/25 10:03	VN101725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	32.0			91 - 110	107%	SPK: 30		
2037-26-5	Toluene-d8	30.9			91 - 112	103%	SPK: 30		
460-00-4	4-Bromofluorobenzene	29.9			63 - 112	100%	SPK: 30		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	61000							
540-36-3	1,4-Difluorobenzene	346000							
3114-55-4	Chlorobenzene-d5	304000							

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

Report of Analysis

Client:	Ardmore Chemical	Date Collected:	
Project:	PVSC Monthly 2025	Date Received:	
Client Sample ID:	VN1017WBS01	SDG No.:	Q3385
Lab Sample ID:	VN1017WBS01	Matrix:	Water
Analytical Method:	E624.1 Level : LOW	% Solid:	0
Sample Wt/Vol:	5 mL Final Vol: 5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088056.D
Acq On : 17 Oct 2025 10:03
Operator : JC\MD
Sample : VN1017WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

Quant Time: Oct 18 01:25:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	61010	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	345518	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	303706	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	152177	32.032	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.767%			
60) 4-Bromofluorobenzene	12.829	95	149905	29.941	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.800%			
63) Toluene-d8	10.547	98	417441	30.850	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.833%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	72648	20.789	ug/l	95
3) Chloromethane	2.383	50	75767	19.124	ug/l	99
4) Vinyl Chloride	2.536	62	83370	20.182	ug/l	98
5) Bromomethane	2.983	94	45431	20.452	ug/l	100
6) Chloroethane	3.142	64	51413	18.867	ug/l	92
7) Trichlorofluoromethane	3.518	101	118779	21.144	ug/l	91
8) Diethyl Ether	3.959	74	48062	18.935	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	62809	20.887	ug/l	96
10) 1,1-Dichloroethene	4.342	96	65077	20.287	ug/l	100
11) Methyl Iodide	4.577	142	49007	16.576	ug/l	93
12) Methyl Acetate	5.012	43	103928	19.929	ug/l #	86
13) Acrolein	4.171	56	67768	83.974	ug/l #	1
14) Acrylonitrile	5.706	53	229850	91.332	ug/l	100
15) Acetone	4.424	58	70716	95.949	ug/l	89
16) Carbon Disulfide	4.700	76	195019	19.393	ug/l	97
17) Allyl chloride	5.012	41	111908	18.488	ug/l	95
18) Methylene Chloride	5.265	84	77740	19.067	ug/l	98
19) trans-1,2-Dichloroethene	5.777	96	70214	18.932	ug/l #	84
20) Diisopropyl ether	6.659	45	267547	19.415	ug/l	98
21) 1,1-Dichloroethane	6.553	63	144256	20.108	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	89762	19.334	ug/l	98
23) tert-Butyl Alcohol	5.512	59	86498	85.698	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	260817	18.837	ug/l	97
25) Chloroform	7.947	83	144250	19.485	ug/l	92
26) Cyclohexane	8.241	56	119448	20.096	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	102232	20.642	ug/l	95
30) 2-Butanone	7.471	43	337926	92.513	ug/l	97
31) 2,2-Dichloropropane	7.471	77	126022	19.748	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	124024	20.041	ug/l	98
33) Carbon Tetrachloride	8.341	117	104455	20.151	ug/l	96
34) Benzene	8.588	78	314619	19.152	ug/l	99
35) Methacrylonitrile	7.759	41	69646	18.132	ug/l	93
36) 1,2-Dichloroethane	8.653	62	112994	19.813	ug/l	97
37) Trichloroethene	9.335	130	71200	18.294	ug/l	98
38) Methylcyclohexane	9.582	83	121344	19.840	ug/l	98
39) 1,2-Dichloropropane	9.600	63	79149	19.215	ug/l	99
40) Dibromomethane	9.688	93	56354	18.795	ug/l	93
41) Bromodichloromethane	9.871	83	118647	19.375	ug/l	97
42) Vinyl Acetate	6.589	43	1209453m	97.194	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088056.D
Acq On : 17 Oct 2025 10:03
Operator : JC\MD
Sample : VN1017WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

Quant Time: Oct 18 01:25:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.547	43	133195	18.969 ug/l	99
44) Isopropyl Acetate	8.671	43	210930	18.392 ug/l	98
45) 1,4-Dioxane	9.682	88	24886	326.268 ug/l #	93
46) Methyl methacrylate	9.665	41	94043	18.621 ug/l	95
47) n-amyl Acetate	12.570	43	114884m	21.135 ug/l	
48) t-1,3-Dichloropropene	10.812	75	128661	18.895 ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	132631	18.672 ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	74875	18.857 ug/l	99
51) Ethyl methacrylate	10.853	69	122268	18.195 ug/l	93
52) 1,3-Dichloropropane	11.141	76	131711	19.013 ug/l	99
53) Dibromochloromethane	11.335	129	86723	18.269 ug/l	99
54) 1,2-Dibromoethane	11.447	107	76220	17.955 ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	292020	80.508 ug/l	99
56) Bromoform	12.559	173	55031	17.148 ug/l	97
58) 4-Methyl-2-Pentanone	10.424	43	635098	93.491 ug/l	98
59) 2-Hexanone	11.176	43	414833	92.491 ug/l	99
61) Tetrachloroethene	11.082	164	55966	18.197 ug/l	87
62) Toluene	10.606	91	329738	19.140 ug/l	99
64) Chlorobenzene	11.871	112	209138	19.006 ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.935	131	71463	18.846 ug/l	98
66) Ethyl Benzene	11.941	91	365743	19.525 ug/l	98
67) m/p-Xylenes	12.047	106	279849	38.752 ug/l	97
68) o-Xylene	12.376	106	134497	18.709 ug/l	94
69) Styrene	12.388	104	225528	18.965 ug/l	98
70) Isopropylbenzene	12.670	105	346221	19.650 ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.918	83	110122	18.435 ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	107460m	19.370 ug/l	
73) Bromobenzene	12.959	156	77370	17.966 ug/l	92
74) n-propylbenzene	13.012	91	421634	19.823 ug/l	98
75) 2-Chlorotoluene	13.100	91	252126	19.386 ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	282658	18.886 ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	35729	16.161 ug/l	93
78) 4-Chlorotoluene	13.200	91	260161	19.690 ug/l	96
79) tert-butylbenzene	13.412	119	259100	19.970 ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	288836	19.278 ug/l	98
81) sec-Butylbenzene	13.594	105	372393	20.414 ug/l	98
82) p-Isopropyltoluene	13.706	119	308796	19.827 ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	153956	19.001 ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	152875	18.295 ug/l	97
85) n-Butylbenzene	14.035	91	295097	20.366 ug/l	97
86) Hexachloroethane	14.312	117	61862	19.828 ug/l	88
87) 1,2-Dichlorobenzene	14.082	146	148440	18.626 ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	25015	18.234 ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	81108	17.086 ug/l	95
90) Hexachlorobutadiene	15.470	225	30801	18.643 ug/l	99
91) Naphthalene	15.611	128	309666	17.818 ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	81108	17.086 ug/l	95

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

Quantitation Report (QT Reviewed)

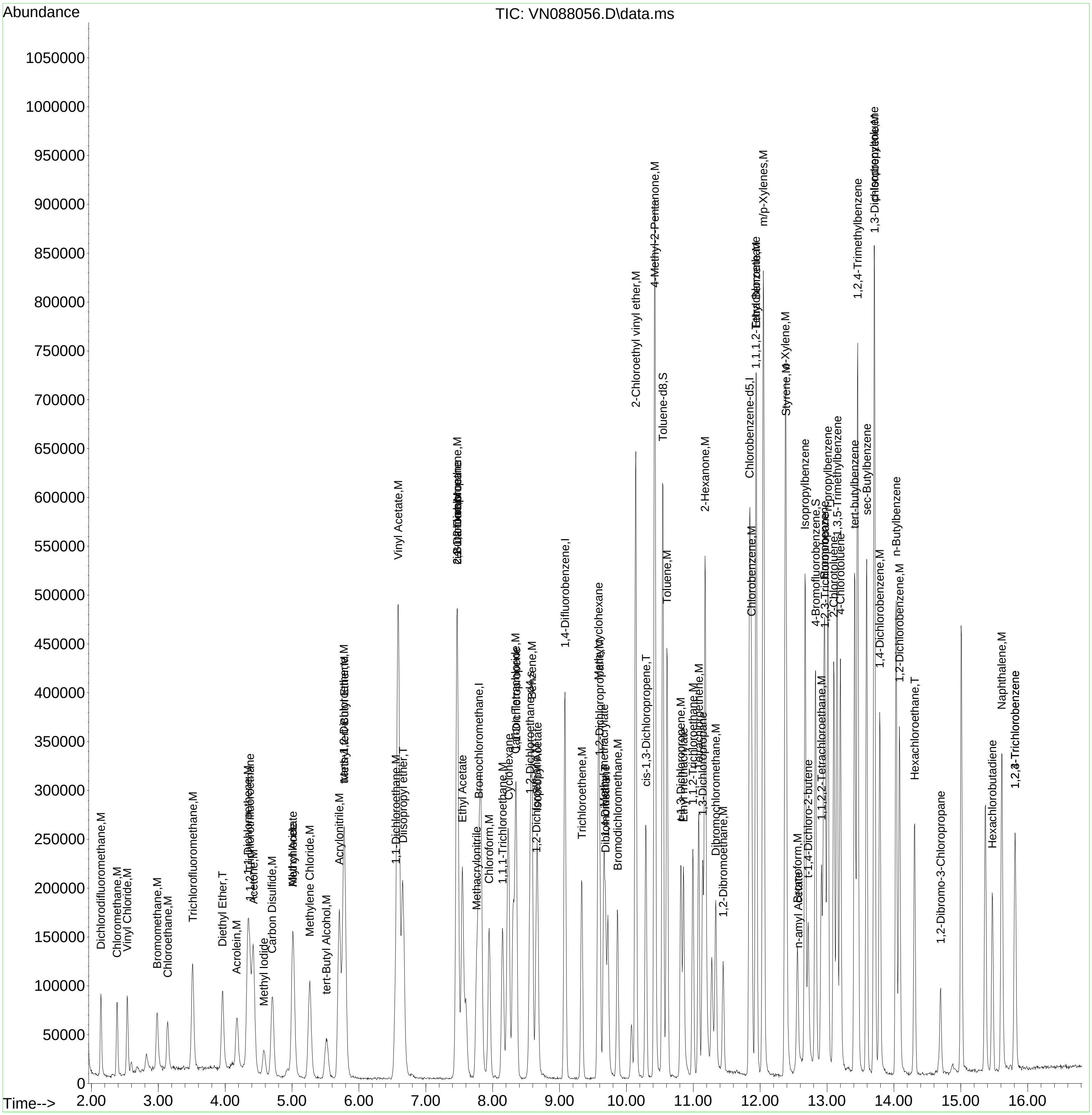
Sample Results: **VN088056.D**

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088056.D
Acq On    : 17 Oct 2025  10:03
Operator  : JC\MD
Sample    : VN1017WBS01
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Oct 18 01:25:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title  : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

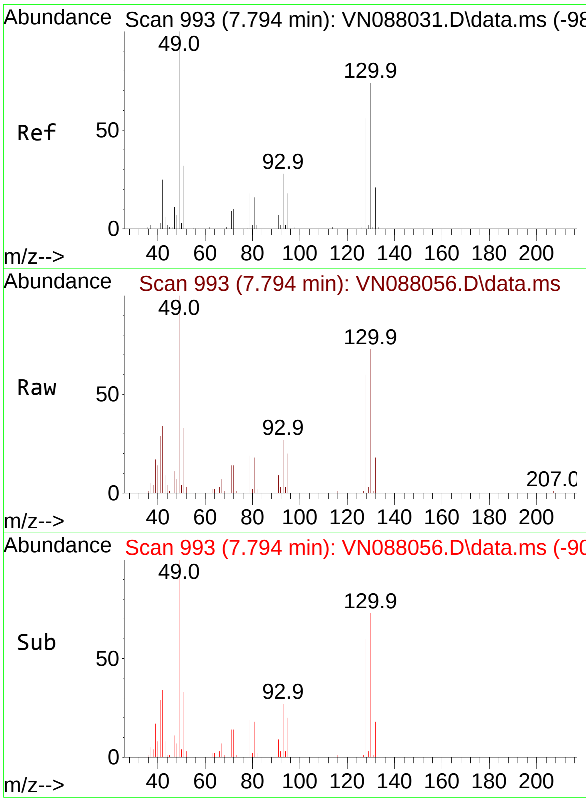


Sample Results: **VN088056.D**

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations
APPROVED

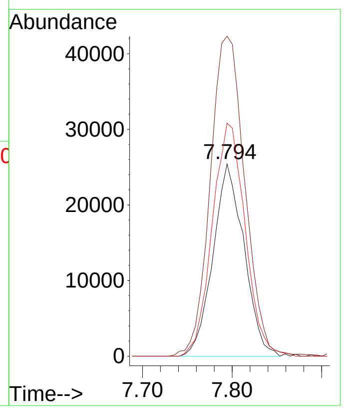
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

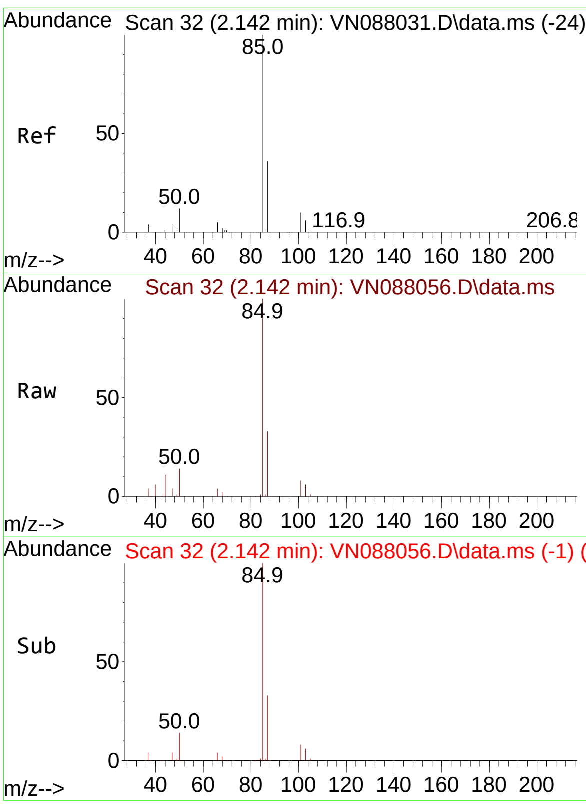


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:128 Resp: 6101

Ion	Ratio	Lower	Upper
128	100		
49	185.7	0.0	439.8
130	129.1	0.0	325.8

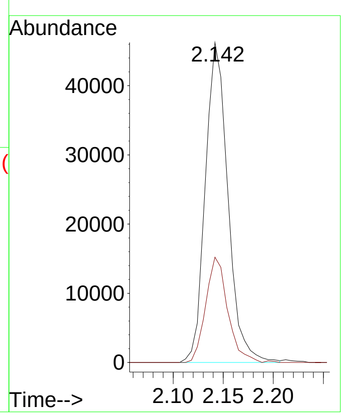


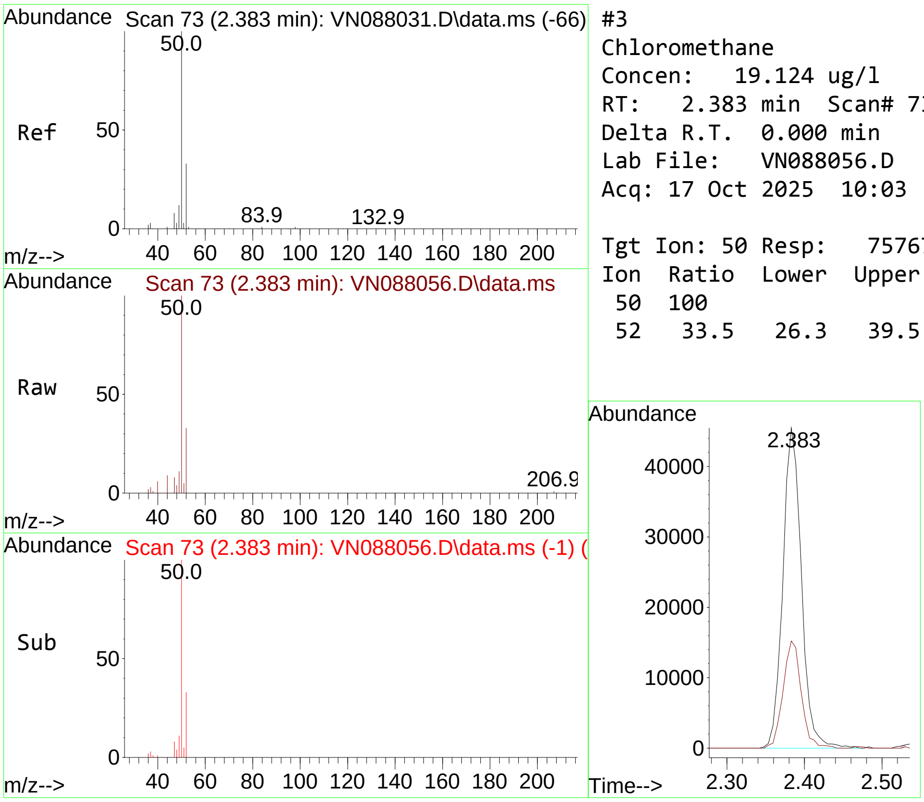


#2
Dichlorodifluoromethane
Concen: 20.789 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 85 Resp: 72648

Ion	Ratio	Lower	Upper
85	100		
87	32.9	17.9	53.8





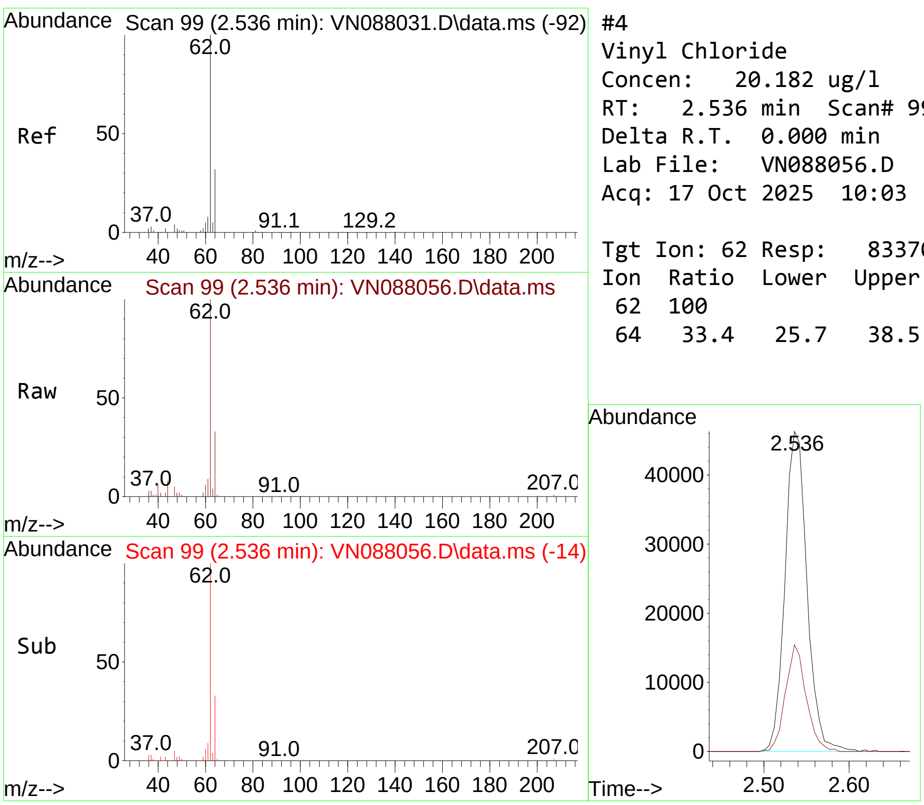
#3
Chloromethane
Concen: 19.124 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 50 Resp: 7576

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.3	39.5

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

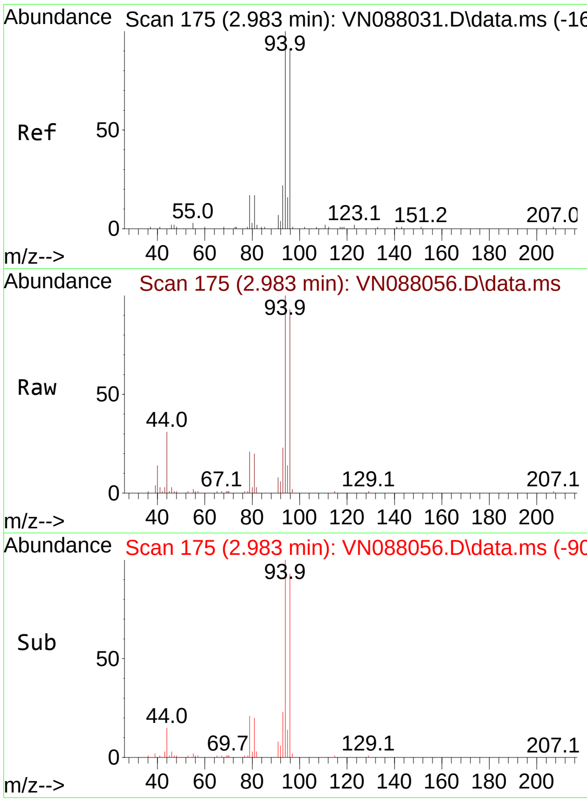
Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#4
Vinyl Chloride
Concen: 20.182 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 62 Resp: 83370

Ion	Ratio	Lower	Upper
62.0	100		
64	33.4	25.7	38.5



#5
Bromomethane
Concen: 20.452 ug/l
RT: 2.983 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

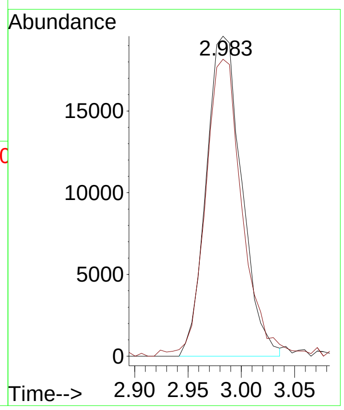
Tgt Ion: 94 Resp: 4543

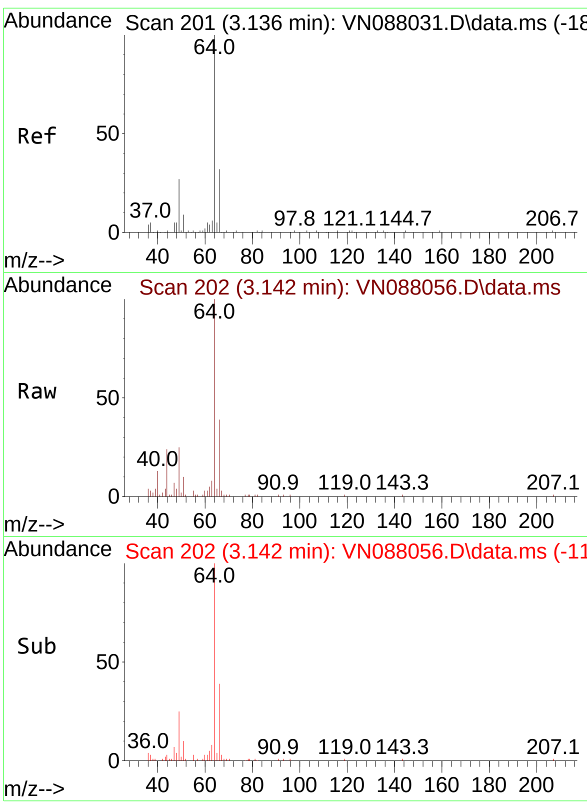
Ion	Ratio	Lower	Upper
94	100		
96	90.7	73.0	109.4

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

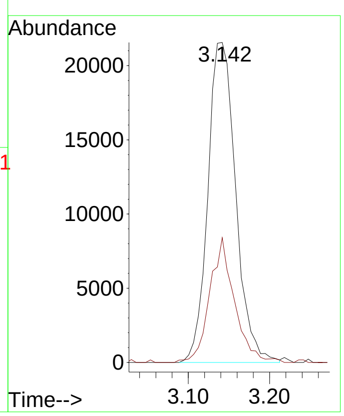


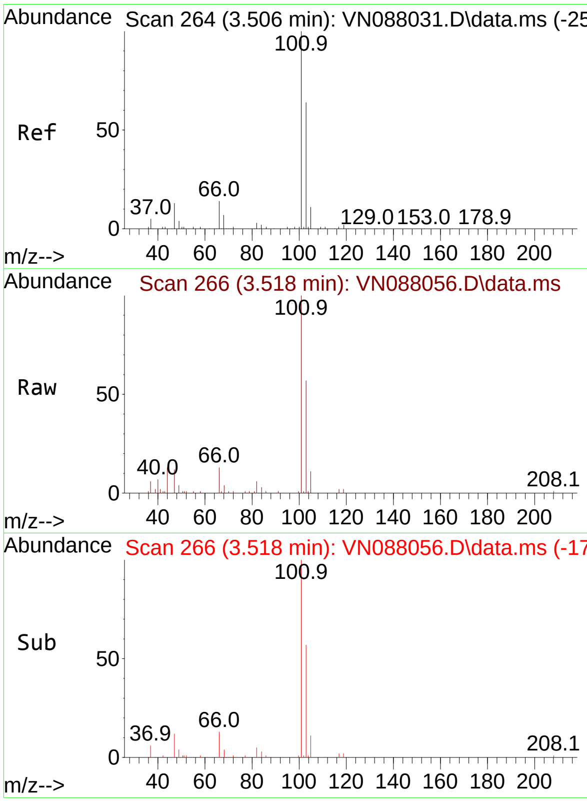


#6
Chloroethane
Concen: 18.867 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 64 Resp: 51413

Ion	Ratio	Lower	Upper
64	100		
66	38.3	26.8	40.2





#7
Trichlorofluoromethane
Concen: 21.144 ug/l
RT: 3.518 min Scan# 2
Delta R.T. 0.012 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

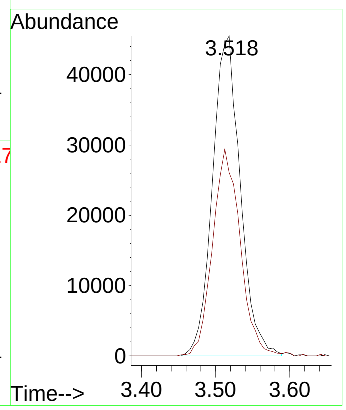
Tgt Ion:101 Resp: 11877

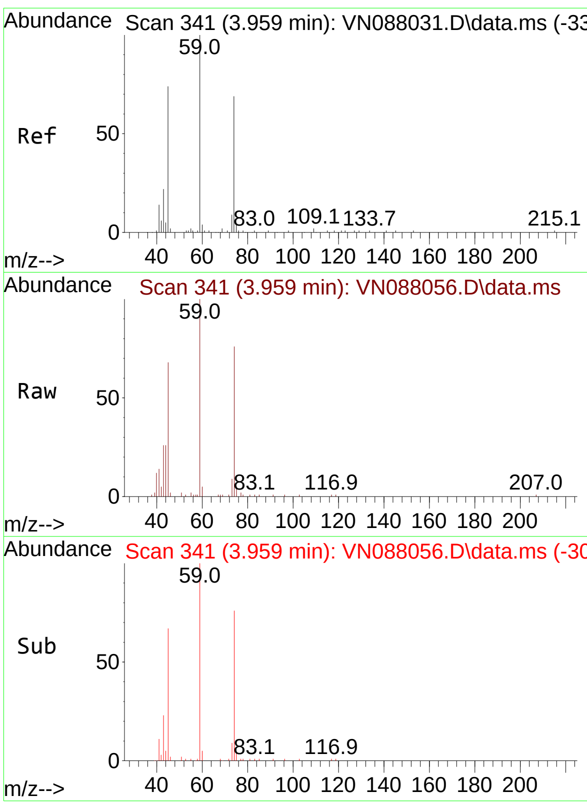
Ion	Ratio	Lower	Upper
101	100		
103	56.9	51.0	76.4

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

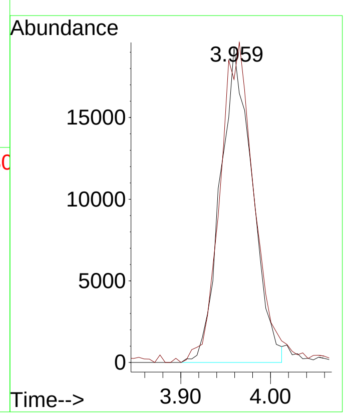


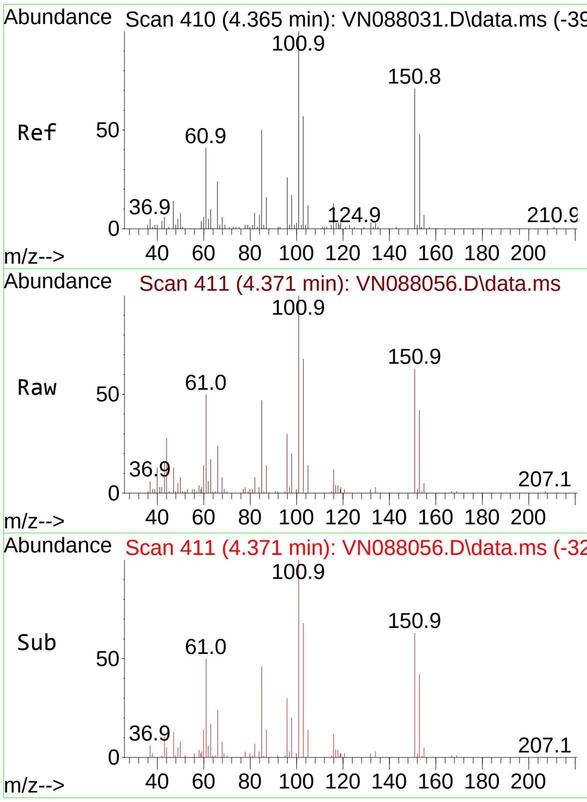


#8
Diethyl Ether
Concen: 18.935 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 74 Resp: 48062

Ion	Ratio	Lower	Upper
74	100		
45	104.0	20.4	183.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.887 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Tgt Ion:101 Resp: 6280

Ion	Ratio	Lower	Upper
101	100		
85	47.3	0.0	103.2
151	69.3	0.0	141.4

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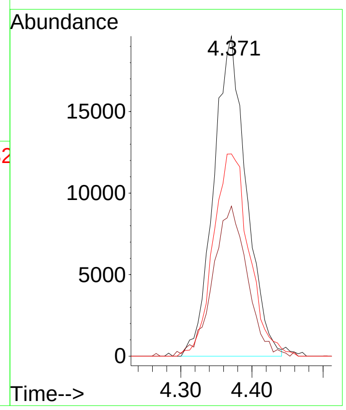
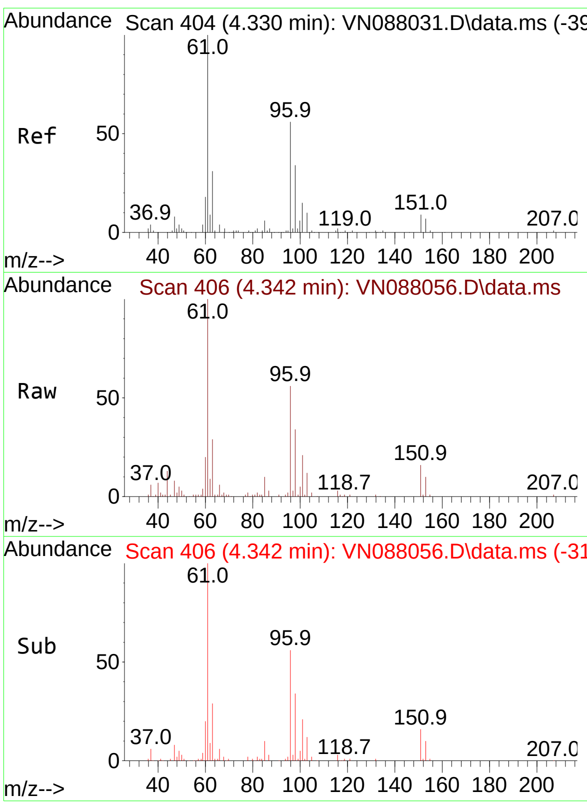
Supervised By :Mahesh Dadoda 10/20/2025

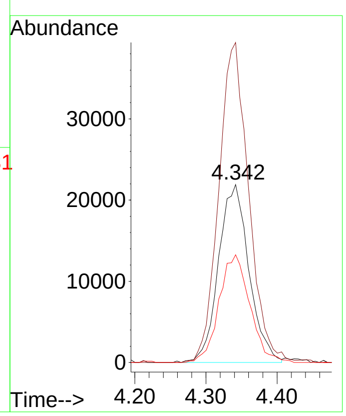


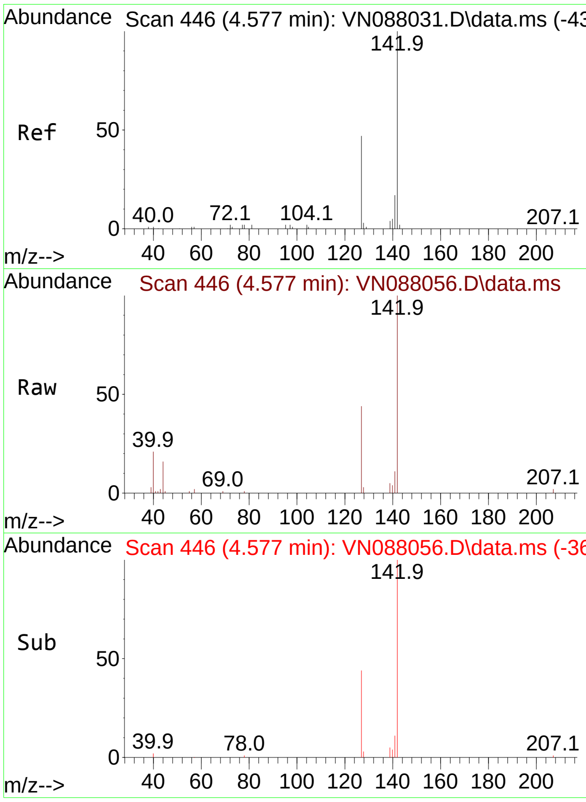


#10
1,1-Dichloroethene
Concen: 20.287 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.012 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 96 Resp: 65077

Ion	Ratio	Lower	Upper
96	100		
61	179.8	144.1	216.1
98	60.5	49.0	73.6





#11
Methyl Iodide
Concen: 16.576 ug/l
RT: 4.577 min Scan# 44
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:142 Resp: 4900

Ion	Ratio	Lower	Upper
142	100		
127	44.4	23.4	70.3
141	10.8	8.8	26.2

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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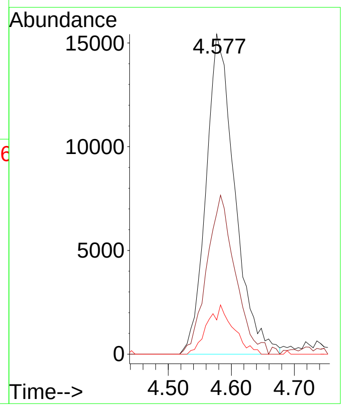
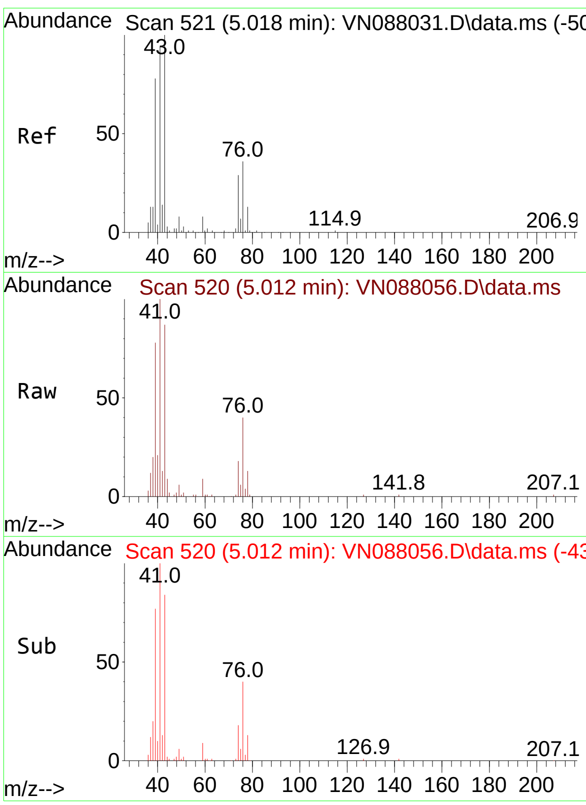
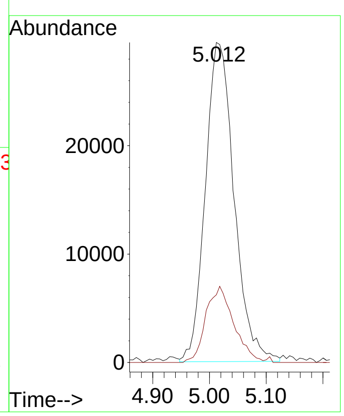




#12
Methyl Acetate
Concen: 19.929 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 43 Resp: 103928

Ion	Ratio	Lower	Upper
43	100		
74	21.4	23.3	34.9#



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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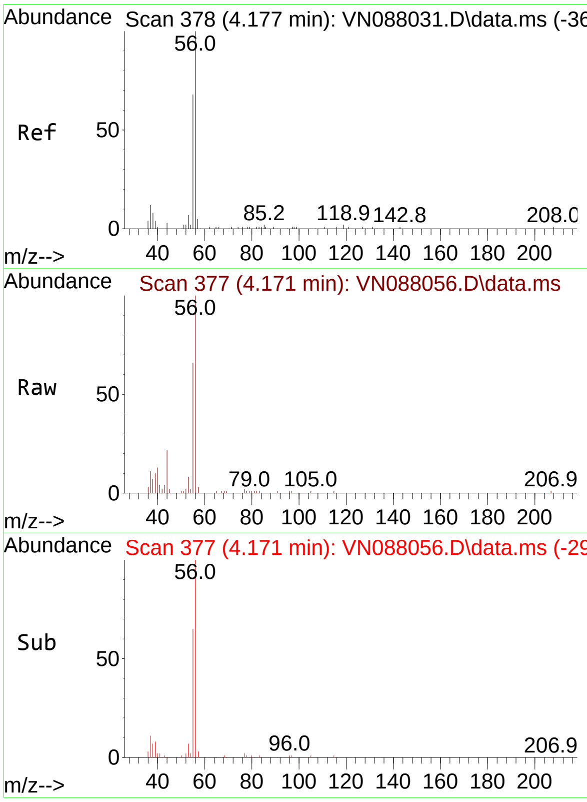
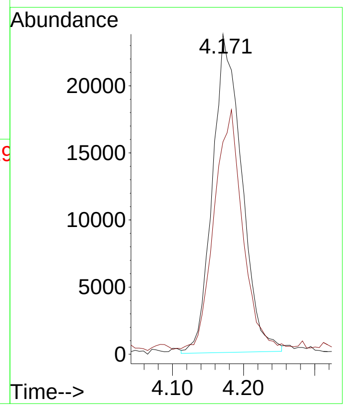
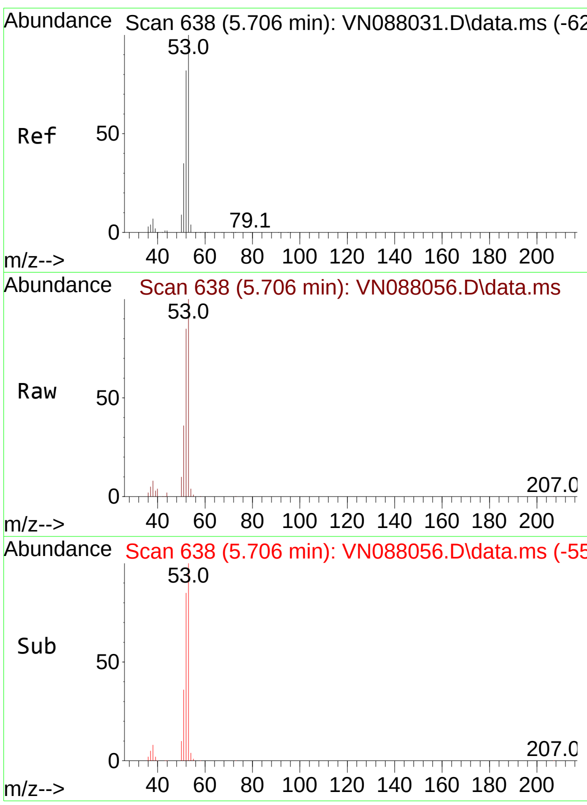


#13
Acrolein
Concen: 83.974 ug/l
RT: 4.171 min Scan# 37
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 56 Resp: 67768

Ion	Ratio	Lower	Upper
56	100		
55	75.4	0.3	0.5

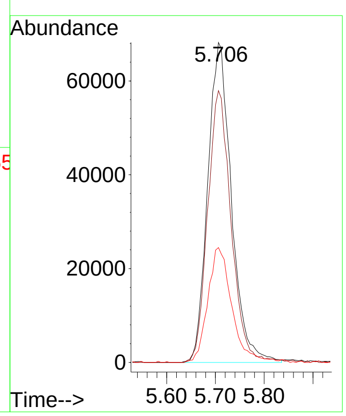




#14
Acrylonitrile
Concen: 91.332 ug/l
RT: 5.706 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 53 Resp: 229850

Ion	Ratio	Lower	Upper
53	100		
52	83.0	41.3	124.1
51	36.2	18.0	54.0



Instrument : MSVOA_N
ClientSampleId : VN1017WBS01

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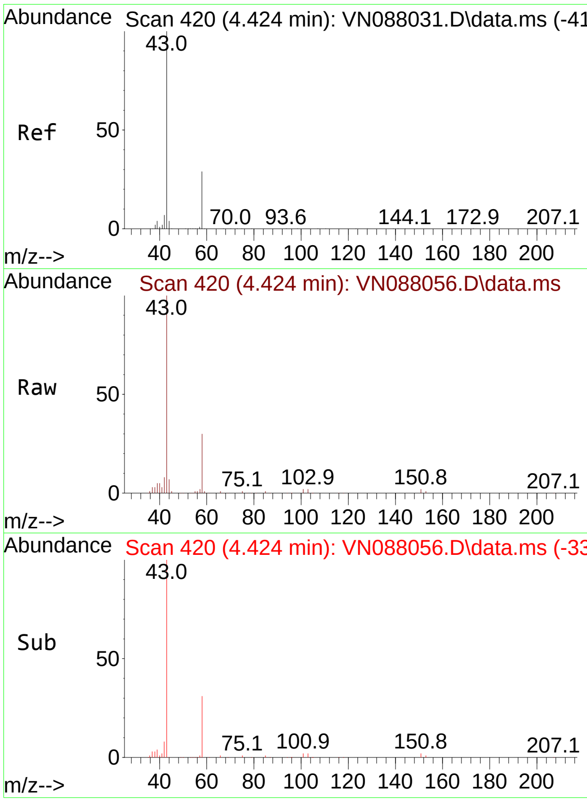
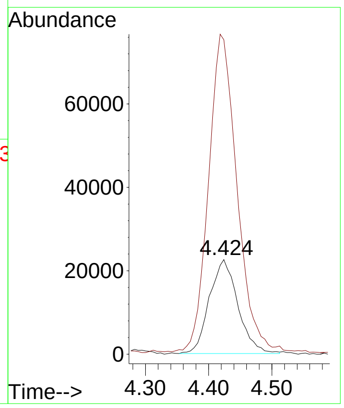
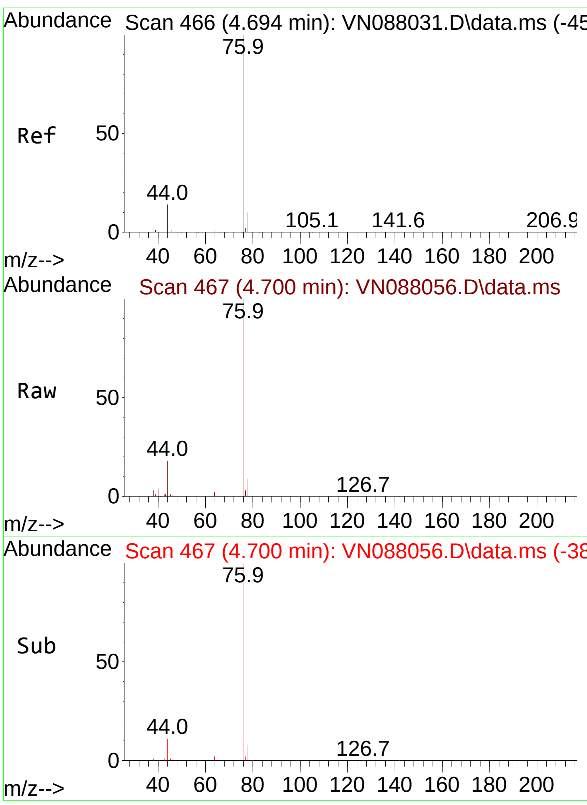
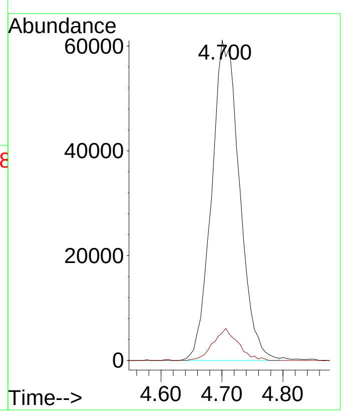


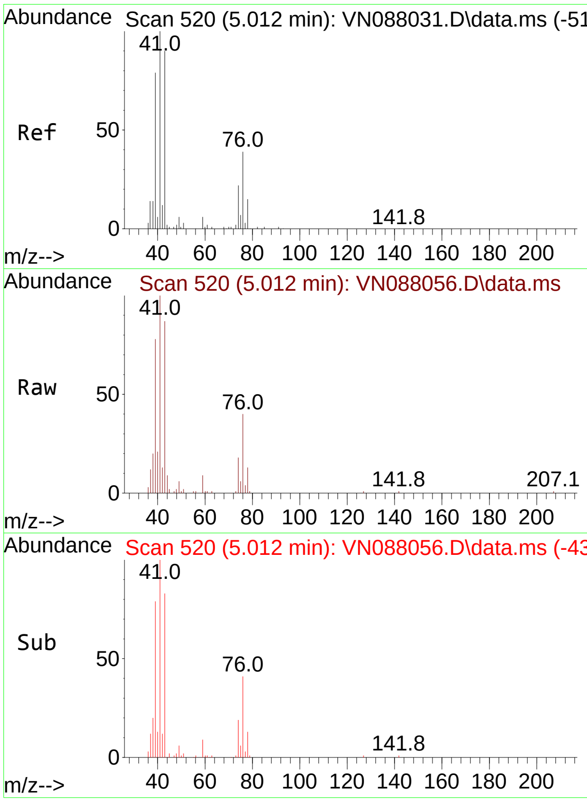

```
#15
Acetone
Concen:   95.949 ug/l
RT:   4.424 min  Scan# 4
Delta R.T.  0.000 min
Lab File:   VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion: 58 Resp:   7071(
Ion  Ratio  Lower  Upper
 58  100
 43  330.2  282.6  424.0
```






```
#16
Carbon Disulfide
Concen:   19.393 ug/l
RT:   4.700 min  Scan# 467
Delta R.T.  0.006 min
Lab File:   VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion: 76 Resp:  195019
Ion  Ratio  Lower  Upper
 76  100
 78    8.7    7.8   11.8
```





#17
Allyl chloride
Concen: 18.488 ug/l
RT: 5.012 min Scan# 5
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Tgt Ion: 41 Resp: 111908

Ion	Ratio	Lower	Upper
41	100		
39	76.6	36.4	109.2
76	40.4	18.1	54.1

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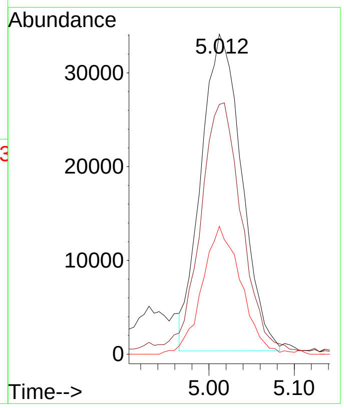
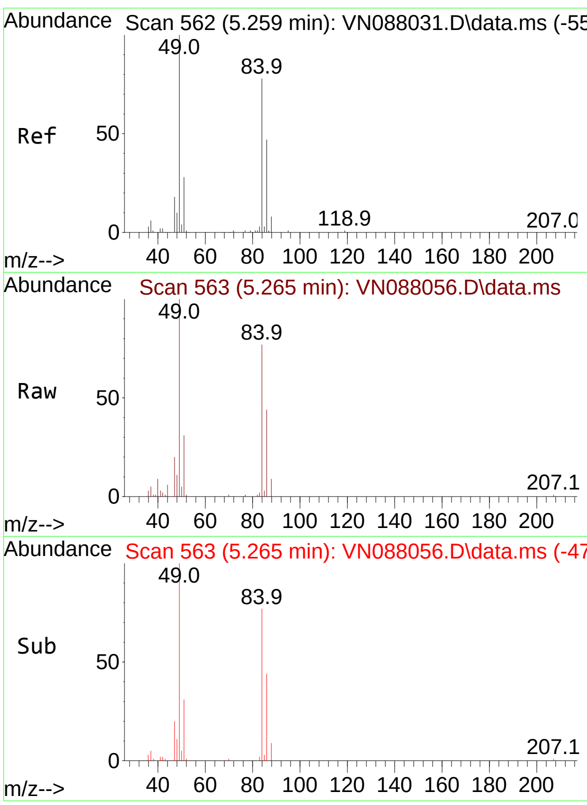
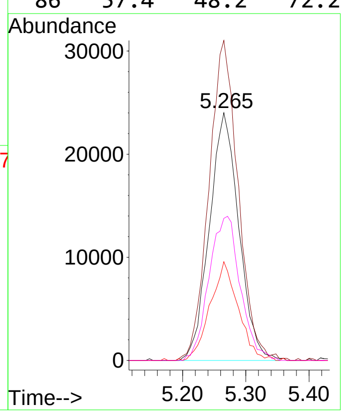


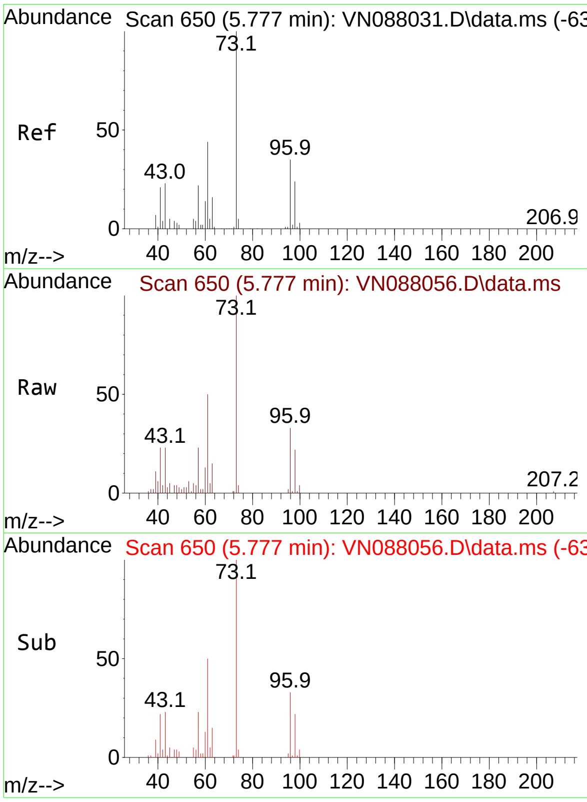


#18
Methylene Chloride
Concen: 19.067 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 84 Resp: 77740

Ion	Ratio	Lower	Upper
84	100		
49	128.6	102.6	153.8
51	39.9	28.6	42.8
86	57.4	48.2	72.2





#19
trans-1,2-Dichloroethene
Concen: 18.932 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Tgt Ion: 96 Resp: 7021

Ion	Ratio	Lower	Upper
96	100		
61	152.0	100.6	151.0
98	65.9	54.0	81.0

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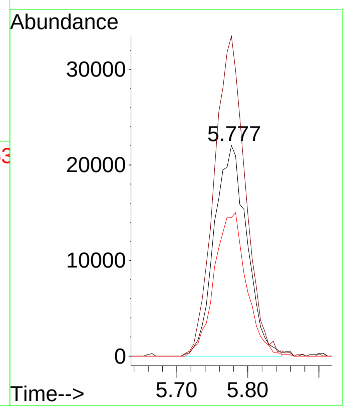
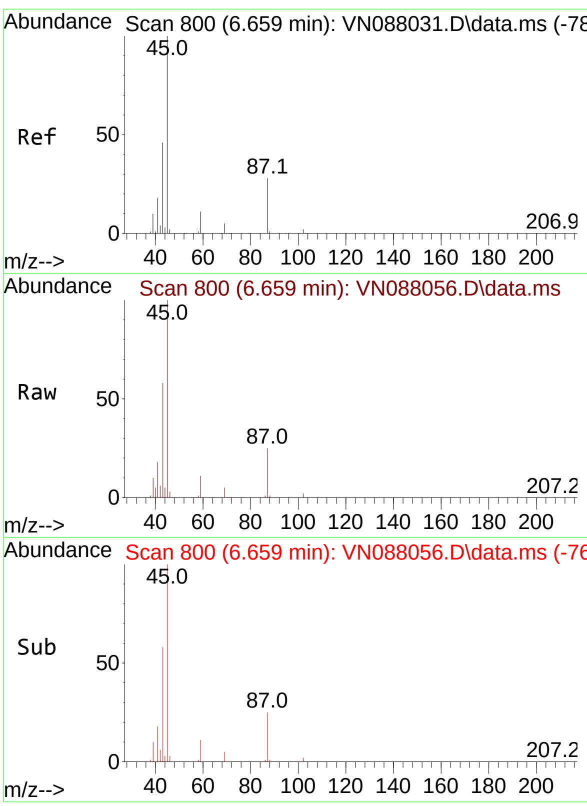
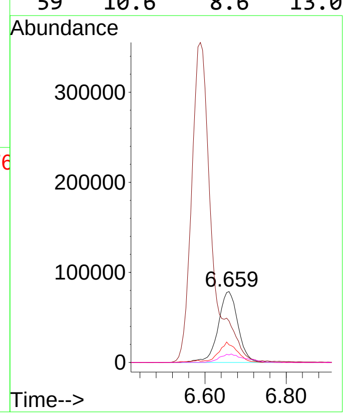




#20
Diisopropyl ether
Concen: 19.415 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 45 Resp: 267547

Ion	Ratio	Lower	Upper
45	100		
43	56.9	46.1	69.1
87	24.8	22.3	33.5
59	10.6	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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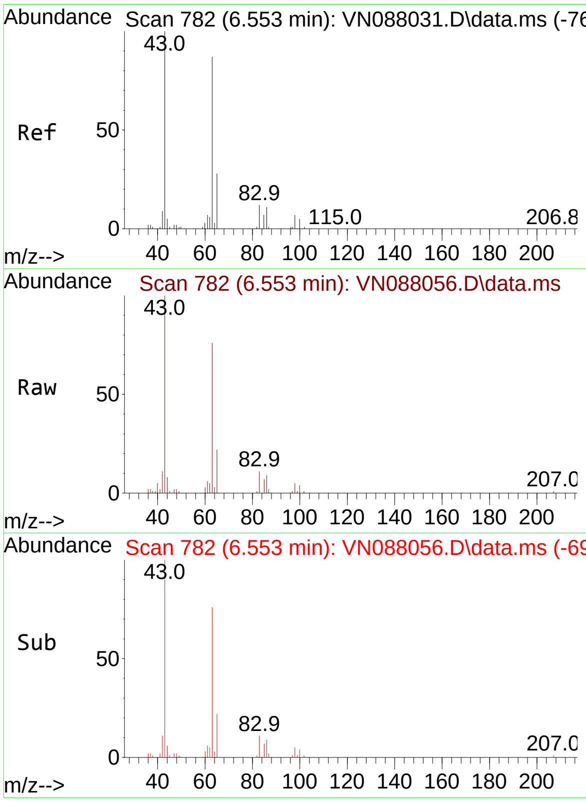
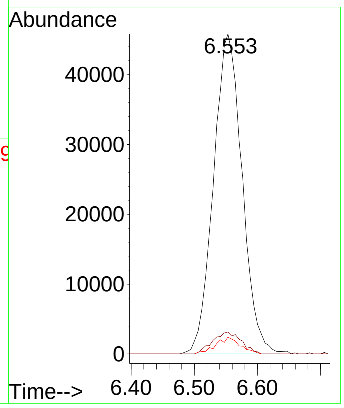
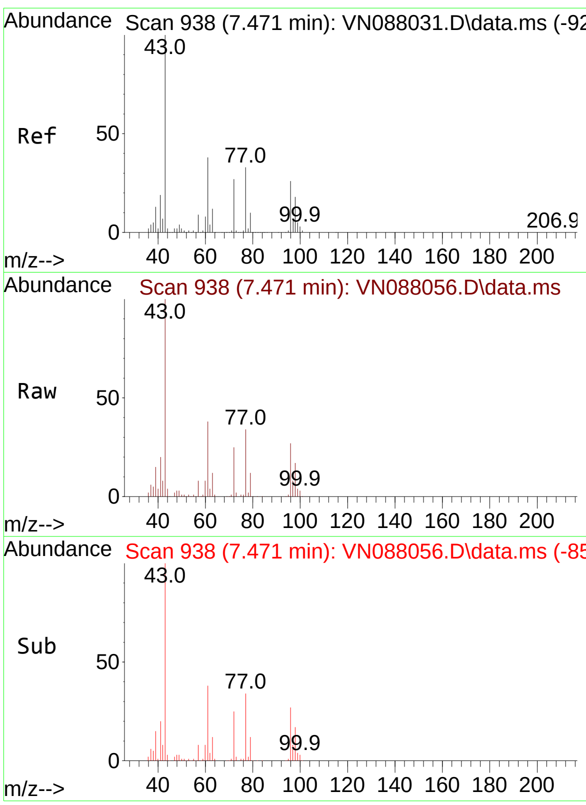


#21
1,1-Dichloroethane
Concen: 20.108 ug/l
RT: 6.553 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 63 Resp: 14425

Ion	Ratio	Lower	Upper
63	100		
98	6.8	4.3	12.8
100	5.2	2.6	8.0

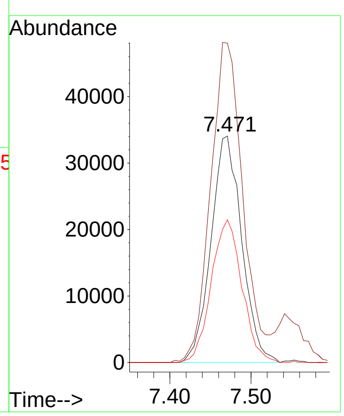


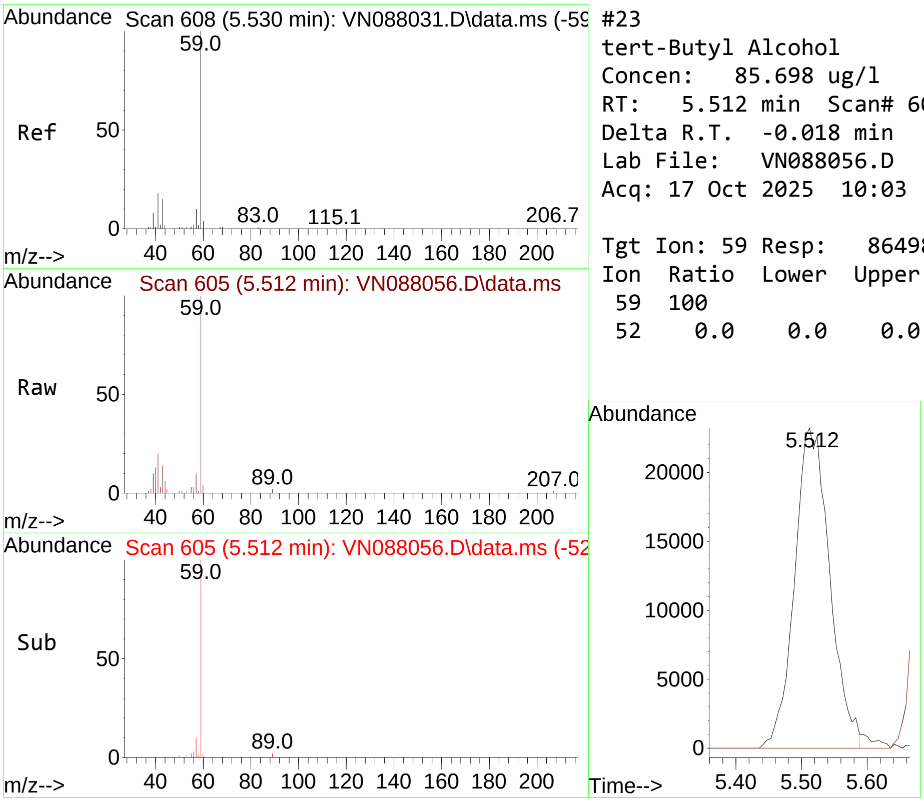


#22
cis-1,2-Dichloroethene
Concen: 19.334 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 96 Resp: 89762

Ion	Ratio	Lower	Upper
96	100		
61	148.5	117.0	175.6
98	63.0	52.6	79.0





#23
tert-Butyl Alcohol
Concen: 85.698 ug/l
RT: 5.512 min Scan# 60
Delta R.T. -0.018 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 59 Resp: 86498

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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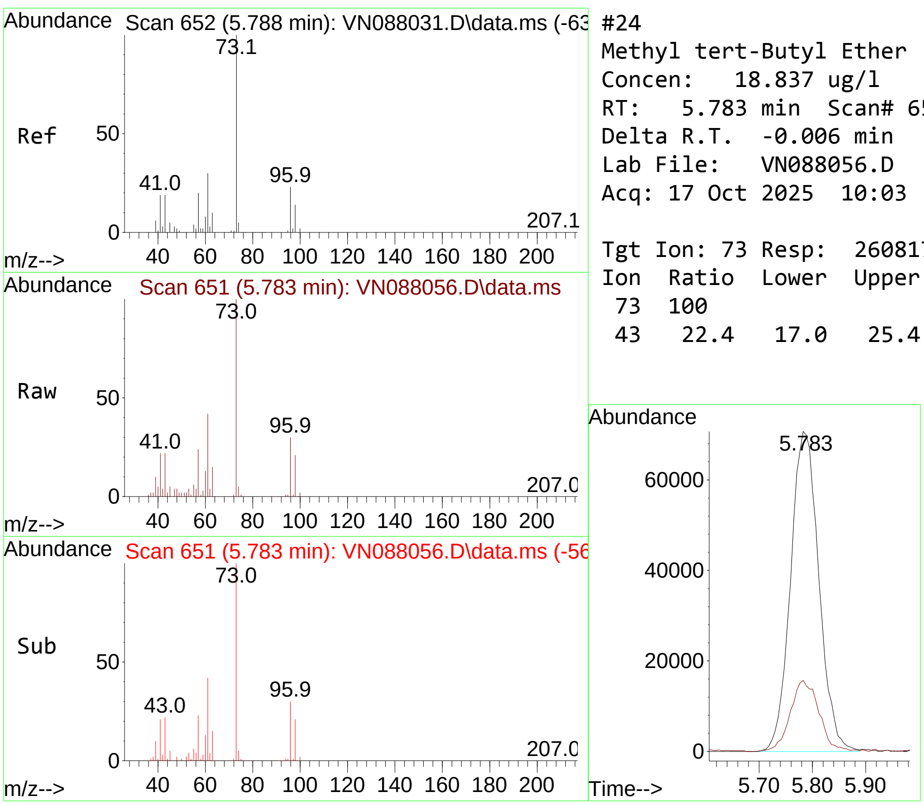

#24
Methyl tert-Butyl Ether
Concen: 18.837 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 73 Resp: 260817

Ion	Ratio	Lower	Upper
73	100		
43	22.4	17.0	25.4

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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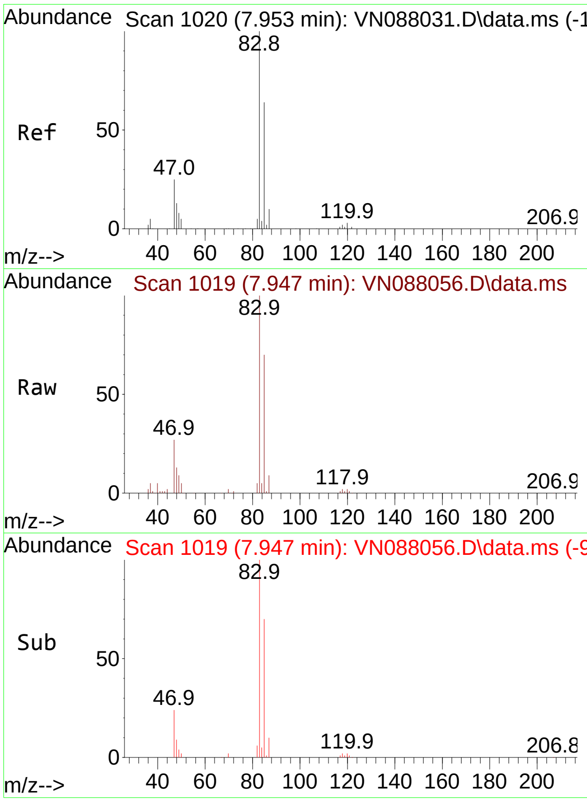
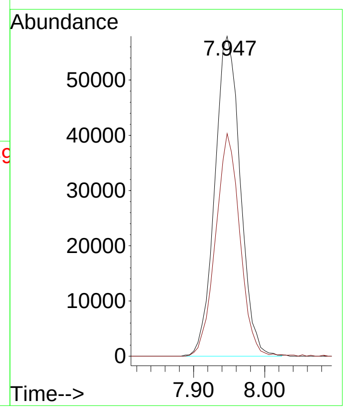
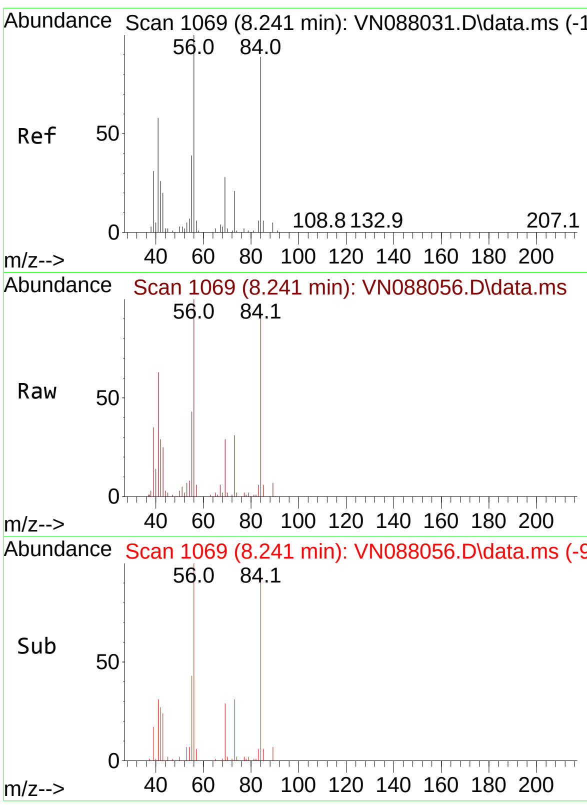


#25
Chloroform
Concen: 19.485 ug/l
RT: 7.947 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 83 Resp: 144250

Ion	Ratio	Lower	Upper
83	100		
85	69.6	50.9	76.3

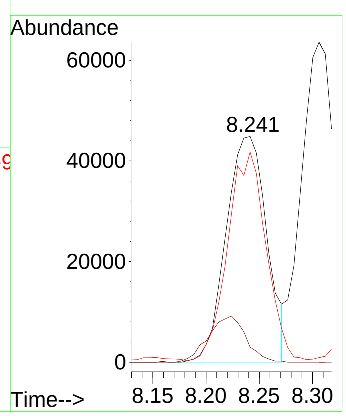




#26
Cyclohexane
Concen: 20.096 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 56 Resp: 119448

Ion	Ratio	Lower	Upper
56	100		
89	18.8	8.6	12.8#
84	87.8	69.6	104.4



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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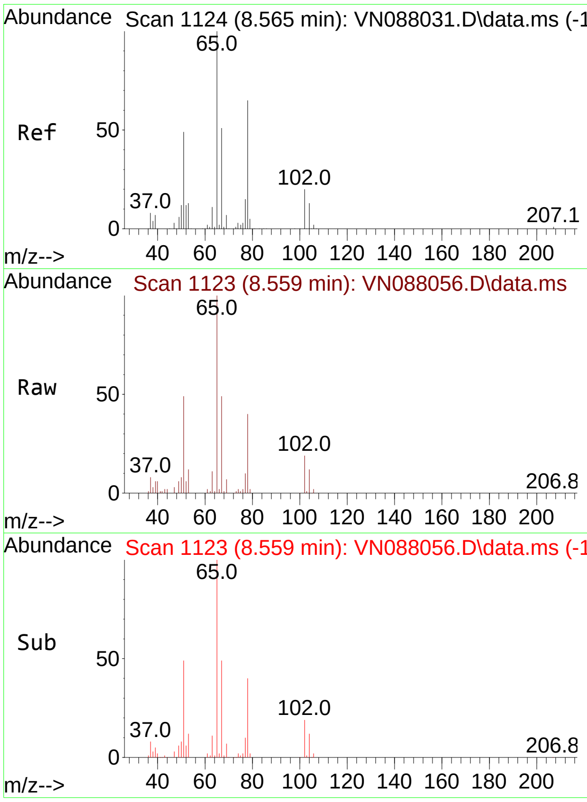
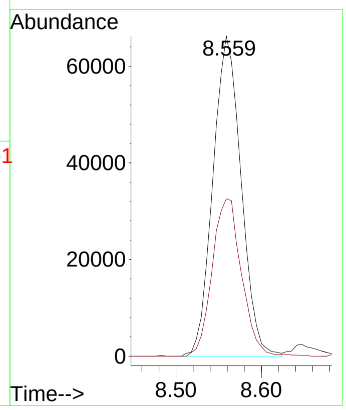
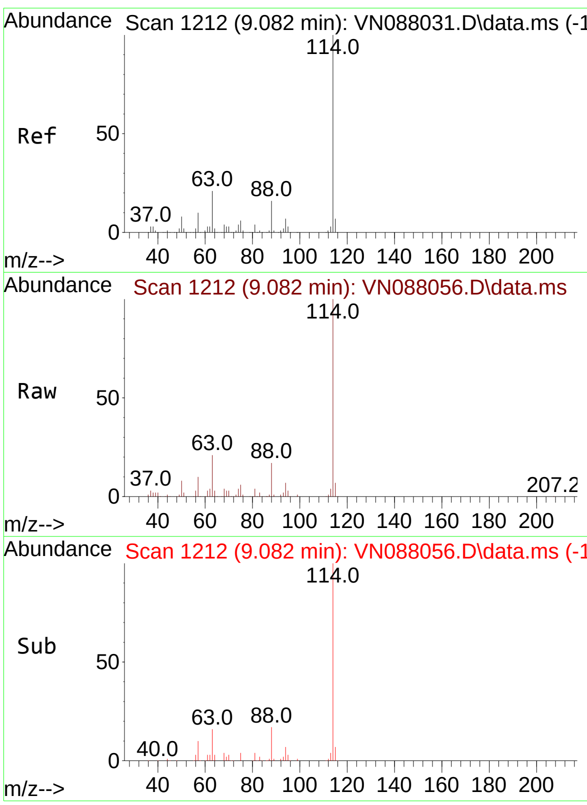
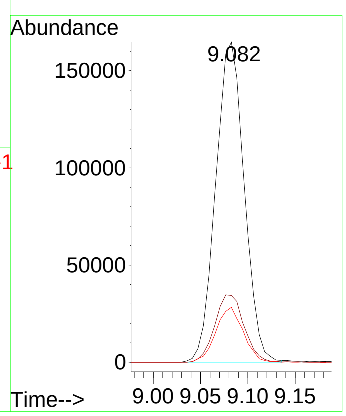



```
#27
1,2-Dichloroethane-d4
Concen:   32.032 ug/l
RT:   8.559 min  Scan# 1
Delta R.T.  -0.006 min
Lab File:   VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion: 65 Resp:  15217
Ion  Ratio  Lower  Upper
 65  100
 67   50.7   41.9   62.9
```






```
#28
1,4-Difluorobenzene
Concen:   30.000 ug/l
RT:   9.082 min  Scan# 1212
Delta R.T.  0.000 min
Lab File:   VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion:114 Resp:  345518
Ion  Ratio  Lower  Upper
114  100
 63   21.6   16.6   25.0
 88   16.5   12.6   18.8
```



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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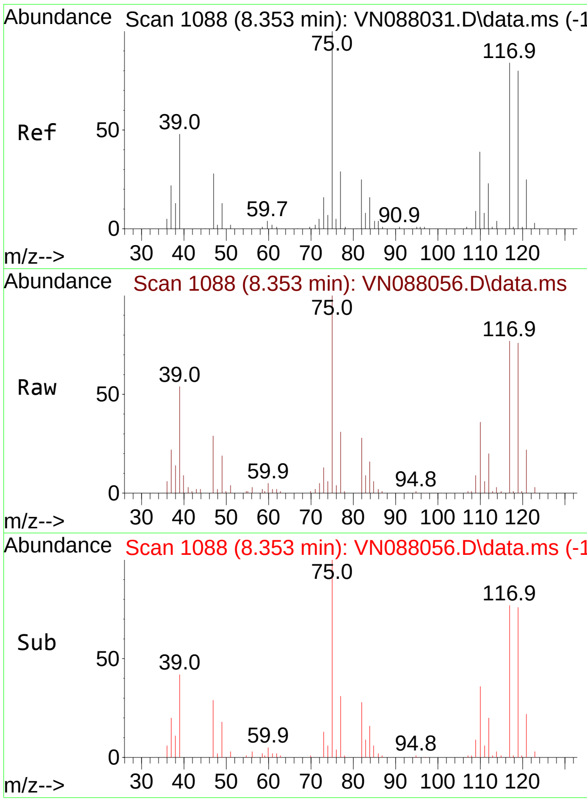
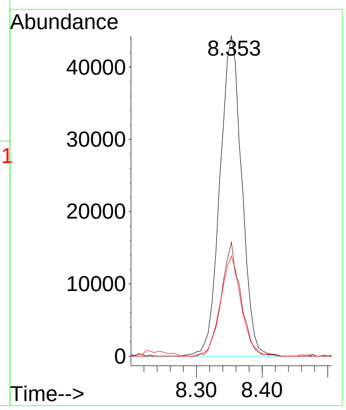
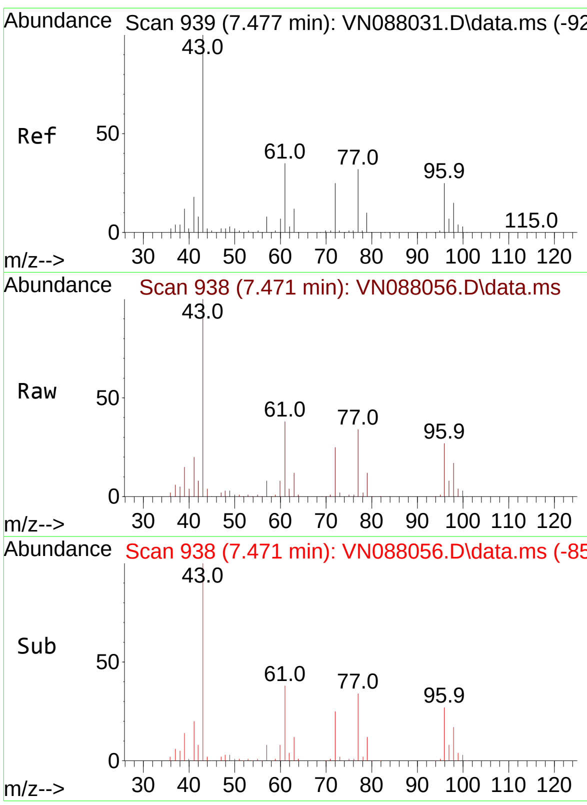
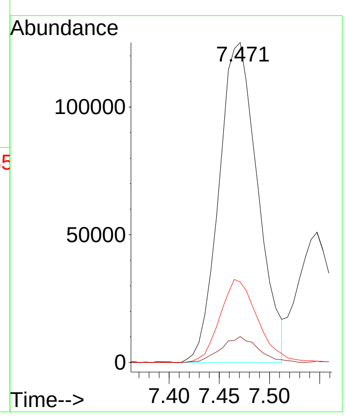


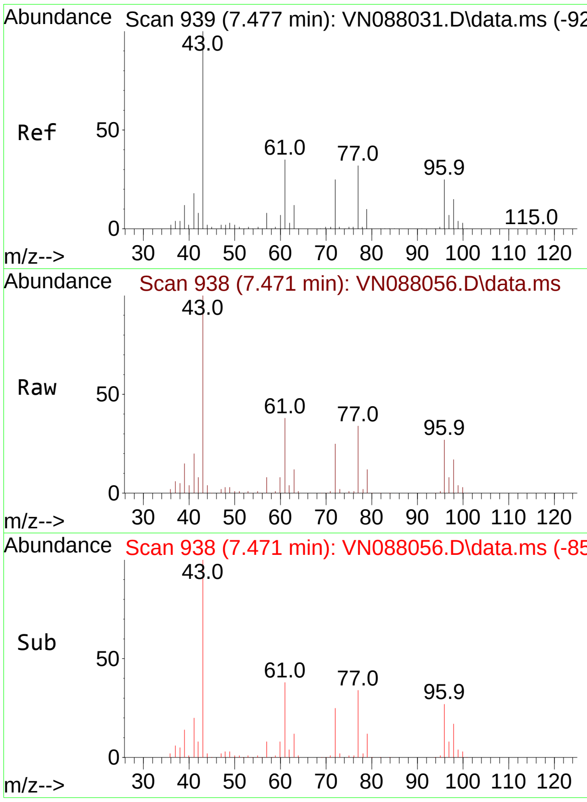

```
#29
1,1-Dichloropropene
Concen:   20.642 ug/l
RT:    8.353 min   Scan# 10
Delta R.T.   0.000 min
Lab File:    VN088056.D
Acq: 17 Oct 2025   10:03

Tgt Ion: 75 Resp:   10223
Ion   Ratio   Lower   Upper
 75   100
110    31.3     0.0    72.2
 77    30.2     0.0    60.6
```






```
#30
2-Butanone
Concen:   92.513 ug/l
RT:    7.471 min   Scan# 938
Delta R.T.   -0.006 min
Lab File:    VN088056.D
Acq: 17 Oct 2025   10:03

Tgt Ion: 43 Resp:   337926
Ion   Ratio   Lower   Upper
 43   100
 57     7.7     6.5     9.7
 72    25.3    21.4    32.2
```





#31
2,2-Dichloropropane
Concen: 19.748 ug/l
RT: 7.471 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Tgt Ion: 77 Resp: 12602

Ion	Ratio	Lower	Upper
77	100		
97	22.3	17.8	26.8

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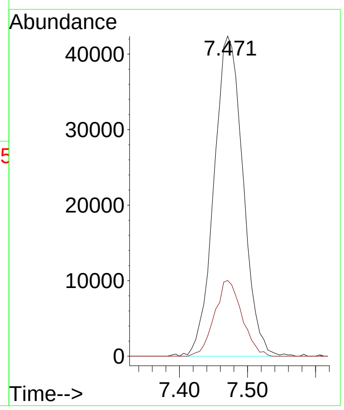
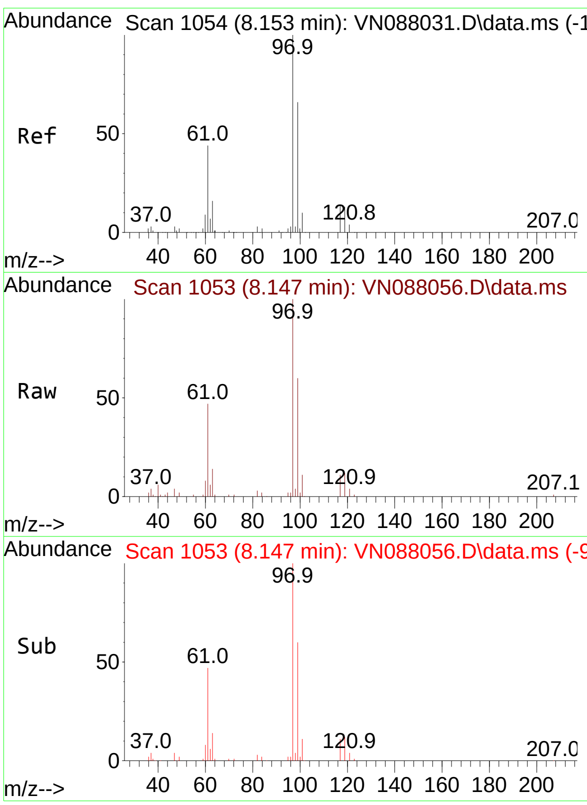
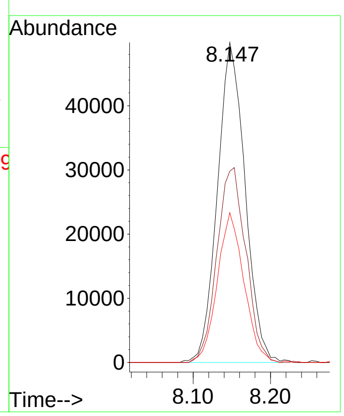


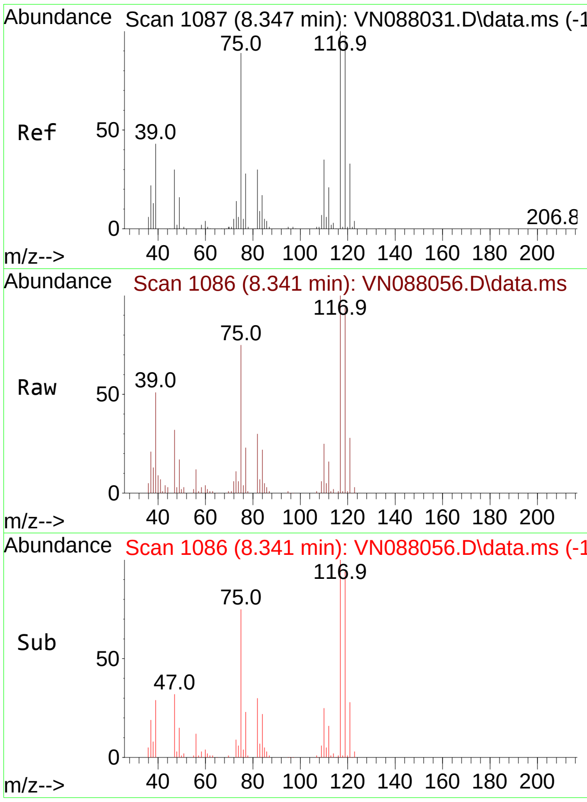


#32
1,1,1-Trichloroethane
Concen: 20.041 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 97 Resp: 124024

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.4	77.2
61	45.1	34.7	52.1





#33
Carbon Tetrachloride
Concen: 20.151 ug/l
RT: 8.341 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:117 Resp: 10445

Ion	Ratio	Lower	Upper
117	100		
119	94.4	77.9	116.9
121	28.2	26.4	39.6

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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Reviewed By :John Carlone 10/20/2025
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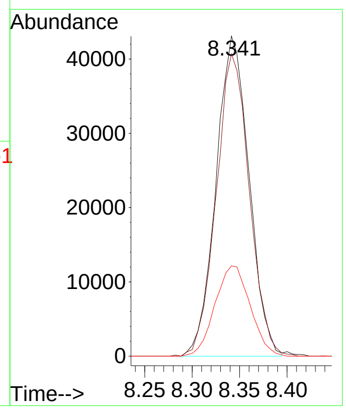
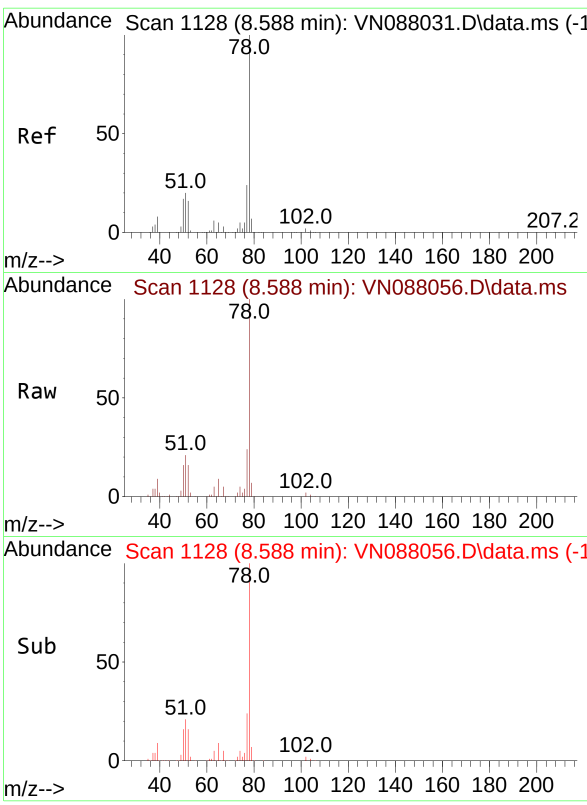
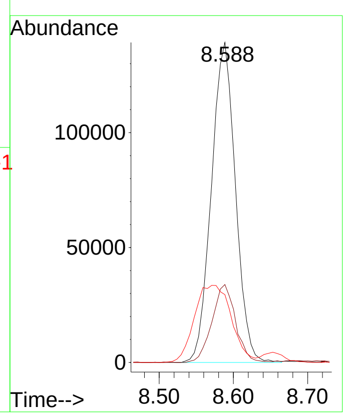


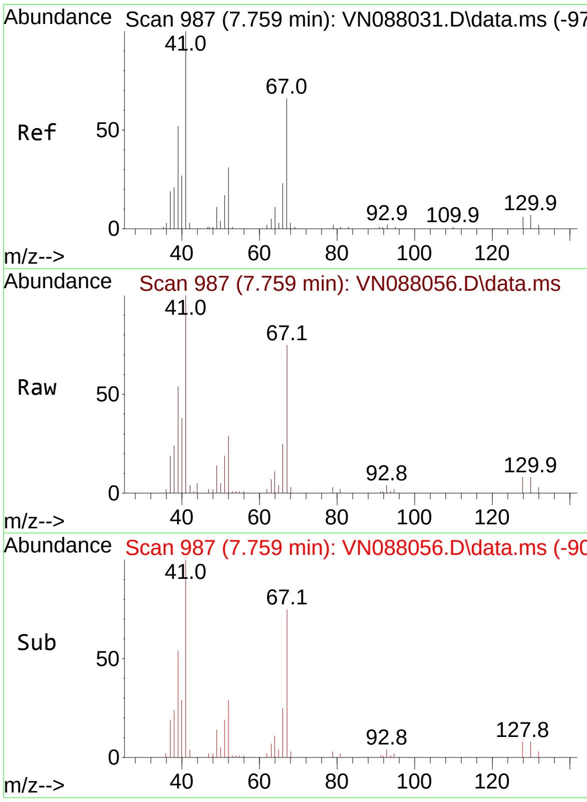


#34
Benzene
Concen: 19.152 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 78 Resp: 314619

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.9	28.3
51	18.9	15.6	23.4

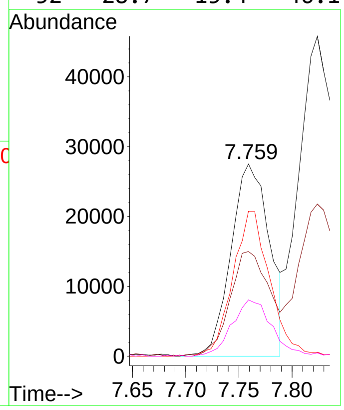




#35
Methacrylonitrile
Concen: 18.132 ug/l
RT: 7.759 min Scan# 98
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 41 Resp: 6964

Ion	Ratio	Lower	Upper
41	100		
39	54.4	26.1	78.3
67	74.8	33.1	99.2
52	28.7	15.4	46.1



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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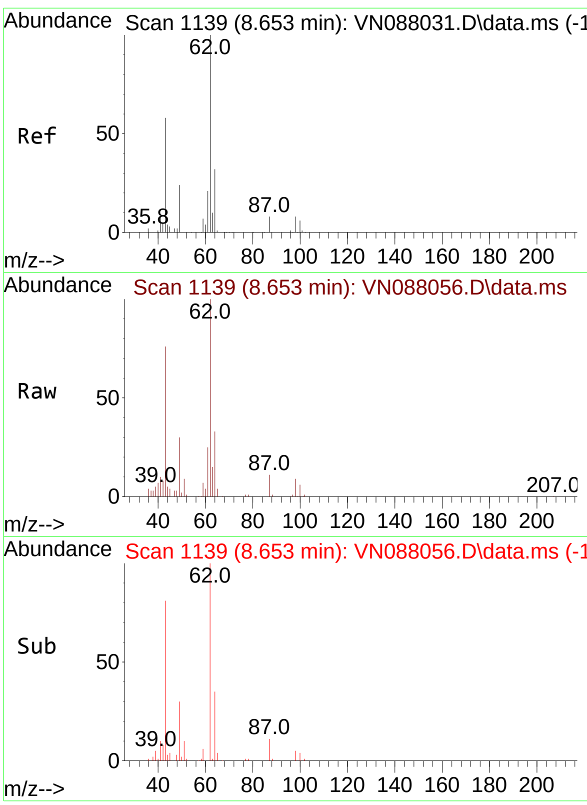
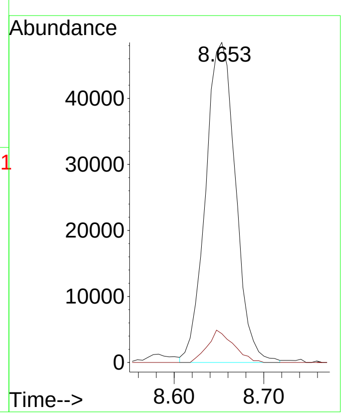


#36
1,2-Dichloroethane
Concen: 19.813 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 62 Resp: 112994

Ion	Ratio	Lower	Upper
62	100		
98	8.7	7.8	11.6



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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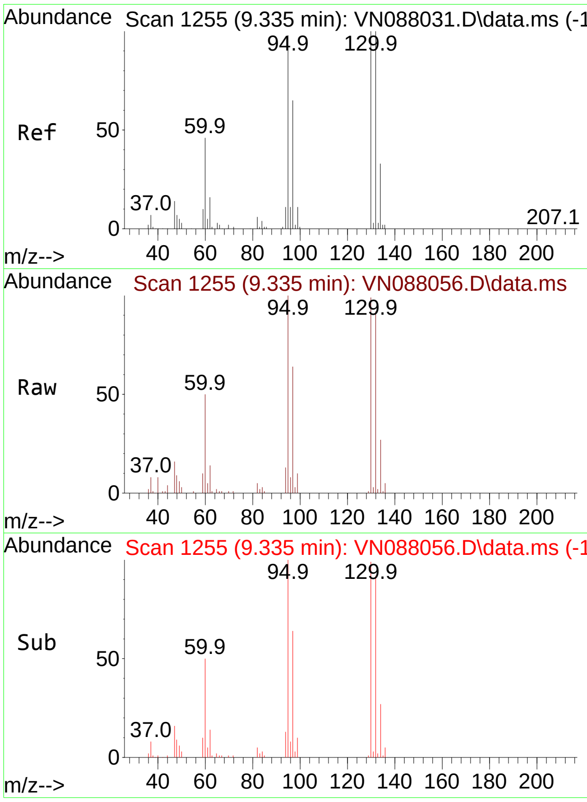
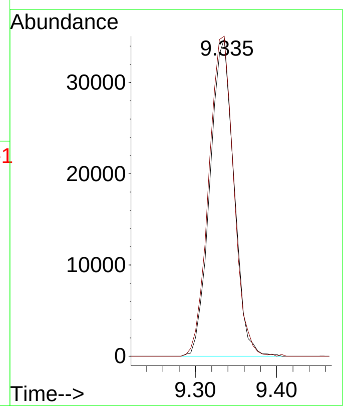
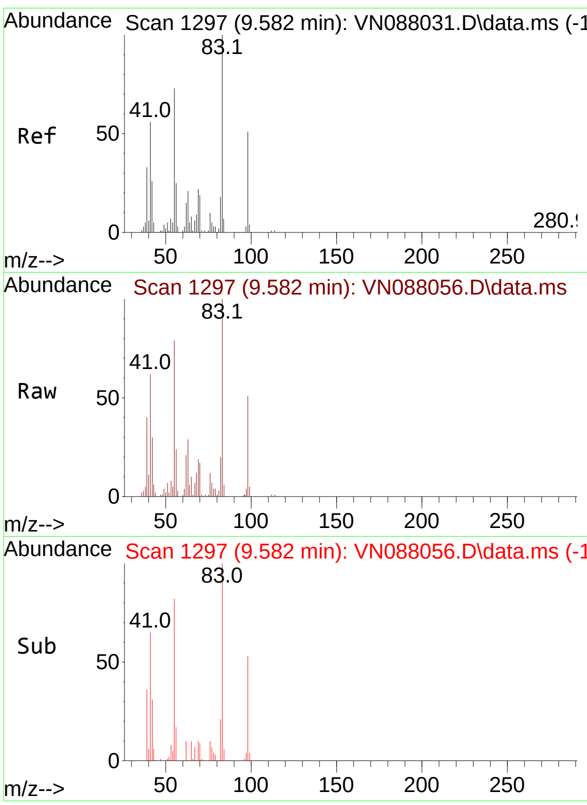


#37
Trichloroethene
Concen: 18.294 ug/l
RT: 9.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:130 Resp: 7120

Ion	Ratio	Lower	Upper
130	100		
95	100.8	78.7	118.1

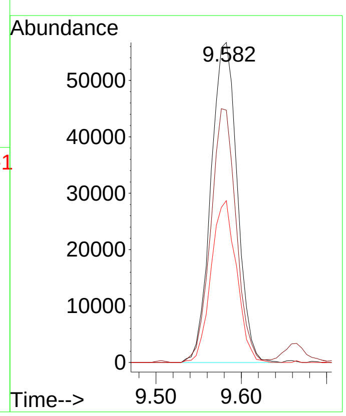




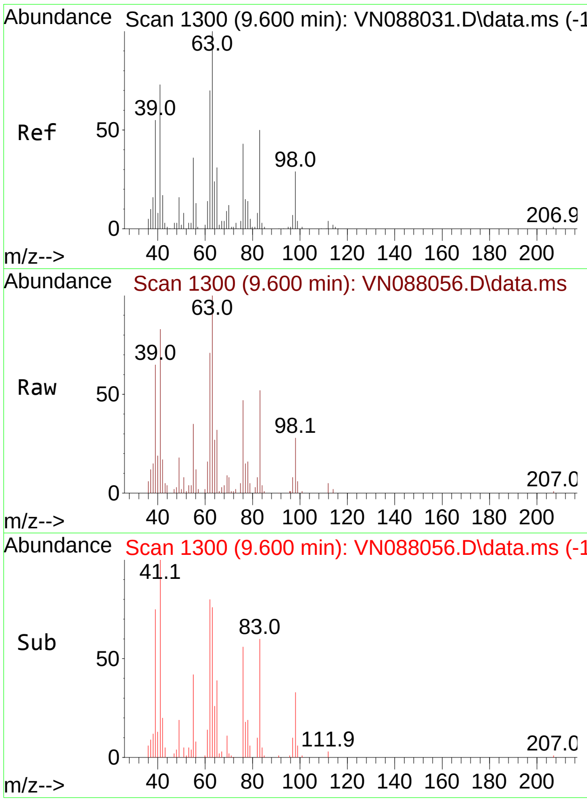
#38
Methylcyclohexane
Concen: 19.840 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 83 Resp: 121344

Ion	Ratio	Lower	Upper
83	100		
55	76.6	37.3	111.9
98	49.1	25.4	76.0



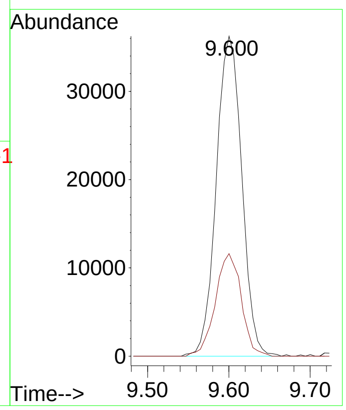
Sample Results: **VN088056.D**



#39
1,2-Dichloropropane
Concen: 19.215 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 63 Resp: 79149

Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.0	37.6



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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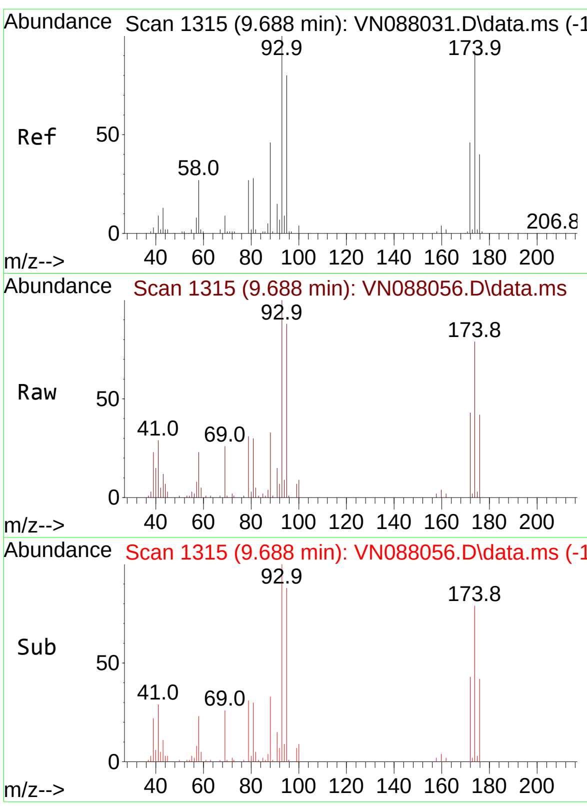
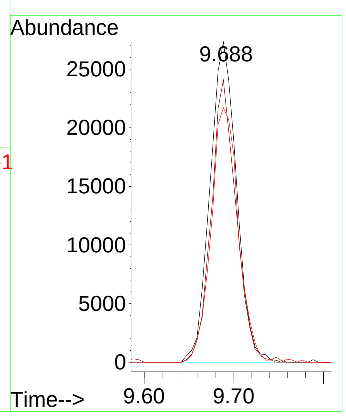
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#40
Dibromomethane
Concen: 18.795 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 93 Resp: 56354

Ion	Ratio	Lower	Upper
93	100		
95	82.4	0.0	158.6
174	81.6	0.0	180.8



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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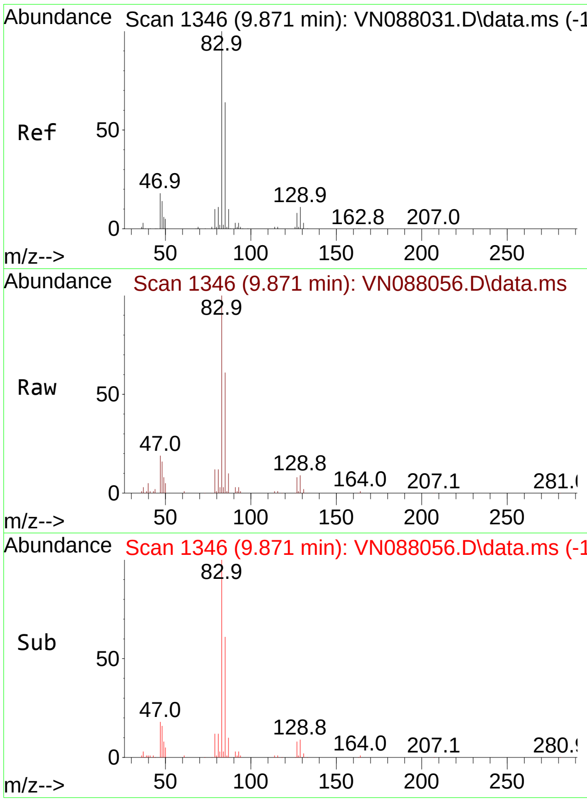
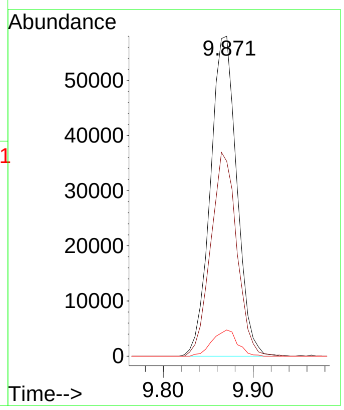
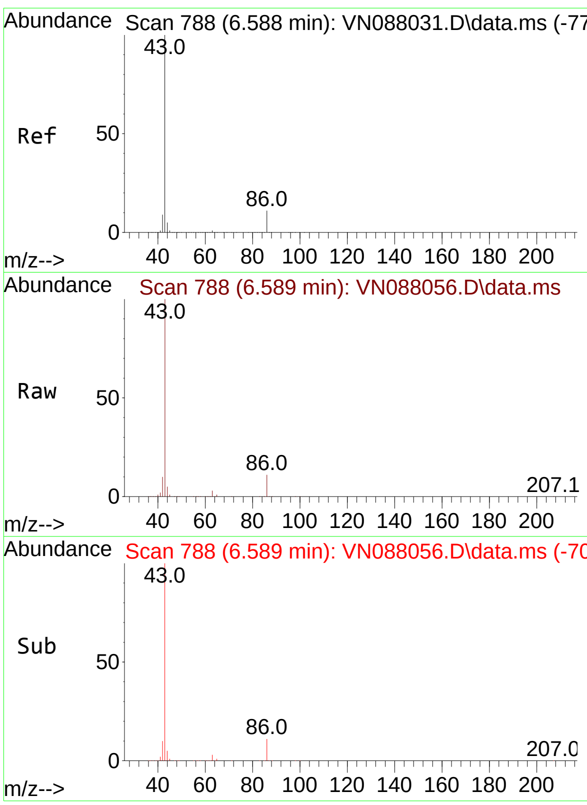


#41
Bromodichloromethane
Concen: 19.375 ug/l
RT: 9.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 83 Resp: 11864

Ion	Ratio	Lower	Upper
83	100		
85	60.9	51.0	76.4
127	8.2	6.1	9.1

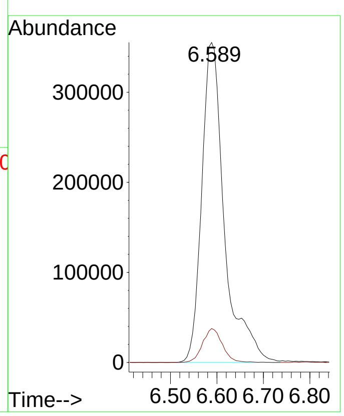


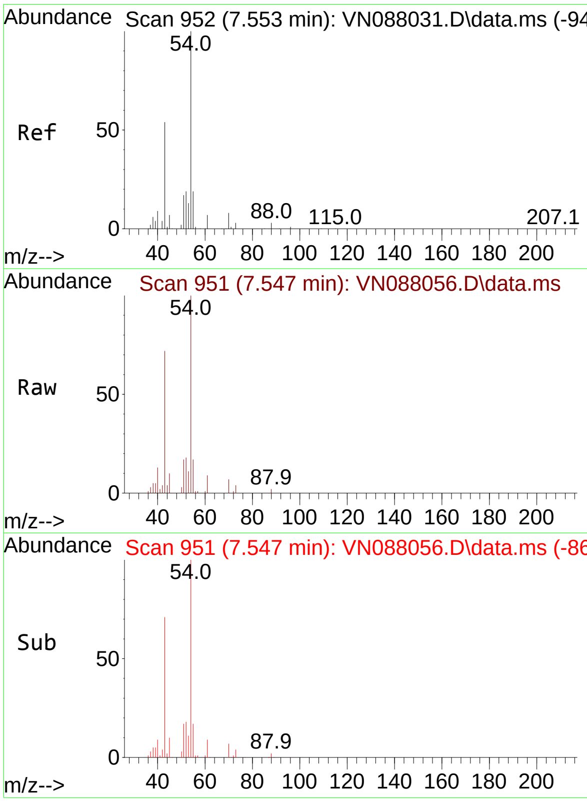


#42
Vinyl Acetate
Concen: 97.194 ug/l m
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 43 Resp: 1209453

Ion	Ratio	Lower	Upper
43	100		
86	9.2	8.4	12.6





#43
Ethyl Acetate
Concen: 18.969 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Instrument : MSVOA_N
ClientSampleId : VN1017WBS01

Tgt Ion: 43 Resp: 133195

Ion	Ratio	Lower	Upper
43	100		
45	12.5	10.2	15.4

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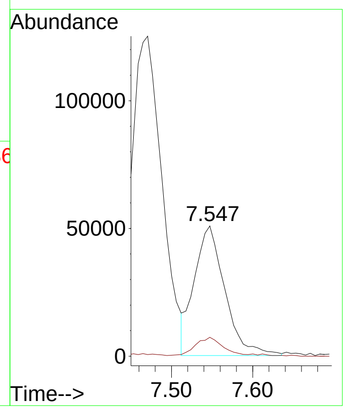
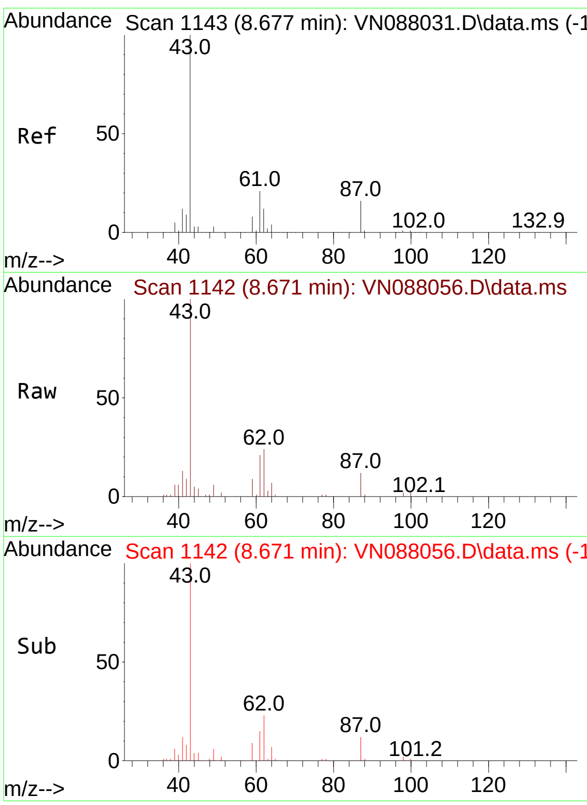
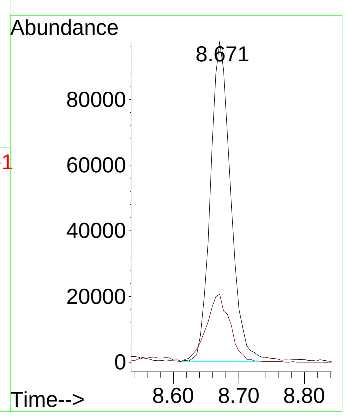




#44
Isopropyl Acetate
Concen: 18.392 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 43 Resp: 210930

Ion	Ratio	Lower	Upper
43	100		
61	24.5	18.7	28.1



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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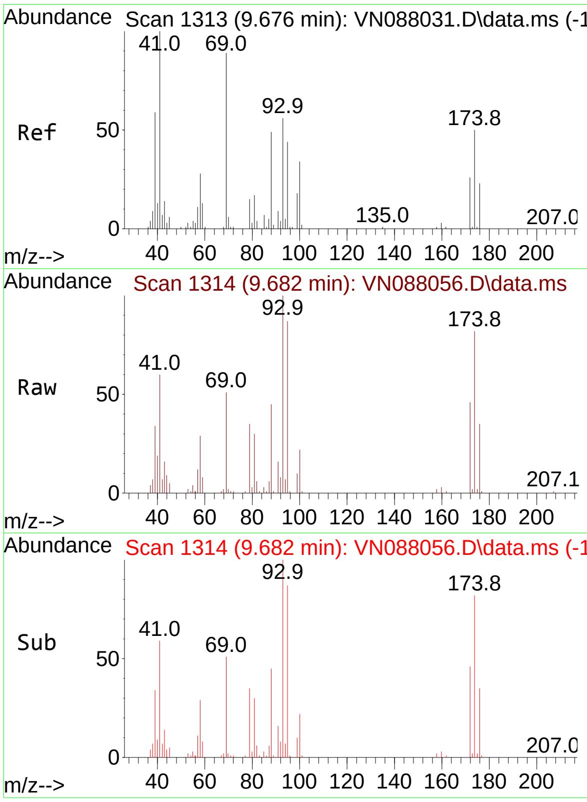
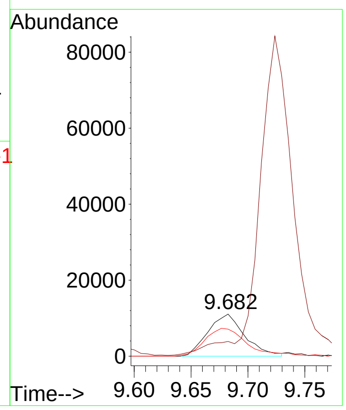
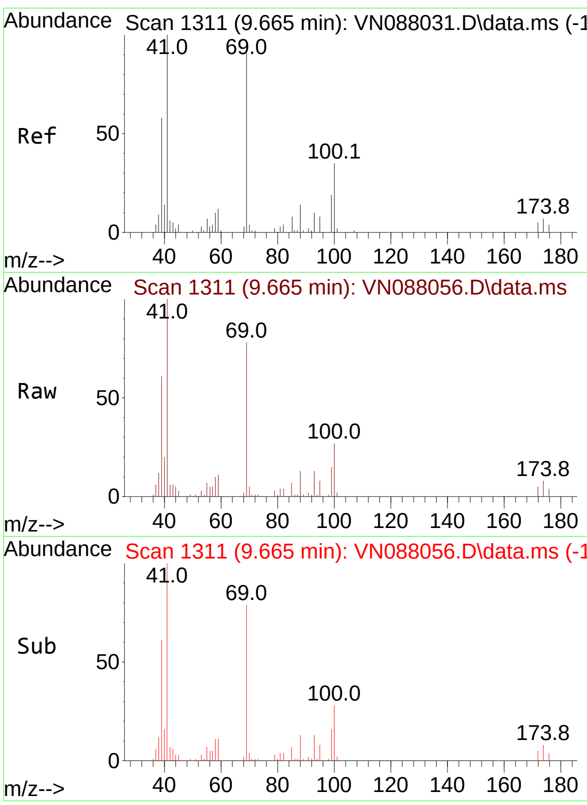


#45
1,4-Dioxane
Concen: 326.268 ug/l
RT: 9.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 88 Resp: 2488

Ion	Ratio	Lower	Upper
88	100		
43	29.3	18.6	27.8
58	75.7	57.4	86.2

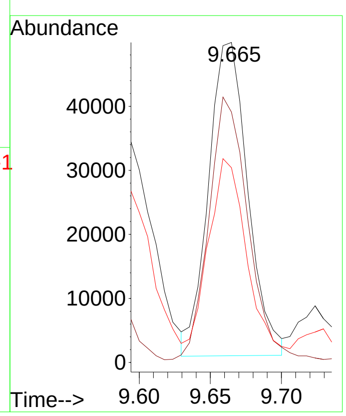


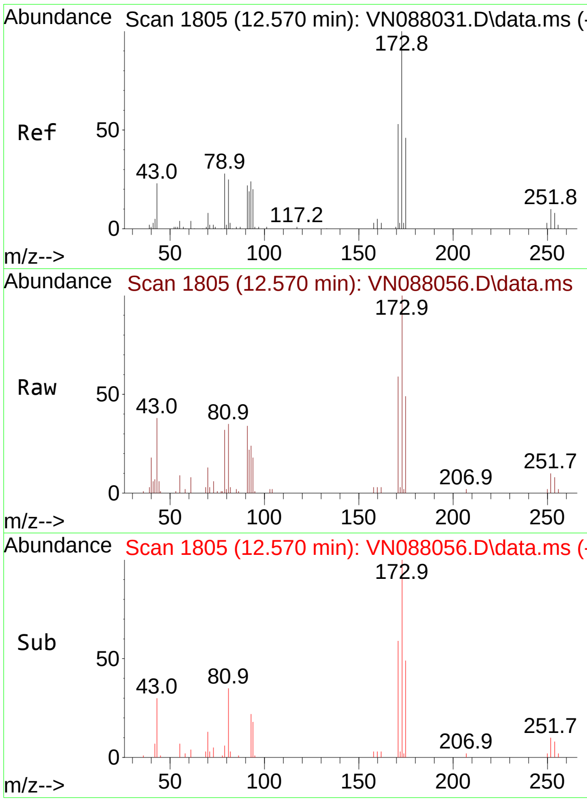


#46
Methyl methacrylate
Concen: 18.621 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 41 Resp: 94043

Ion	Ratio	Lower	Upper
41	100		
69	82.0	44.9	134.7
39	60.3	30.3	90.8





#47
n-amyl Acetate
Concen: 21.135 ug/l m
RT: 12.570 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 43 Resp: 114884

Ion	Ratio	Lower	Upper
43	100		
55	0.7	0.6	0.8

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations
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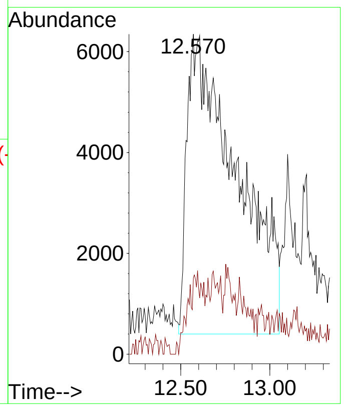
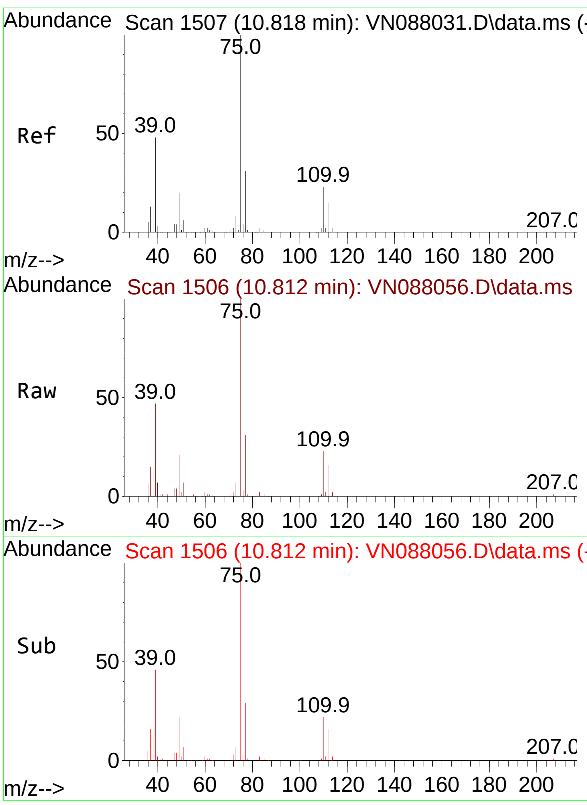
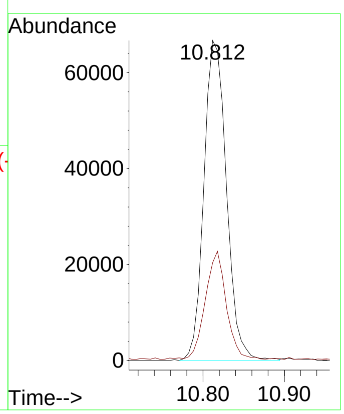


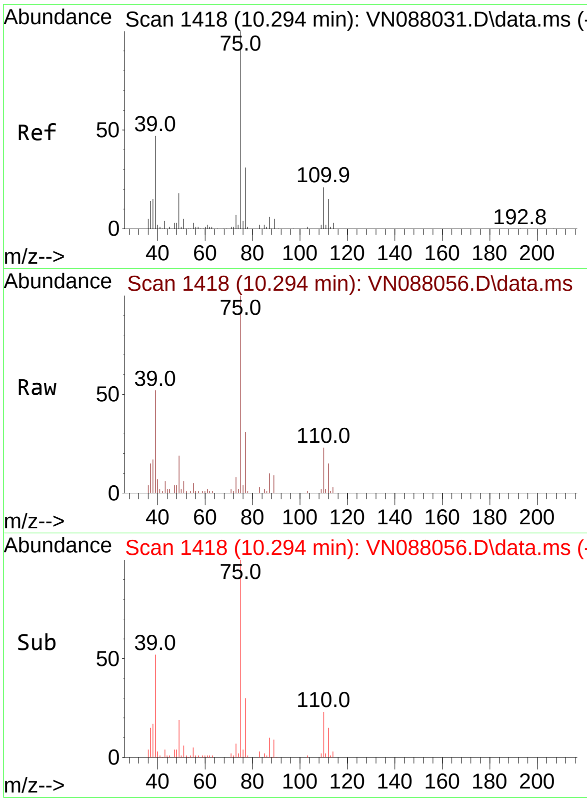


#48
t-1,3-Dichloropropene
Concen: 18.895 ug/l
RT: 10.812 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 75 Resp: 128661

Ion	Ratio	Lower	Upper
75	100		
77	30.0	24.5	36.7





#49
cis-1,3-Dichloropropene
Concen: 18.672 ug/l
RT: 10.294 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 75 Resp: 13263

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.0	37.4
39	52.1	37.4	56.0

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations
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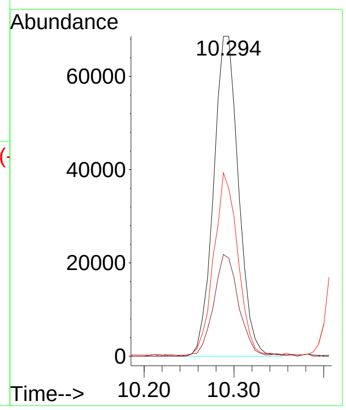
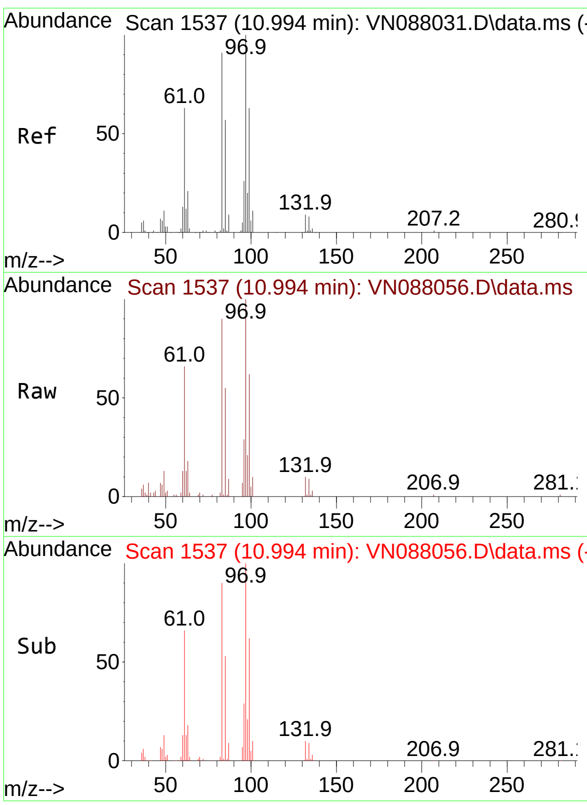
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

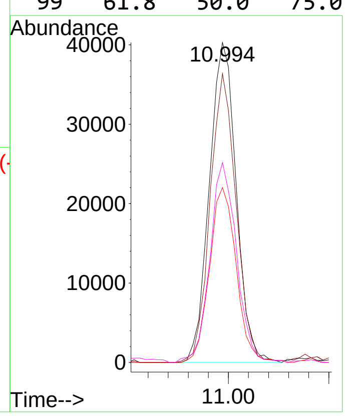




#50
1,1,2-Trichloroethane
Concen: 18.857 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 97 Resp: 74875

Ion	Ratio	Lower	Upper
97	100		
83	89.8	72.5	108.7
85	54.7	45.5	68.3
99	61.8	50.0	75.0



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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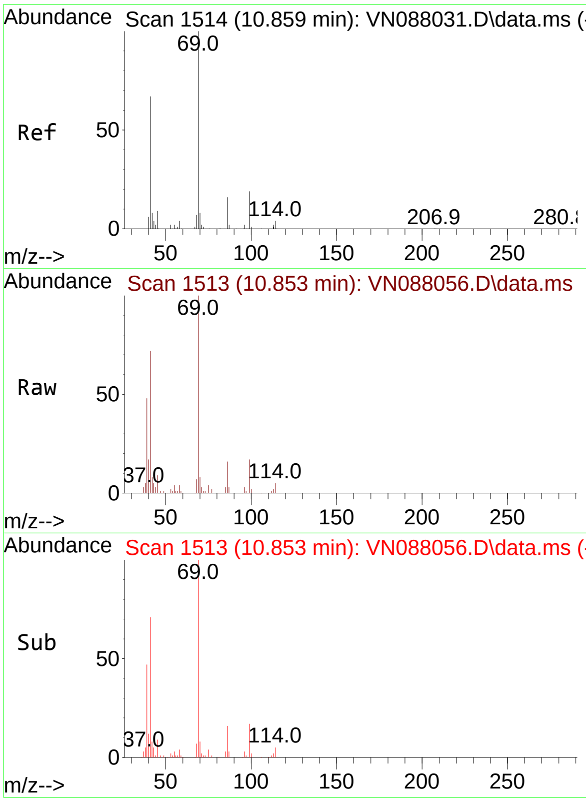
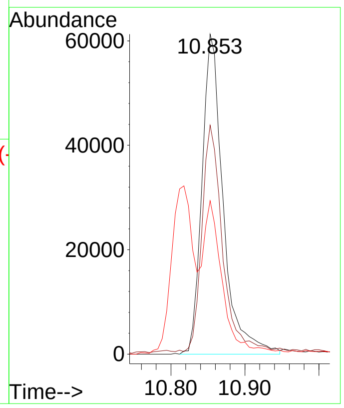
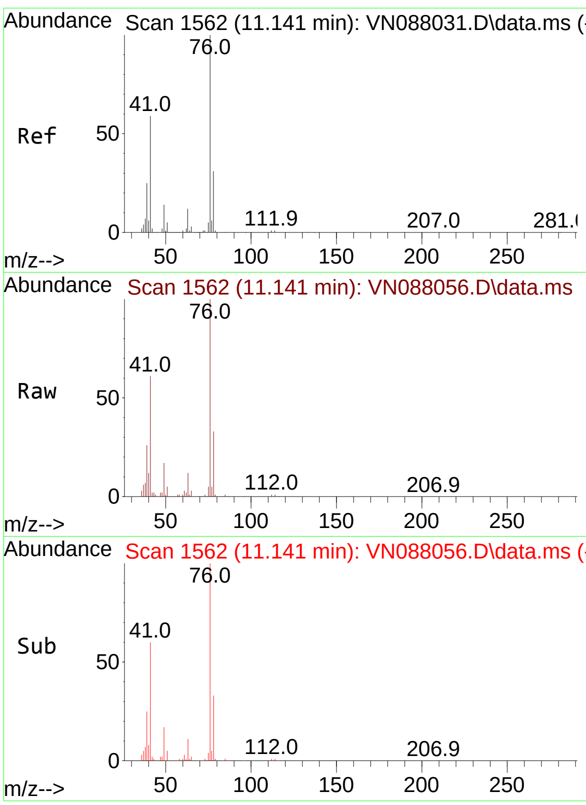
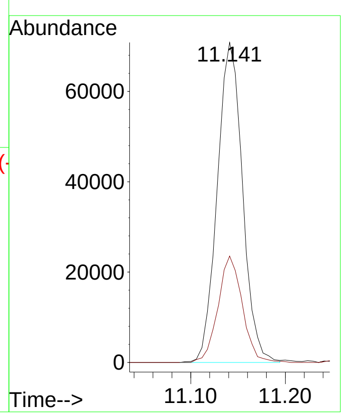


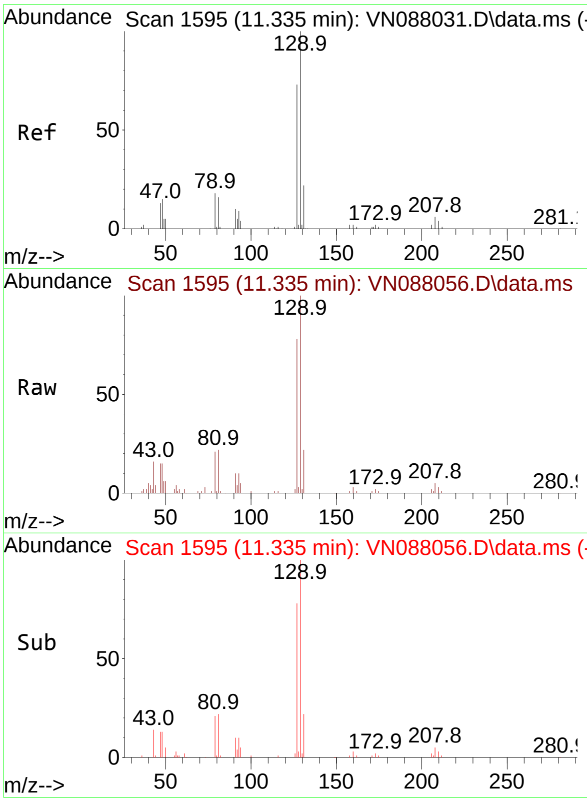

```
#51
Ethyl methacrylate
Concen:   18.195 ug/l
RT:  10.853 min  Scan# 1
Delta R.T.  -0.006 min
Lab File:   VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion: 69 Resp:  12226
Ion  Ratio  Lower  Upper
 69  100
 41   70.3   33.3   99.8
 39   46.7   20.3   61.0
```






```
#52
1,3-Dichloropropane
Concen:   19.013 ug/l
RT:  11.141 min  Scan# 1562
Delta R.T.  0.000 min
Lab File:   VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion: 76 Resp:  131711
Ion  Ratio  Lower  Upper
 76  100
 78   32.0    0.0   65.0
```





#53
Dibromochloromethane
Concen: 18.269 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:129 Resp: 86721

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.1	117.3

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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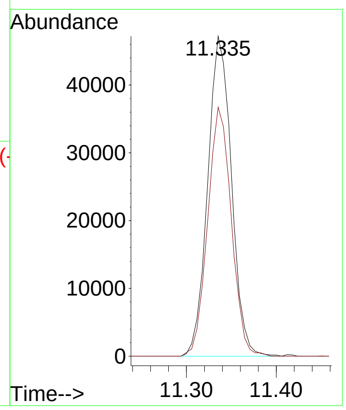
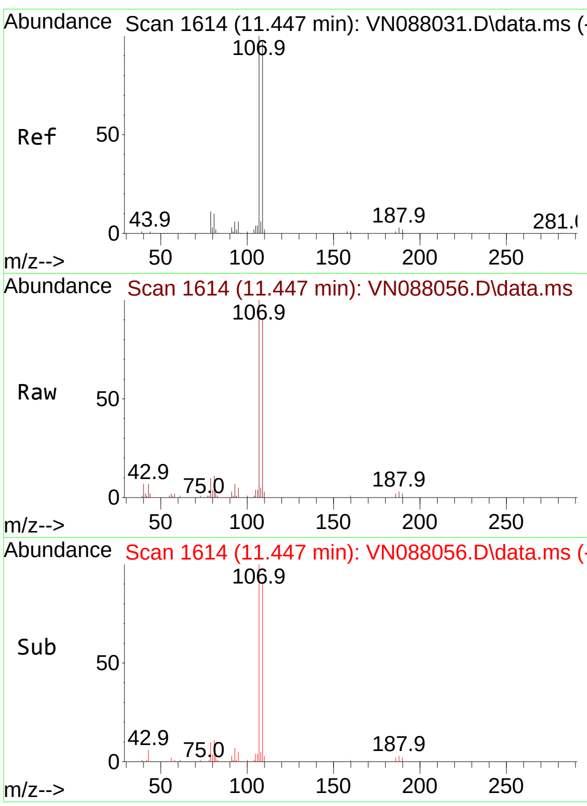
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

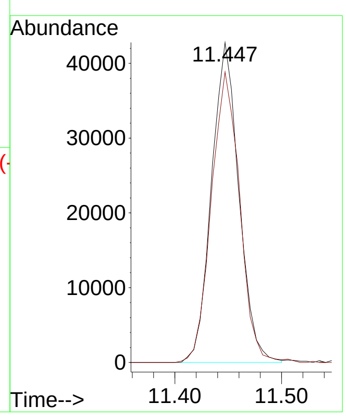




#54
1,2-Dibromoethane
Concen: 17.955 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:107 Resp: 76220

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.5	113.3



Instrument :
MSVOA_N
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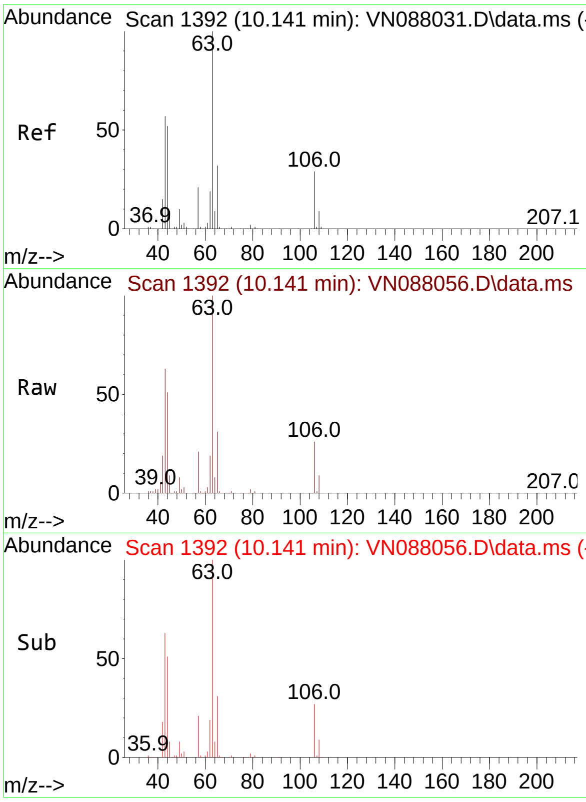
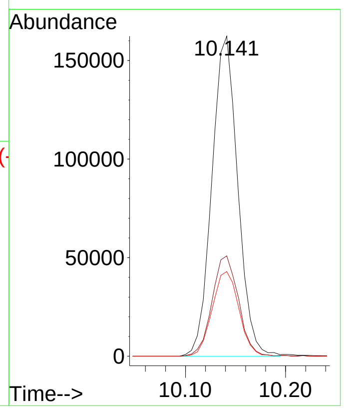
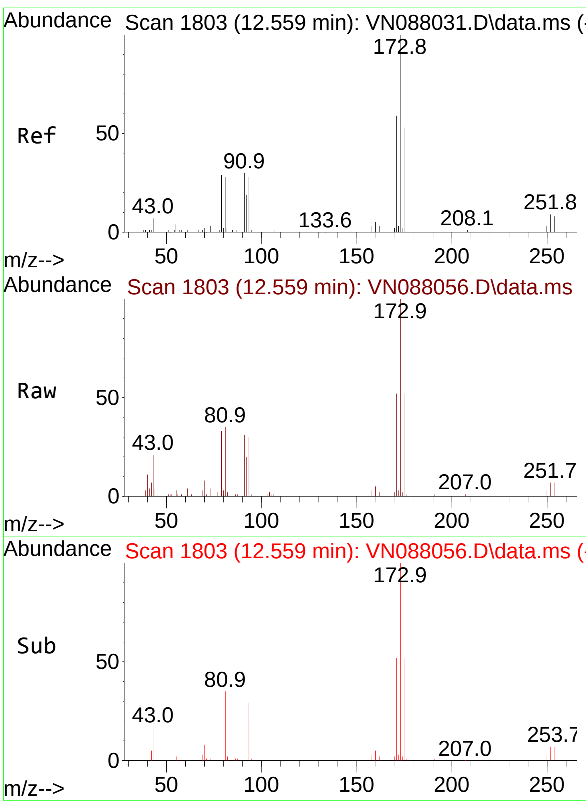
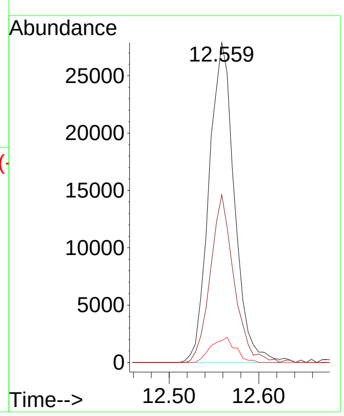



```
#55
2-Chloroethyl vinyl ether
Concen:   80.508 ug/l
RT:  10.141 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion: 63 Resp:  29202
Ion  Ratio  Lower  Upper
 63  100
 65   31.9   25.7   38.5
106   27.4   22.6   34.0
```






```
#56
Bromoform
Concen:   17.148 ug/l
RT:  12.559 min  Scan# 1803
Delta R.T.  0.000 min
Lab File:   VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion:173 Resp:   55031
Ion  Ratio  Lower  Upper
173  100
175   47.5   39.6   59.4
254    7.6    6.6   10.0
```



Instrument :
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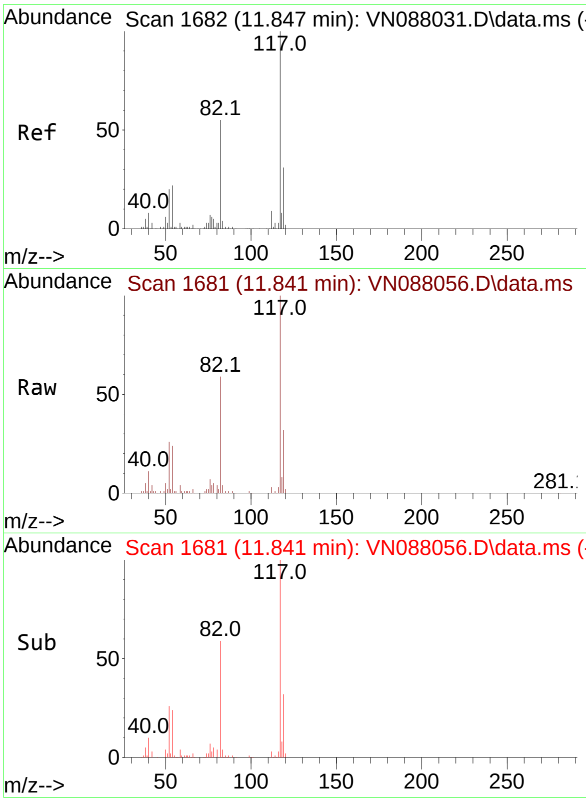
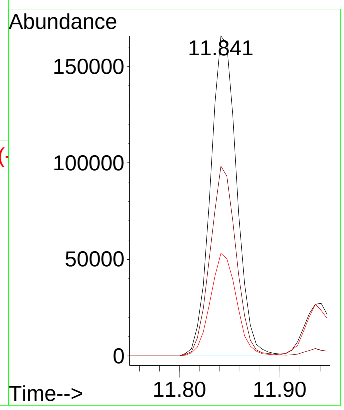
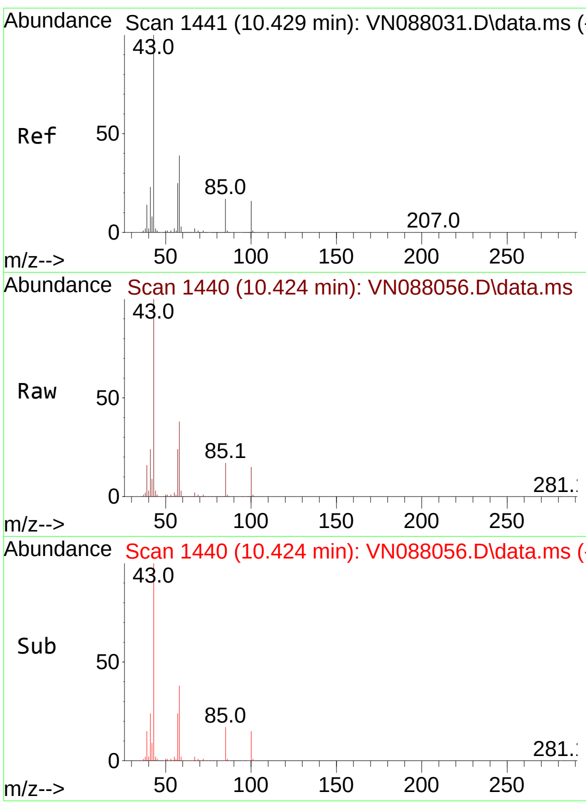
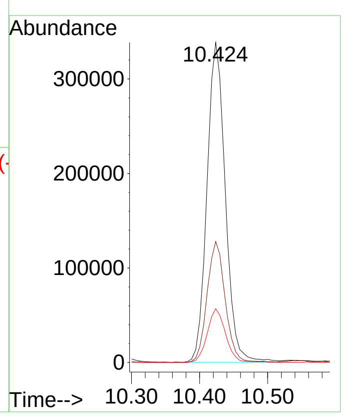


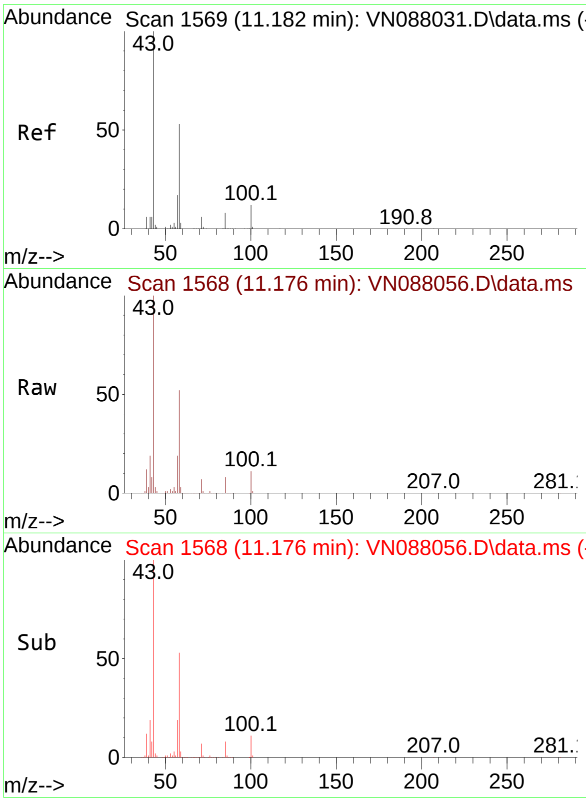

```
#57
Chlorobenzene-d5
Concen:   30.000 ug/l
RT:  11.841 min  Scan# 1
Delta R.T.   -0.006 min
Lab File:    VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion:117 Resp:  30370
Ion  Ratio  Lower  Upper
117  100
 82   58.5   45.2   67.8
119   32.0   25.9   38.9
```






```
#58
4-Methyl-2-Pentanone
Concen:   93.491 ug/l
RT:  10.424 min  Scan# 1440
Delta R.T.   -0.006 min
Lab File:    VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion: 43 Resp:  635098
Ion  Ratio  Lower  Upper
 43  100
 58   37.5   31.2   46.8
 85   16.7   13.7   20.5
```





#59
2-Hexanone
Concen: 92.491 ug/l
RT: 11.176 min Scan# 1!
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 43 Resp: 41483:

Ion	Ratio	Lower	Upper
43	100		
58	53.0	43.1	64.7
57	18.4	14.6	21.8

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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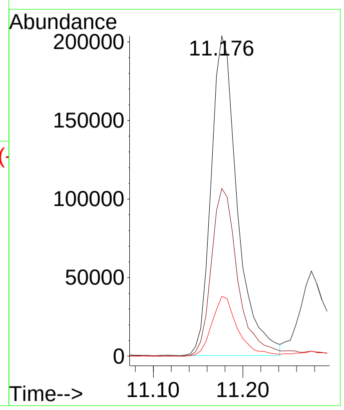
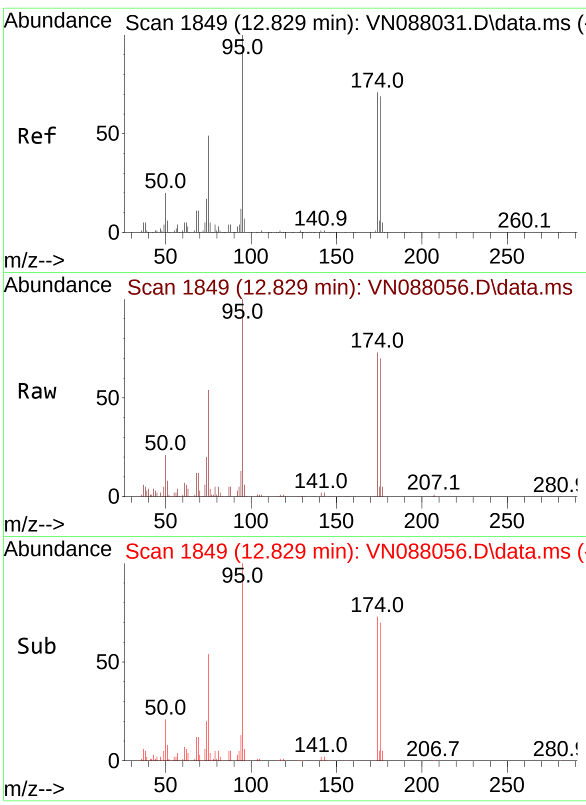
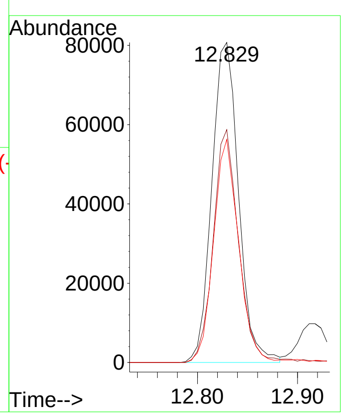


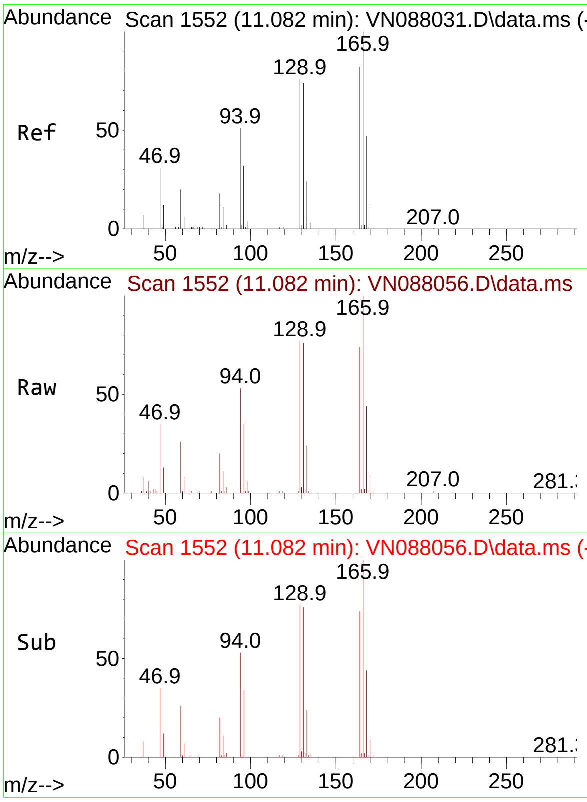


#60
4-Bromofluorobenzene
Concen: 29.941 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 95 Resp: 149905

Ion	Ratio	Lower	Upper
95	100		
174	68.5	57.4	86.0
176	65.3	57.0	85.4





#61
Tetrachloroethene
Concen: 18.197 ug/l
RT: 11.082 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Instrument : MSVOA_N
ClientSampleId : VN1017WBS01

Tgt Ion:164 Resp: 5596

Ion	Ratio	Lower	Upper
164	100		
166	135.5	97.2	145.8
129	104.5	73.7	110.5
131	103.5	71.5	107.3

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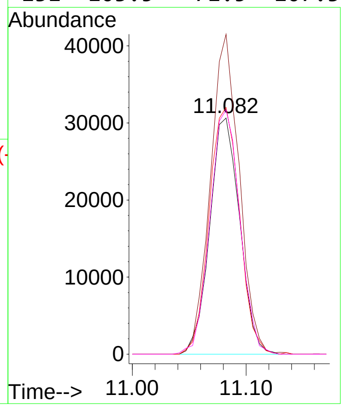
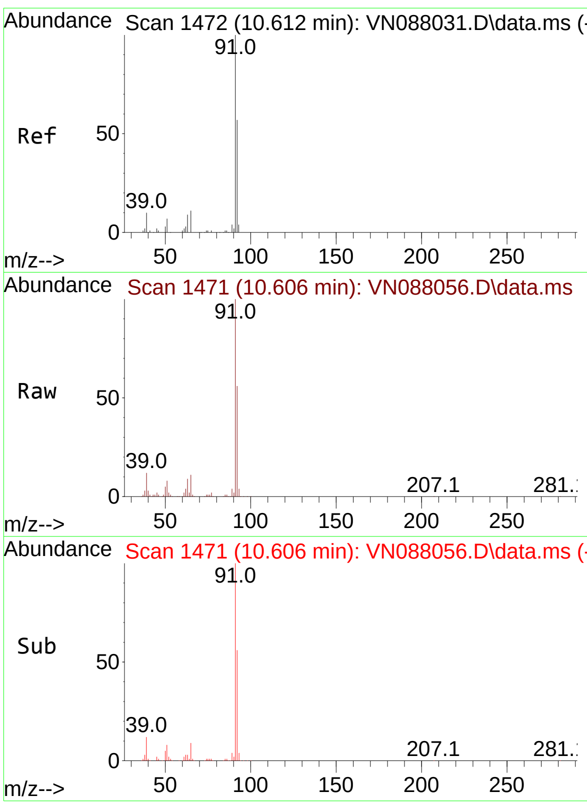
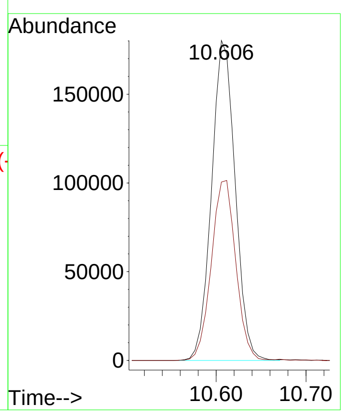




#62
Toluene
Concen: 19.140 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 91 Resp: 329738

Ion	Ratio	Lower	Upper
91	100		
92	58.2	45.8	68.8



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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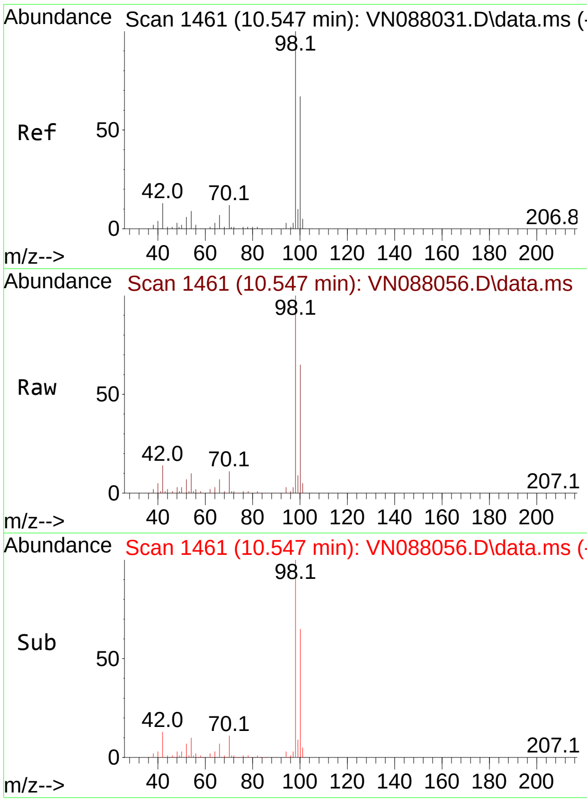
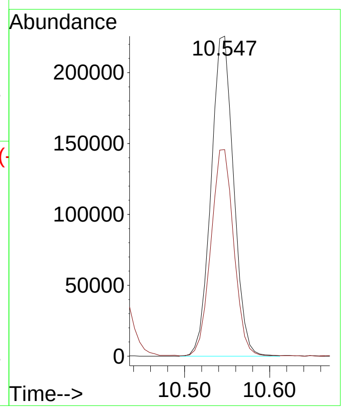
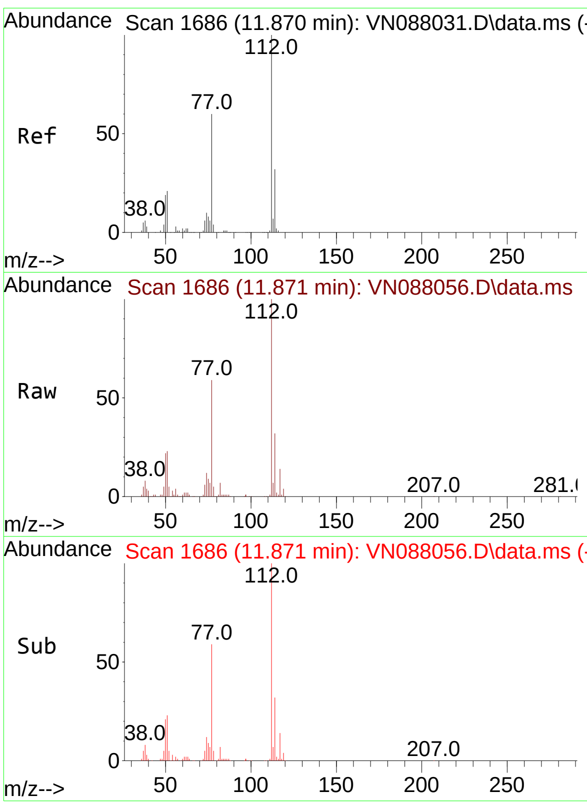
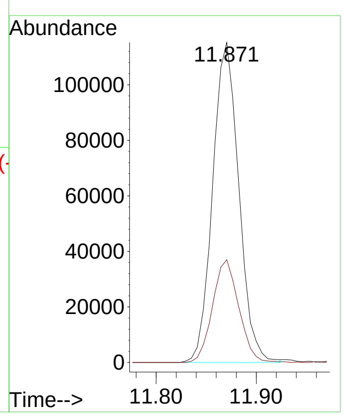



```
#63
Toluene-d8
Concen:   30.850 ug/l
RT:  10.547 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion: 98 Resp:  41744
Ion  Ratio  Lower  Upper
 98  100
100   65.1   53.1   79.7
```






```
#64
Chlorobenzene
Concen:   19.006 ug/l
RT:  11.871 min  Scan# 1686
Delta R.T.  0.000 min
Lab File:   VN088056.D
Acq: 17 Oct 2025  10:03

Tgt Ion:112 Resp:  209138
Ion  Ratio  Lower  Upper
112  100
114   32.1   25.7   38.5
```



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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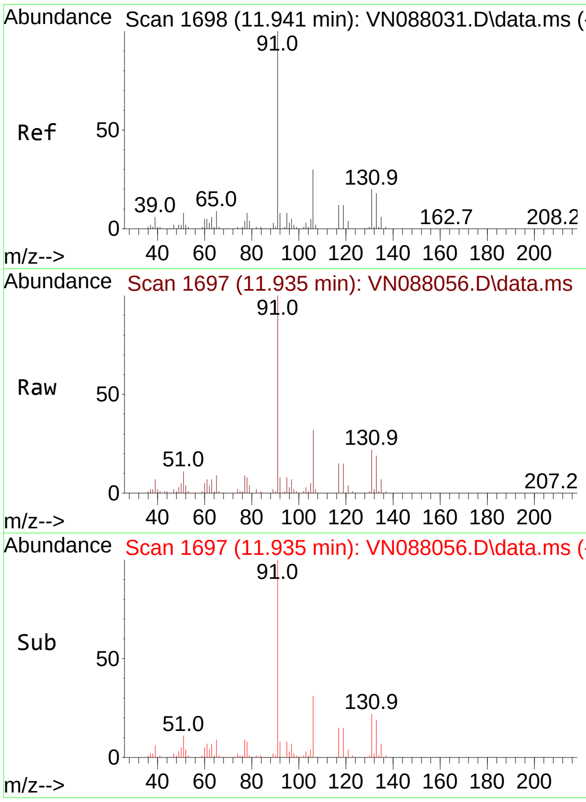
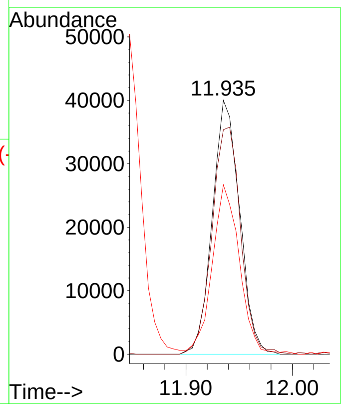
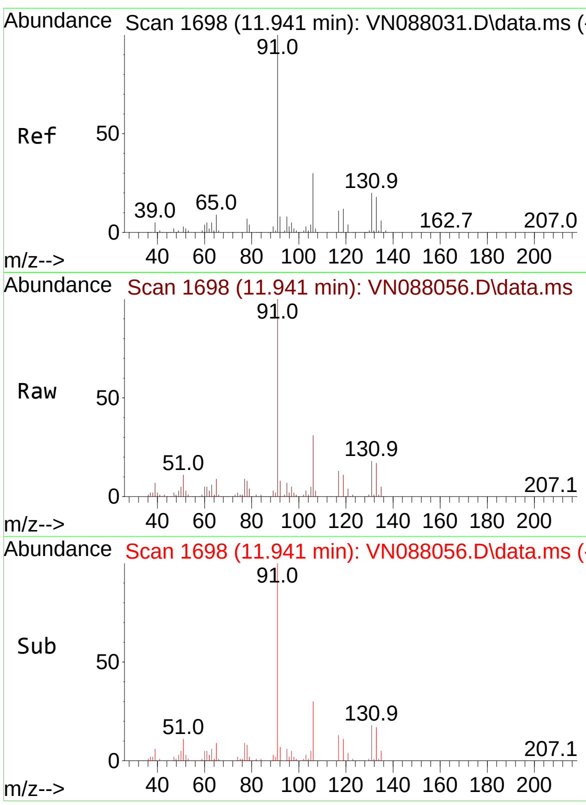


#65
1,1,1,2-Tetrachloroethane
Concen: 18.846 ug/l
RT: 11.935 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:131 Resp: 7146

Ion	Ratio	Lower	Upper
131	100		
133	94.2	0.0	183.8
119	66.3	0.0	132.0

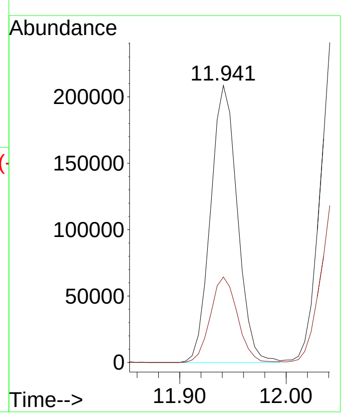




#66
Ethyl Benzene
Concen: 19.525 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 91 Resp: 365743

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.0	36.0



Instrument : MSVOA_N
ClientSampleId : VN1017WBS01

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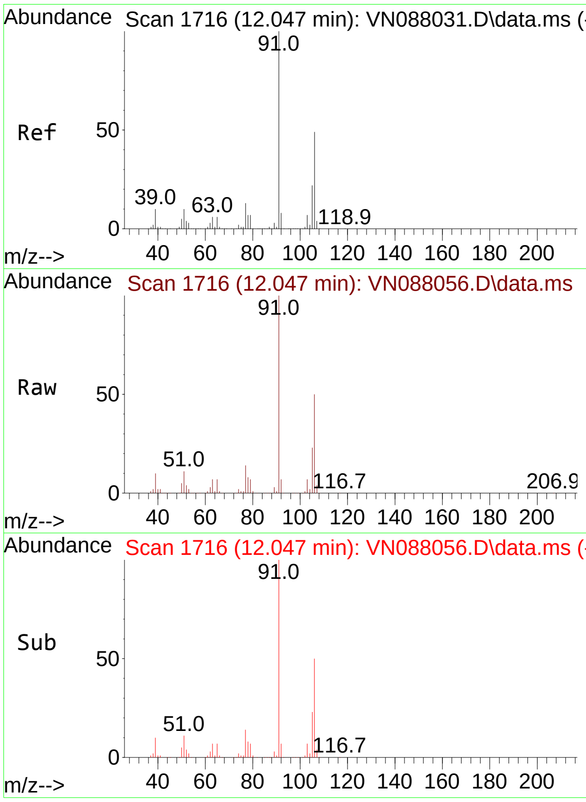
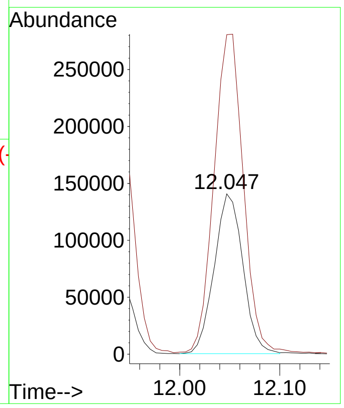
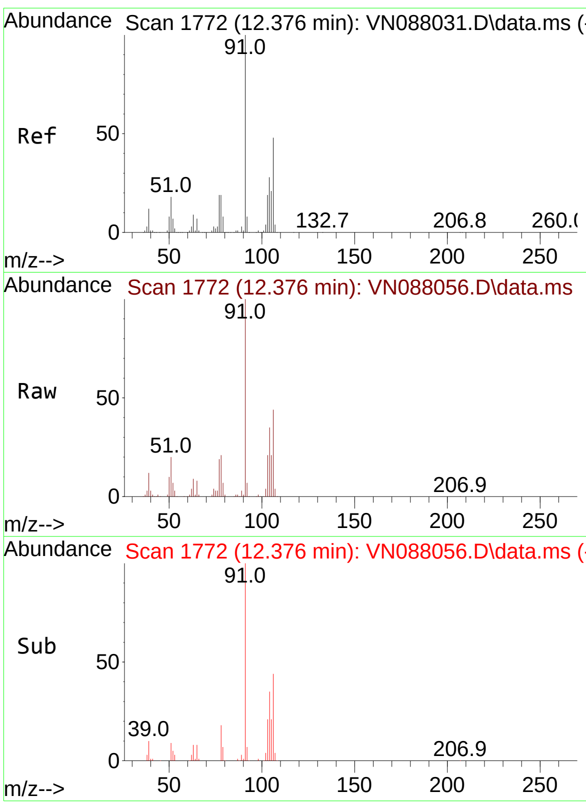


#67
m/p-Xylenes
Concen: 38.752 ug/l
RT: 12.047 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:106 Resp: 27984

Ion	Ratio	Lower	Upper
106	100		
91	206.3	161.4	242.0

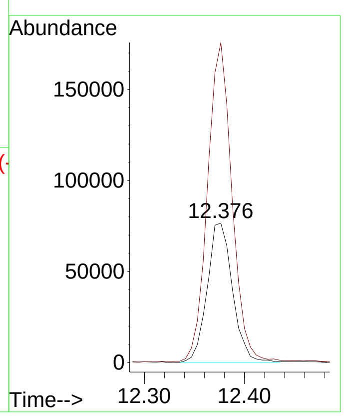




#68
o-Xylene
Concen: 18.709 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:106 Resp: 134497

Ion	Ratio	Lower	Upper
106	100		
91	219.4	105.2	315.6



Instrument :
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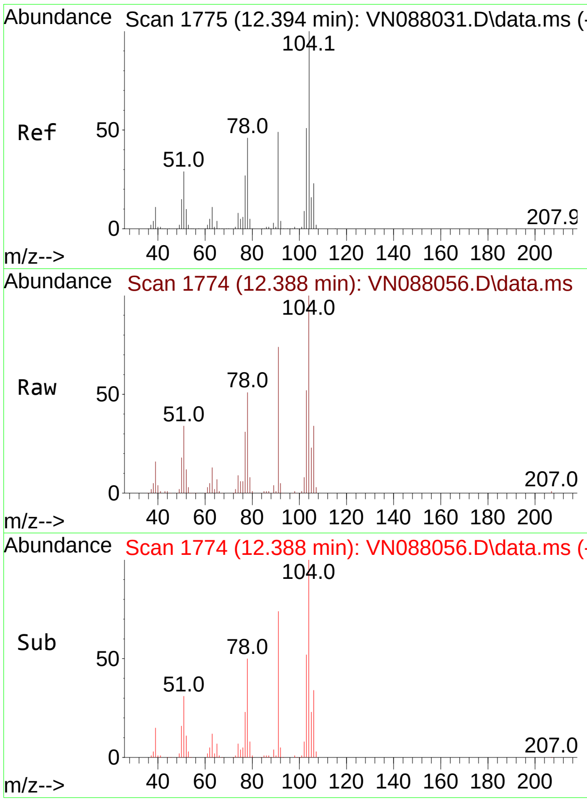
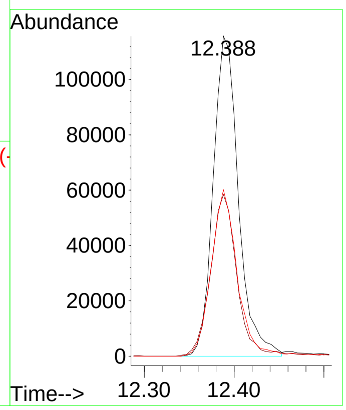
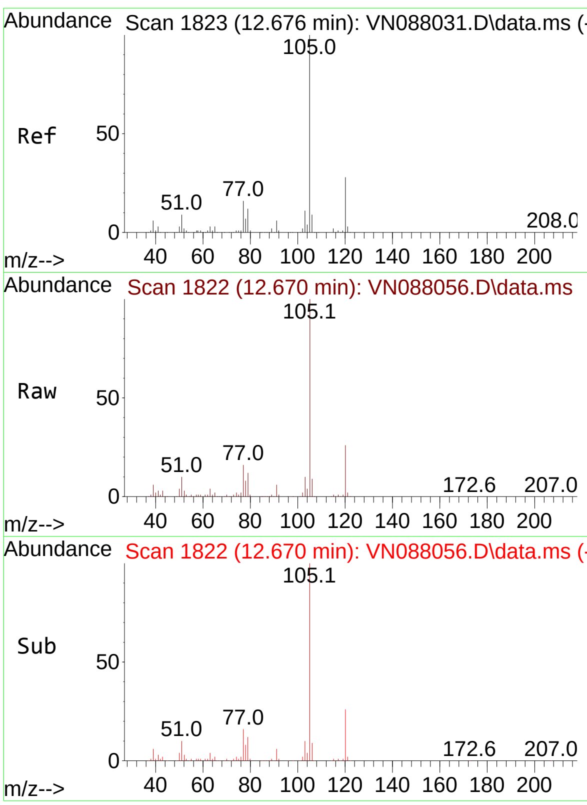
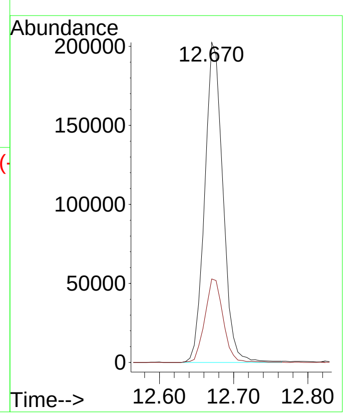


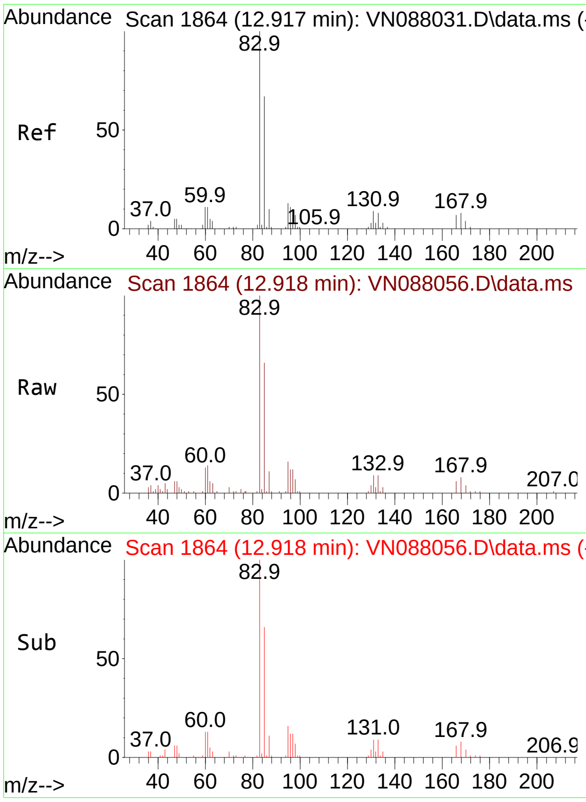

```
#69
Styrene
Concen:   18.965 ug/l
RT:  12.388 min  Scan# 1
Delta R.T.   -0.006 min
Lab File:    VN088056.D
Acq: 17 Oct 2025   10:03

Tgt Ion:104 Resp:  22552
Ion  Ratio  Lower  Upper
104  100
 78   51.8   41.8   62.6
103   53.5   44.9   67.3
```






```
#70
Isopropylbenzene
Concen:   19.650 ug/l
RT:  12.670 min  Scan# 1822
Delta R.T.   -0.006 min
Lab File:    VN088056.D
Acq: 17 Oct 2025   10:03

Tgt Ion:105 Resp:   346221
Ion  Ratio  Lower  Upper
105  100
120   26.0   19.1   35.5
```





#71
1,1,2,2-Tetrachloroethane
Concen: 18.435 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Tgt Ion: 83 Resp: 11012

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.8	14.3
85	62.7	32.4	97.2

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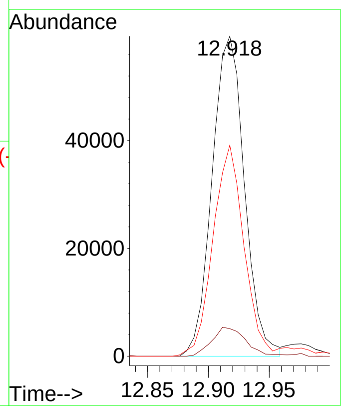
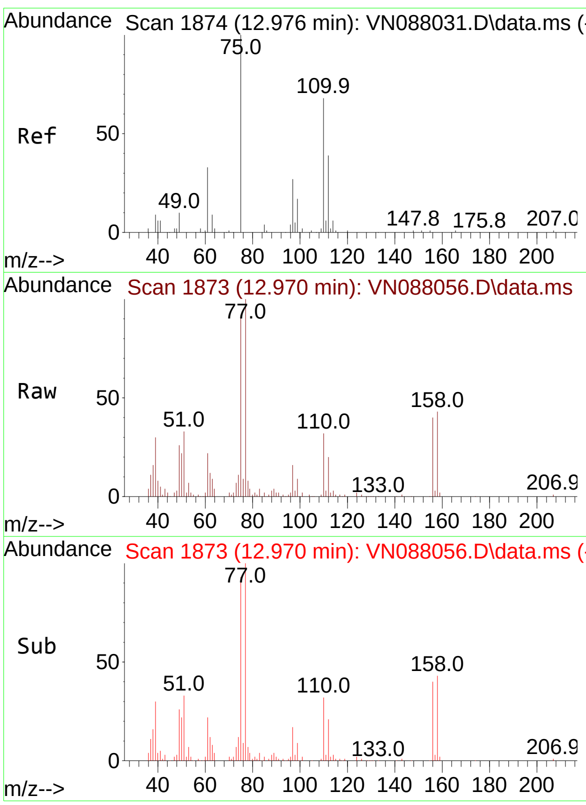
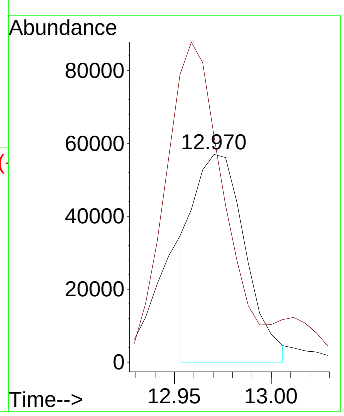


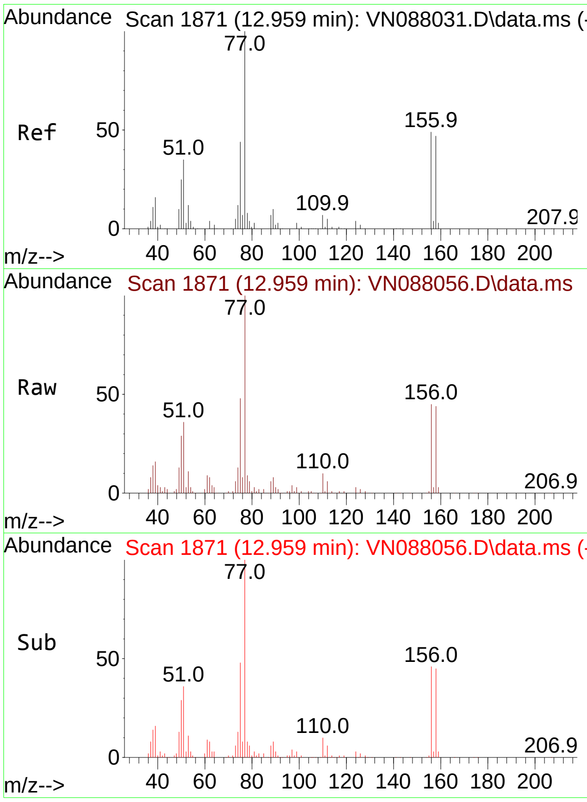


#72
1,2,3-Trichloropropane
Concen: 19.370 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 75 Resp: 107460

Ion	Ratio	Lower	Upper
75	100		
77	170.1	0.0	364.0





#73
Bromobenzene
Concen: 17.966 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Tgt Ion:156 Resp: 77370

Ion	Ratio	Lower	Upper
156	100		
77	236.3	0.0	439.8
158	97.9	0.0	190.0

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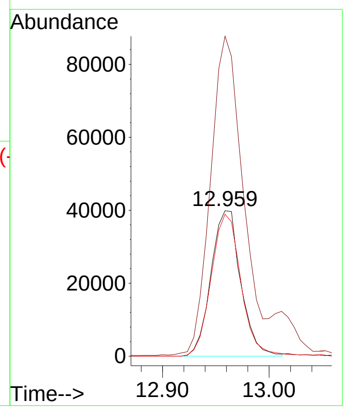
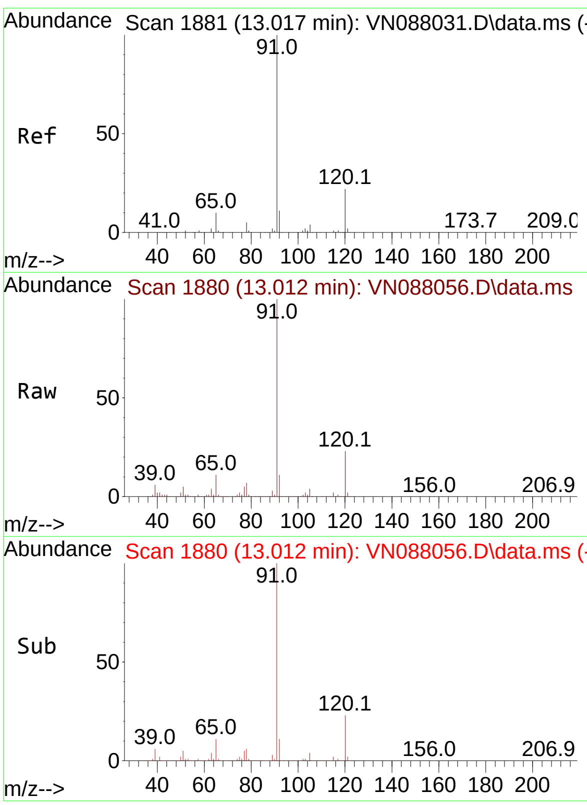
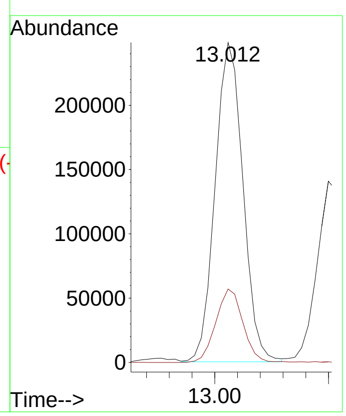


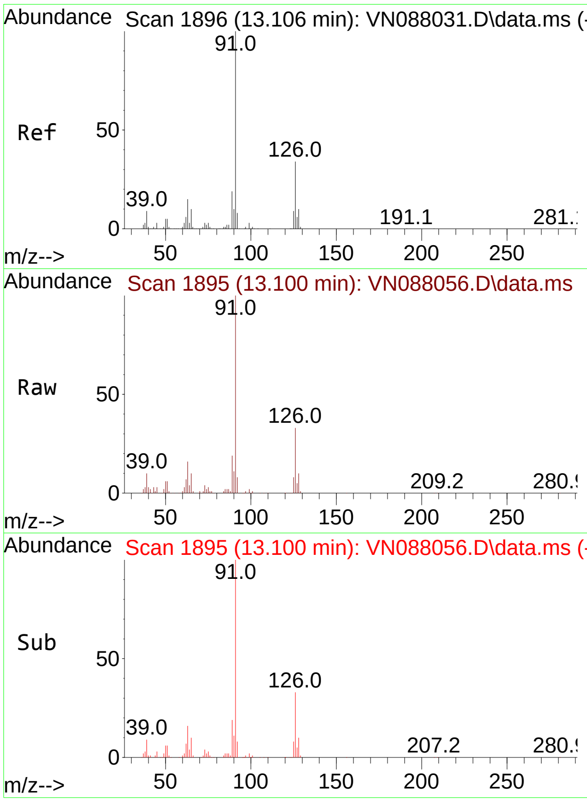


#74
n-propylbenzene
Concen: 19.823 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 91 Resp: 421634

Ion	Ratio	Lower	Upper
91	100		
120	22.3	0.0	46.2





#75
2-Chlorotoluene
Concen: 19.386 ug/l
RT: 13.100 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 91 Resp: 25212

Ion	Ratio	Lower	Upper
91	100		
126	32.7	0.0	66.6

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

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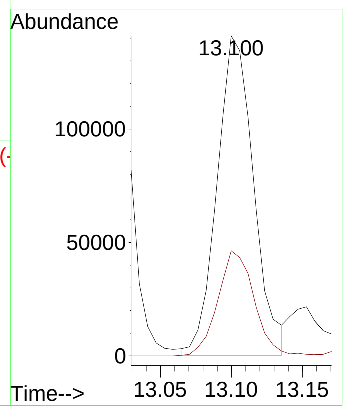
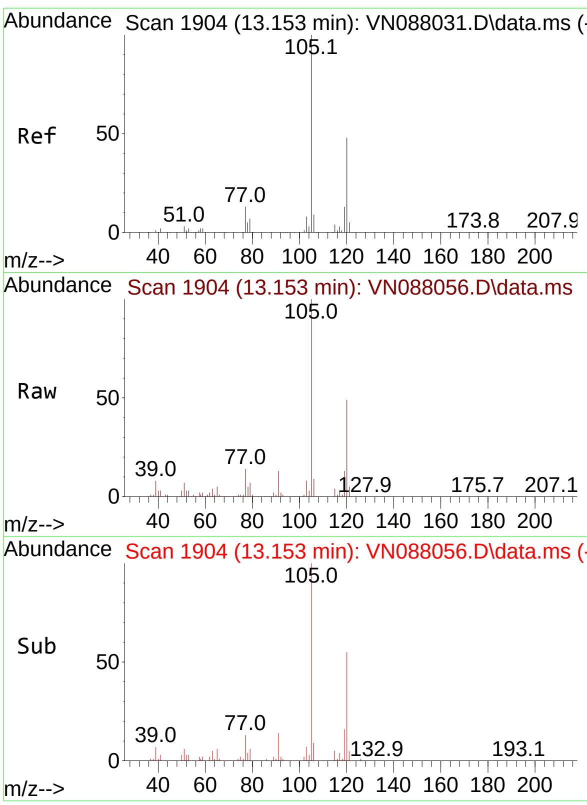
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

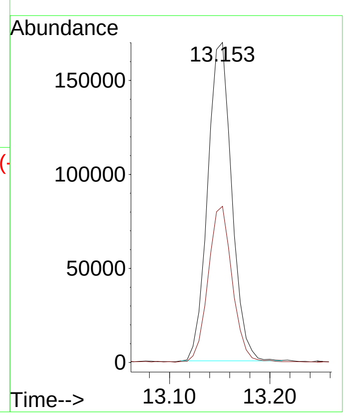




#76
1,3,5-Trimethylbenzene
Concen: 18.886 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:105 Resp: 282658

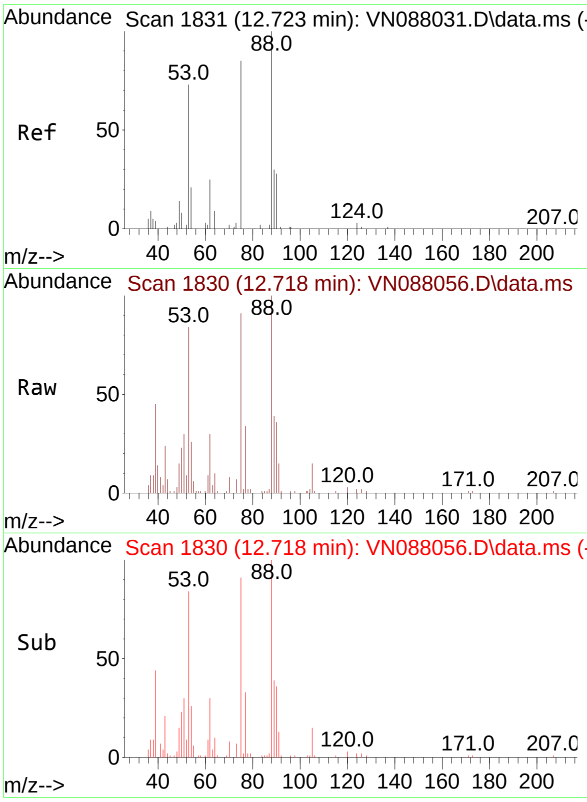
Ion	Ratio	Lower	Upper
105	100		
120	48.9	0.0	100.6



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations APPROVED

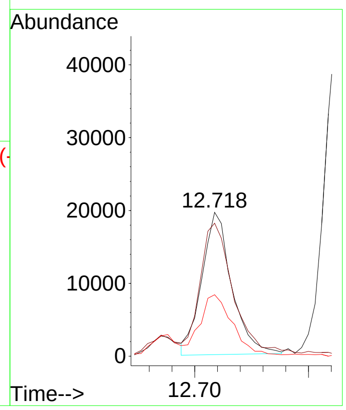
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

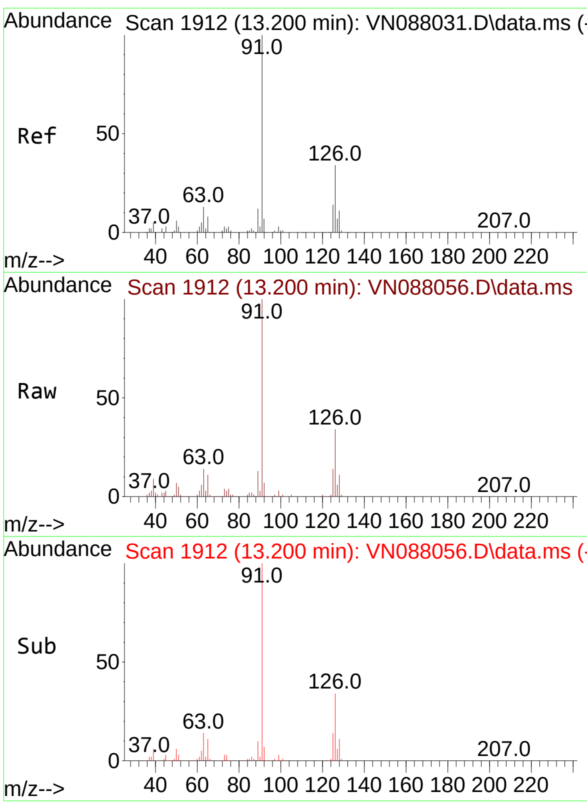


#77
t-1,4-Dichloro-2-butene
Concen: 16.161 ug/l
RT: 12.718 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 75 Resp: 3572

Ion	Ratio	Lower	Upper
75	100		
53	90.9	41.8	125.3
89	43.0	19.9	59.6

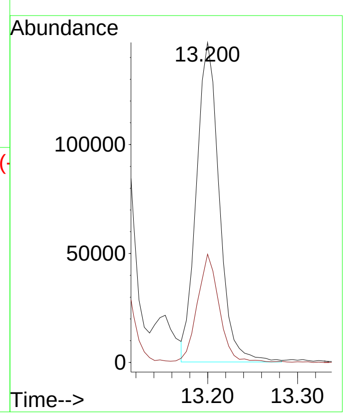


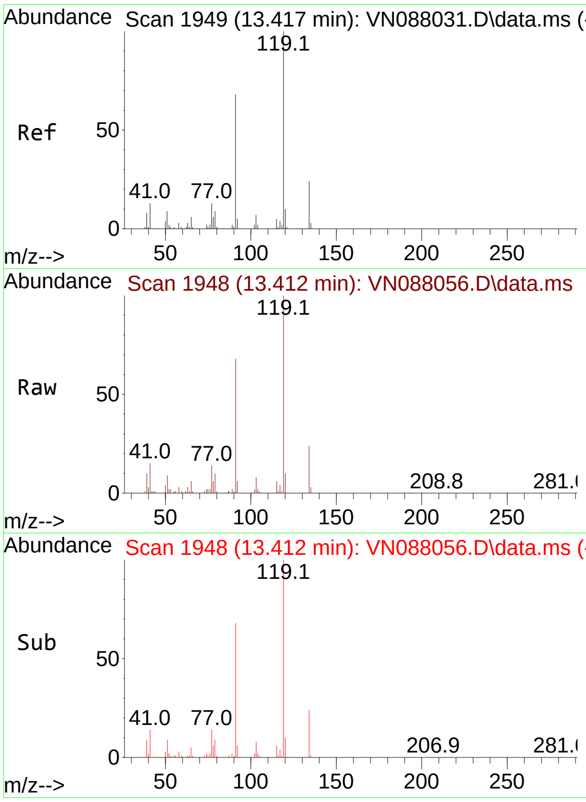


#78
4-Chlorotoluene
Concen: 19.690 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 91 Resp: 260161

Ion	Ratio	Lower	Upper
91	100		
126	32.1	0.0	68.8





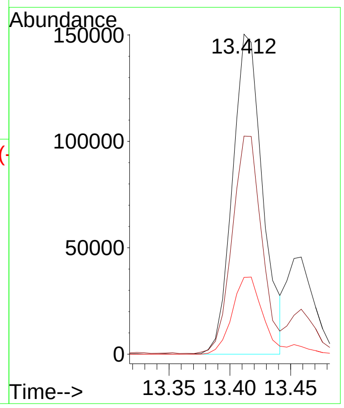
#79
tert-butylbenzene
Concen: 19.970 ug/l
RT: 13.412 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

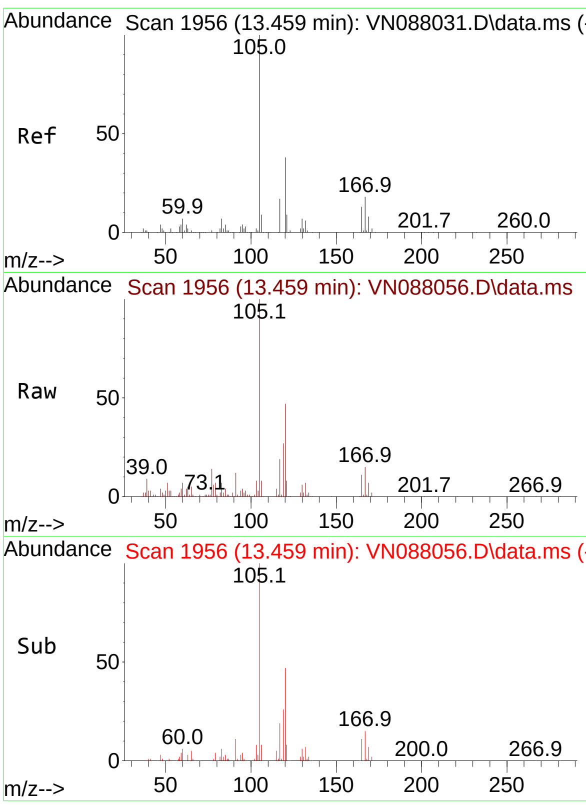
Tgt Ion:119 Resp: 25910

Ion	Ratio	Lower	Upper
119	100		
91	66.6	0.0	132.4
134	24.5	0.0	48.6

Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

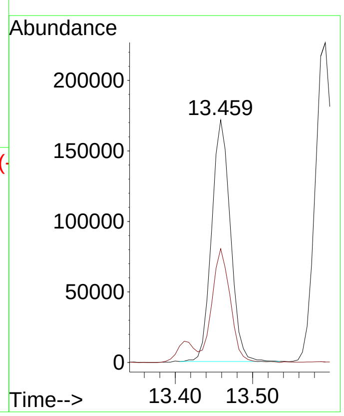


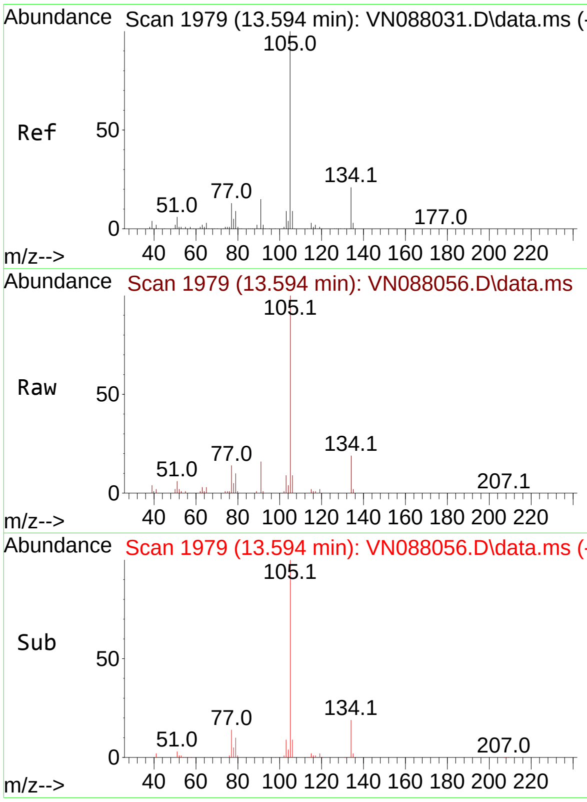


#80
1,2,4-Trimethylbenzene
Concen: 19.278 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:105 Resp: 288836

Ion	Ratio	Lower	Upper
105	100		
120	45.3	0.0	93.8





#81
sec-Butylbenzene
Concen: 20.414 ug/l
RT: 13.594 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

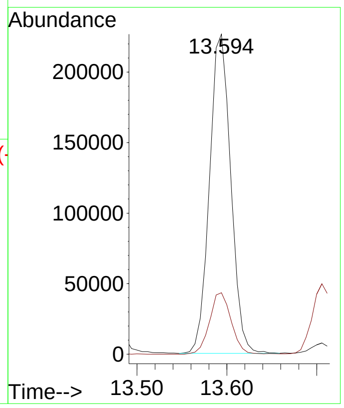
Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

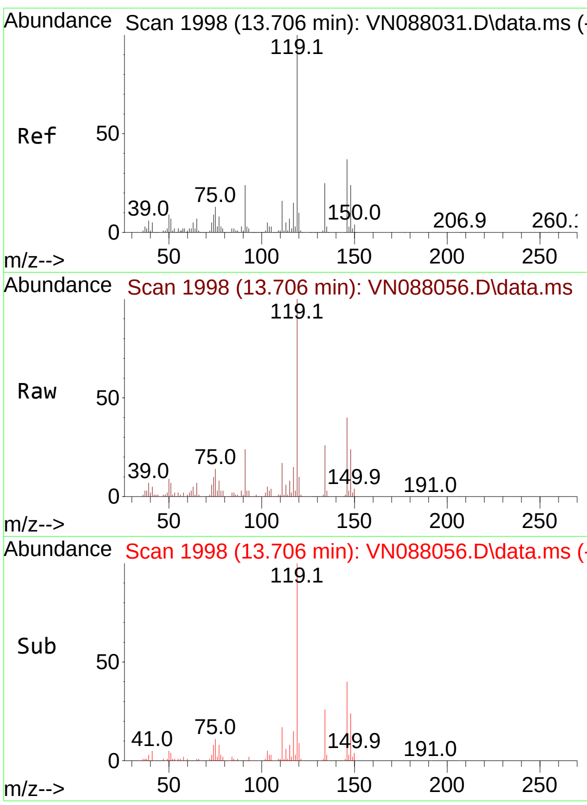
Tgt Ion:105 Resp: 372391

Ion	Ratio	Lower	Upper
105	100		
134	19.5	0.0	41.2

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

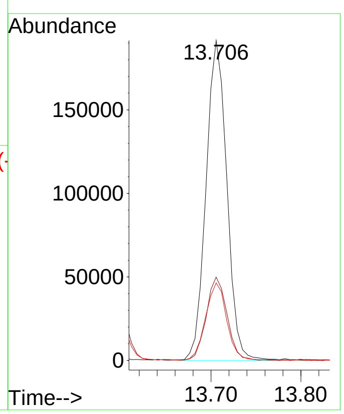


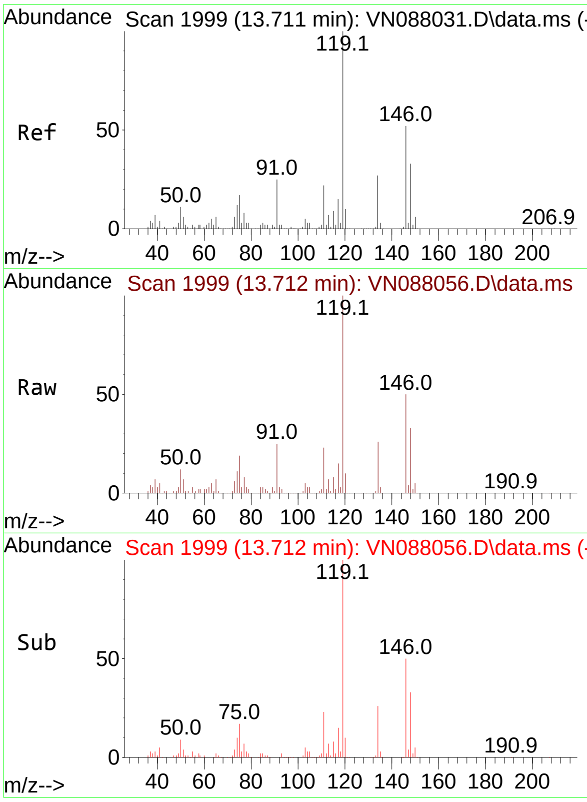


#82
p-Isopropyltoluene
Concen: 19.827 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:119 Resp: 308796

Ion	Ratio	Lower	Upper
119	100		
134	25.7	0.0	52.6
91	24.4	0.0	48.2

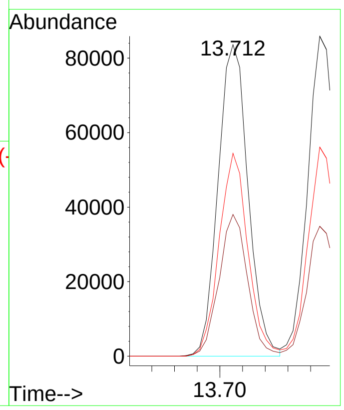




#83
1,3-Dichlorobenzene
Concen: 19.001 ug/l
RT: 13.712 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:146 Resp: 15395

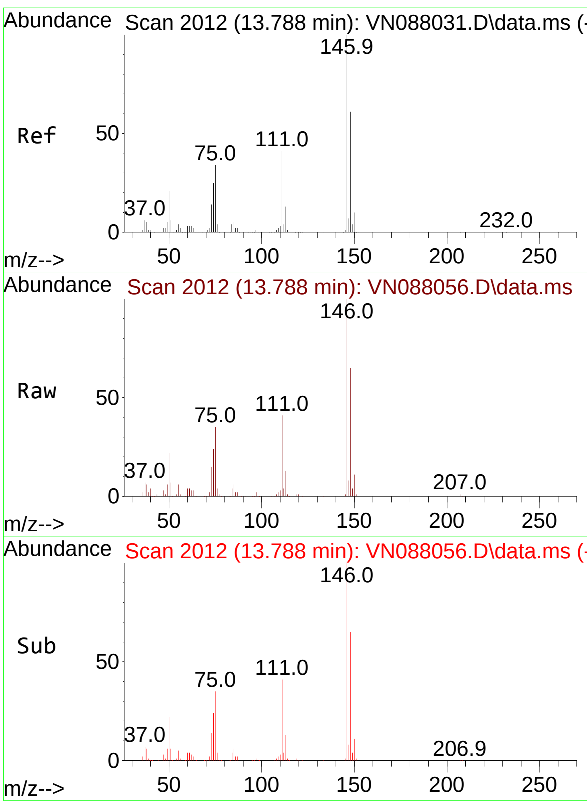
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.1	63.1
148	62.6	31.5	94.5



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations APPROVED

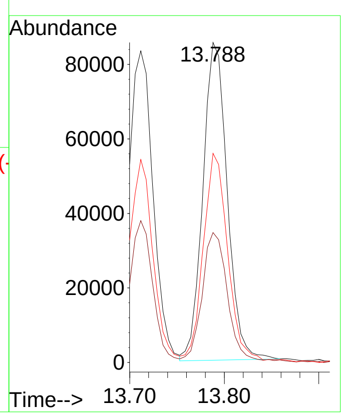
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#84
1,4-Dichlorobenzene
Concen: 18.295 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:146 Resp: 152875

Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.5	61.6
148	66.4	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations
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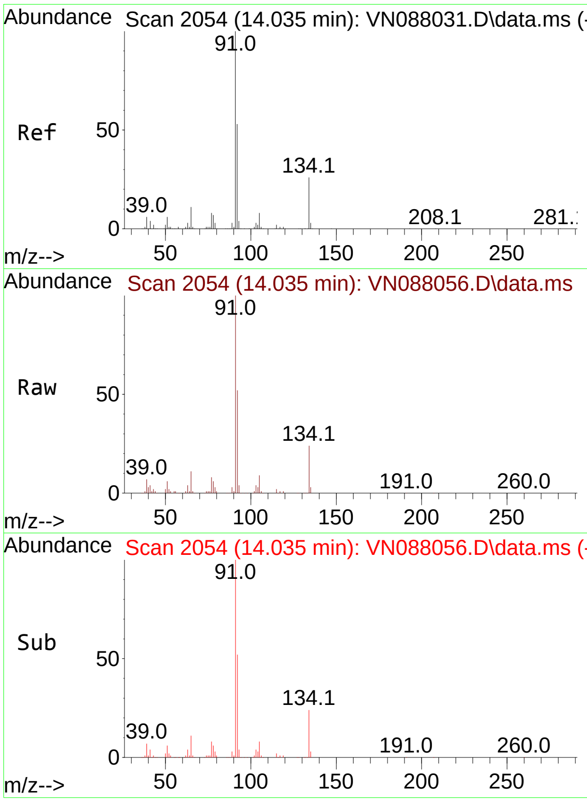
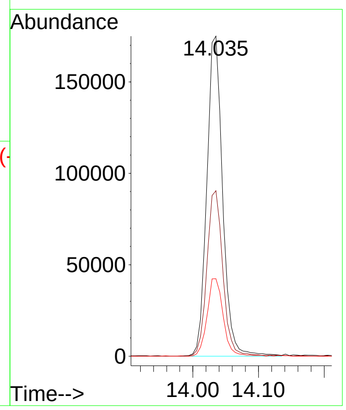
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

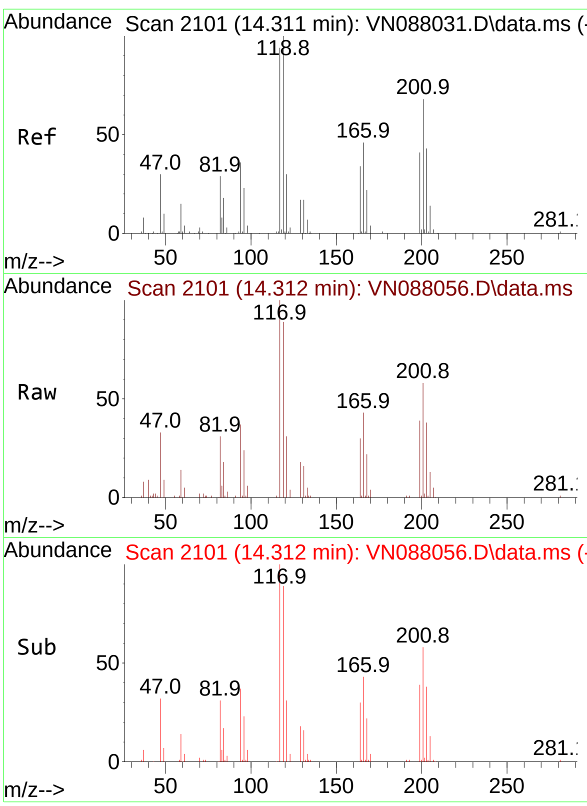


#85
n-Butylbenzene
Concen: 20.366 ug/l
RT: 14.035 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 91 Resp: 29509

Ion	Ratio	Lower	Upper
91	100		
92	51.9	0.0	107.6
134	24.4	0.0	52.6

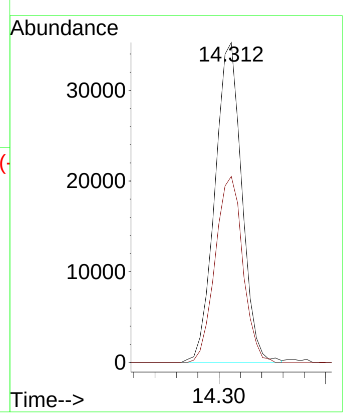


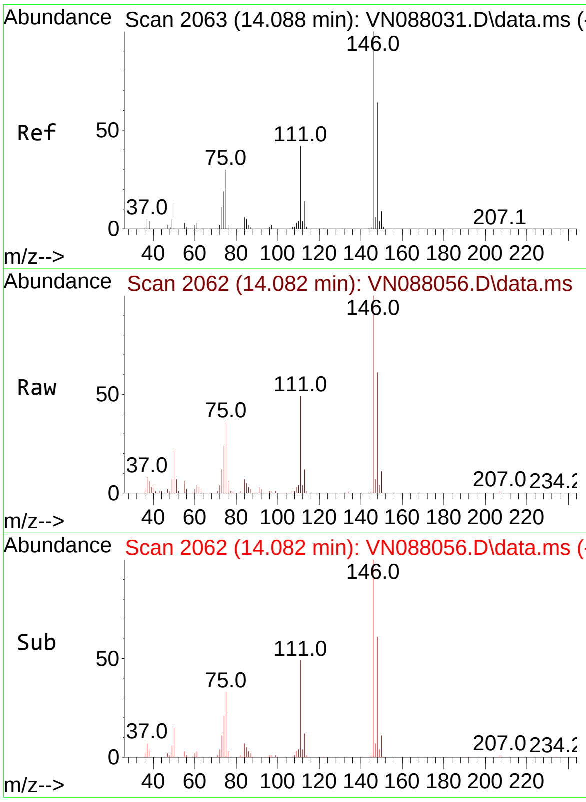


#86
Hexachloroethane
Concen: 19.828 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:117 Resp: 61862

Ion	Ratio	Lower	Upper
117	100		
201	59.7	34.8	104.3





#87
1,2-Dichlorobenzene
Concen: 18.626 ug/l
RT: 14.082 min Scan# 2(
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

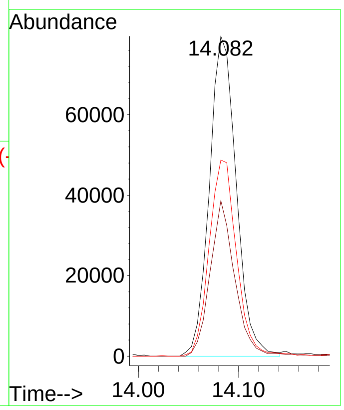
Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

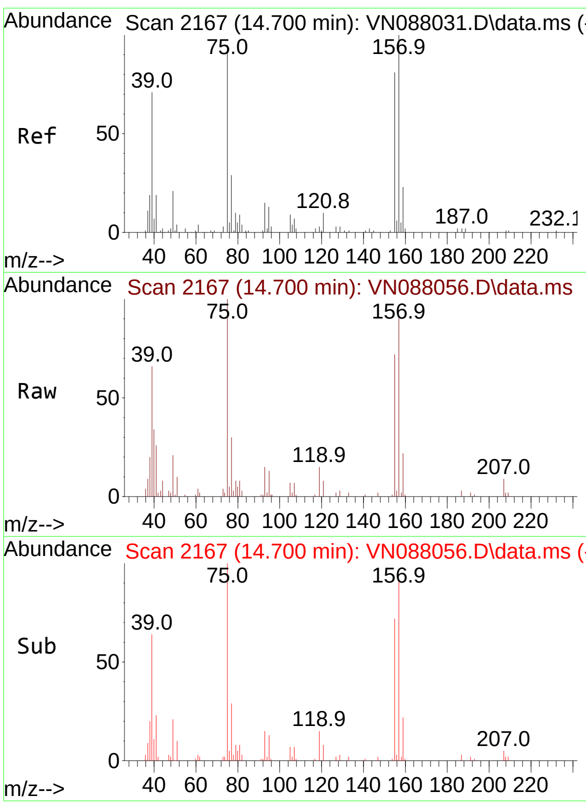
Tgt Ion:146 Resp: 14844(

Ion	Ratio	Lower	Upper
146	100		
111	44.0	22.3	66.8
148	62.5	31.4	94.3

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

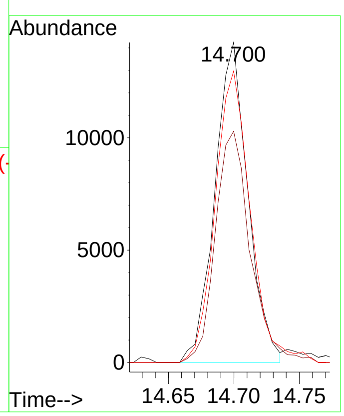




#88
1,2-Dibromo-3-Chloropropane
Concen: 18.234 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion: 75 Resp: 25015

Ion	Ratio	Lower	Upper
75	100		
155	76.8	63.5	95.3
157	96.0	81.7	122.5



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations
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Reviewed By :John Carlone 10/20/2025
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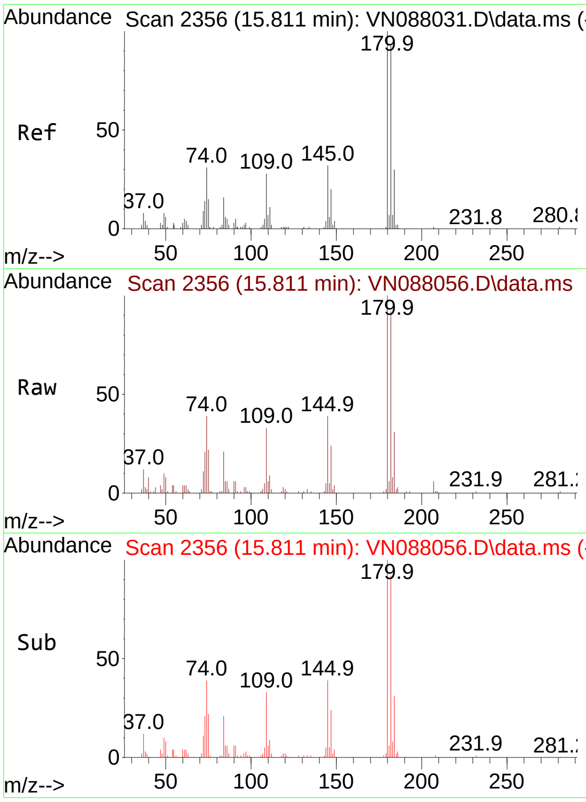
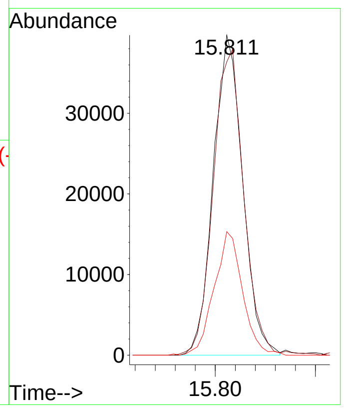
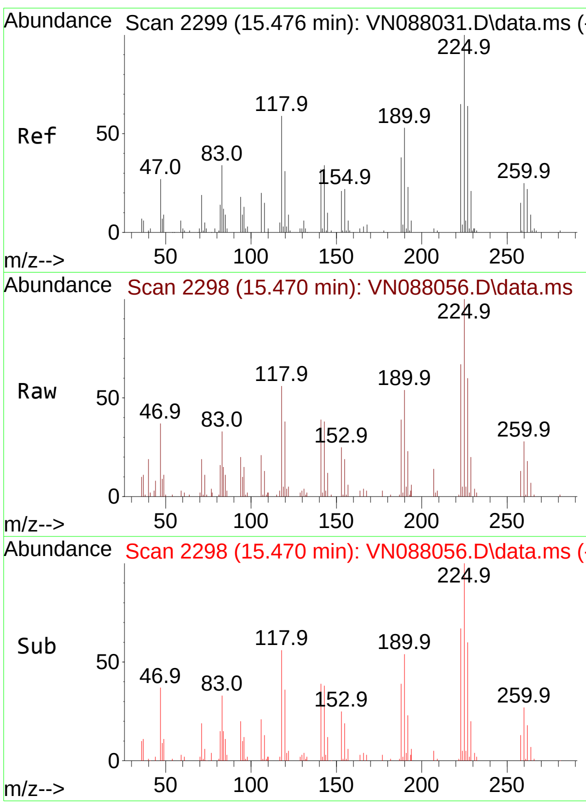


#89
1,2,4-Trichlorobenzene
Concen: 17.086 ug/l
RT: 15.811 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:180 Resp: 8110

Ion	Ratio	Lower	Upper
180	100		
182	98.4	74.6	112.0
145	37.2	27.2	40.8

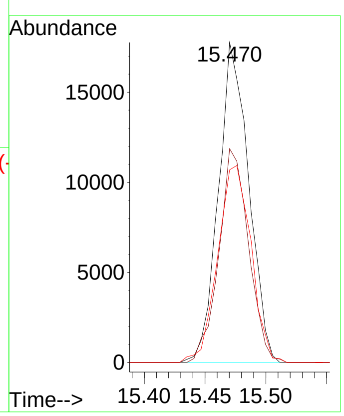




#90
Hexachlorobutadiene
Concen: 18.643 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:225 Resp: 30801

Ion	Ratio	Lower	Upper
225	100		
223	65.5	0.0	129.6
227	67.7	0.0	132.2



Instrument :
MSVOA_N
ClientSampleId :
VN1017WBS01

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
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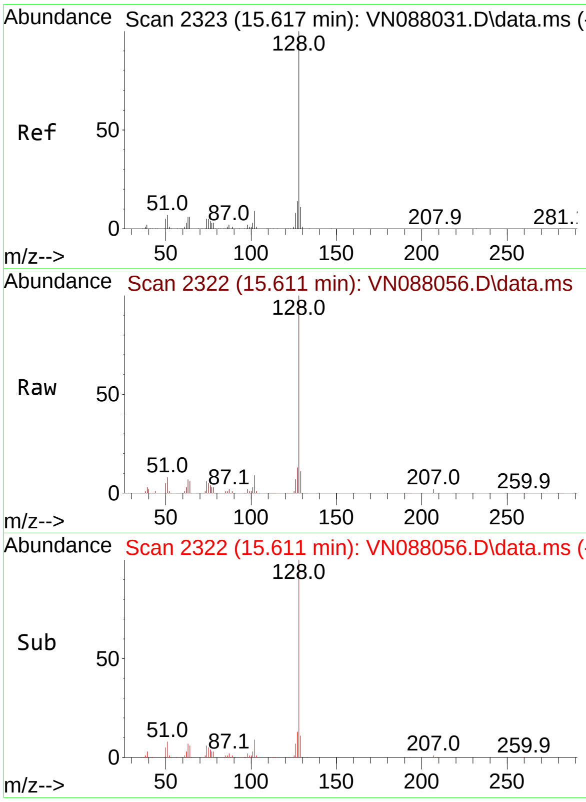
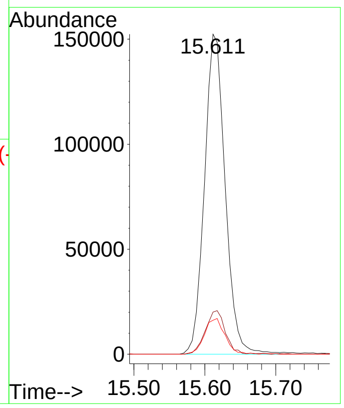
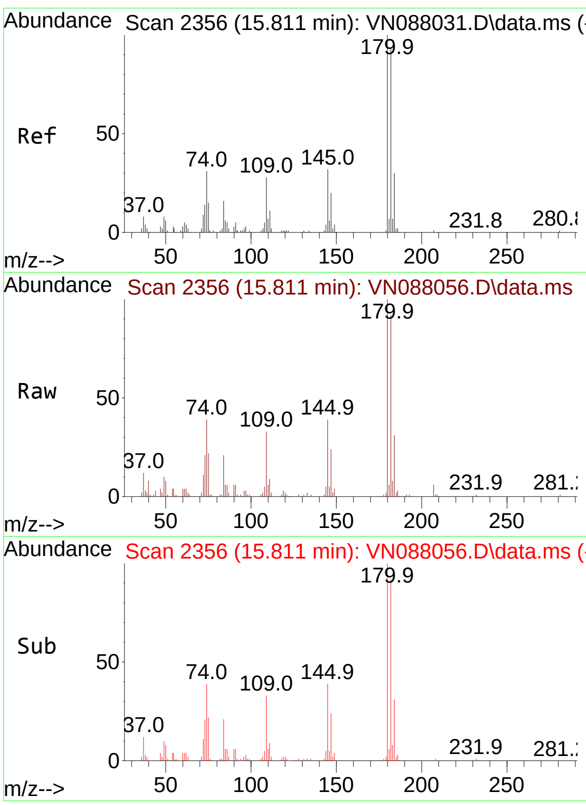


#91
Naphthalene
Concen: 17.818 ug/l
RT: 15.611 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:128 Resp: 30966

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	11.0	8.6	13.0

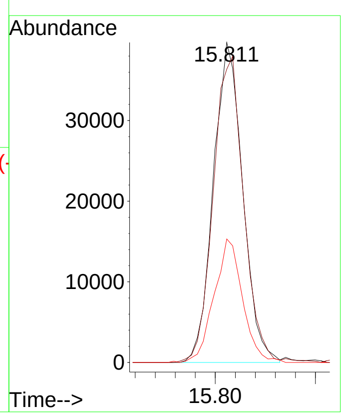




#92
1,2,3-Trichlorobenzene
Concen: 17.086 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088056.D
Acq: 17 Oct 2025 10:03

Tgt Ion:180 Resp: 81108

Ion	Ratio	Lower	Upper
180	100		
182	98.4	0.0	186.6
145	37.2	0.0	68.0



Raw Data: **VN088073.D**

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN1020WBS01			SDG No.:	Q3385
Lab Sample ID:	VN1020WBS01			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
74-87-3	Chloromethane	19.0		1	0.64	5.00	ug/L	10/20/25 09:26	VN102025
75-01-4	Vinyl Chloride	20.2		1	0.83	5.00	ug/L	10/20/25 09:26	VN102025
74-83-9	Bromomethane	22.4		1	0.80	5.00	ug/L	10/20/25 09:26	VN102025
75-00-3	Chloroethane	21.9		1	2.30	5.00	ug/L	10/20/25 09:26	VN102025
75-69-4	Trichlorofluoromethane	22.7		1	0.80	5.00	ug/L	10/20/25 09:26	VN102025
75-35-4	1,1-Dichloroethene	20.8		1	0.76	5.00	ug/L	10/20/25 09:26	VN102025
107-02-8	Acrolein	72.0		1	6.60	25.0	ug/L	10/20/25 09:26	VN102025
107-13-1	Acrylonitrile	99.1		1	2.80	25.0	ug/L	10/20/25 09:26	VN102025
75-09-2	Methylene Chloride	19.2		1	0.86	5.00	ug/L	10/20/25 09:26	VN102025
156-60-5	trans-1,2-Dichloroethene	19.7		1	0.82	5.00	ug/L	10/20/25 09:26	VN102025
75-34-3	1,1-Dichloroethane	20.2		1	0.68	5.00	ug/L	10/20/25 09:26	VN102025
56-23-5	Carbon Tetrachloride	21.5		1	0.74	5.00	ug/L	10/20/25 09:26	VN102025
67-66-3	Chloroform	19.9		1	0.55	5.00	ug/L	10/20/25 09:26	VN102025
71-55-6	1,1,1-Trichloroethane	21.2		1	0.63	5.00	ug/L	10/20/25 09:26	VN102025
71-43-2	Benzene	19.8		1	0.45	5.00	ug/L	10/20/25 09:26	VN102025
107-06-2	1,2-Dichloroethane	21.2		1	0.50	5.00	ug/L	10/20/25 09:26	VN102025
79-01-6	Trichloroethene	19.6		1	0.49	5.00	ug/L	10/20/25 09:26	VN102025
78-87-5	1,2-Dichloropropane	20.2		1	0.46	5.00	ug/L	10/20/25 09:26	VN102025
75-27-4	Bromodichloromethane	20.4		1	0.64	5.00	ug/L	10/20/25 09:26	VN102025
108-88-3	Toluene	20.0		1	0.46	5.00	ug/L	10/20/25 09:26	VN102025
10061-02-6	t-1,3-Dichloropropene	19.7		1	0.72	5.00	ug/L	10/20/25 09:26	VN102025
10061-01-5	cis-1,3-Dichloropropene	19.2		1	0.67	5.00	ug/L	10/20/25 09:26	VN102025
79-00-5	1,1,2-Trichloroethane	20.0		1	0.45	5.00	ug/L	10/20/25 09:26	VN102025
110-75-8	2-Chloroethyl vinyl ether	99.4		1	4.60	25.0	ug/L	10/20/25 09:26	VN102025
124-48-1	Dibromochloromethane	19.4		1	0.66	5.00	ug/L	10/20/25 09:26	VN102025
127-18-4	Tetrachloroethene	19.4		1	0.84	5.00	ug/L	10/20/25 09:26	VN102025
108-90-7	Chlorobenzene	19.6		1	0.47	5.00	ug/L	10/20/25 09:26	VN102025
100-41-4	Ethyl Benzene	20.3		1	0.56	5.00	ug/L	10/20/25 09:26	VN102025
179601-23-1	m/p-Xylenes	39.9		1	1.30	10.0	ug/L	10/20/25 09:26	VN102025
95-47-6	o-Xylene	19.4		1	0.67	5.00	ug/L	10/20/25 09:26	VN102025
75-25-2	Bromoform	18.1		1	0.94	5.00	ug/L	10/20/25 09:26	VN102025
79-34-5	1,1,2,2-Tetrachloroethane	20.2		1	0.44	5.00	ug/L	10/20/25 09:26	VN102025
541-73-1	1,3-Dichlorobenzene	19.3		1	0.67	5.00	ug/L	10/20/25 09:26	VN102025
106-46-7	1,4-Dichlorobenzene	19.6		1	0.81	5.00	ug/L	10/20/25 09:26	VN102025
95-50-1	1,2-Dichlorobenzene	19.1		1	0.67	5.00	ug/L	10/20/25 09:26	VN102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	32.3			91 - 110	108%	SPK: 30		
2037-26-5	Toluene-d8	30.9			91 - 112	103%	SPK: 30		
460-00-4	4-Bromofluorobenzene	30.4			63 - 112	101%	SPK: 30		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	62300							
540-36-3	1,4-Difluorobenzene	343000							
3114-55-4	Chlorobenzene-d5	305000							

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN1020WBS01			SDG No.:	Q3385
Lab Sample ID:	VN1020WBS01			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID

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

Quantitation Report (QT Reviewed)

Sample Results: **VN088073.D**

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088073.D
Acq On    : 20 Oct 2025  09:26
Operator  : JC\MD
Sample    : VN1020WBS01
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Oct 21 05:35:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title  : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration
```

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt
10/21/2025

```
       Compound                     R.T. QIon  Response  Conc Units Dev(Min)
----------------------------------------------------------------------------
 Internal Standards
   1) Bromochloromethane           7.800  128     62285    30.000 ug/l     0.00
  28) 1,4-Difluorobenzene          9.082  114    343376    30.000 ug/l     0.00
  57) Chlorobenzene-d5            11.847  117    304684    30.000 ug/l     0.00

 System Monitoring Compounds
  27) 1,2-Dichloroethane-d4        8.559   65    156635    32.296 ug/l    0.00
   Spiked Amount     30.000   Range  91 - 110    Recovery    =  107.667%
  60) 4-Bromofluorobenzene        12.829   95    152913    30.443 ug/l    0.00
   Spiked Amount     30.000   Range  63 - 112    Recovery    =  101.467%
  63) Toluene-d8                  10.547   98    420133    30.949 ug/l    0.00
   Spiked Amount     30.000   Range  91 - 112    Recovery    =  103.167%

 Target Compounds                                                    Qvalue
   2) Dichlorodifluoromethane      2.142   85     77653    21.767 ug/l      92
   3) Chloromethane                2.383   50     76792    18.986 ug/l      95
   4) Vinyl Chloride               2.536   62     85262    20.217 ug/l      97
   5) Bromomethane                 2.983   94     50875    22.434 ug/l      98
   6) Chloroethane                 3.136   64     60988    21.923 ug/l      95
   7) Trichlorofluoromethane       3.512  101    130211    22.705 ug/l      99
   8) Diethyl Ether                3.959   74     49392    19.061 ug/l      97
   9) 1,1,2-Trichlorotrifluo...    4.365  101     67557    22.006 ug/l      96
  10) 1,1-Dichloroethene           4.342   96     68131    20.804 ug/l      95
  11) Methyl Iodide                4.589  142     52620    17.434 ug/l      93
  12) Methyl Acetate               5.018   43    116619    21.905 ug/l      93
  13) Acrolein                     4.183   56     59308    71.986 ug/l #     4
  14) Acrylonitrile                5.706   53    254622    99.104 ug/l     100
  15) Acetone                      4.424   58     67752    90.045 ug/l      87
  16) Carbon Disulfide             4.706   76    202681    19.743 ug/l      96
  17) Allyl chloride               5.018   41    118111    19.113 ug/l      95
  18) Methylene Chloride           5.265   84     79795    19.171 ug/l      96
  19) trans-1,2-Dichloroethene     5.777   96     74543    19.687 ug/l      89
  20) Diisopropyl ether            6.659   45    279278    19.851 ug/l      99
  21) 1,1-Dichloroethane           6.553   63    147591    20.152 ug/l      97
  22) cis-1,2-Dichloroethene       7.471   96     91891    19.387 ug/l      96
  23) tert-Butyl Alcohol           5.518   59     95731    92.904 ug/l #   100
  24) Methyl tert-Butyl Ether      5.783   73    275566    19.494 ug/l #    78
  25) Chloroform                   7.947   83    150557    19.921 ug/l      97
  26) Cyclohexane                  8.241   56    125784    20.729 ug/l #    95
  29) 1,1-Dichloropropene          8.353   75    104611    21.254 ug/l      97
  30) 2-Butanone                   7.471   43    362293    99.803 ug/l      98
  31) 2,2-Dichloropropane          7.471   77    134132    21.150 ug/l      98
  32) 1,1,1-Trichloroethane        8.147   97    130492    21.218 ug/l      98
  33) Carbon Tetrachloride         8.341  117    110825    21.513 ug/l      98
  34) Benzene                      8.588   78    323530    19.817 ug/l      98
  35) Methacrylonitrile            7.765   41     79995    20.956 ug/l      98
  36) 1,2-Dichloroethane           8.653   62    120255    21.218 ug/l      97
  37) Trichloroethene              9.329  130     75973    19.642 ug/l      97
  38) Methylcyclohexane            9.577   83    126136    20.752 ug/l      96
  39) 1,2-Dichloropropane          9.600   63     82623    20.184 ug/l     100
  40) Dibromomethane               9.688   93     61481    20.633 ug/l      94
  41) Bromodichloromethane         9.865   83    124256    20.418 ug/l      98
  42) Vinyl Acetate                6.588   43   1170698    94.666 ug/l      98
```

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088073.D
Acq On : 20 Oct 2025 09:26
Operator : JC\MD
Sample : VN1020WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt
10/21/2025

Quant Time: Oct 21 05:35:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	139785	20.032	ug/l	98
44) Isopropyl Acetate	8.671	43	224369	19.686	ug/l	98
45) 1,4-Dioxane	9.677	88	29977	395.465	ug/l #	94
46) Methyl methacrylate	9.665	41	104697	20.859	ug/l	94
47) n-amyl Acetate	12.576	43	113335m	20.980	ug/l	
48) t-1,3-Dichloropropene	10.812	75	133458	19.721	ug/l	98
49) cis-1,3-Dichloropropene	10.288	75	135218	19.155	ug/l	92
50) 1,1,2-Trichloroethane	10.994	97	78759	19.959	ug/l	95
51) Ethyl methacrylate	10.859	69	129959	19.460	ug/l	98
52) 1,3-Dichloropropane	11.141	76	137735	20.006	ug/l	100
53) Dibromochloromethane	11.335	129	91345	19.363	ug/l	100
54) 1,2-Dibromoethane	11.447	107	80700	19.129	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	358393	99.423	ug/l	98
56) Bromoform	12.559	173	57617	18.065	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	689865	101.227	ug/l	98
59) 2-Hexanone	11.176	43	439800	97.743	ug/l	98
61) Tetrachloroethene	11.082	164	59740	19.362	ug/l	95
62) Toluene	10.606	91	346319	20.038	ug/l	100
64) Chlorobenzene	11.871	112	216235	19.588	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	76374	20.076	ug/l	99
66) Ethyl Benzene	11.941	91	382033	20.329	ug/l	98
67) m/p-Xylenes	12.047	106	288899	39.877	ug/l	97
68) o-Xylene	12.376	106	139692	19.369	ug/l	96
69) Styrene	12.394	104	235197	19.714	ug/l	99
70) Isopropylbenzene	12.676	105	361962	20.478	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	120825	20.162	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	100533m	18.063	ug/l	
73) Bromobenzene	12.959	156	79169	18.325	ug/l	88
74) n-propylbenzene	13.012	91	445643	20.885	ug/l	97
75) 2-Chlorotoluene	13.106	91	263437	20.191	ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	306719	20.428	ug/l	96
77) t-1,4-Dichloro-2-butene	12.718	75	40290	18.165	ug/l	95
78) 4-Chlorotoluene	13.200	91	266609	20.113	ug/l	98
79) tert-butylbenzene	13.417	119	268223	20.607	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	302874	20.150	ug/l	97
81) sec-Butylbenzene	13.594	105	391552	21.395	ug/l	97
82) p-Isopropyltoluene	13.706	119	329248	21.072	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	157162	19.334	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	163893	19.550	ug/l	99
85) n-Butylbenzene	14.035	91	316165	21.750	ug/l	97
86) Hexachloroethane	14.312	117	66588	21.274	ug/l	85
87) 1,2-Dichlorobenzene	14.088	146	152656	19.093	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	29509	21.440	ug/l	87
89) 1,2,4-Trichlorobenzene	15.811	180	87549	18.383	ug/l	98
90) Hexachlorobutadiene	15.470	225	33672	20.315	ug/l	95
91) Naphthalene	15.617	128	326635	18.734	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	87549	18.383	ug/l	98

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

Quantitation Report (QT Reviewed)

Sample Results: VN088073.D

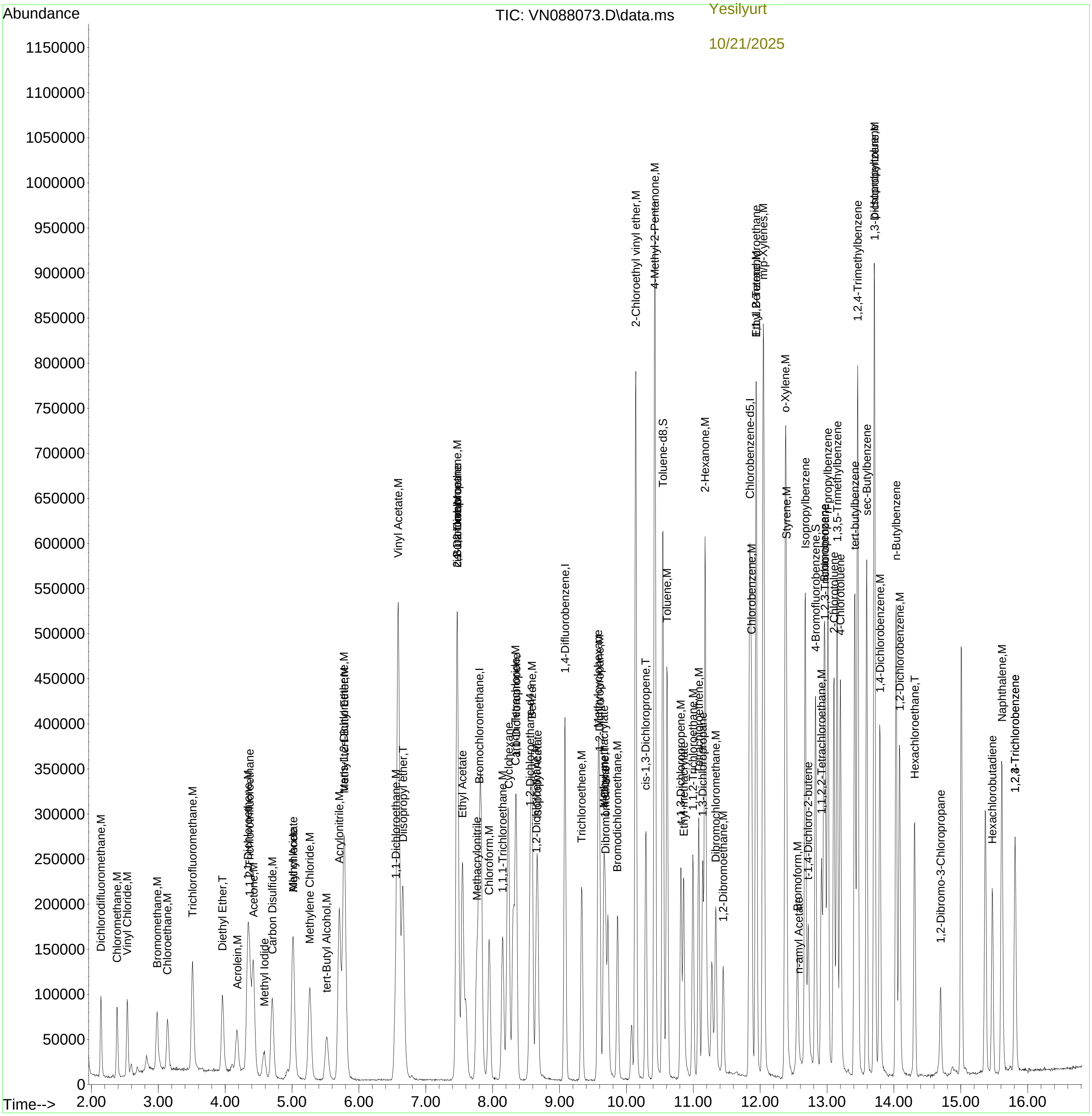
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
Data File : VN088073.D
Acq On : 20 Oct 2025 09:26
Operator : JC\MD
Sample : VN1020WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 05:35:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt
10/21/2025

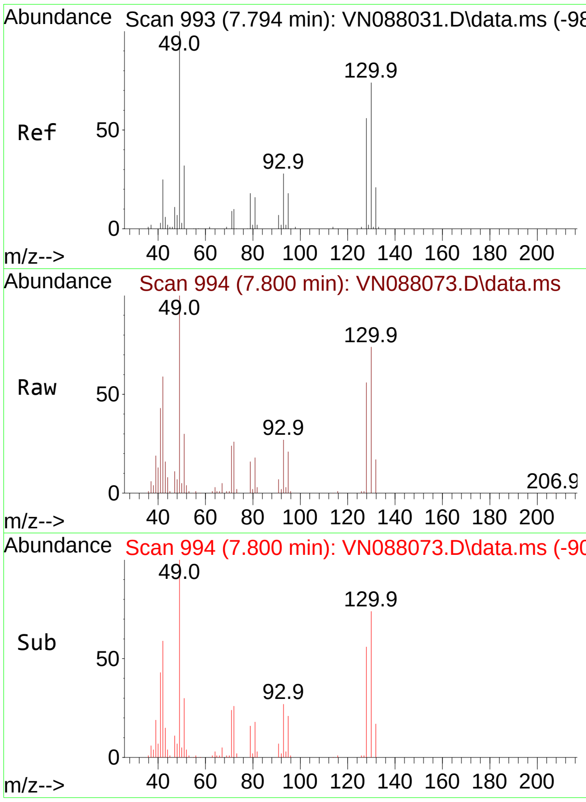


Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

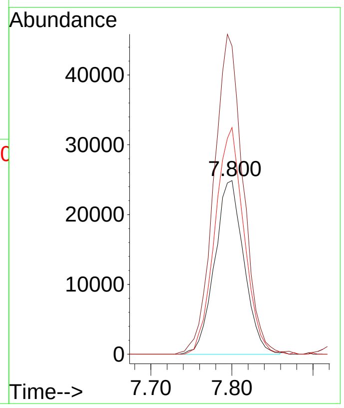
10/21/2025

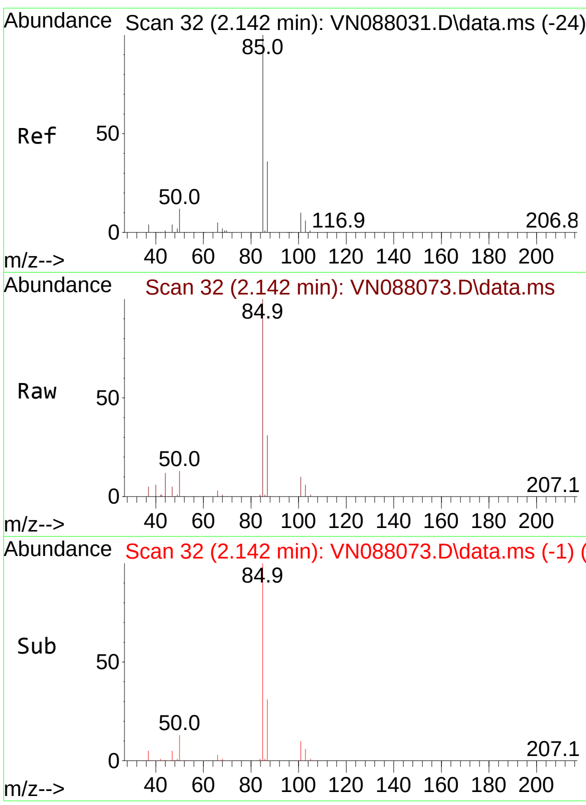


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:128 Resp: 6228

Ion	Ratio	Lower	Upper
128	100		
49	184.7	0.0	439.8
130	130.1	0.0	325.8

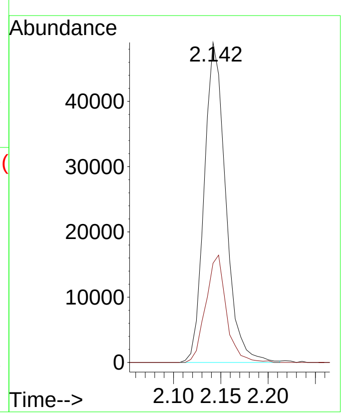




#2
Dichlorodifluoromethane
Concen: 21.767 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 85 Resp: 77653

Ion	Ratio	Lower	Upper
85	100		
87	31.0	17.9	53.8

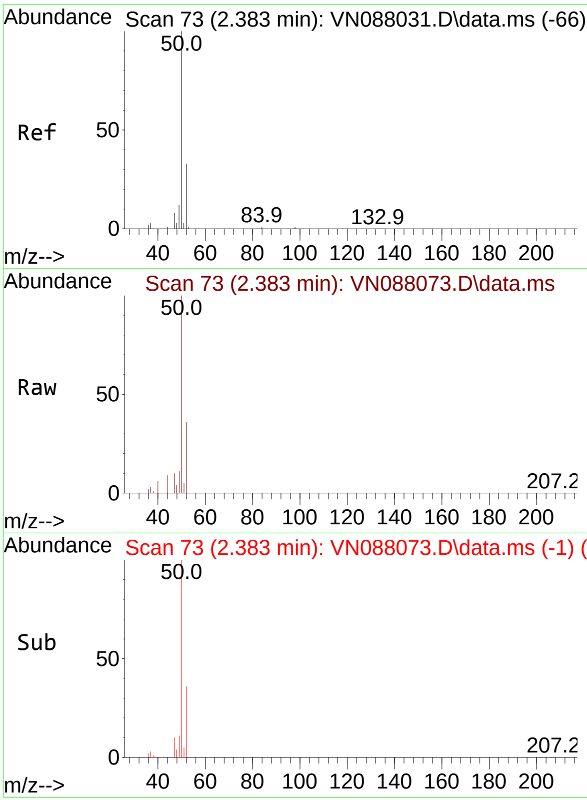


Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

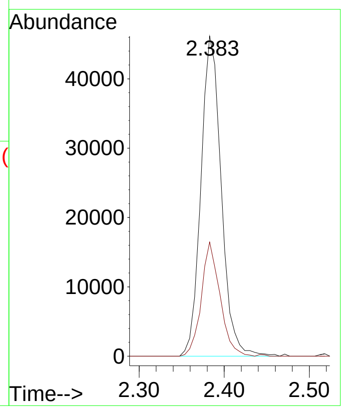
10/21/2025

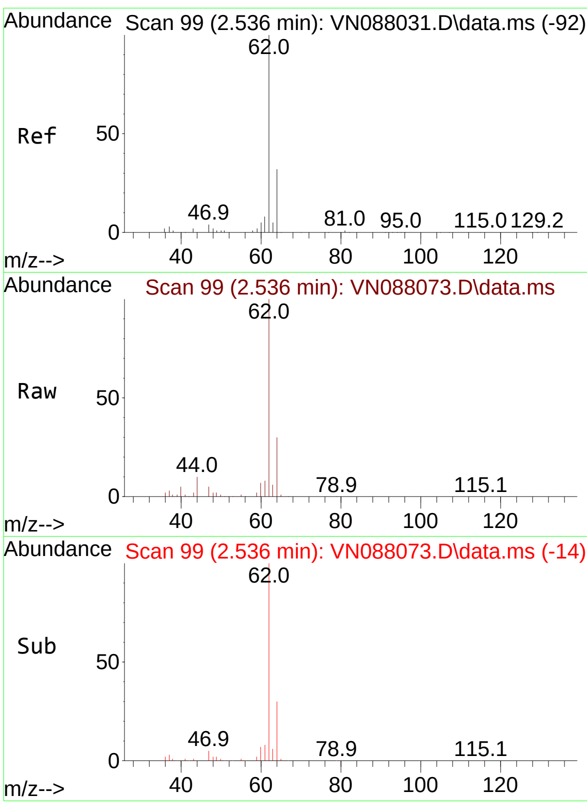


#3
Chloromethane
Concen: 18.986 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 50 Resp: 7679

Ion	Ratio	Lower	Upper
50	100		
52	35.7	26.3	39.5

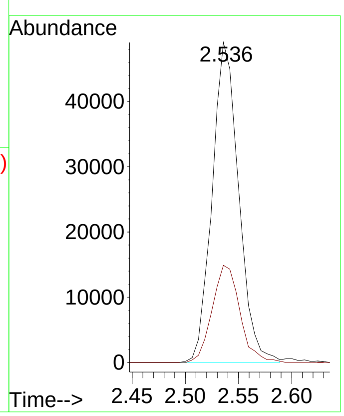


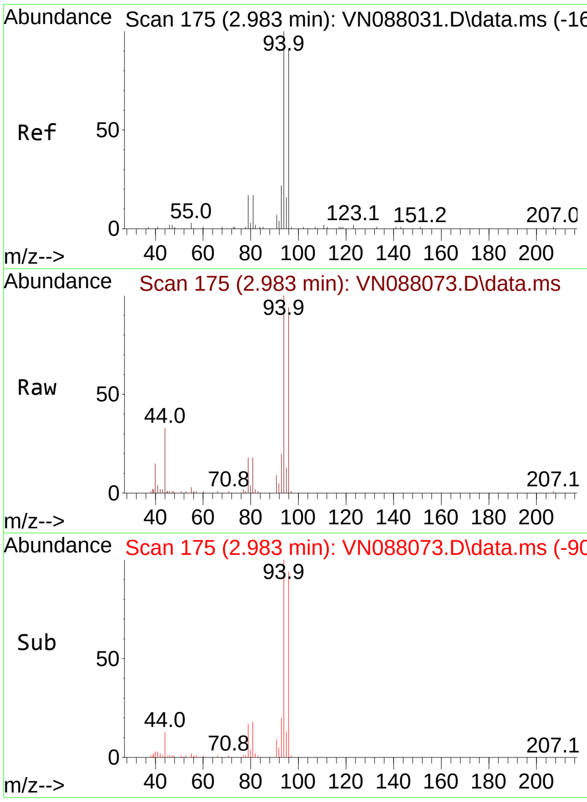


#4
Vinyl Chloride
Concen: 20.217 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 62 Resp: 85262

Ion	Ratio	Lower	Upper
62	100		
64	30.3	25.7	38.5





#5
Bromomethane
Concen: 22.434 ug/l
RT: 2.983 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

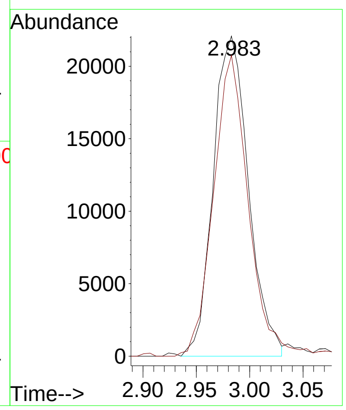
Tgt Ion: 94 Resp: 5087
Ion Ratio Lower Upper
94 100
96 92.9 73.0 109.4

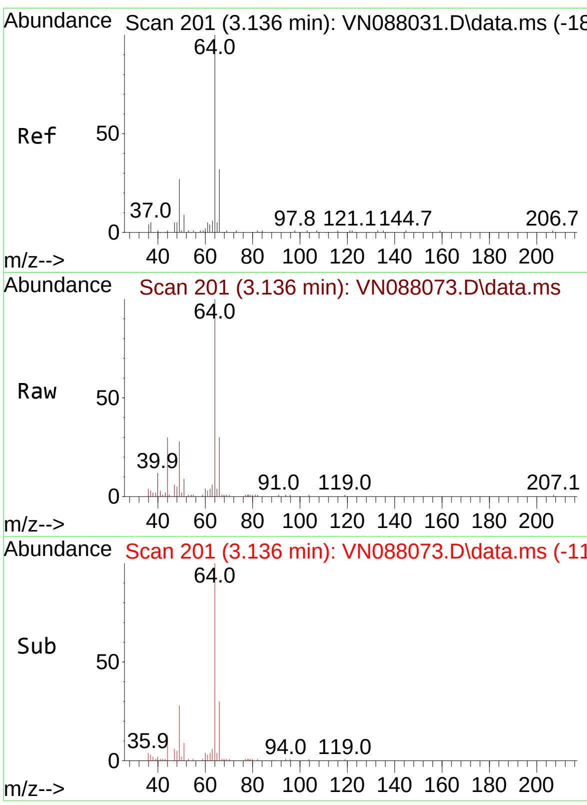
Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations
APPROVED

Reviewed By :John
Carlone
10/21/2025
Supervised By :Semsettin
Yesilyurt

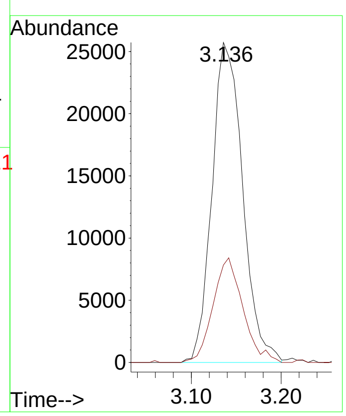
10/21/2025





#6
Chloroethane
Concen: 21.923 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 64 Resp: 60988
Ion Ratio Lower Upper
64 100
66 30.5 26.8 40.2

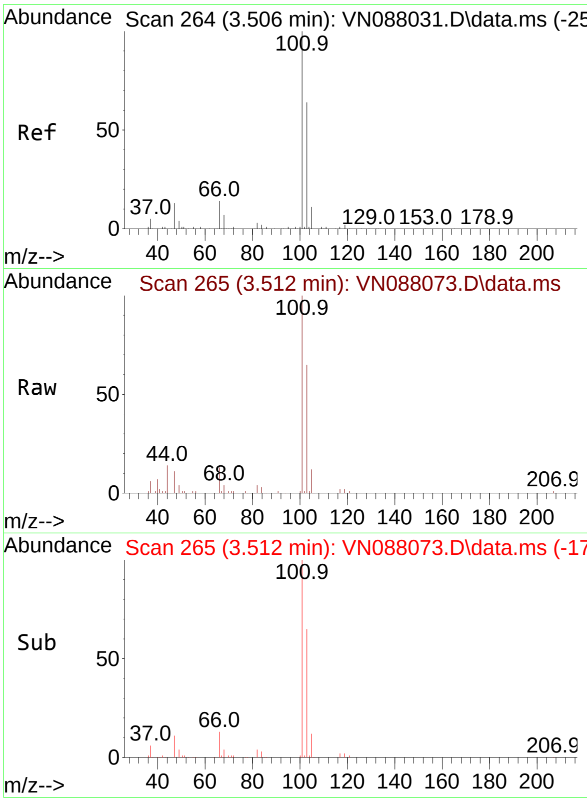


Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

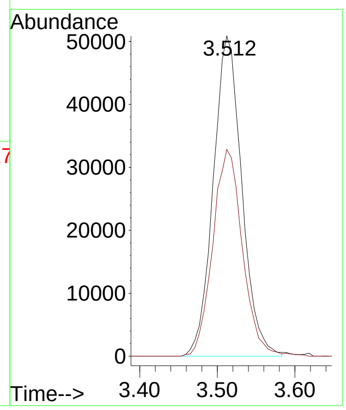
10/21/2025

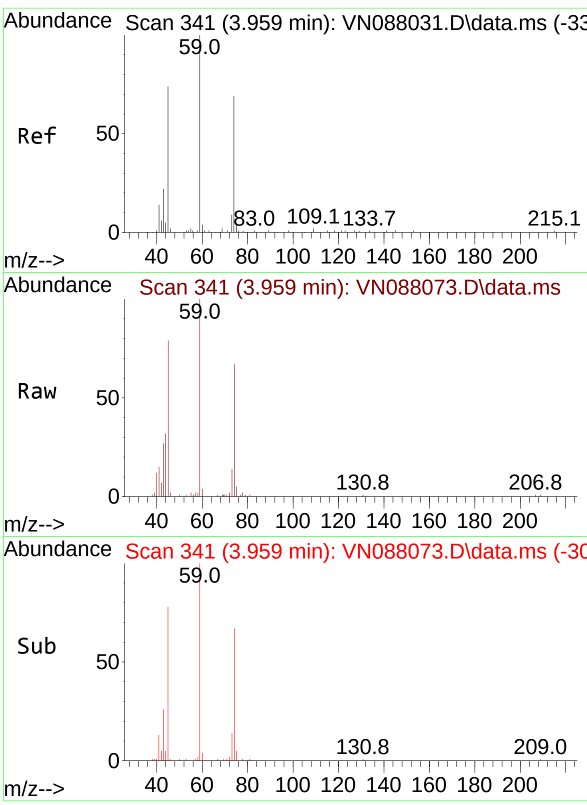


#7
Trichlorofluoromethane
Concen: 22.705 ug/l
RT: 3.512 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:101 Resp: 13021

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.0	76.4

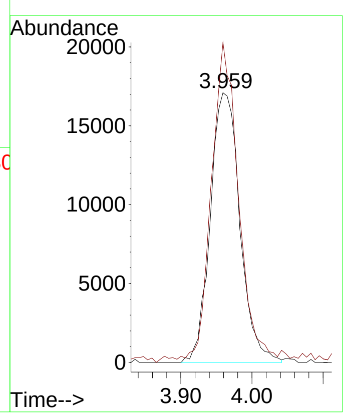


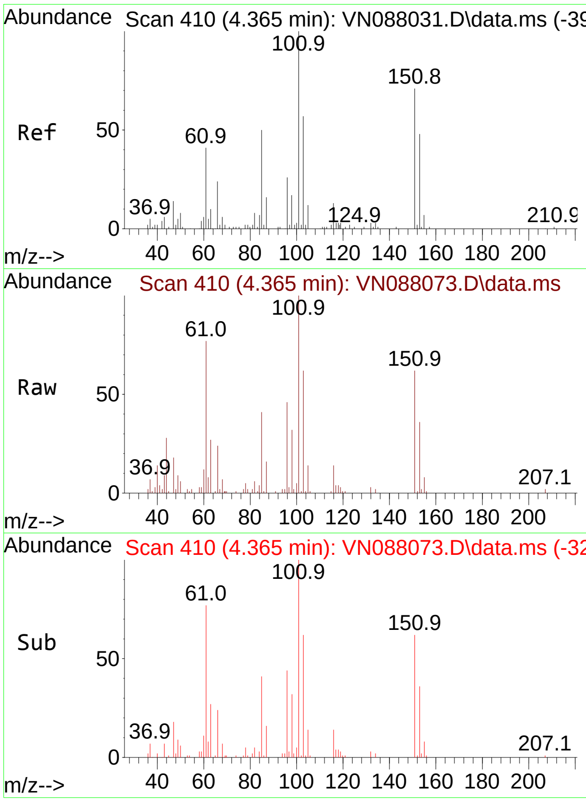


#8
Diethyl Ether
Concen: 19.061 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 74 Resp: 49392

Ion	Ratio	Lower	Upper
74	100		
45	105.2	20.4	183.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.006 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

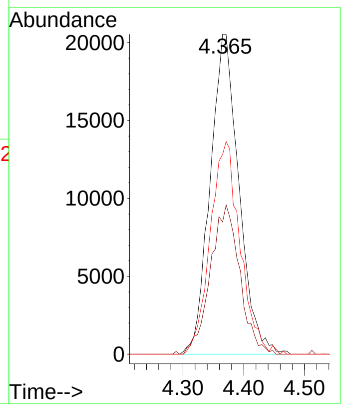
Manual Integrations APPROVED

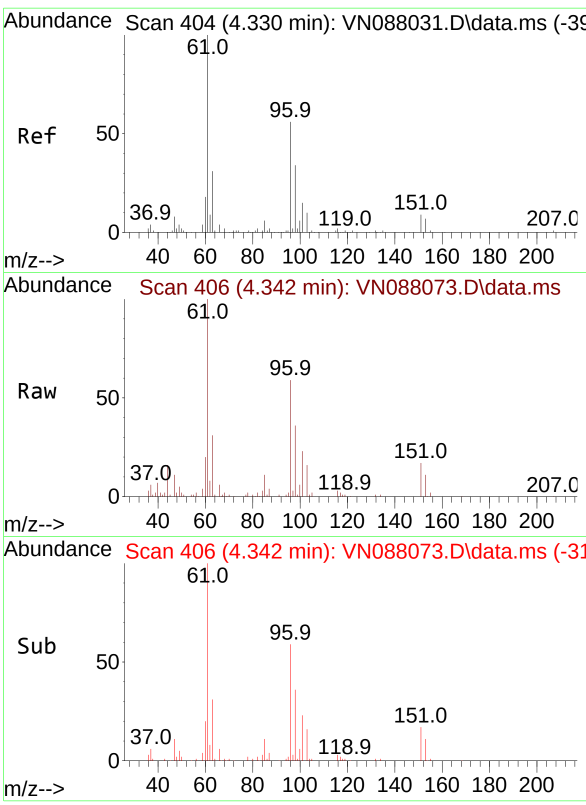
Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

10/21/2025

Tgt Ion:101 Resp: 6755

Ion	Ratio	Lower	Upper
101	100		
85	47.6	0.0	103.2
151	68.3	0.0	141.4

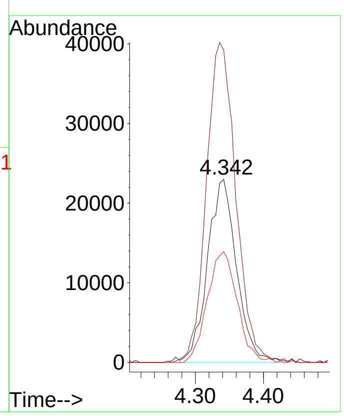


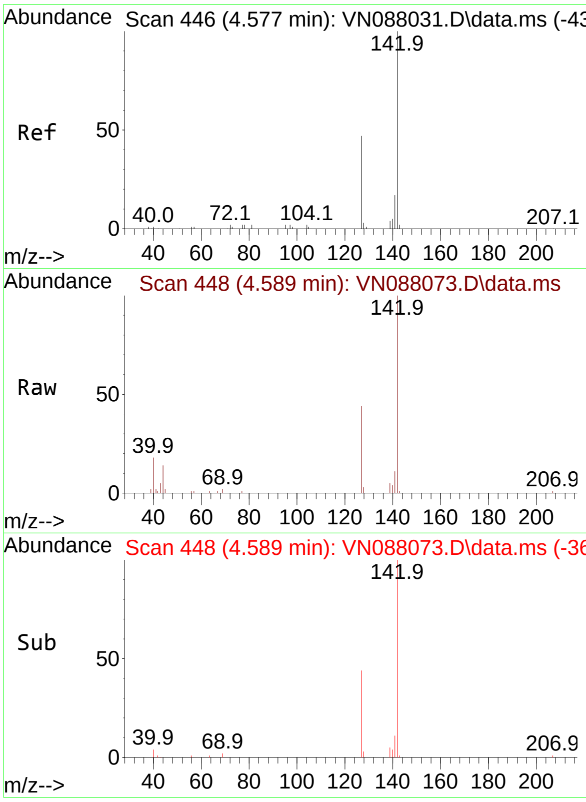


#10
1,1-Dichloroethene
Concen: 20.804 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.012 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 96 Resp: 68131

Ion	Ratio	Lower	Upper
96	100		
61	170.8	144.1	216.1
98	61.2	49.0	73.6

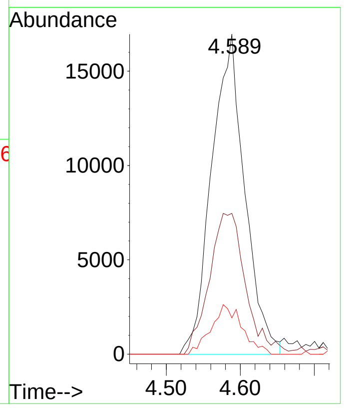




#11
Methyl Iodide
Concen: 17.434 ug/l
RT: 4.589 min Scan# 44
Delta R.T. 0.012 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:142 Resp: 5262(

Ion	Ratio	Lower	Upper
142	100		
127	43.4	23.4	70.3
141	11.6	8.8	26.2



Instrument : MSVOA_N
ClientSampleId : VN1020WBS01

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Supervised By :Semsettin Yesilyurt

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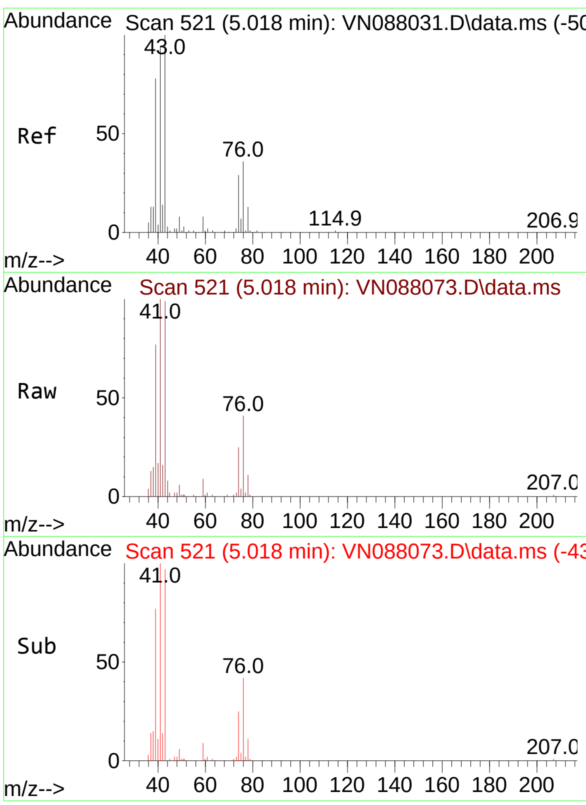
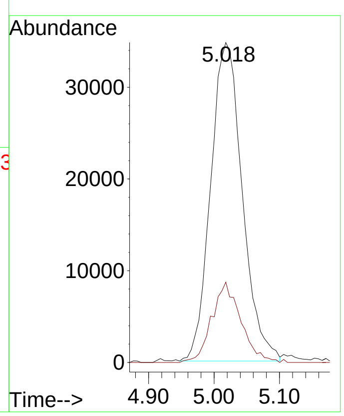
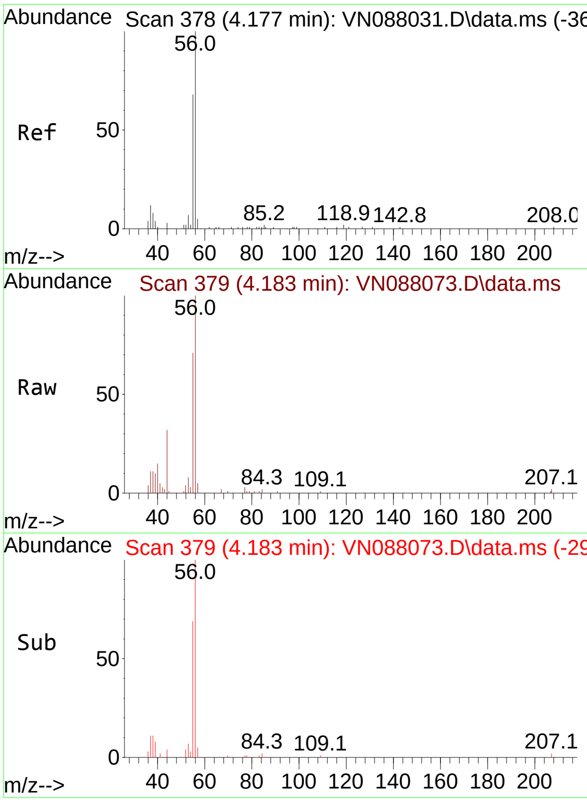


#12
Methyl Acetate
Concen: 21.905 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 43 Resp: 116619

Ion	Ratio	Lower	Upper
43	100		
74	25.4	23.3	34.9





#13
Acrolein
Concen: 71.986 ug/l
RT: 4.183 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 56 Resp: 5930

Ion	Ratio	Lower	Upper
56	100		
55	73.0	0.3	0.5

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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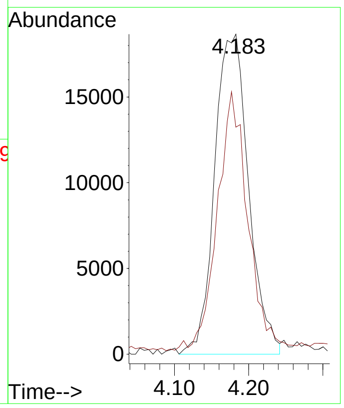
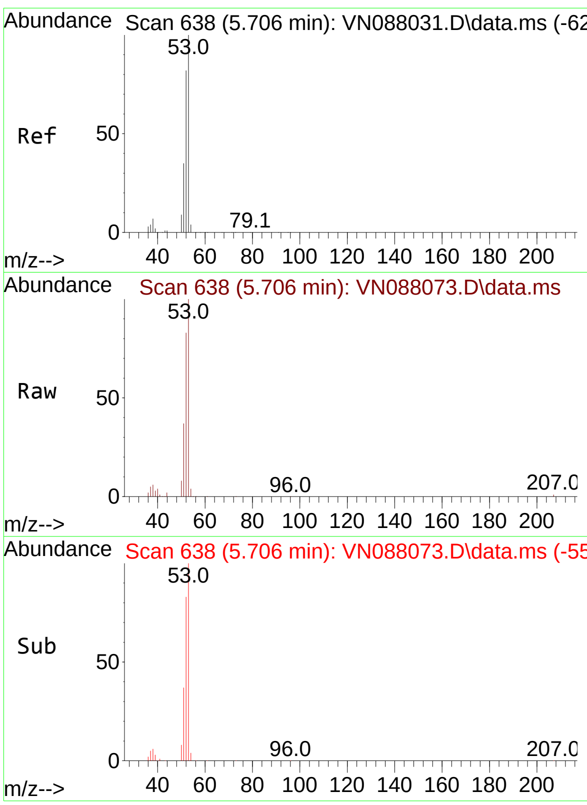
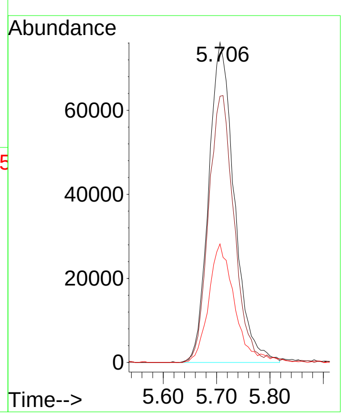




#14
Acrylonitrile
Concen: 99.104 ug/l
RT: 5.706 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 53 Resp: 254622

Ion	Ratio	Lower	Upper
53	100		
52	82.4	41.3	124.1
51	36.1	18.0	54.0



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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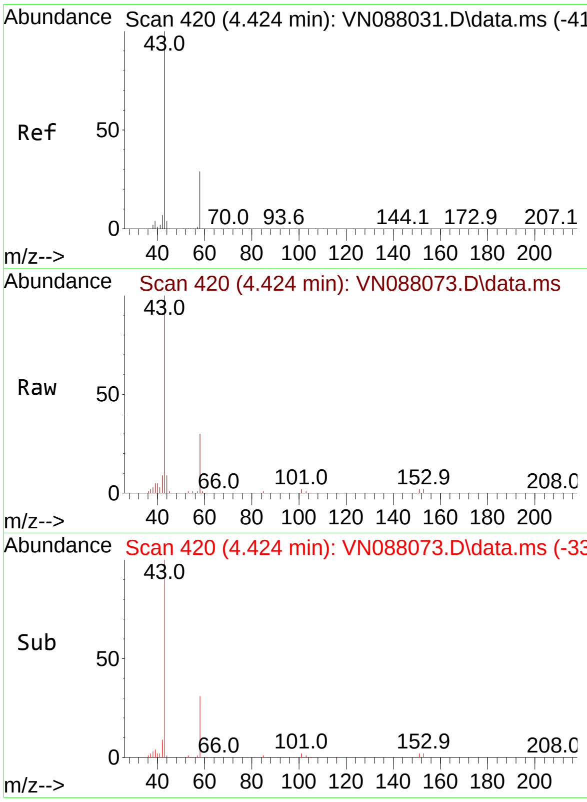
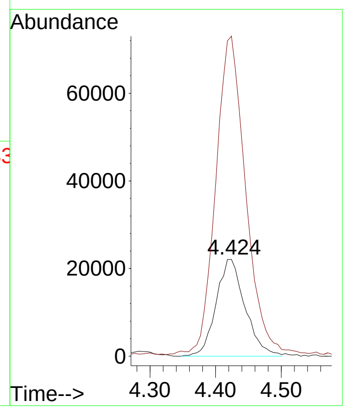
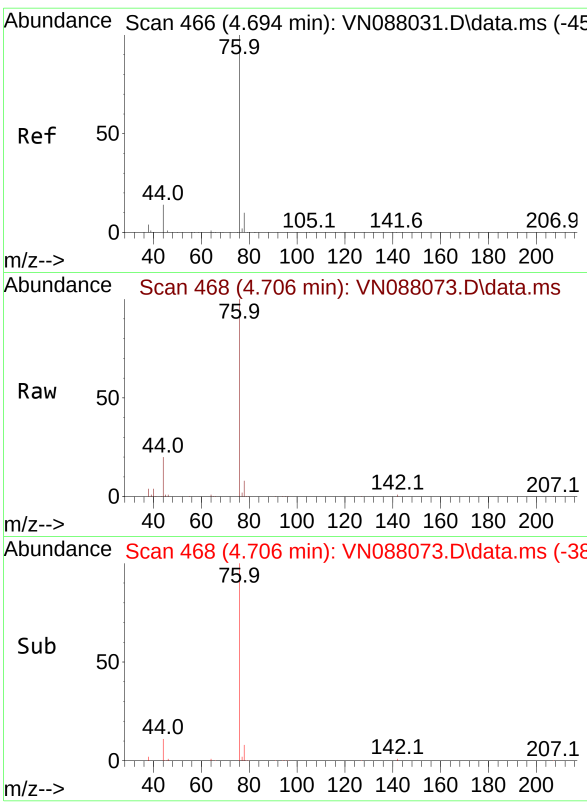


#15
Acetone
Concen: 90.045 ug/l
RT: 4.424 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 58 Resp: 6775

Ion	Ratio	Lower	Upper
58	100		
43	325.0	282.6	424.0

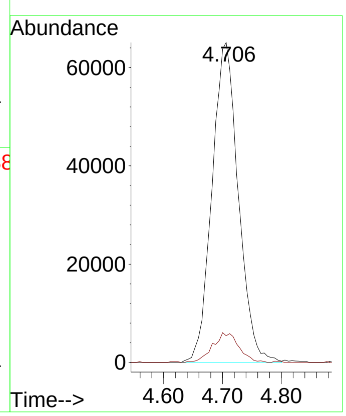




#16
Carbon Disulfide
Concen: 19.743 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.012 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 76 Resp: 202681

Ion	Ratio	Lower	Upper
76	100		
78	8.3	7.8	11.8



Instrument : MSVOA_N
ClientSampleId : VN1020WBS01

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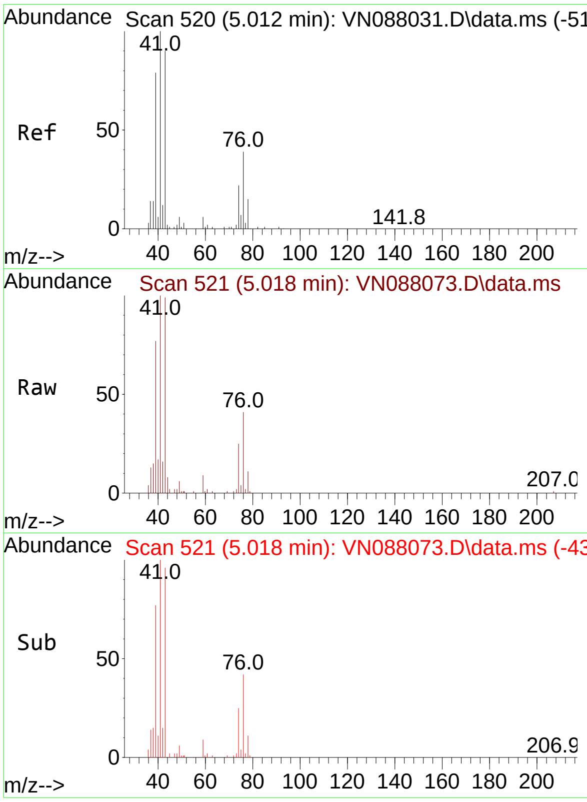
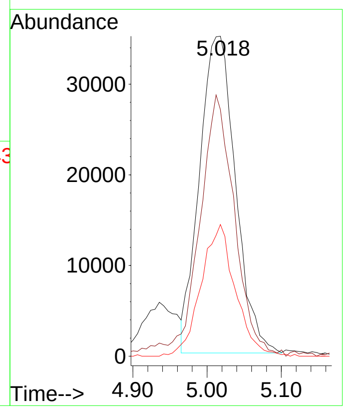
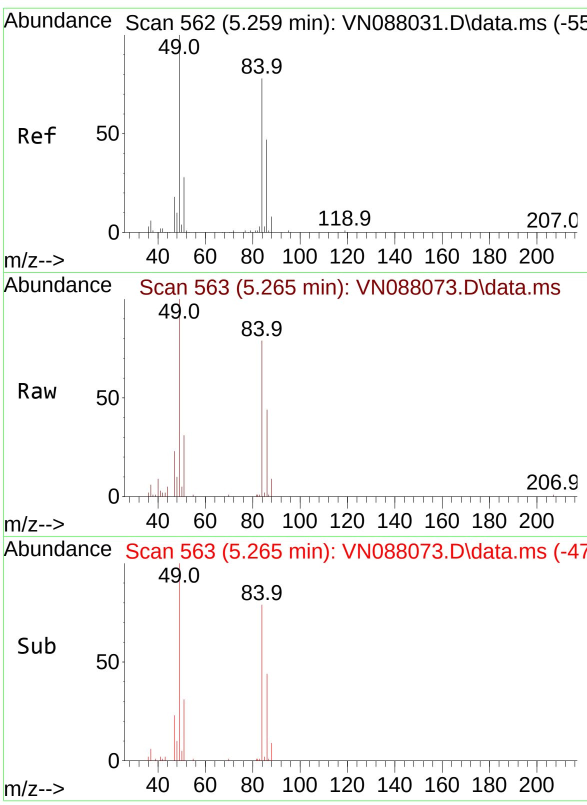


#17
Allyl chloride
Concen: 19.113 ug/l
RT: 5.018 min Scan# 5
Delta R.T. 0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 41 Resp: 118111

Ion	Ratio	Lower	Upper
41	100		
39	76.0	36.4	109.2
76	41.2	18.1	54.1

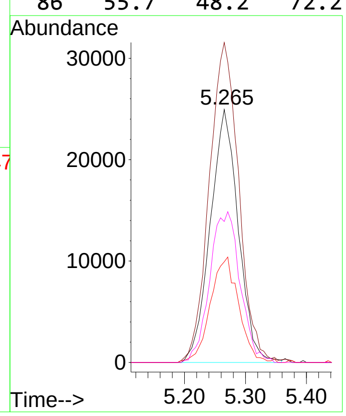




#18
Methylene Chloride
Concen: 19.171 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 84 Resp: 79795

Ion	Ratio	Lower	Upper
84	100		
49	125.8	102.6	153.8
51	39.8	28.6	42.8
86	55.7	48.2	72.2



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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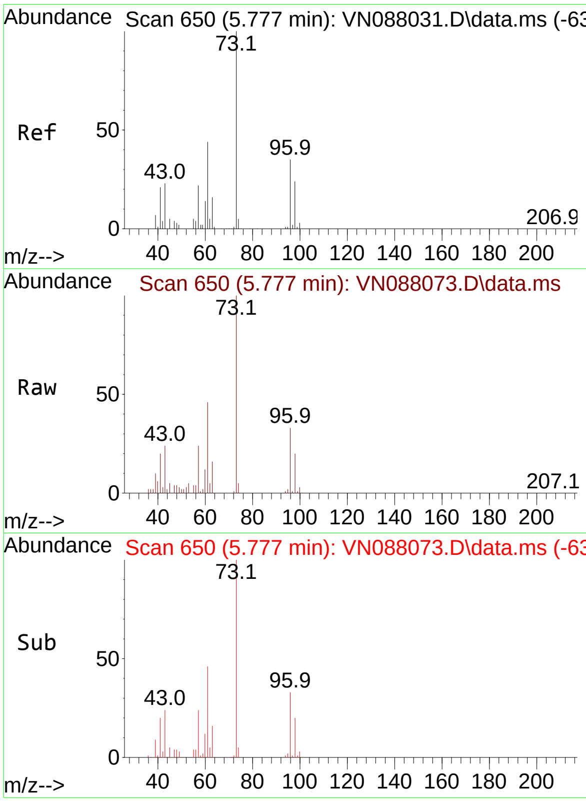
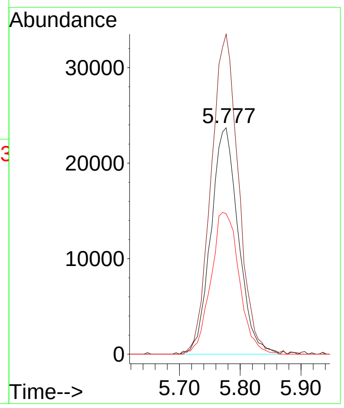
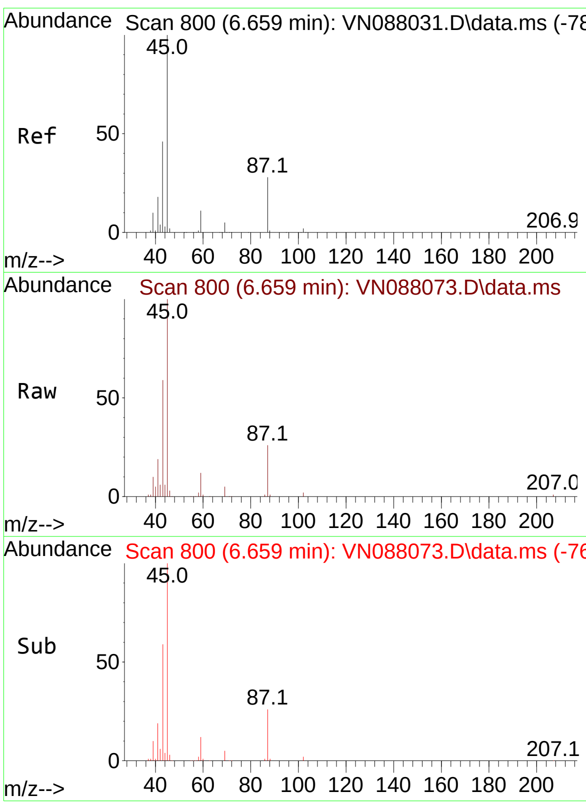


#19
trans-1,2-Dichloroethene
Concen: 19.687 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 96 Resp: 7454

Ion	Ratio	Lower	Upper
96	100		
61	141.3	100.6	151.0
98	62.0	54.0	81.0

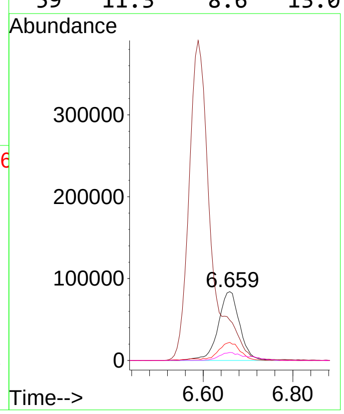




#20
Diisopropyl ether
Concen: 19.851 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 45 Resp: 279278

Ion	Ratio	Lower	Upper
45	100		
43	57.5	46.1	69.1
87	26.3	22.3	33.5
59	11.3	8.6	13.0



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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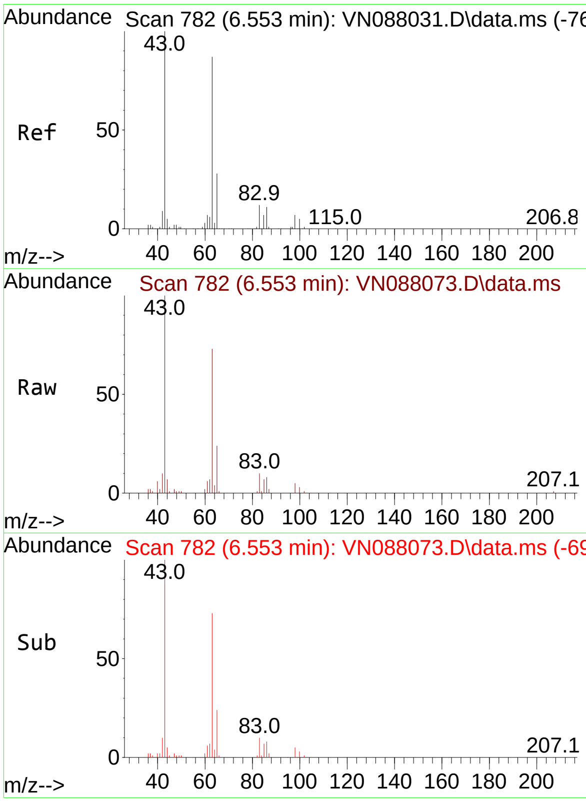
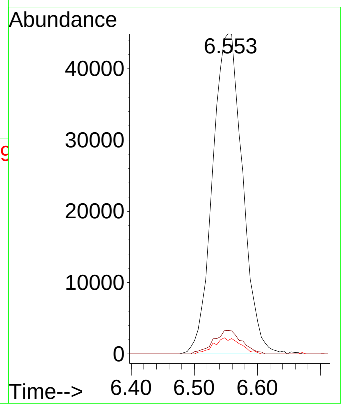
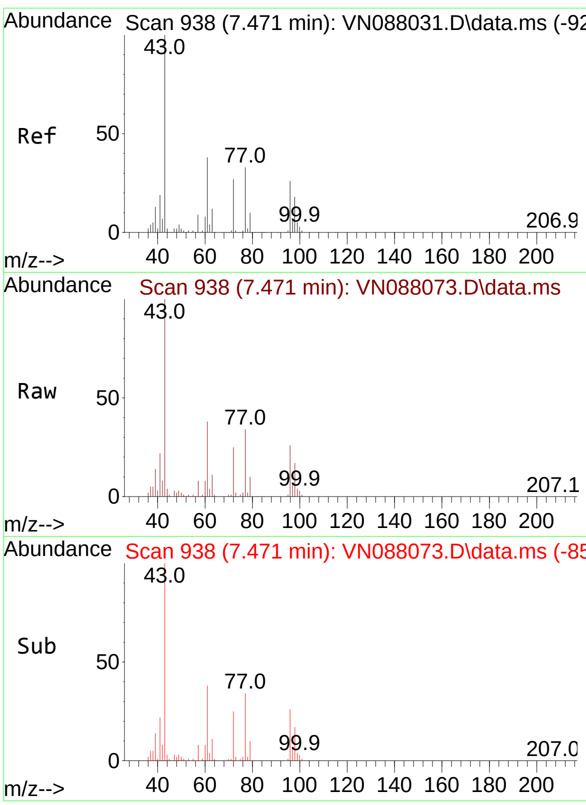


#21
1,1-Dichloroethane
Concen: 20.152 ug/l
RT: 6.553 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 63 Resp: 14759

Ion	Ratio	Lower	Upper
63	100		
98	7.4	4.3	12.8
100	4.2	2.6	8.0

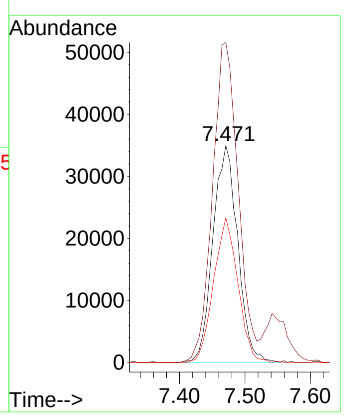


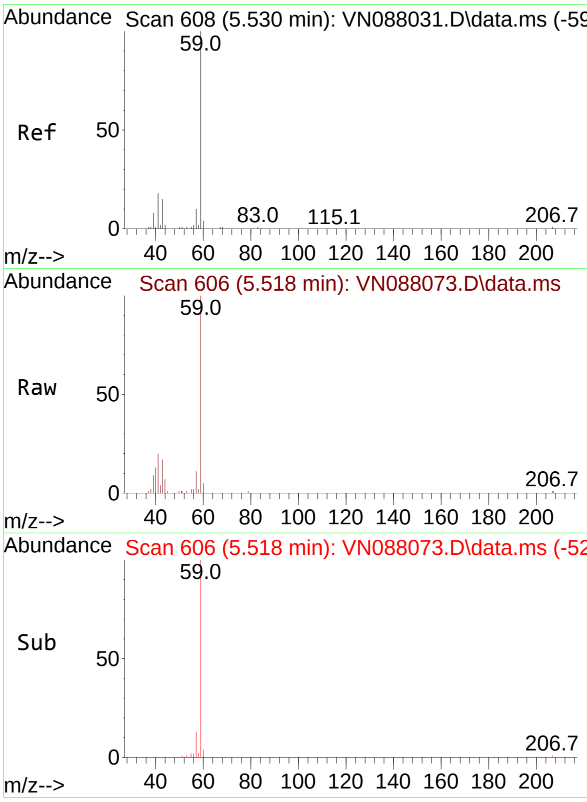


#22
cis-1,2-Dichloroethene
Concen: 19.387 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 96 Resp: 91891

Ion	Ratio	Lower	Upper
96	100		
61	152.5	117.0	175.6
98	65.1	52.6	79.0






```
#23
tert-Butyl Alcohol
Concen:   92.904 ug/l
RT:   5.518 min   Scan# 6
Delta R.T.   -0.012 min
Lab File:    VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion: 59 Resp:   9573
Ion   Ratio   Lower   Upper
 59   100
 52     0.0     0.0     0.0
```

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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Supervised By :Semsettin Yesilyurt

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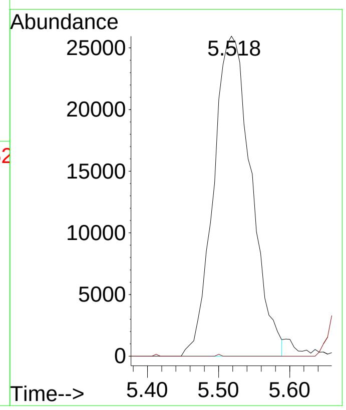
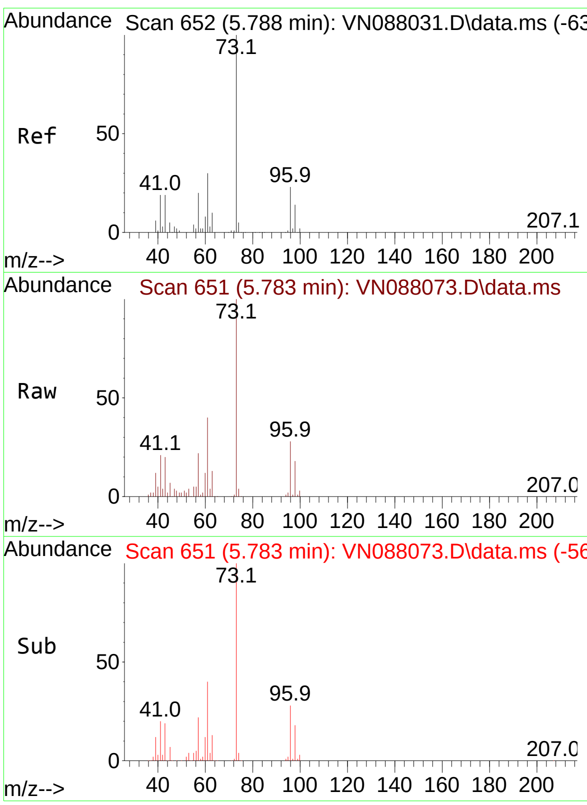
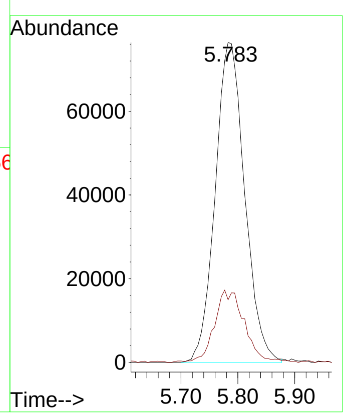





```
#24
Methyl tert-Butyl Ether
Concen:   19.494 ug/l
RT:   5.783 min   Scan# 651
Delta R.T.   -0.006 min
Lab File:    VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion: 73 Resp:   275566
Ion   Ratio   Lower   Upper
 73   100
 43    10.7    17.0    25.4#
```



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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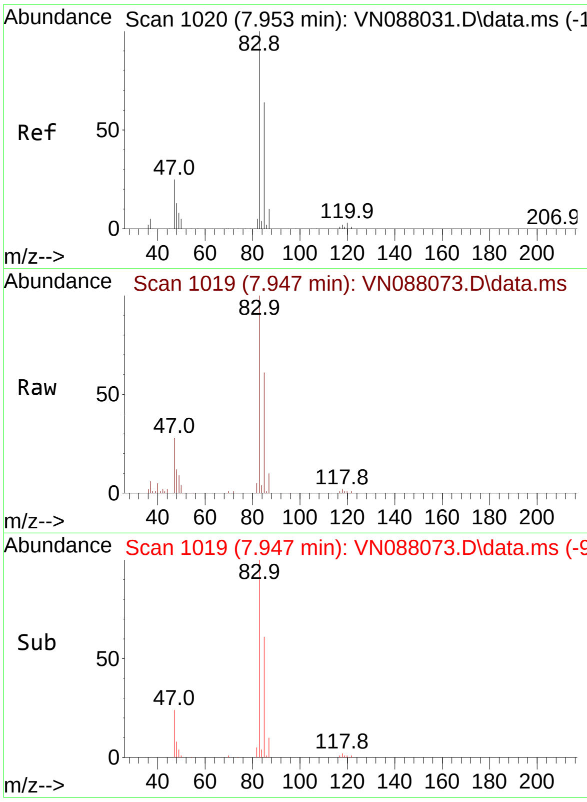
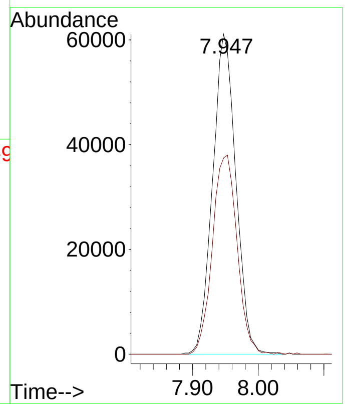
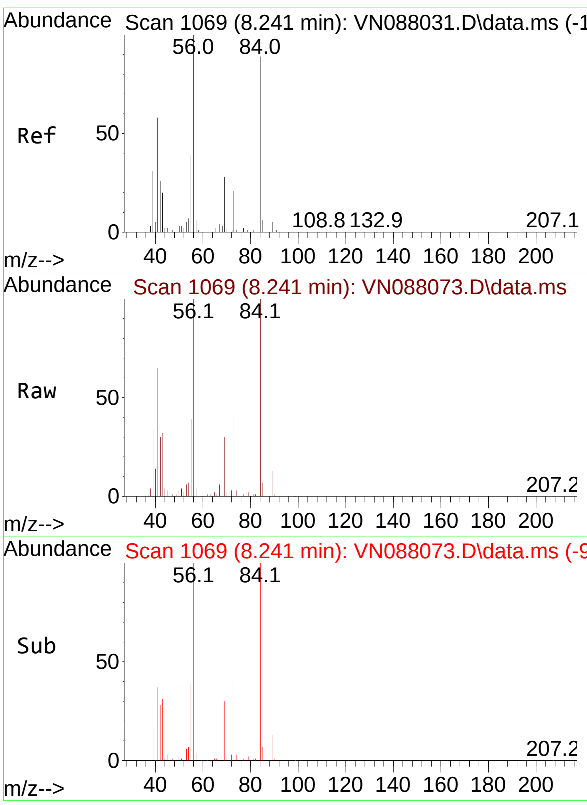
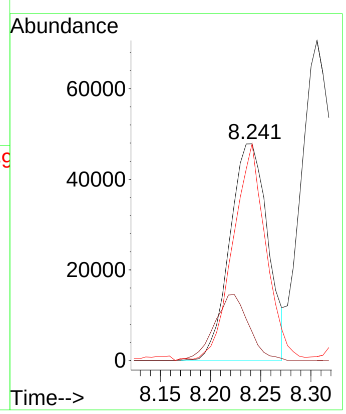



```
#25
Chloroform
Concen:   19.921 ug/l
RT:   7.947 min   Scan# 1
Delta R.T.   -0.006 min
Lab File:    VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion: 83 Resp:   15055
Ion   Ratio   Lower   Upper
 83   100
 85    61.3    50.9    76.3
```






```
#26
Cyclohexane
Concen:   20.729 ug/l
RT:   8.241 min   Scan# 1069
Delta R.T.   0.000 min
Lab File:    VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion: 56 Resp:   125784
Ion   Ratio   Lower   Upper
 56   100
 89    27.6     8.6    12.8#
 84    87.0    69.6   104.4
```



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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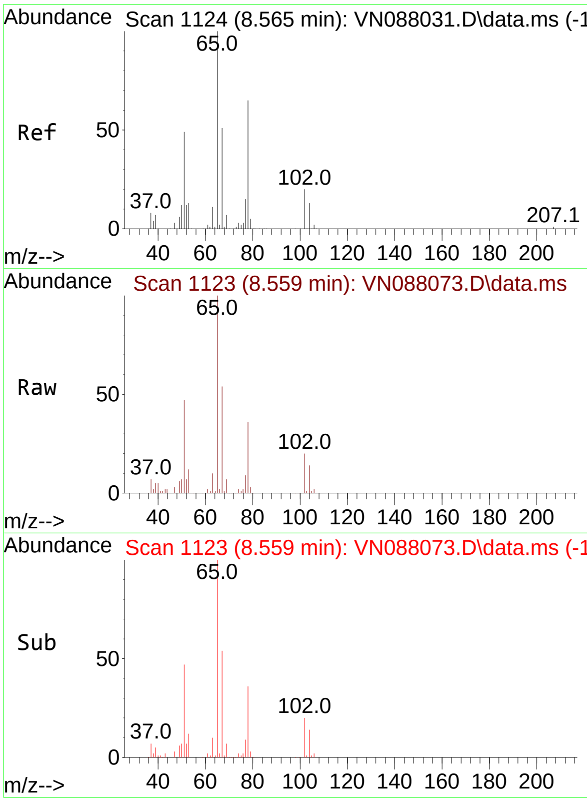
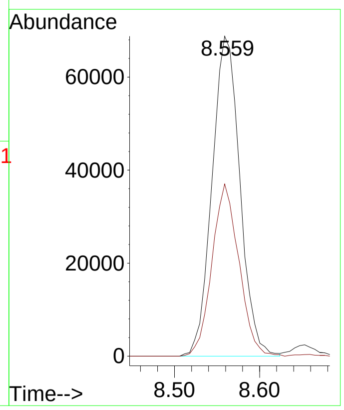
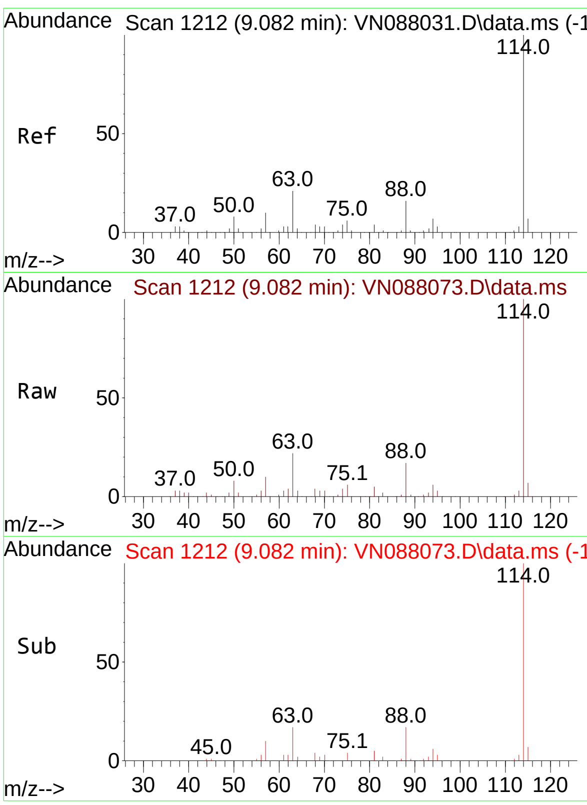


#27
1,2-Dichloroethane-d4
Concen: 32.296 ug/l
RT: 8.559 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 65 Resp: 15663

Ion	Ratio	Lower	Upper
65	100		
67	52.0	41.9	62.9

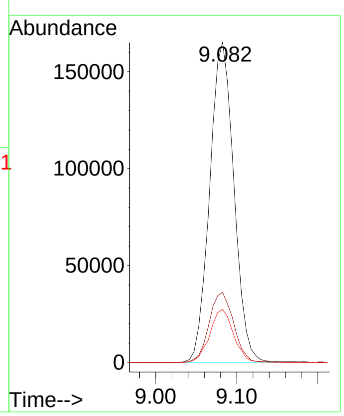


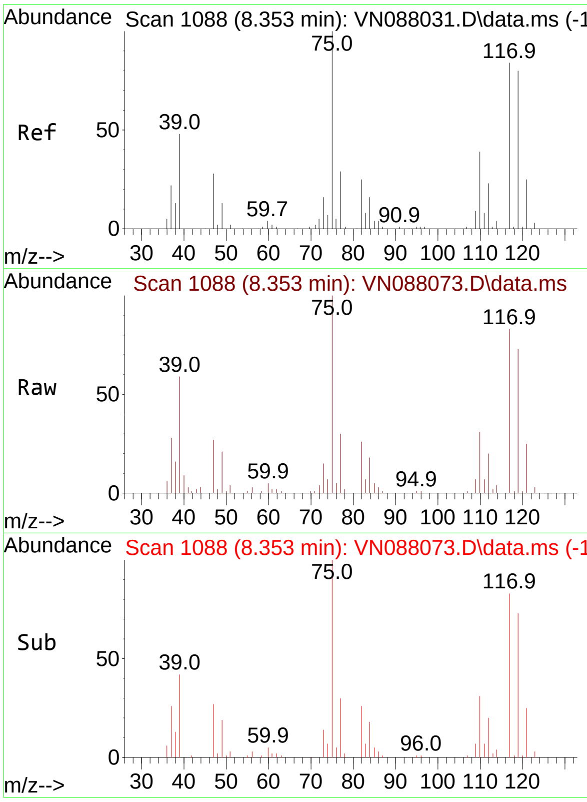


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:114 Resp: 343376

Ion	Ratio	Lower	Upper
114	100		
63	22.0	16.6	25.0
88	16.2	12.6	18.8





#29
1,1-Dichloropropene
Concen: 21.254 ug/l
RT: 8.353 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Tgt Ion: 75 Resp: 10461

Ion	Ratio	Lower	Upper
75	100		
110	33.6	0.0	72.2
77	31.4	0.0	60.6

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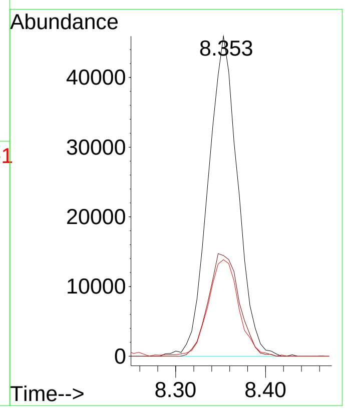
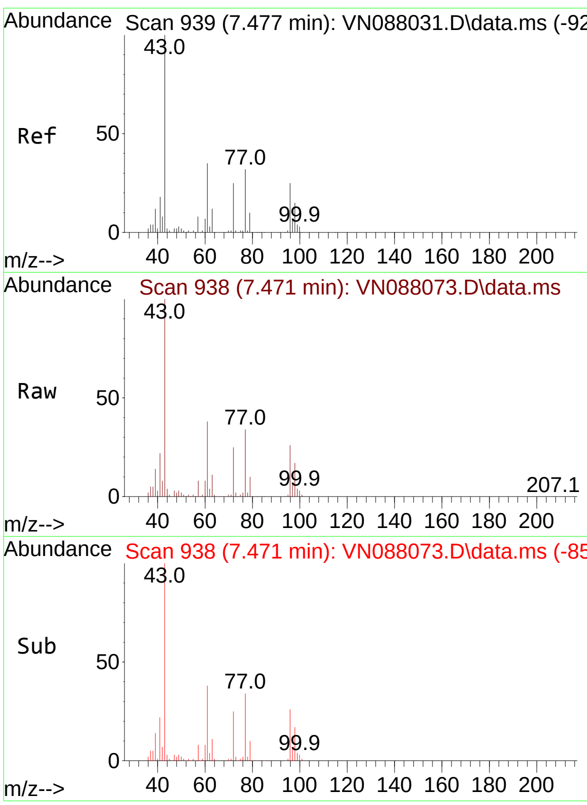
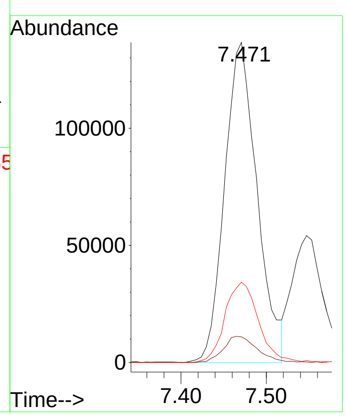




#30
2-Butanone
Concen: 99.803 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 43 Resp: 362293

Ion	Ratio	Lower	Upper
43	100		
57	8.5	6.5	9.7
72	25.8	21.4	32.2



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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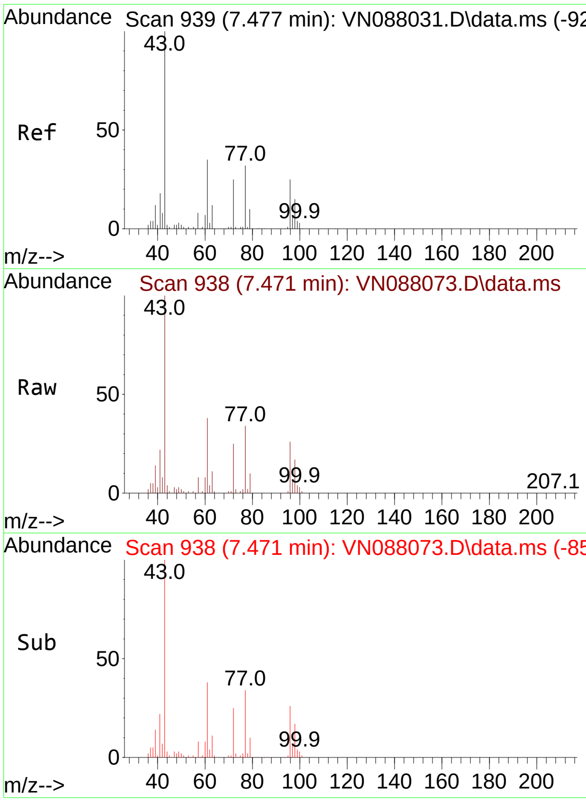
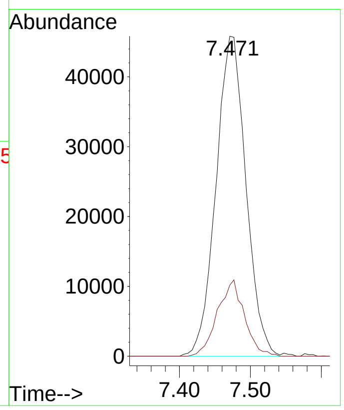
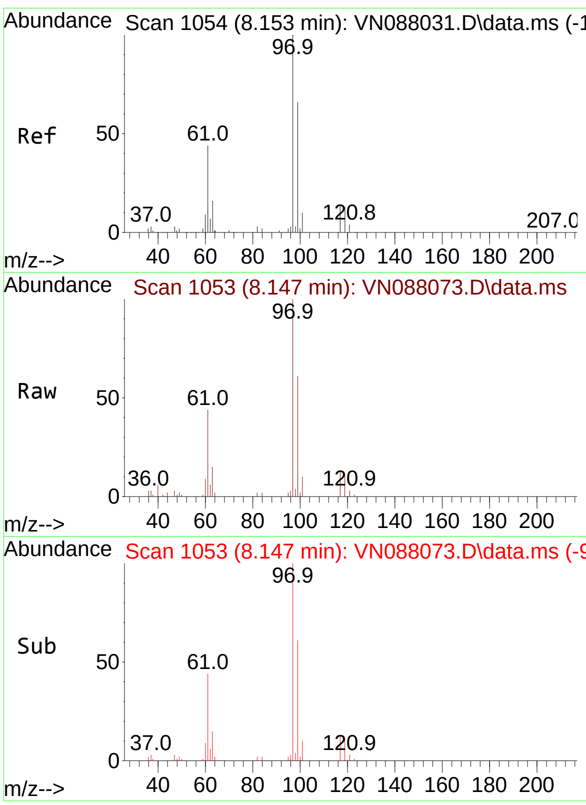


#31
2,2-Dichloropropane
Concen: 21.150 ug/l
RT: 7.471 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 77 Resp: 13413

Ion	Ratio	Lower	Upper
77	100		
97	21.5	17.8	26.8

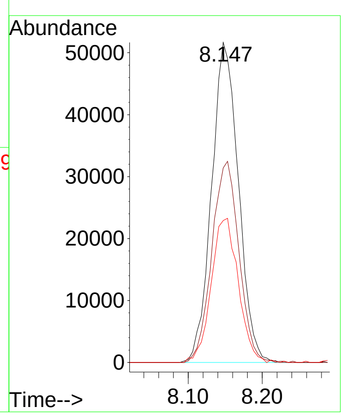




#32
1,1,1-Trichloroethane
Concen: 21.218 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 97 Resp: 130492

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.4	77.2
61	45.3	34.7	52.1



Instrument :
MSVOA_N
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VN1020WBS01

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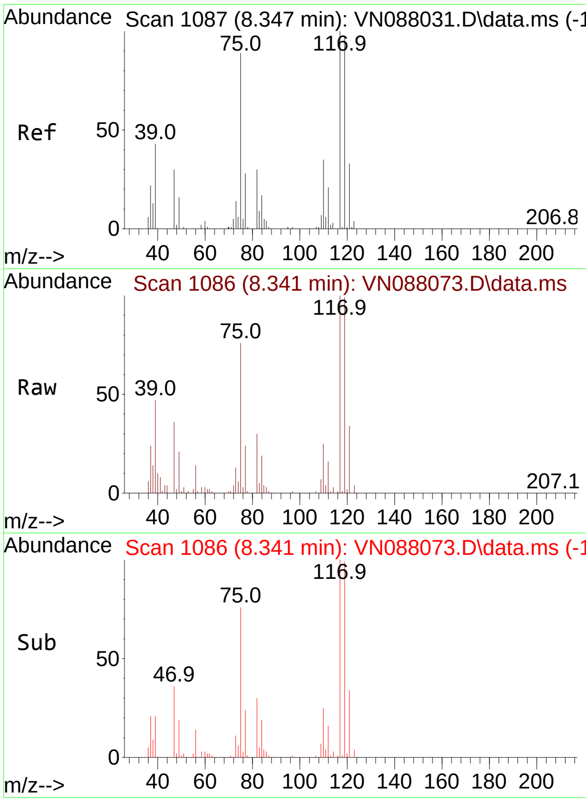
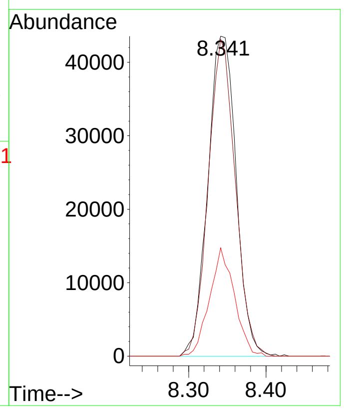
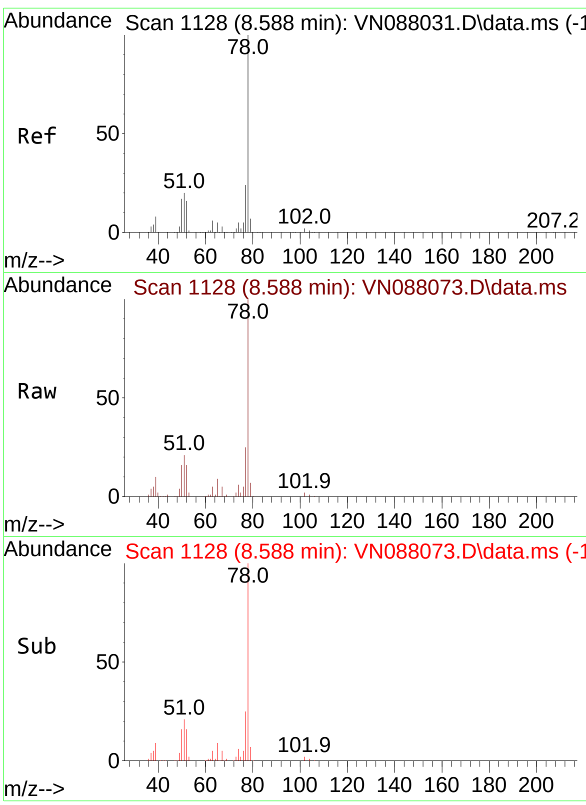


#33
Carbon Tetrachloride
Concen: 21.513 ug/l
RT: 8.341 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:117 Resp: 11082

Ion	Ratio	Lower	Upper
117	100		
119	99.0	77.9	116.9
121	33.8	26.4	39.6

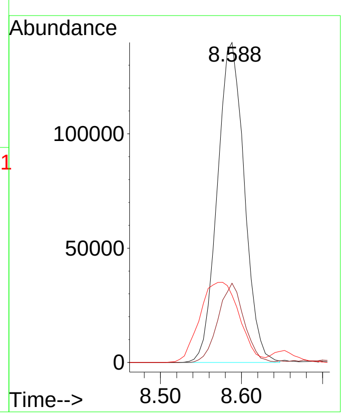


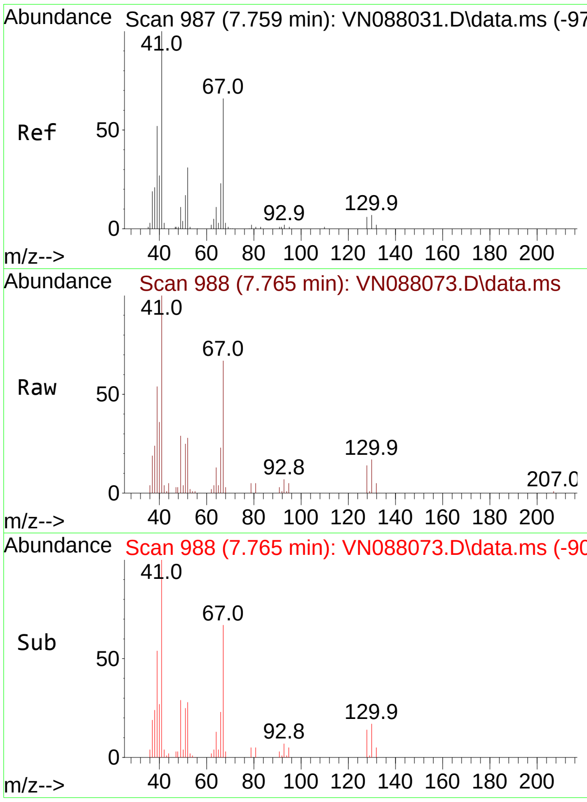


#34
Benzene
Concen: 19.817 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 78 Resp: 323530

Ion	Ratio	Lower	Upper
78	100		
77	24.7	18.9	28.3
51	20.0	15.6	23.4

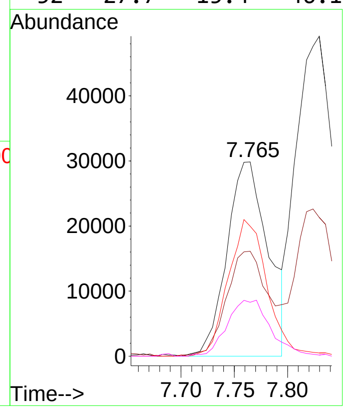




#35
Methacrylonitrile
Concen: 20.956 ug/l
RT: 7.765 min Scan# 98
Delta R.T. 0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 41 Resp: 79995

Ion	Ratio	Lower	Upper
41	100		
39	53.4	26.1	78.3
67	66.3	33.1	99.2
52	27.7	15.4	46.1



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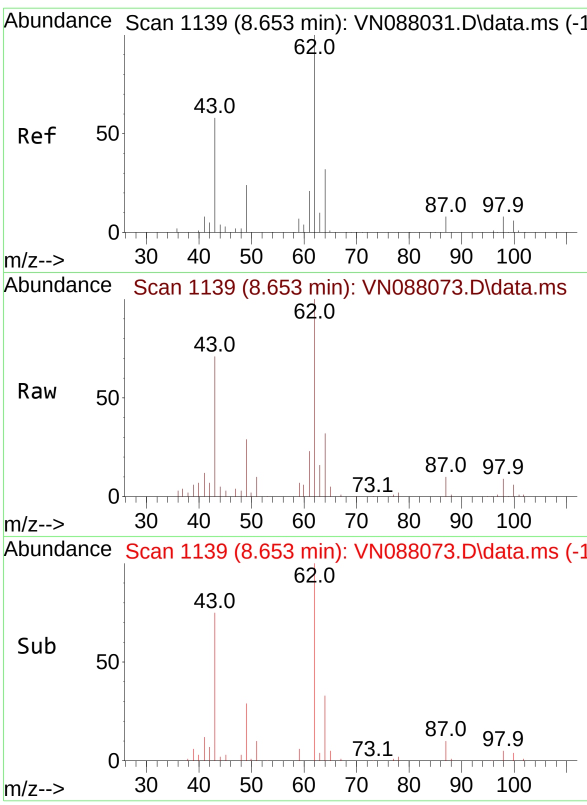
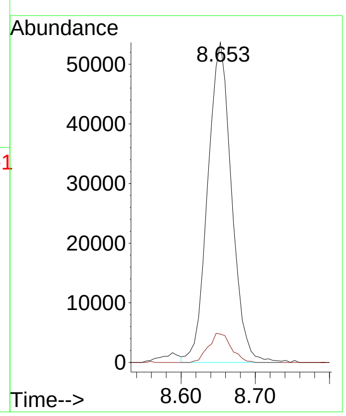
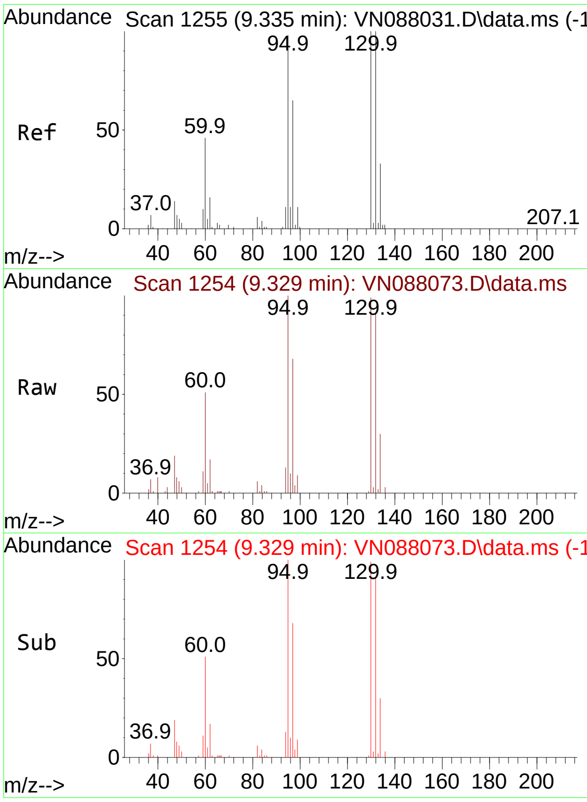


#36
1,2-Dichloroethane
Concen: 21.218 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 62 Resp: 120255

Ion	Ratio	Lower	Upper
62	100		
98	8.6	7.8	11.6

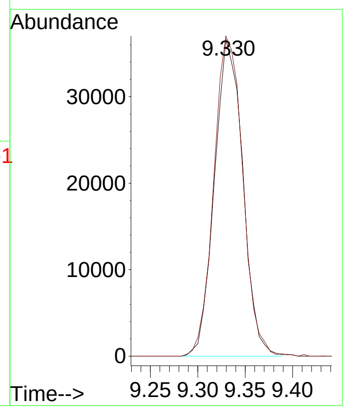




#37
Trichloroethene
Concen: 19.642 ug/l
RT: 9.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:130 Resp: 7597

Ion	Ratio	Lower	Upper
130	100		
95	101.0	78.7	118.1



Instrument :
MSVOA_N
ClientSampleId :
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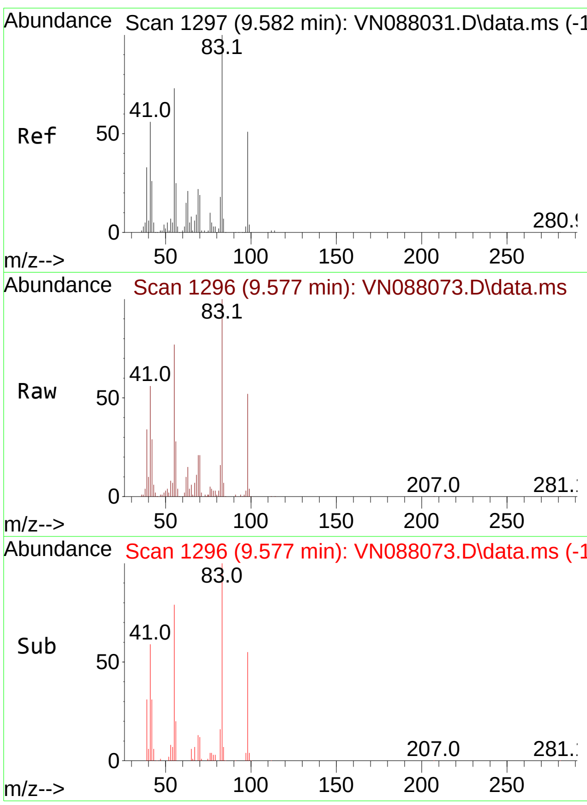
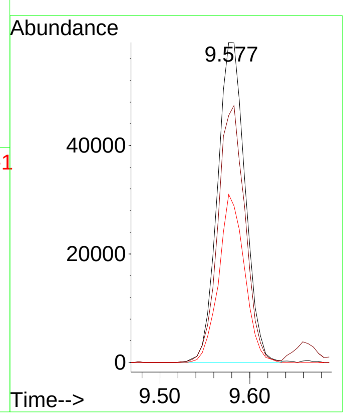


#38
Methylcyclohexane
Concen: 20.752 ug/l
RT: 9.577 min Scan# 1296
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 83 Resp: 126136

Ion	Ratio	Lower	Upper
83	100		
55	79.1	37.3	111.9
98	49.2	25.4	76.0



Instrument : MSVOA_N
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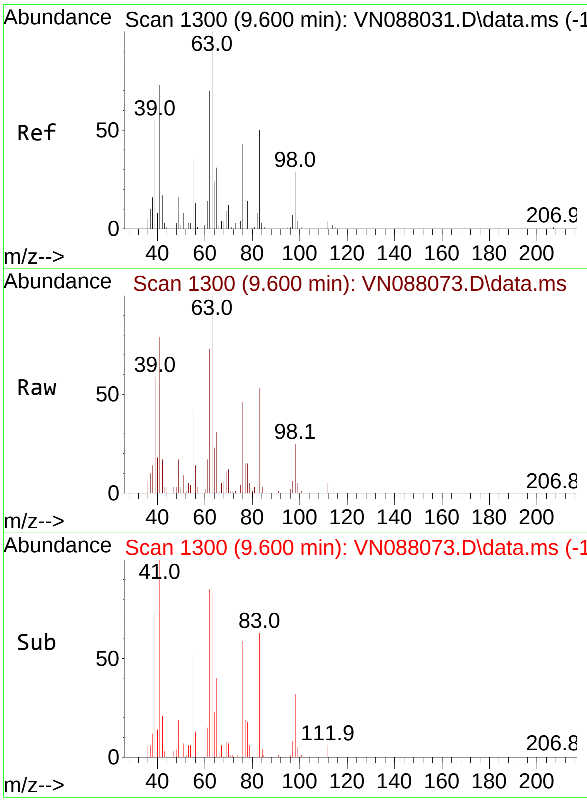
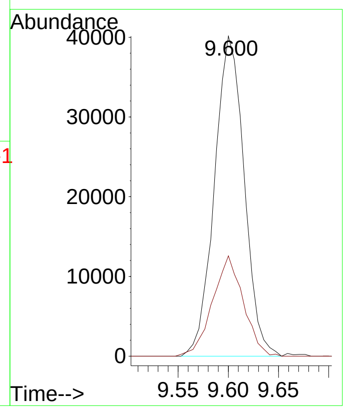
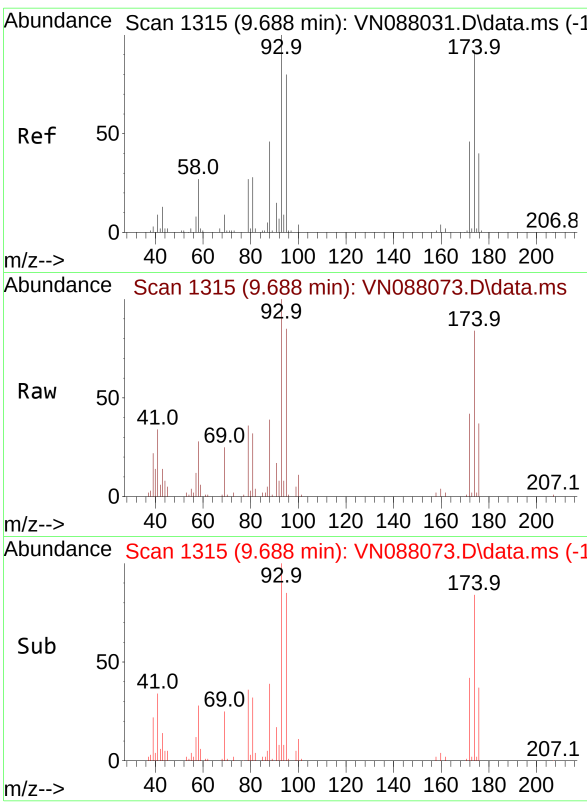


#39
1,2-Dichloropropane
Concen: 20.184 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 63 Resp: 8262

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.0	37.6

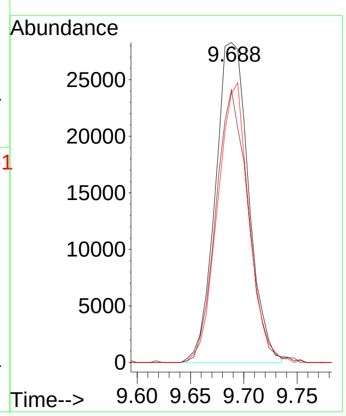




#40
Dibromomethane
Concen: 20.633 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 93 Resp: 61481

Ion	Ratio	Lower	Upper
93	100		
95	82.0	0.0	158.6
174	82.6	0.0	180.8



Instrument :
MSVOA_N
ClientSampleId :
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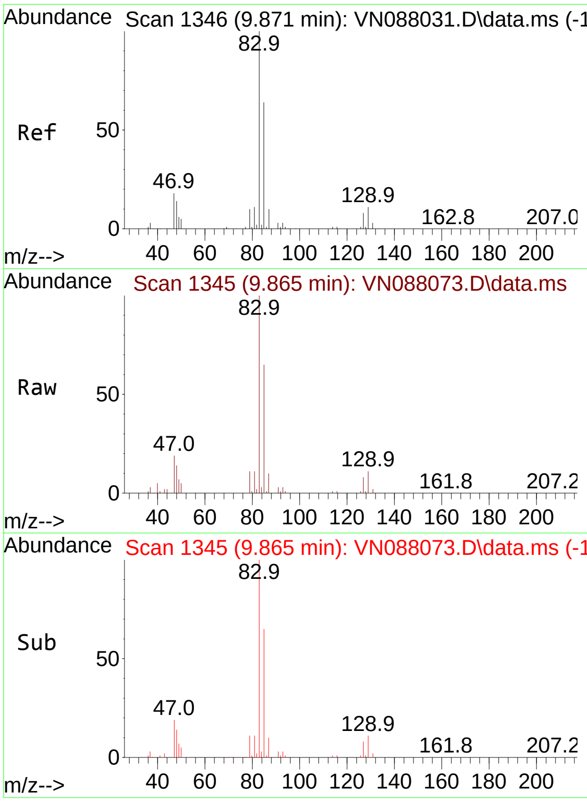
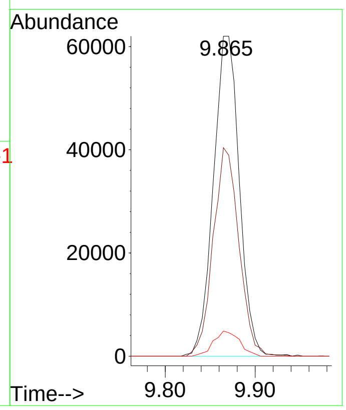
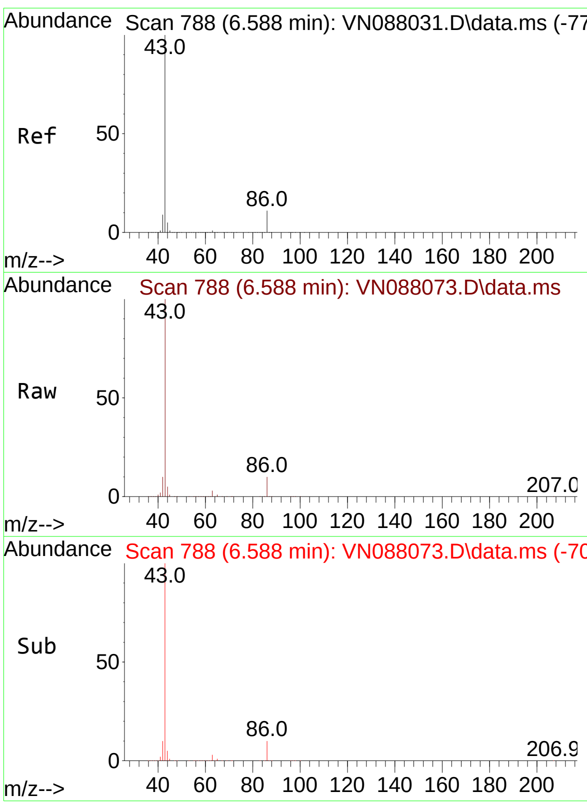


#41
Bromodichloromethane
Concen: 20.418 ug/l
RT: 9.865 min   Scan# 1
Delta R.T.   -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion: 83 Resp: 12425

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.0	76.4
127	7.9	6.1	9.1

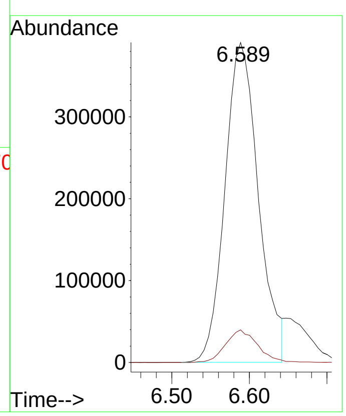




#42
Vinyl Acetate
Concen: 94.666 ug/l
RT: 6.588 min   Scan# 788
Delta R.T.   0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion: 43 Resp: 1170698

Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
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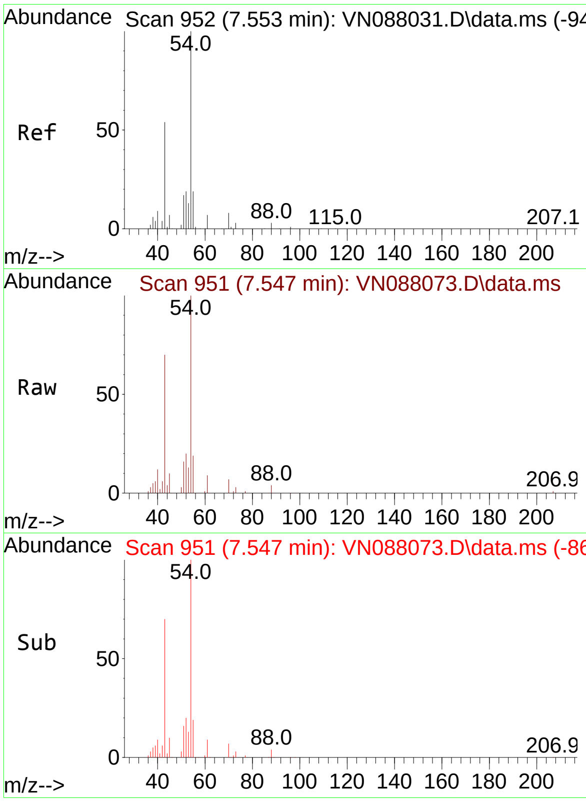
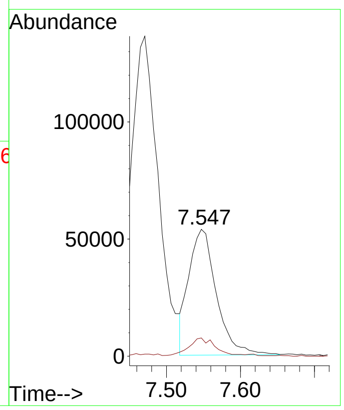
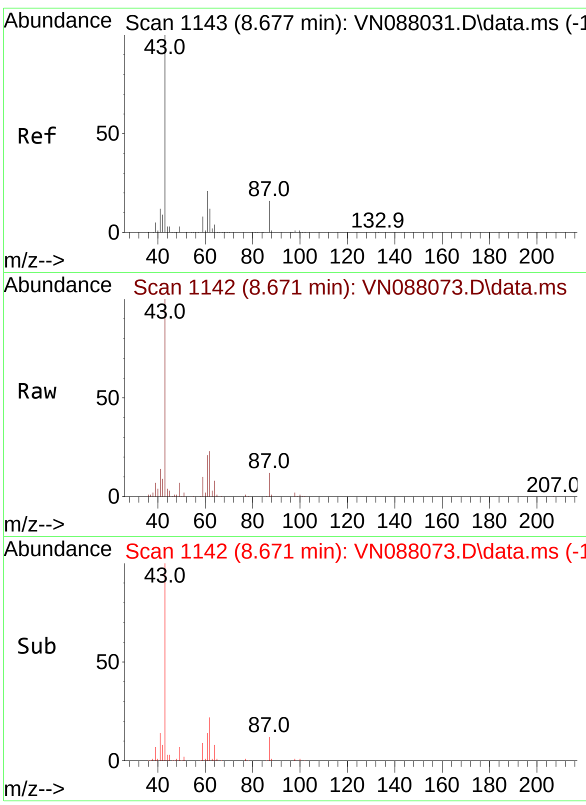


#43
Ethyl Acetate
Concen: 20.032 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 43 Resp: 13978

Ion	Ratio	Lower	Upper
43	100		
45	13.7	10.2	15.4

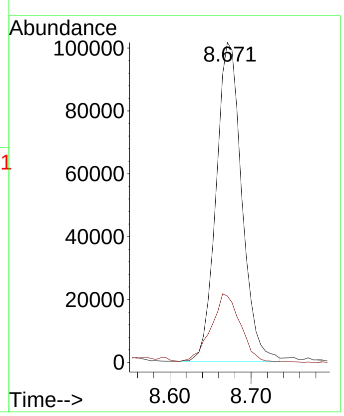




#44
Isopropyl Acetate
Concen: 19.686 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 43 Resp: 224369

Ion	Ratio	Lower	Upper
43	100		
61	24.6	18.7	28.1



Instrument :
MSVOA_N
ClientSampleId :
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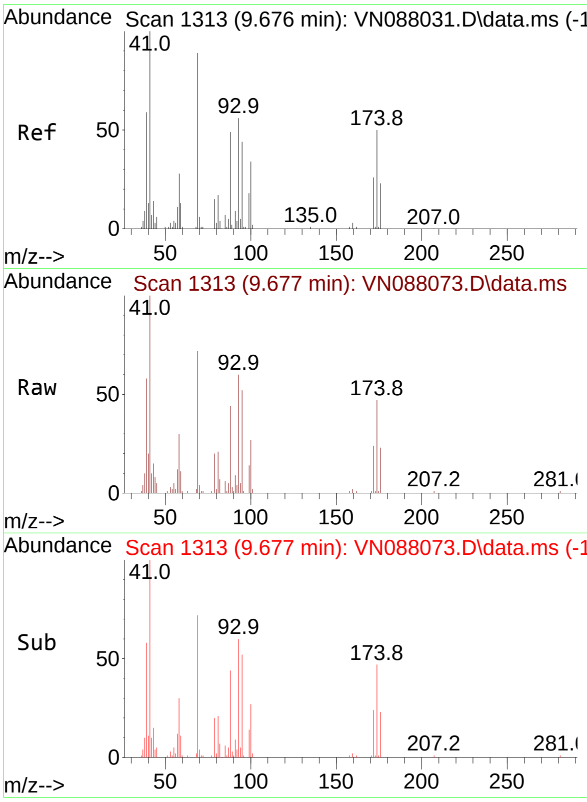
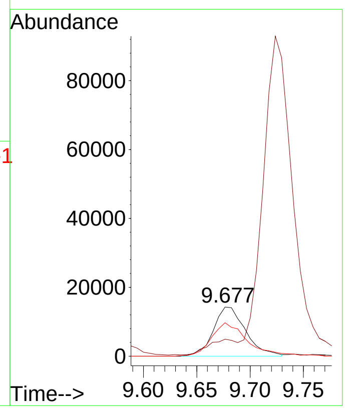
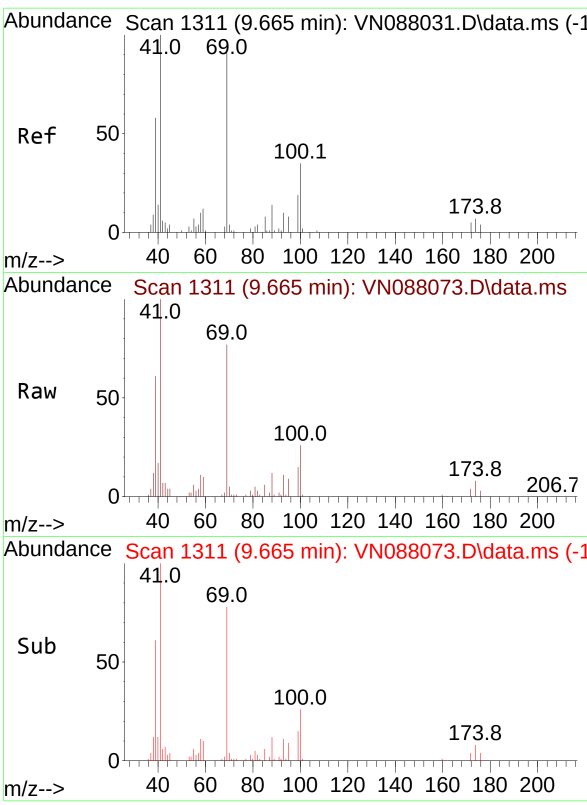


#45
1,4-Dioxane
Concen: 395.465 ug/l
RT: 9.677 min Scan# 1:
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 88 Resp: 2997

Ion	Ratio	Lower	Upper
88	100		
43	28.7	18.6	27.8#
58	75.4	57.4	86.2

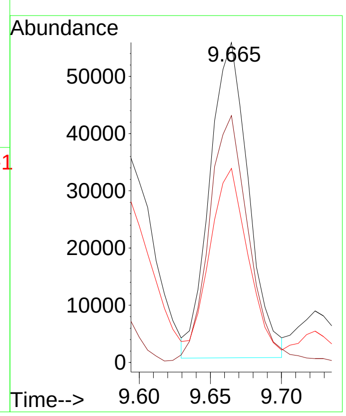




#46
Methyl methacrylate
Concen: 20.859 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 41 Resp: 104697

Ion	Ratio	Lower	Upper
41	100		
69	81.0	44.9	134.7
39	61.5	30.3	90.8



Instrument :
MSVOA_N
ClientSampleId :
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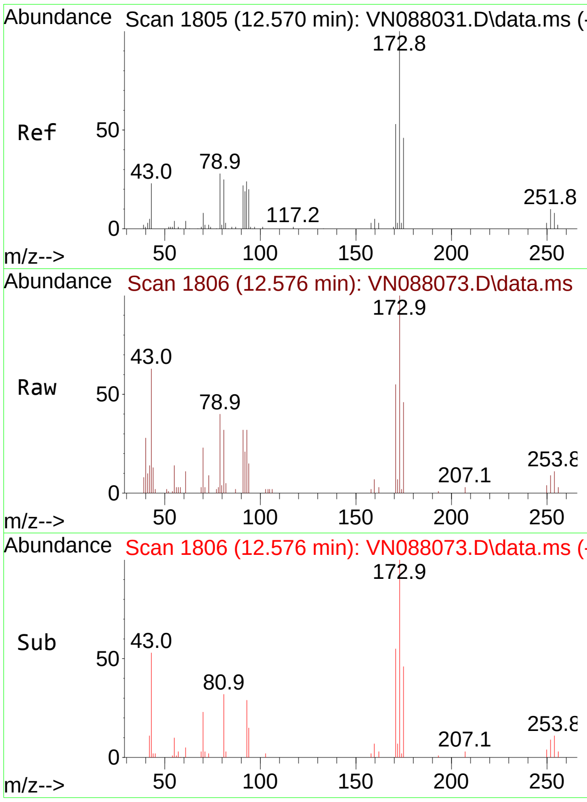
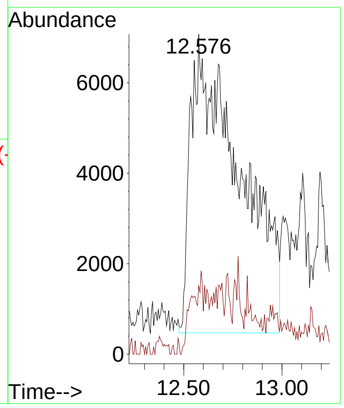
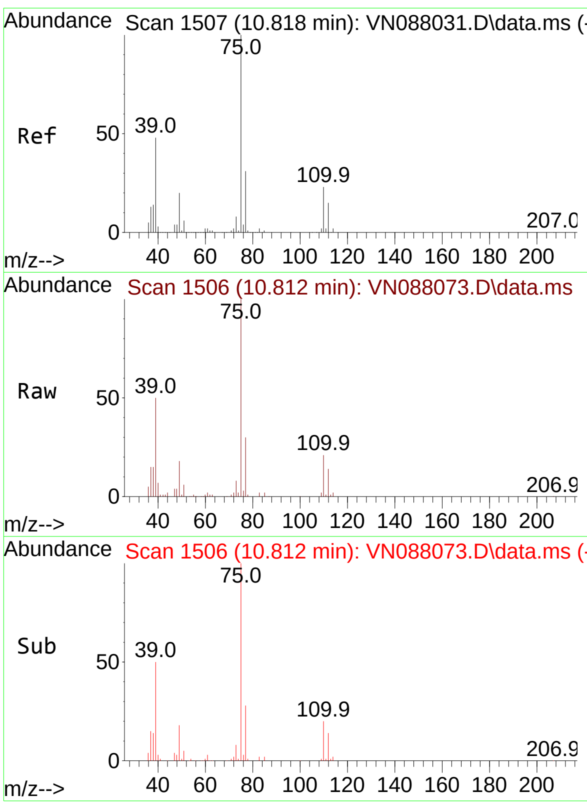


#47
n-amyl Acetate
Concen: 20.980 ug/l m
RT: 12.576 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 43 Resp: 113335

Ion	Ratio	Lower	Upper
43	100		
55	1.6	0.6	0.8

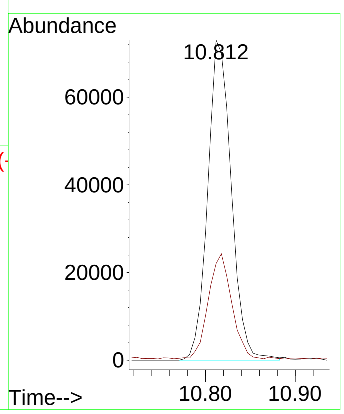




#48
t-1,3-Dichloropropene
Concen: 19.721 ug/l
RT: 10.812 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 75 Resp: 133458

Ion	Ratio	Lower	Upper
75	100		
77	29.7	24.5	36.7



Instrument :
MSVOA_N
ClientSampleId :
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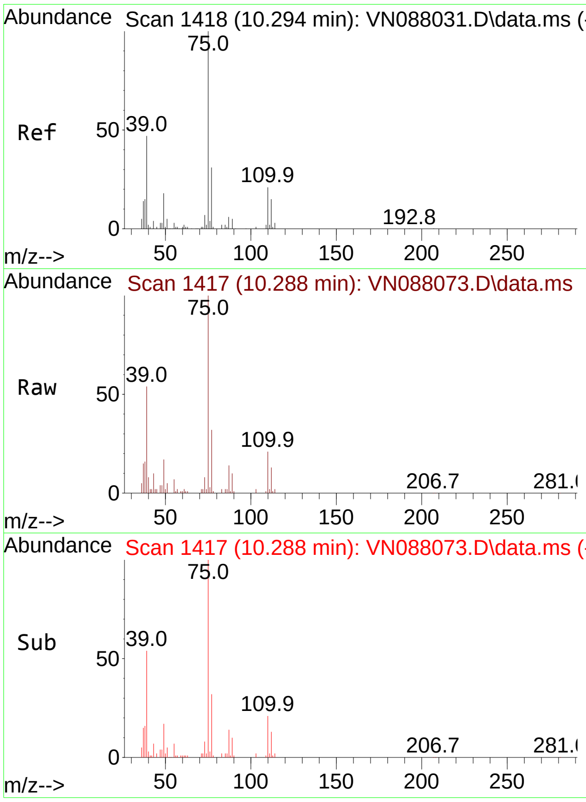
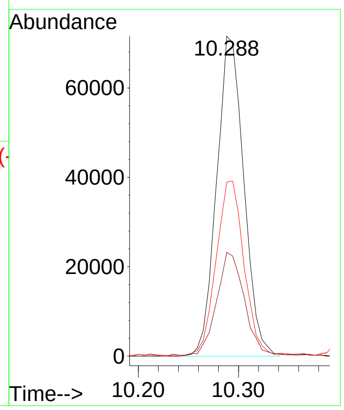
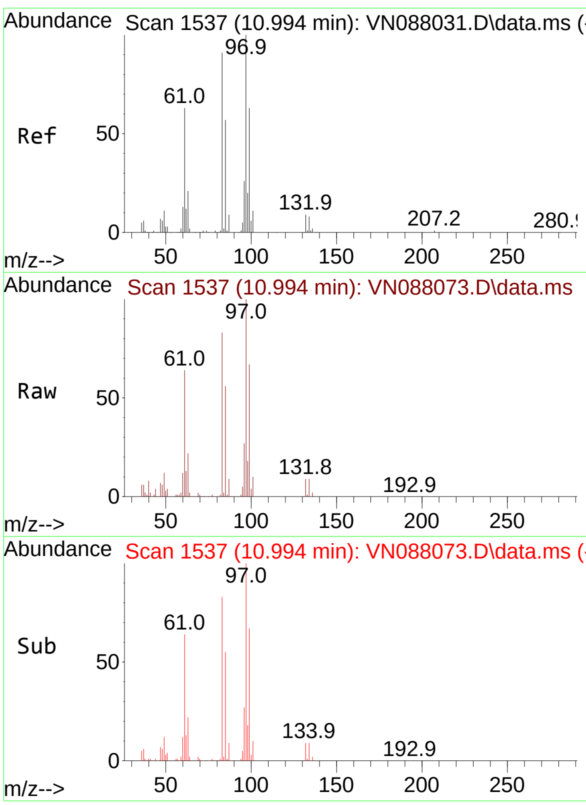


#49
cis-1,3-Dichloropropene
Concen: 19.155 ug/l
RT: 10.288 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 75 Resp: 13521

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.0	37.4
39	54.4	37.4	56.0

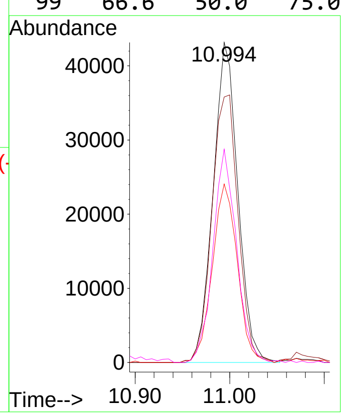




#50
1,1,2-Trichloroethane
Concen: 19.959 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 97 Resp: 78759

Ion	Ratio	Lower	Upper
97	100		
83	83.0	72.5	108.7
85	55.7	45.5	68.3
99	66.6	50.0	75.0



Instrument :
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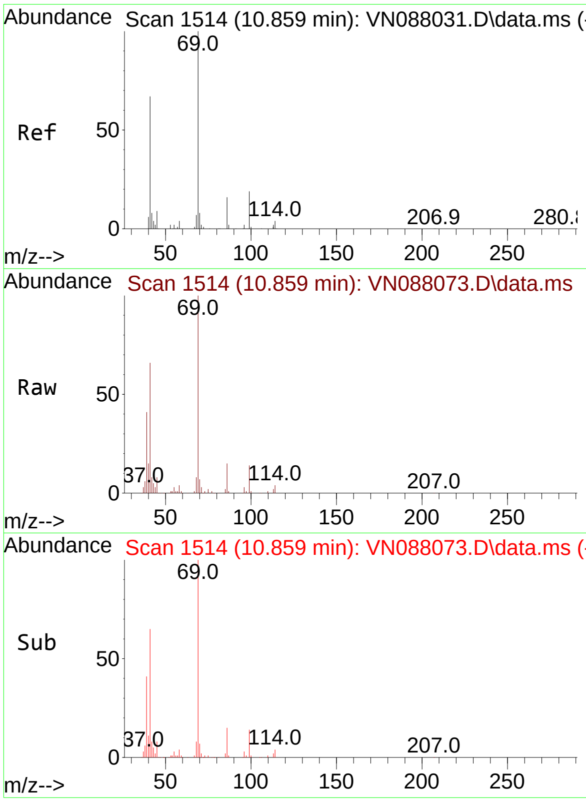
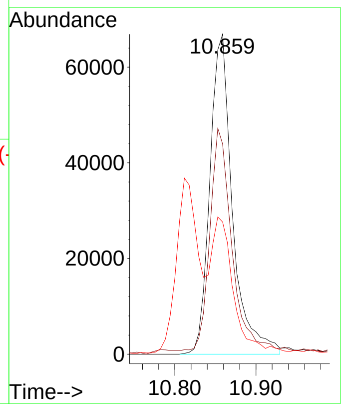
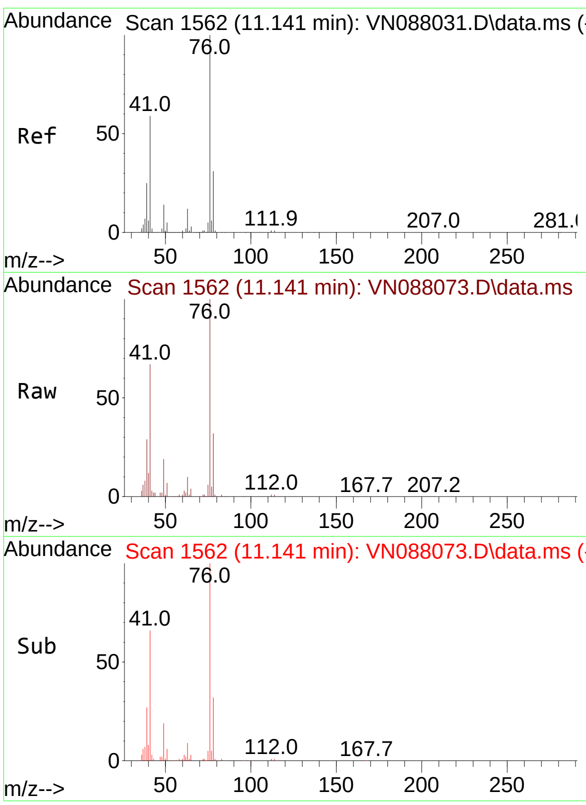


#51
Ethyl methacrylate
Concen: 19.460 ug/l
RT: 10.859 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 69 Resp: 12995

Ion	Ratio	Lower	Upper
69	100		
41	64.6	33.3	99.8
39	39.8	20.3	61.0

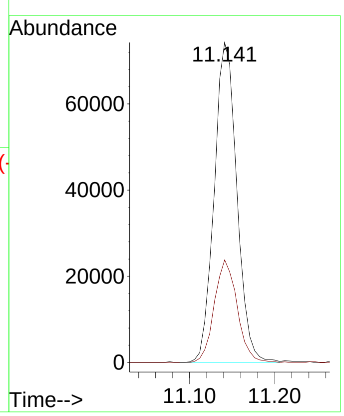




#52
1,3-Dichloropropane
Concen: 20.006 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 76 Resp: 137735

Ion	Ratio	Lower	Upper
76	100		
78	32.4	0.0	65.0



Instrument :
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ClientSampleId :
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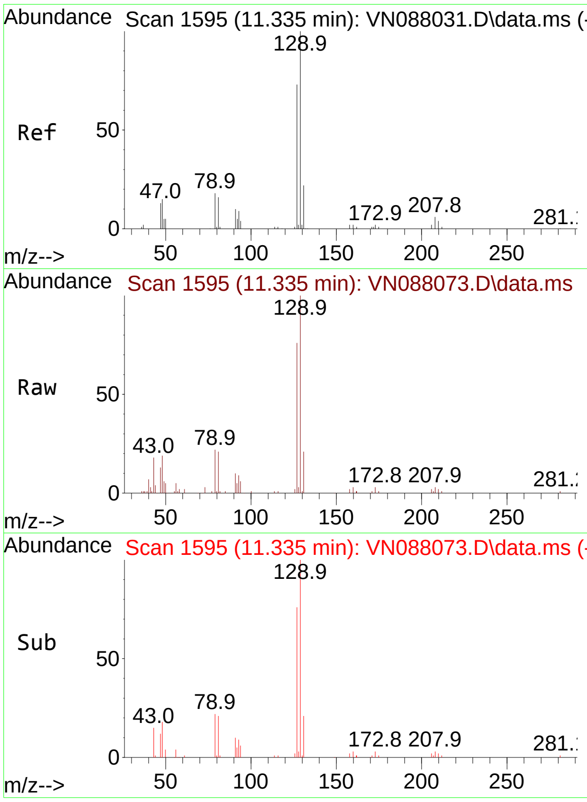
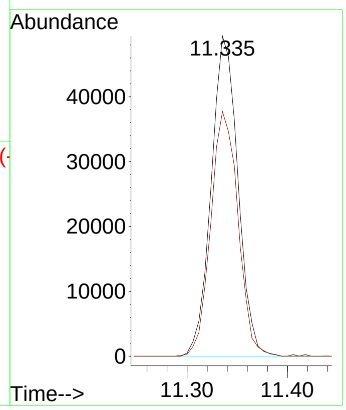
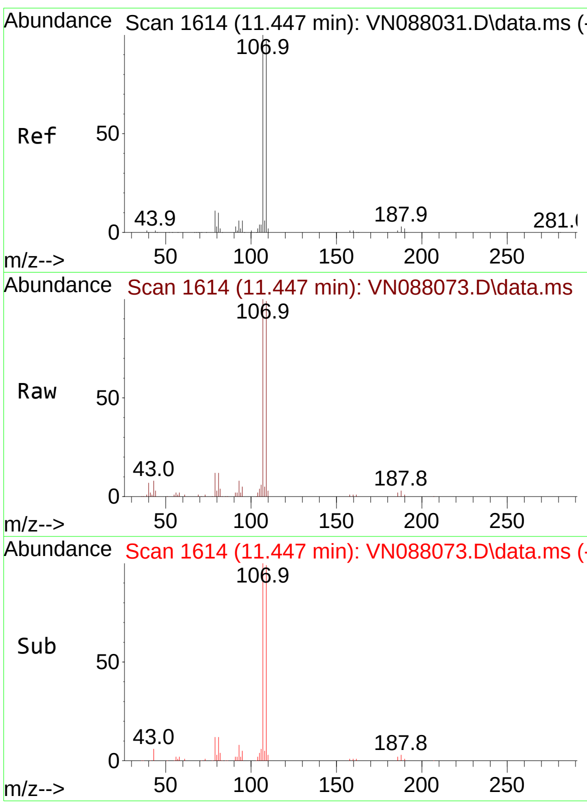


#53
Dibromochloromethane
Concen: 19.363 ug/l
RT: 11.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:129 Resp: 9134

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.1	117.3

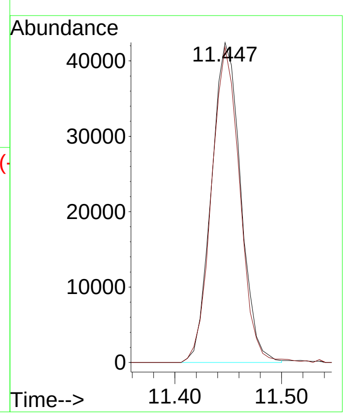


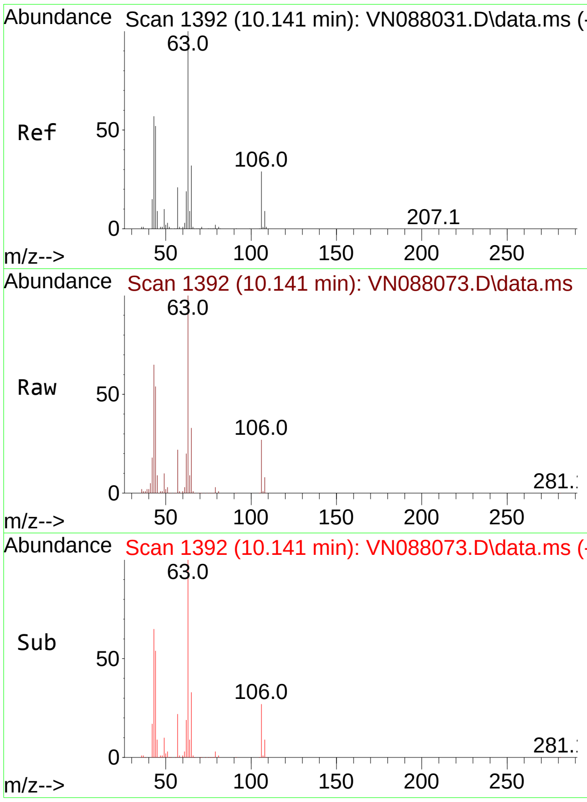


#54
1,2-Dibromoethane
Concen: 19.129 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:107 Resp: 80700

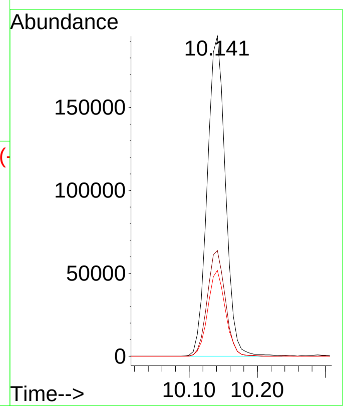
Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.5	113.3






```
#55
2-Chloroethyl vinyl ether
Concen:   99.423 ug/l
RT:  10.141 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088073.D
Acq: 20 Oct 2025  09:26

Tgt Ion: 63 Resp:  35839
Ion  Ratio  Lower  Upper
 63  100
 65   32.4   25.7   38.5
106   26.0   22.6   34.0
```



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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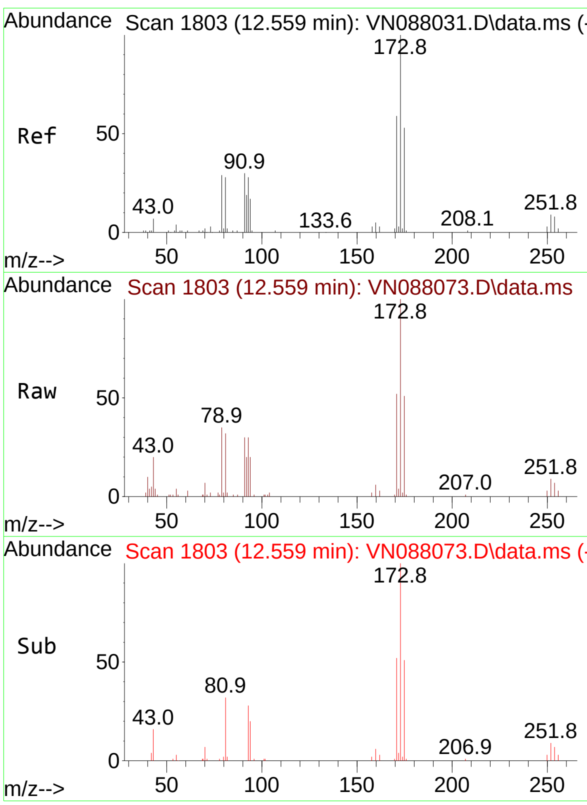
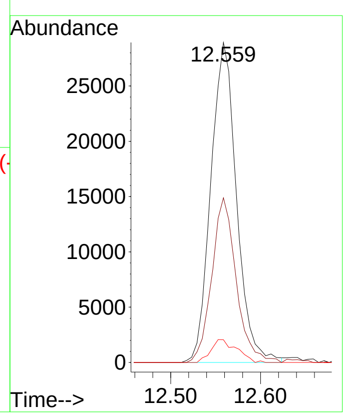
Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

10/21/2025




```
#56
Bromoform
Concen:   18.065 ug/l
RT:  12.559 min  Scan# 1803
Delta R.T.  0.000 min
Lab File:   VN088073.D
Acq: 20 Oct 2025  09:26

Tgt Ion:173 Resp:   57617
Ion  Ratio  Lower  Upper
173  100
175   48.5   39.6   59.4
254    7.1    6.6   10.0
```

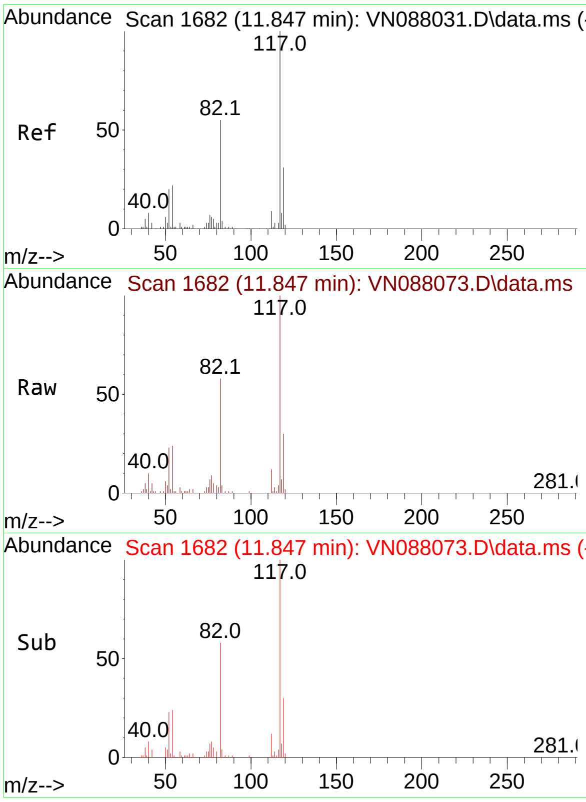


Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

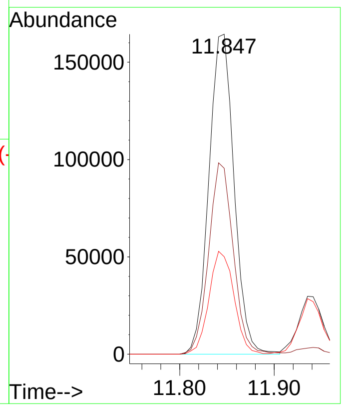
Manual Integrations
APPROVED

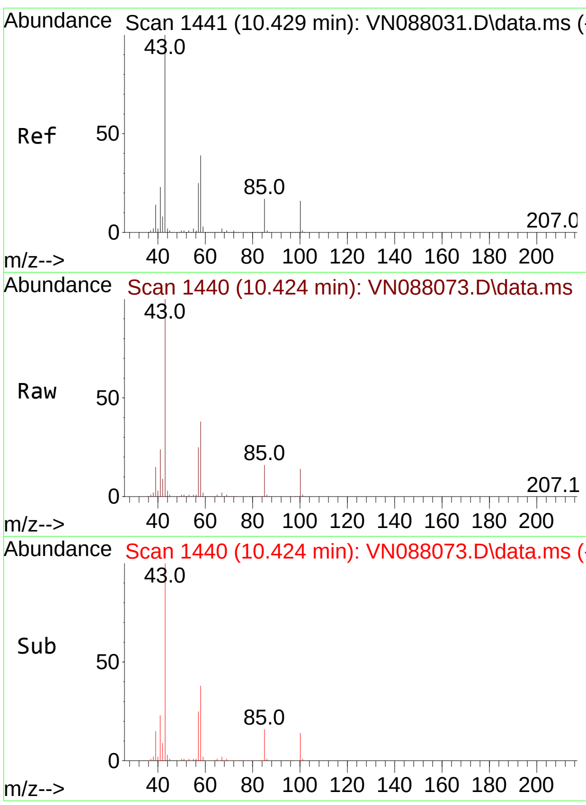
Reviewed By :John
Carlone
10/21/2025
Supervised By :Semsettin
Yesilyurt

10/21/2025

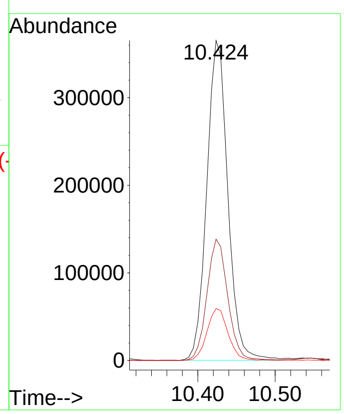


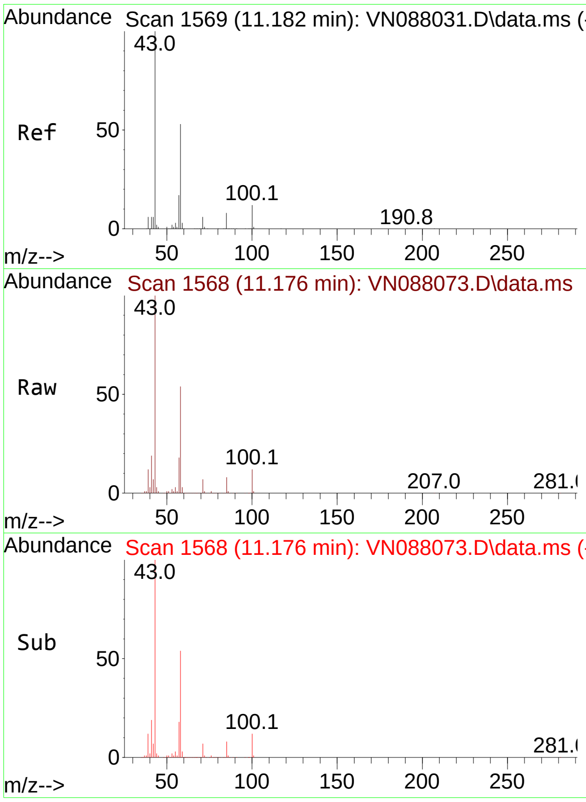

```
#57
Chlorobenzene-d5
Concen:   30.000 ug/l
RT:  11.847 min  Scan# 1(
Delta R.T.  0.000 min
Lab File:   VN088073.D
Acq: 20 Oct 2025  09:26

Tgt Ion:117 Resp:  30468
Ion  Ratio  Lower  Upper
117  100
 82   58.5   45.2   67.8
119   31.9   25.9   38.9
```






```
#58
4-Methyl-2-Pentanone
Concen:  101.227 ug/l
RT:  10.424 min  Scan# 1440
Delta R.T.  -0.006 min
Lab File:   VN088073.D
Acq: 20 Oct 2025  09:26

Tgt Ion: 43 Resp:  689865
Ion  Ratio  Lower  Upper
 43  100
 58   37.6   31.2   46.8
 85   16.2   13.7   20.5
```





#59
2-Hexanone
Concen: 97.743 ug/l
RT: 11.176 min Scan# 1!
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 43 Resp: 43980(

Ion	Ratio	Lower	Upper
43	100		
58	55.2	43.1	64.7
57	18.6	14.6	21.8

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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Reviewed By :John Carlone
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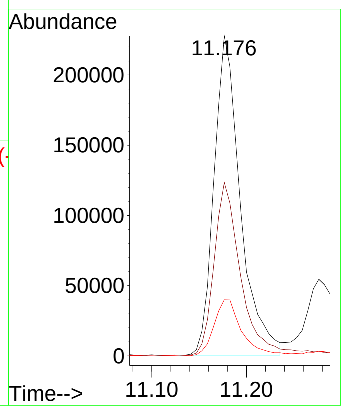
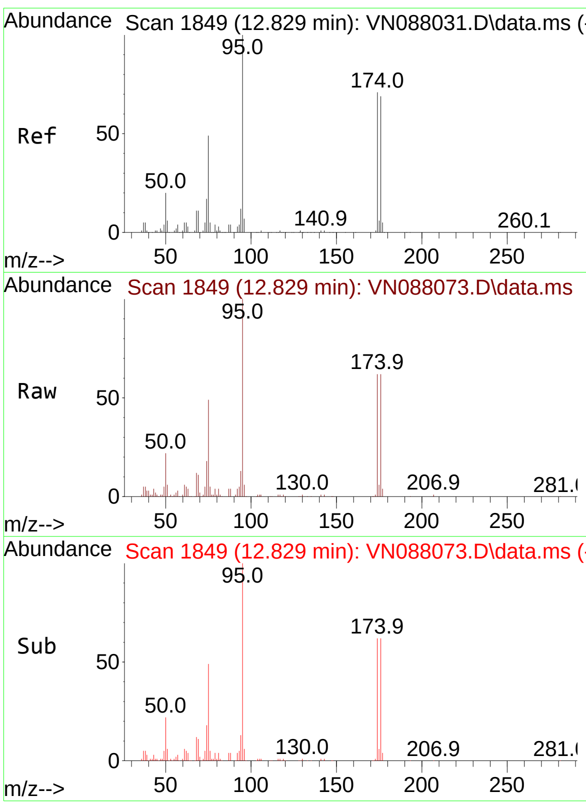
Supervised By :Semsettin Yesilyurt

10/21/2025

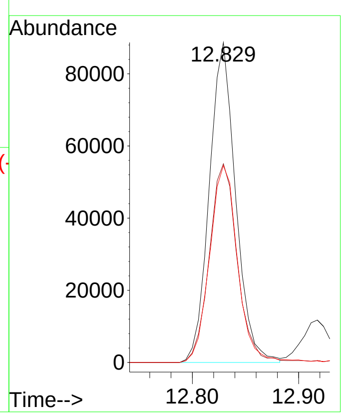




#60
4-Bromofluorobenzene
Concen: 30.443 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 95 Resp: 152913

Ion	Ratio	Lower	Upper
95	100		
174	65.5	57.4	86.0
176	64.9	57.0	85.4



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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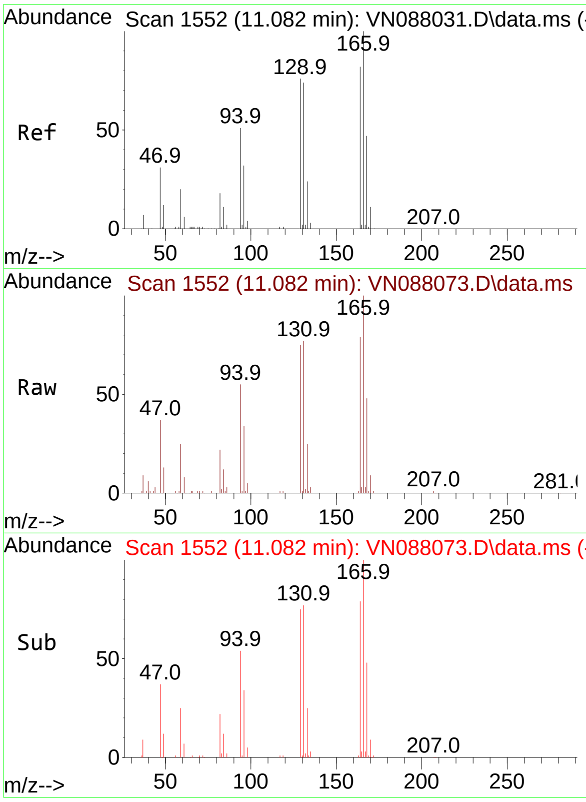
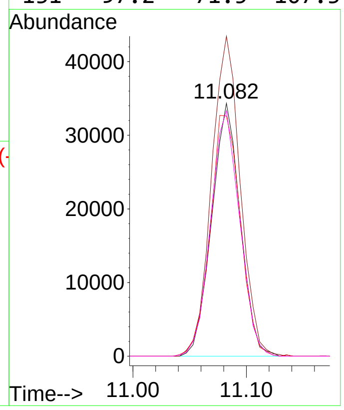
10/21/2025

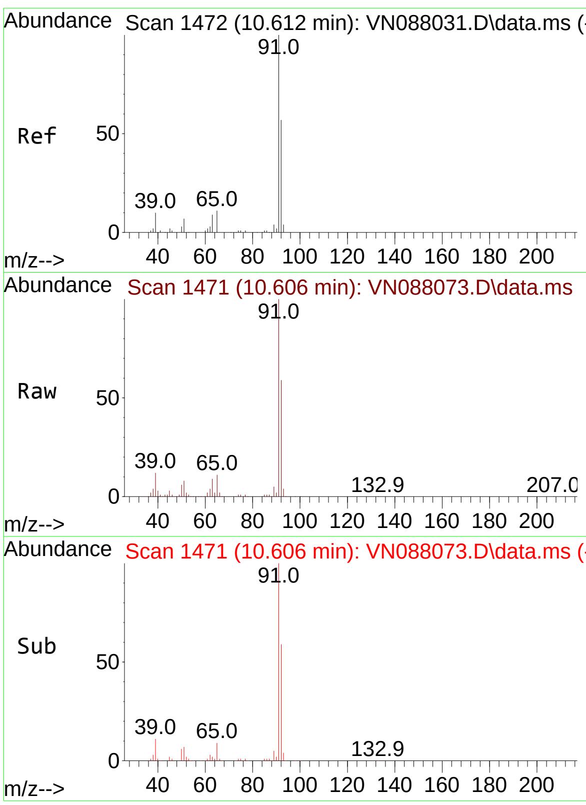


#61
Tetrachloroethene
Concen: 19.362 ug/l
RT: 11.082 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:164 Resp: 5974

Ion	Ratio	Lower	Upper
164	100		
166	126.5	97.2	145.8
129	94.9	73.7	110.5
131	97.2	71.5	107.3

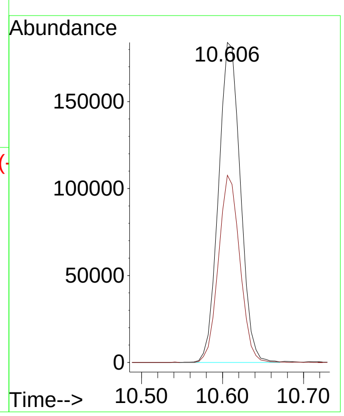


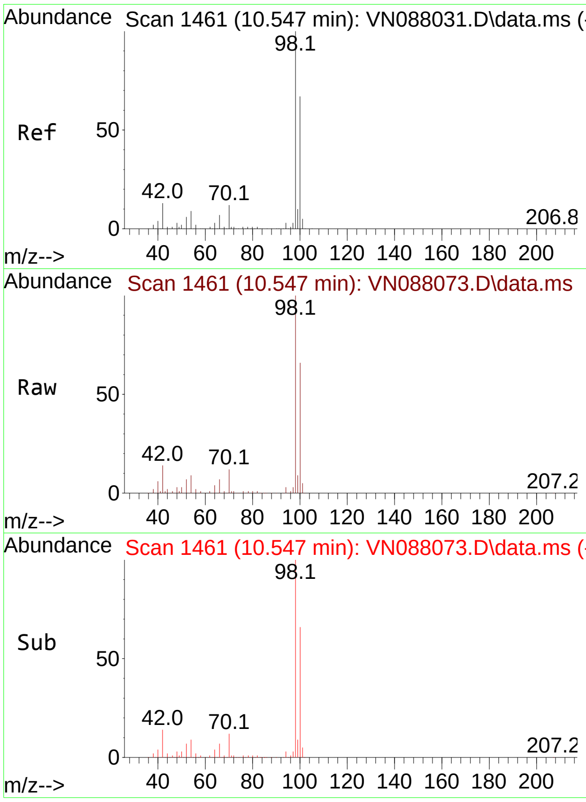


#62
Toluene
Concen: 20.038 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 91 Resp: 346319

Ion	Ratio	Lower	Upper
91	100		
92	57.0	45.8	68.8





#63
Toluene-d8
Concen: 30.949 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 98 Resp: 42013

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.1	79.7

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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Reviewed By :John Carlone
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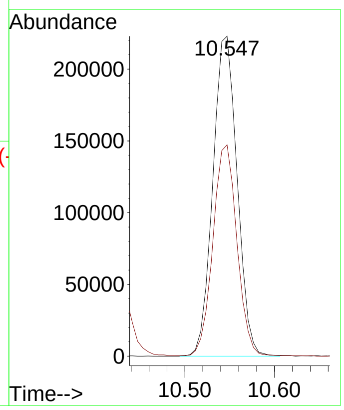
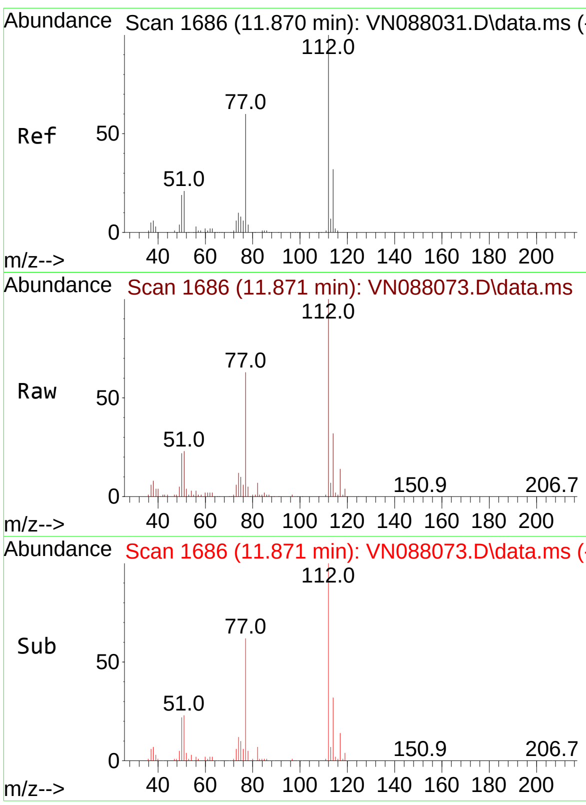
Supervised By :Semsettin Yesilyurt

10/21/2025

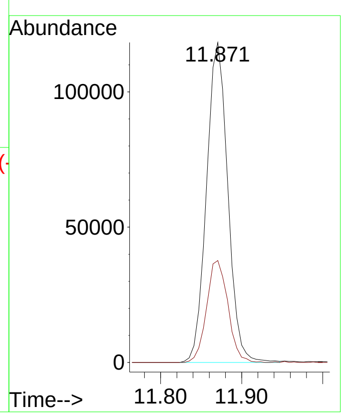


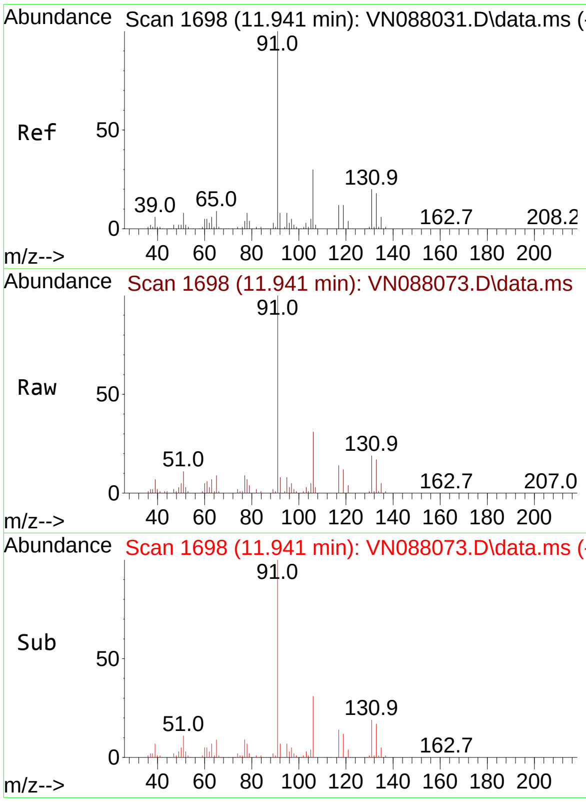


#64
Chlorobenzene
Concen: 19.588 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:112 Resp: 216235

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.7	38.5





#65
1,1,1,2-Tetrachloroethane
Concen: 20.076 ug/l
RT: 11.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Tgt Ion:131 Resp: 7637(

Ion	Ratio	Lower	Upper
131	100		
133	93.6	0.0	183.8
119	65.4	0.0	132.0

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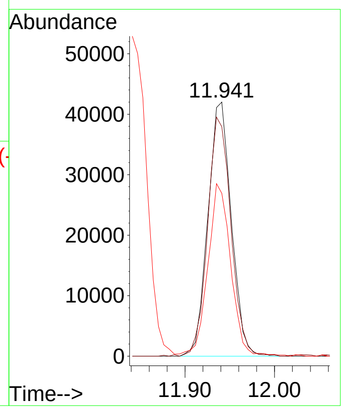
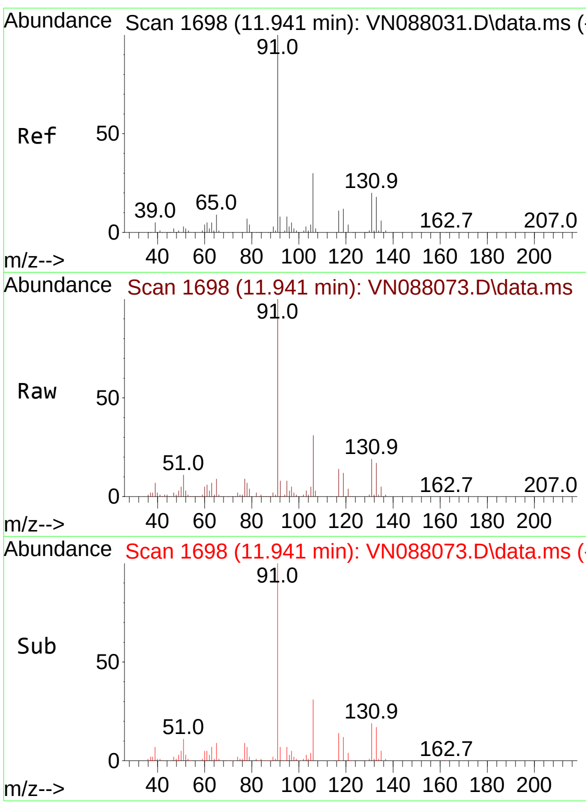
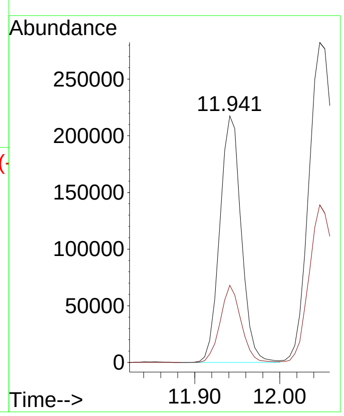




#66
Ethyl Benzene
Concen: 20.329 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 91 Resp: 382033

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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Supervised By :Semsettin Yesilyurt

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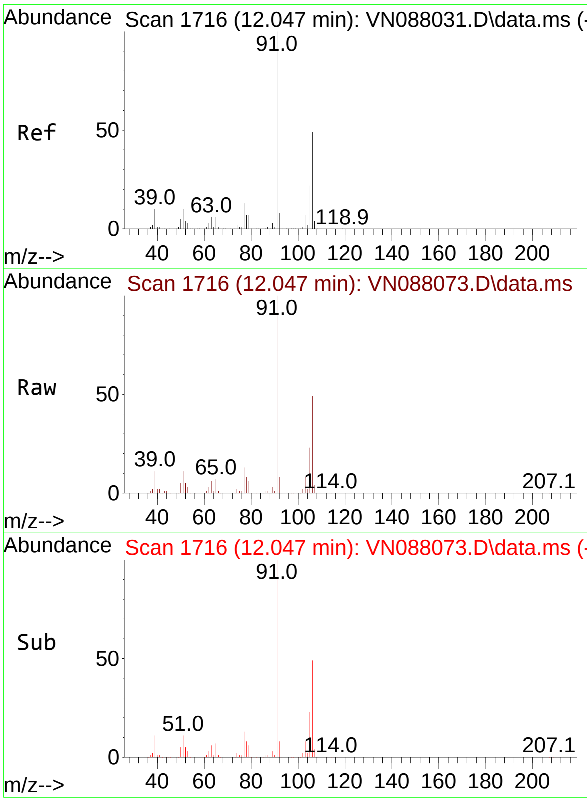
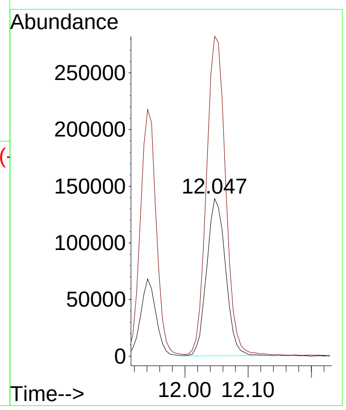
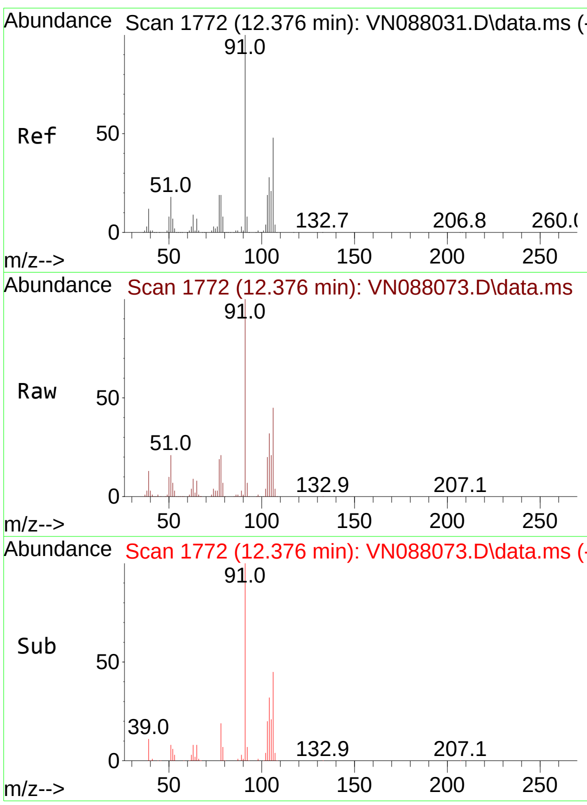
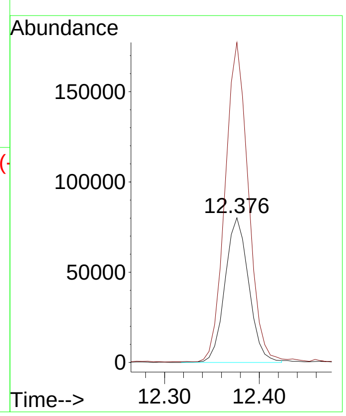


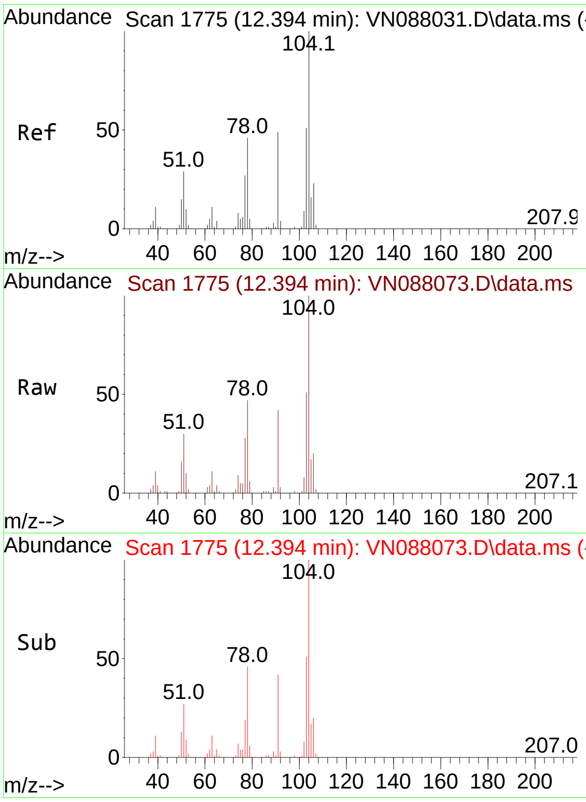

```
#67
m/p-Xylenes
Concen:   39.877 ug/l
RT:  12.047 min  Scan# 17
Delta R.T.  0.000 min
Lab File:   VN088073.D
Acq: 20 Oct 2025  09:26

Tgt Ion:106 Resp:  28889
Ion  Ratio  Lower  Upper
106  100
 91  207.0  161.4  242.0
```






```
#68
o-Xylene
Concen:   19.369 ug/l
RT:  12.376 min  Scan# 1772
Delta R.T.  0.000 min
Lab File:   VN088073.D
Acq: 20 Oct 2025  09:26

Tgt Ion:106 Resp:  139692
Ion  Ratio  Lower  Upper
106  100
 91  216.3  105.2  315.6
```

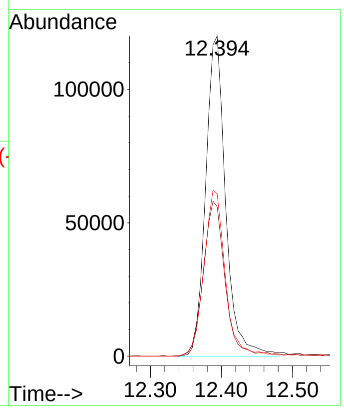




#69
Styrene
Concen: 19.714 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:104 Resp: 23519

Ion	Ratio	Lower	Upper
104	100		
78	52.0	41.8	62.6
103	54.3	44.9	67.3



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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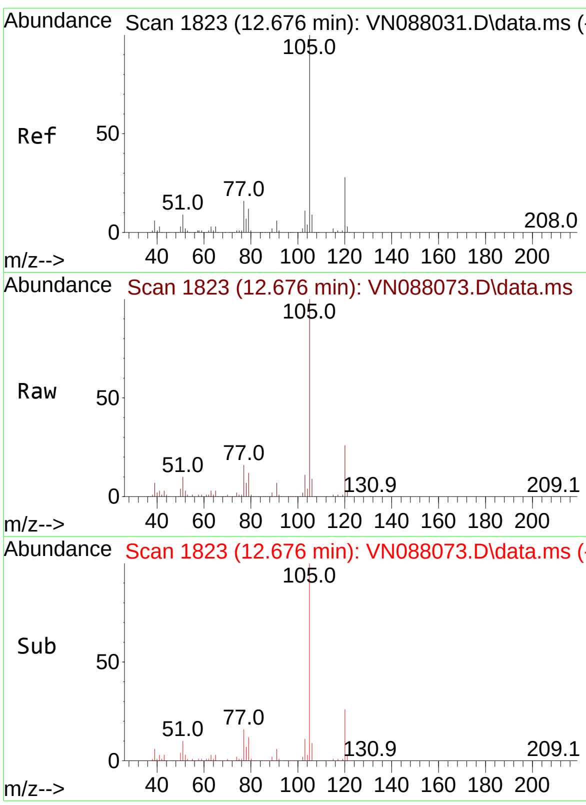
Supervised By :Semsettin Yesilyurt

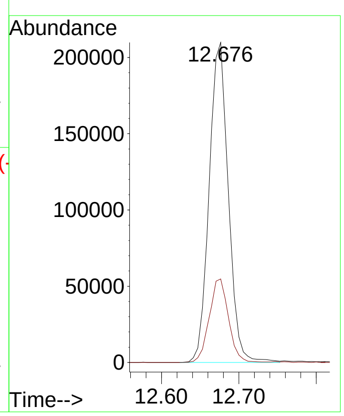
10/21/2025

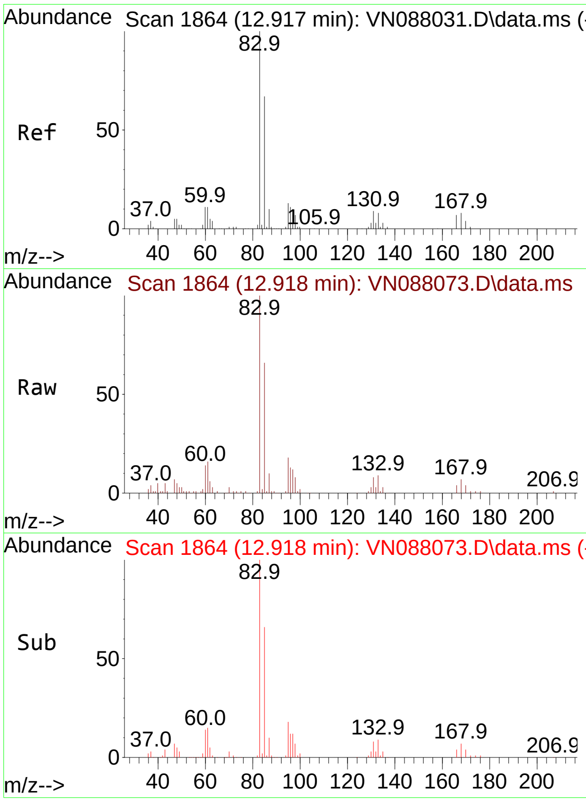


#70
Isopropylbenzene
Concen: 20.478 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:105 Resp: 361962

Ion	Ratio	Lower	Upper
105	100		
120	26.1	19.1	35.5





#71
1,1,2,2-Tetrachloroethane
Concen: 20.162 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Tgt Ion: 83 Resp: 12082

Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.8	14.3
85	64.3	32.4	97.2

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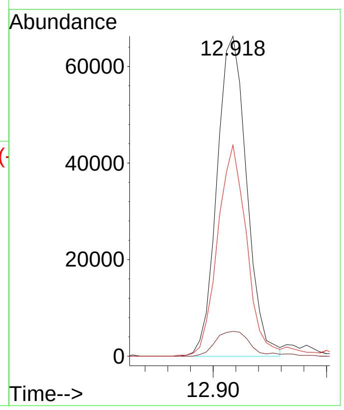
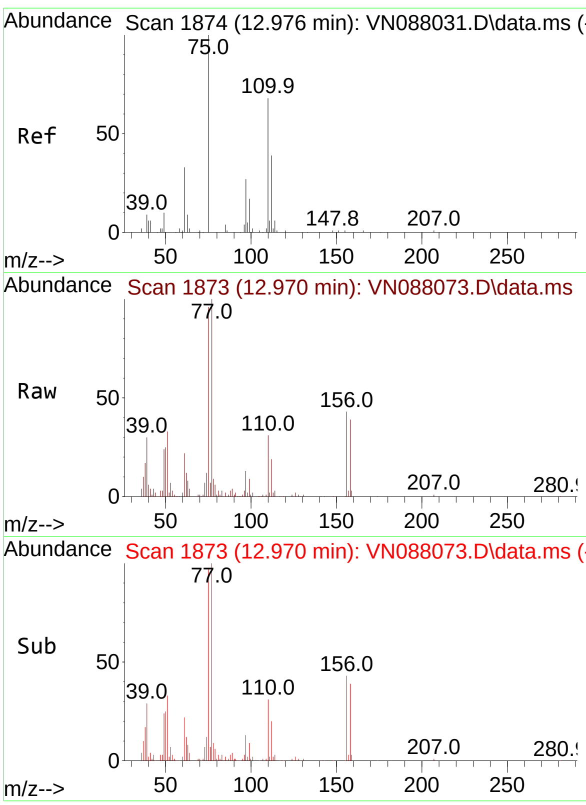
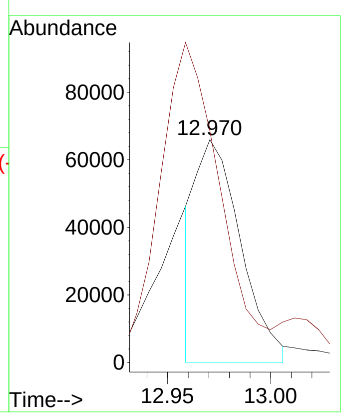


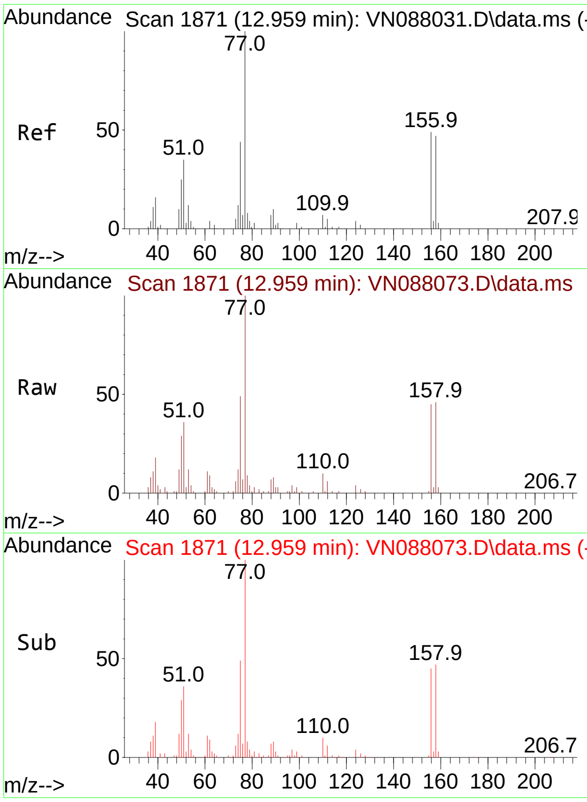


#72
1,2,3-Trichloropropane
Concen: 18.063 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 75 Resp: 100533

Ion	Ratio	Lower	Upper
75	100		
77	192.0	0.0	364.0





#73
Bromobenzene
Concen: 18.325 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:156 Resp: 79169

Ion	Ratio	Lower	Upper
156	100		
77	243.8	0.0	439.8
158	99.4	0.0	190.0

Instrument : MSVOA_N
ClientSampleId : VN1020WBS01

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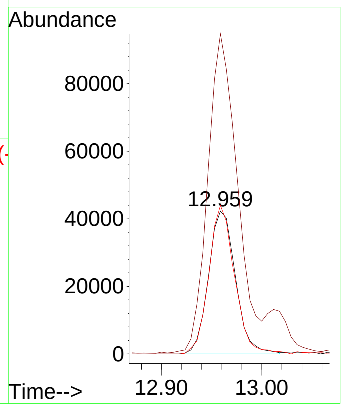
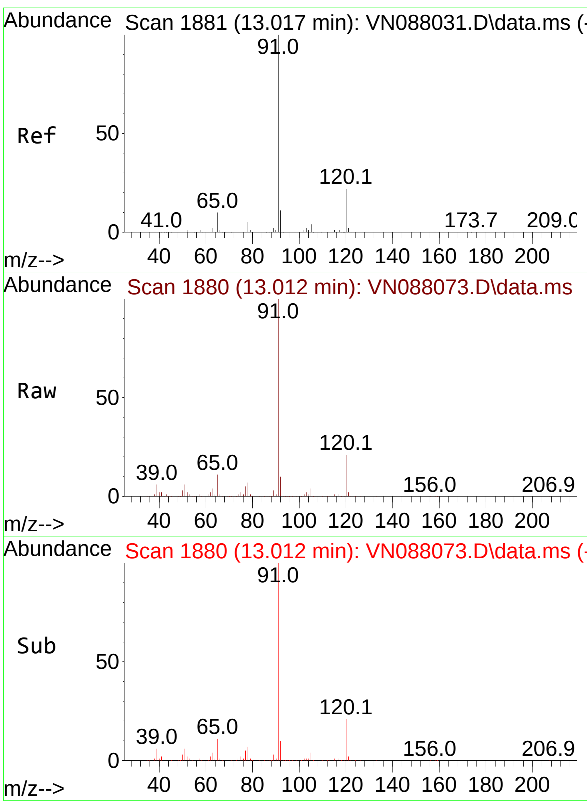
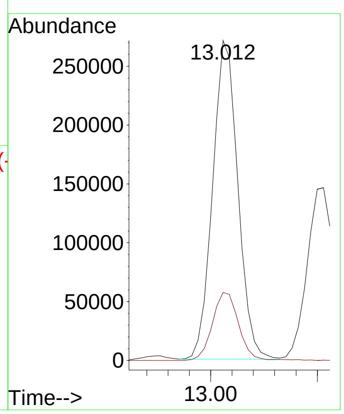




#74
n-propylbenzene
Concen: 20.885 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 91 Resp: 445643

Ion	Ratio	Lower	Upper
91	100		
120	21.9	0.0	46.2



Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

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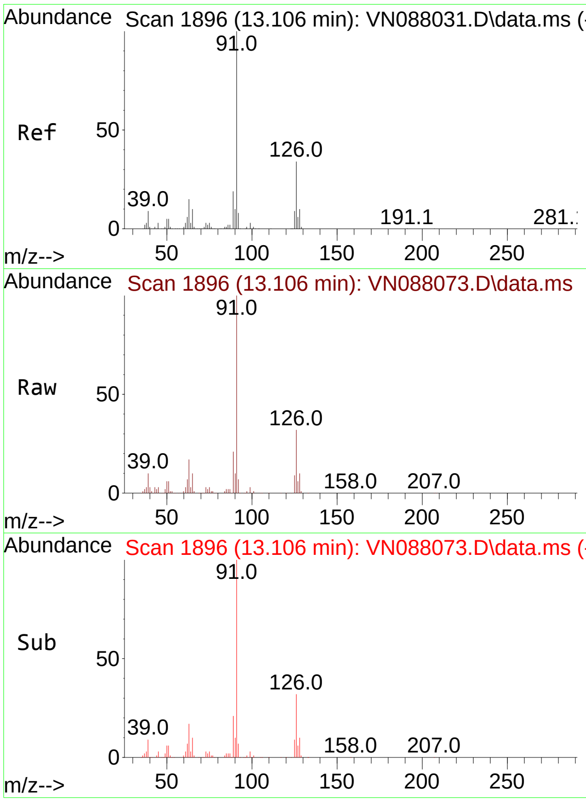
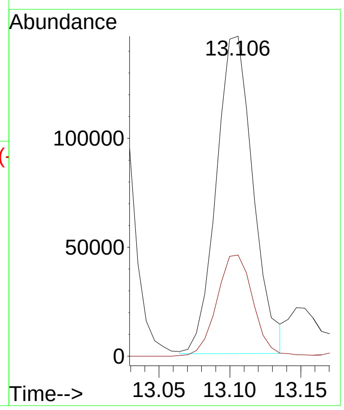
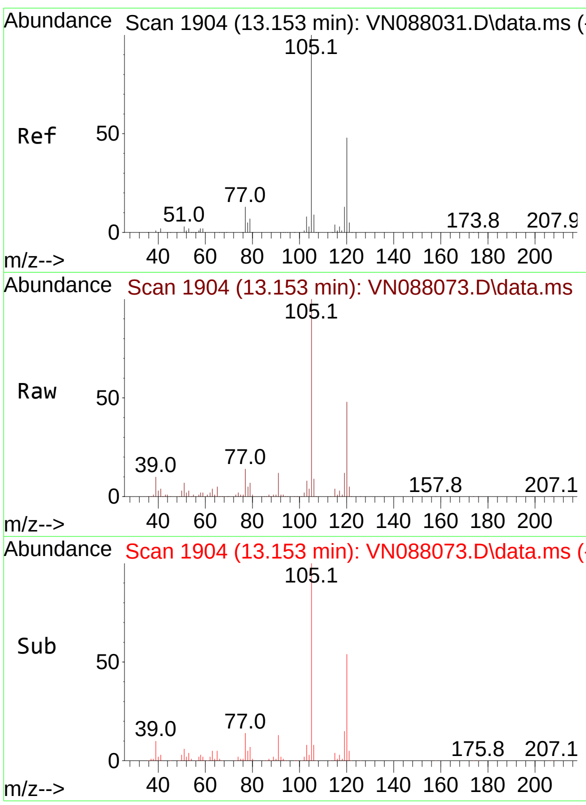
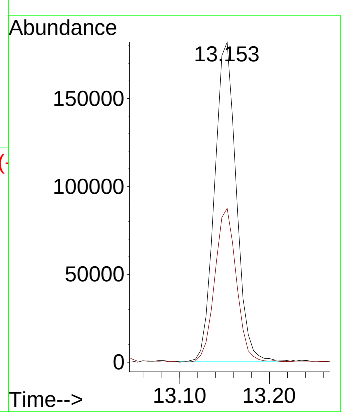



```
#75
2-Chlorotoluene
Concen:   20.191 ug/l
RT:  13.106 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088073.D
Acq: 20 Oct 2025  09:26

Tgt Ion: 91 Resp:  26343
Ion  Ratio  Lower  Upper
 91  100
126   31.5    0.0   66.6
```






```
#76
1,3,5-Trimethylbenzene
Concen:   20.428 ug/l
RT:  13.153 min  Scan# 1904
Delta R.T.  0.000 min
Lab File:   VN088073.D
Acq: 20 Oct 2025  09:26

Tgt Ion:105 Resp:  306719
Ion  Ratio  Lower  Upper
105  100
120   47.7    0.0  100.6
```

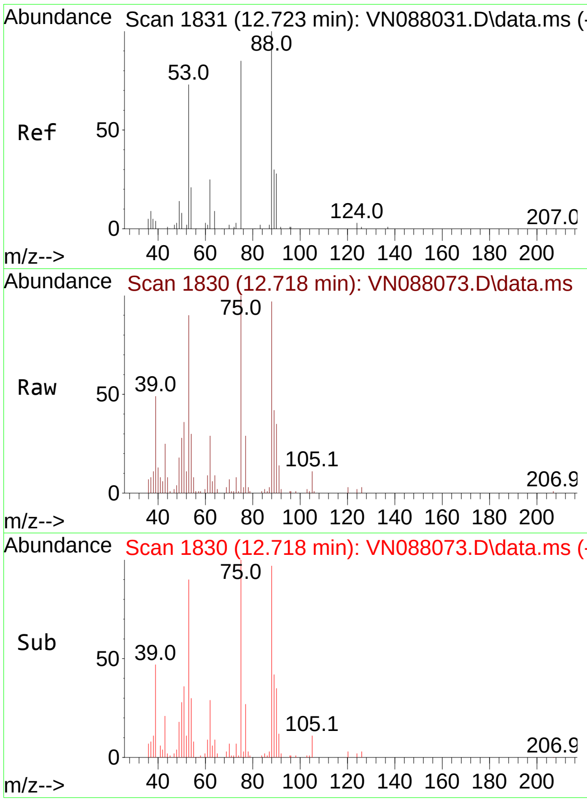


Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

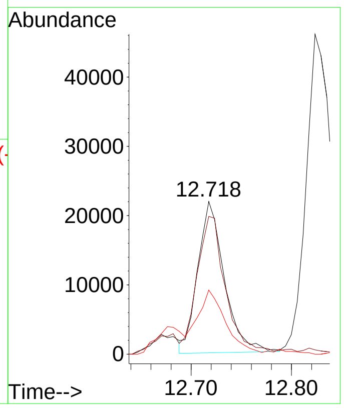
Manual Integrations APPROVED

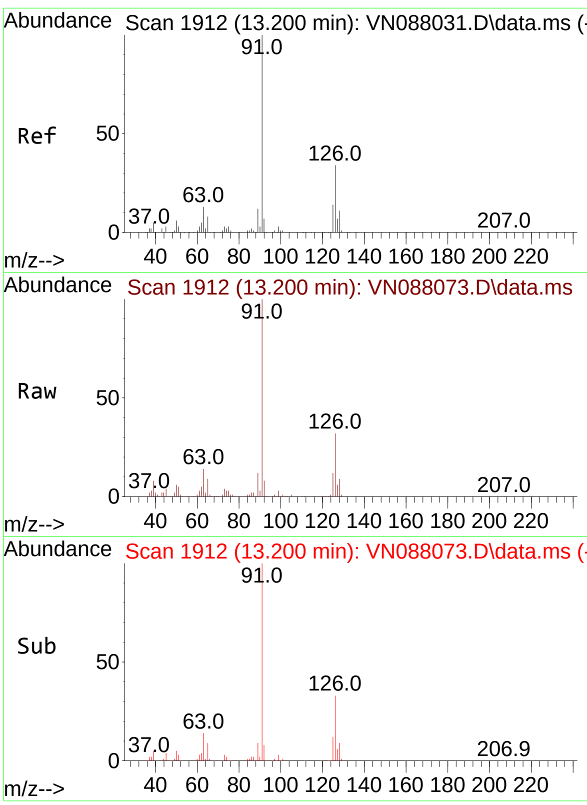
Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

10/21/2025

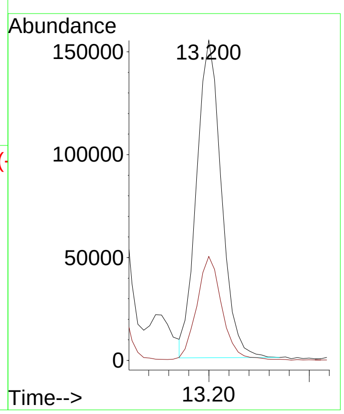



```
#77
t-1,4-Dichloro-2-butene
Concen:   18.165 ug/l
RT:  12.718 min   Scan# 1
Delta R.T.   -0.006 min
Lab File:    VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion: 75 Resp:   4029
Ion   Ratio   Lower   Upper
 75   100
 53    90.3    41.8   125.3
 89    39.8    19.9    59.6
```






```
#78
4-Chlorotoluene
Concen:   20.113 ug/l
RT:  13.200 min   Scan# 1912
Delta R.T.   0.000 min
Lab File:    VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion: 91 Resp:   266609
Ion   Ratio   Lower   Upper
 91   100
126    33.5     0.0    68.8
```

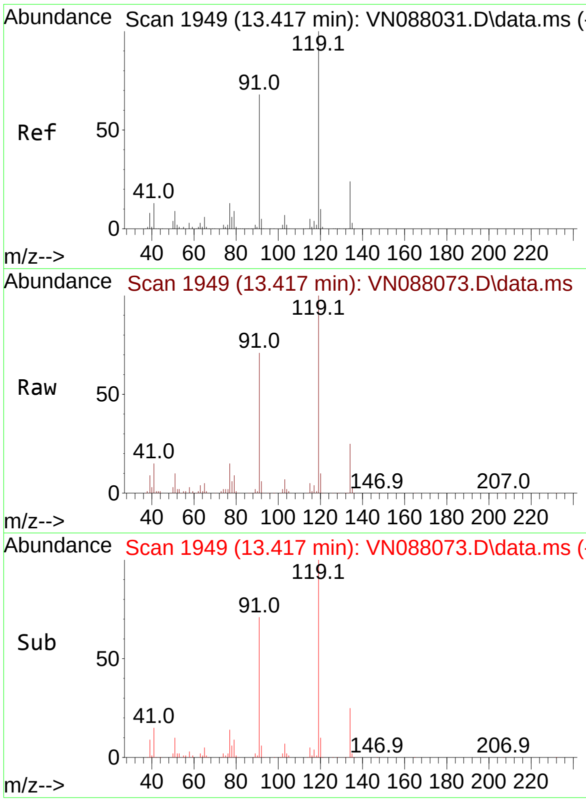


Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

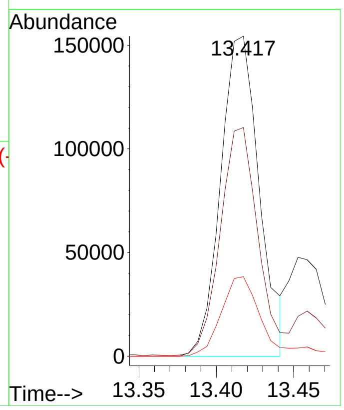
Manual Integrations APPROVED

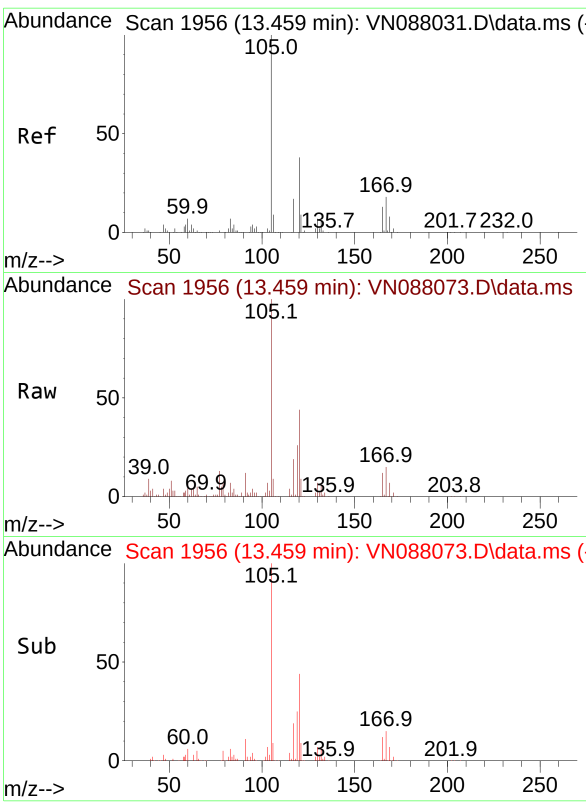
Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

10/21/2025

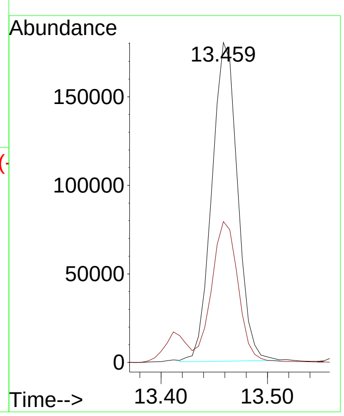


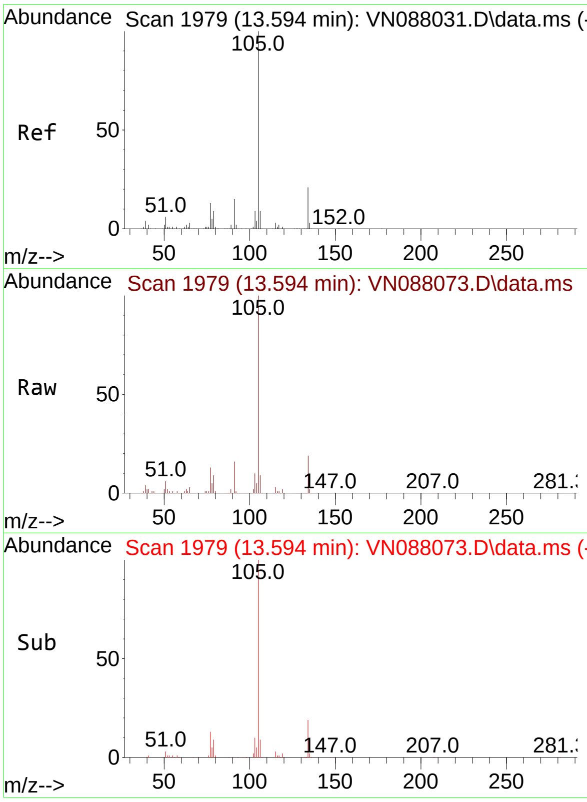

```
#79
tert-butylbenzene
Concen:   20.607 ug/l
RT:  13.417 min  Scan# 19
Delta R.T.  0.000 min
Lab File:   VN088073.D
Acq: 20 Oct 2025  09:26

Tgt Ion:119 Resp:  26822
Ion  Ratio  Lower  Upper
119  100
 91   70.0    0.0  132.4
134   24.5    0.0   48.6
```






```
#80
1,2,4-Trimethylbenzene
Concen:   20.150 ug/l
RT:  13.459 min  Scan# 1956
Delta R.T.  0.000 min
Lab File:   VN088073.D
Acq: 20 Oct 2025  09:26

Tgt Ion:105 Resp:  302874
Ion  Ratio  Lower  Upper
105  100
120   44.7    0.0   93.8
```





#81
sec-Butylbenzene
Concen: 21.395 ug/l
RT: 13.594 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:105 Resp: 39155

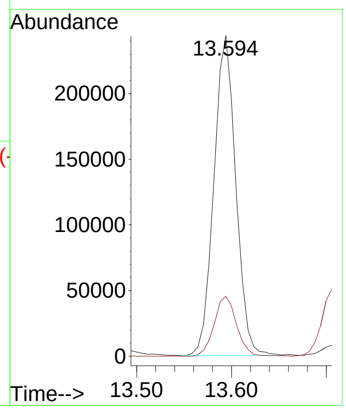
Ion	Ratio	Lower	Upper
105	100		
134	19.0	0.0	41.2

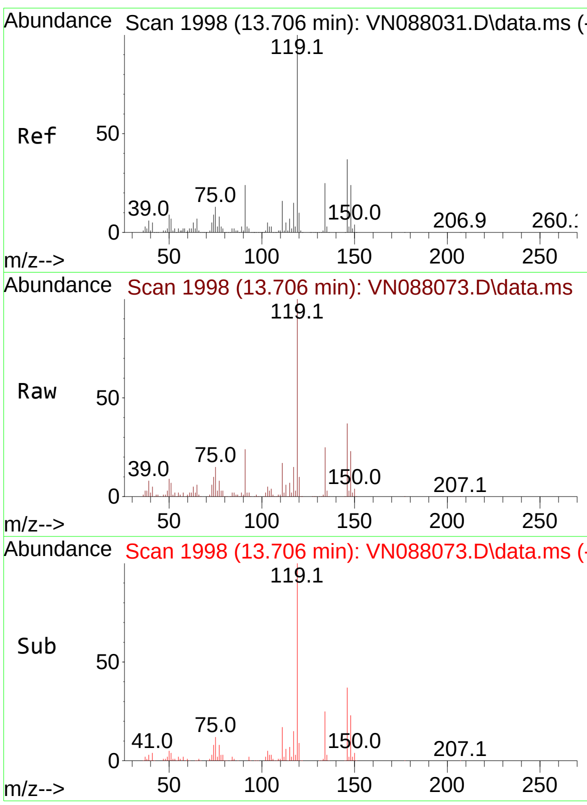
Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

10/21/2025

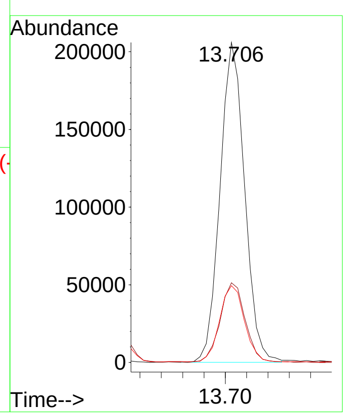




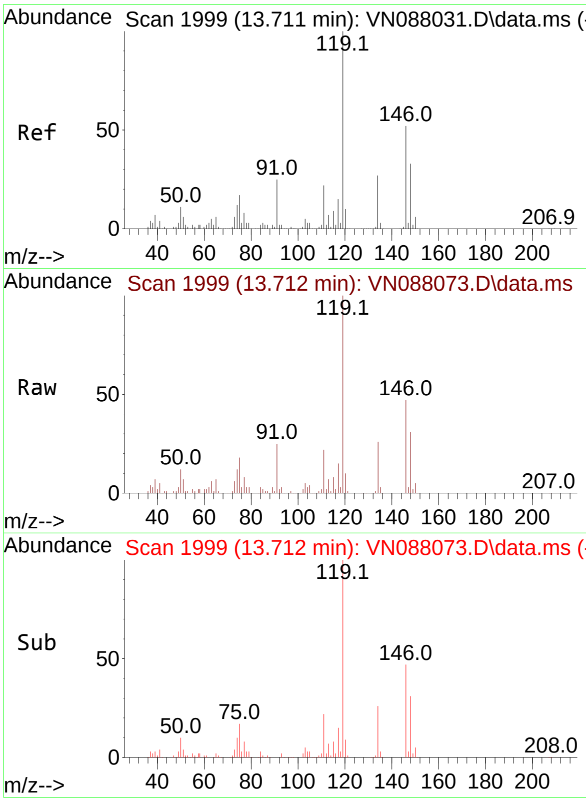
#82
p-Isopropyltoluene
Concen: 21.072 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:119 Resp: 329248

Ion	Ratio	Lower	Upper
119	100		
134	25.5	0.0	52.6
91	24.0	0.0	48.2



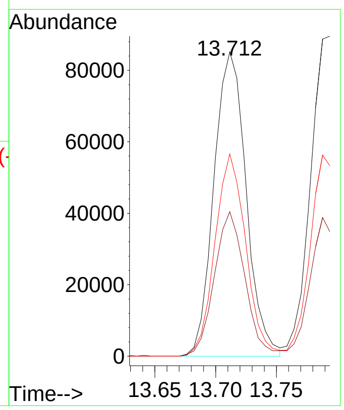
Sample Results: **VN088073.D**



#83
1,3-Dichlorobenzene
Concen: 19.334 ug/l
RT: 13.712 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:146 Resp: 15716

Ion	Ratio	Lower	Upper
146	100		
111	45.1	21.1	63.1
148	63.6	31.5	94.5

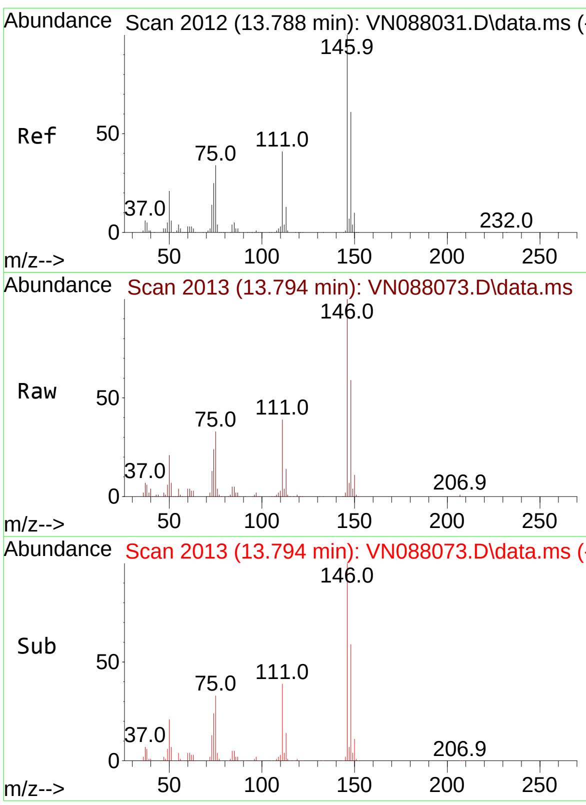


Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

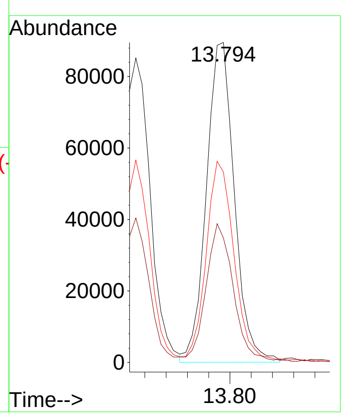
10/21/2025



#84
1,4-Dichlorobenzene
Concen: 19.550 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:146 Resp: 163893

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.5	61.6
148	63.2	31.9	95.9

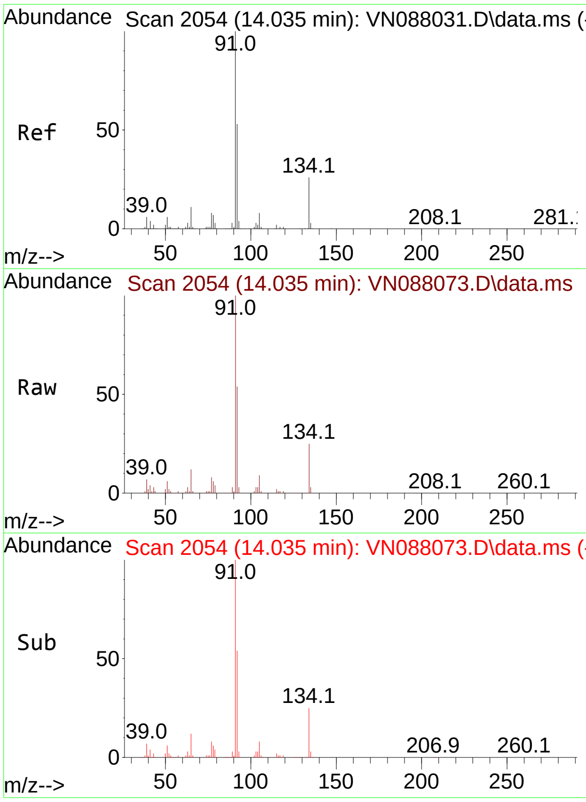


Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations
APPROVED

Reviewed By :John
Carlone
10/21/2025
Supervised By :Semsettin
Yesilyurt

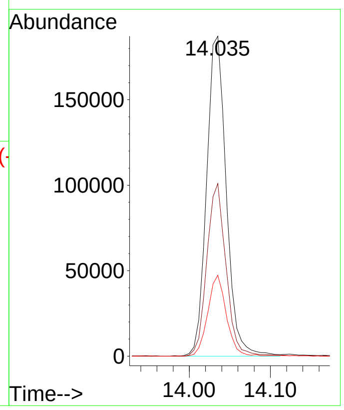
10/21/2025

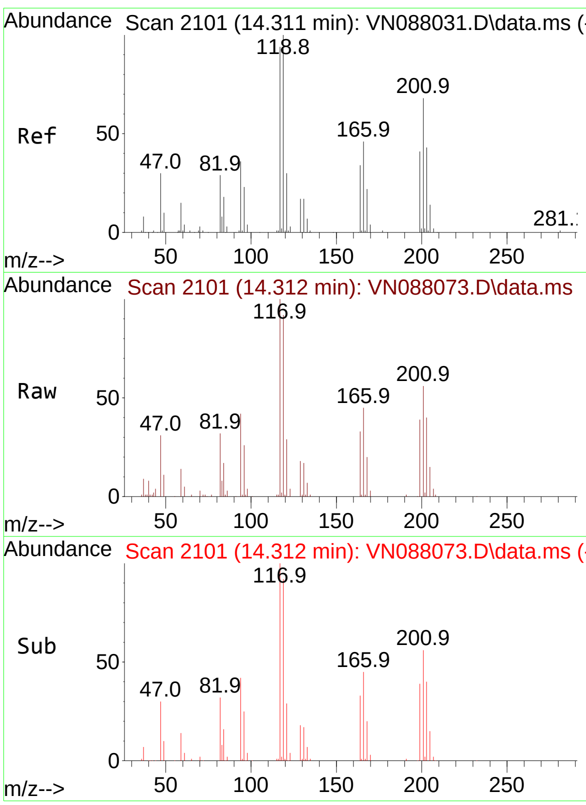


#85
n-Butylbenzene
Concen: 21.750 ug/l
RT: 14.035 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 91 Resp: 31616

Ion	Ratio	Lower	Upper
91	100		
92	52.4	0.0	107.6
134	23.7	0.0	52.6

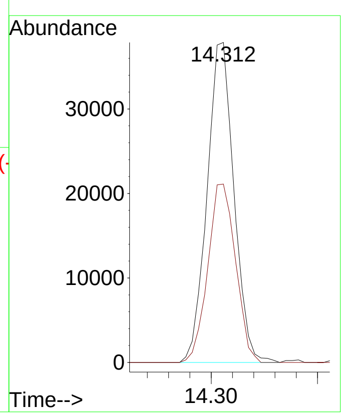




#86
Hexachloroethane
Concen: 21.274 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:117 Resp: 66588

Ion	Ratio	Lower	Upper
117	100		
201	57.4	34.8	104.3

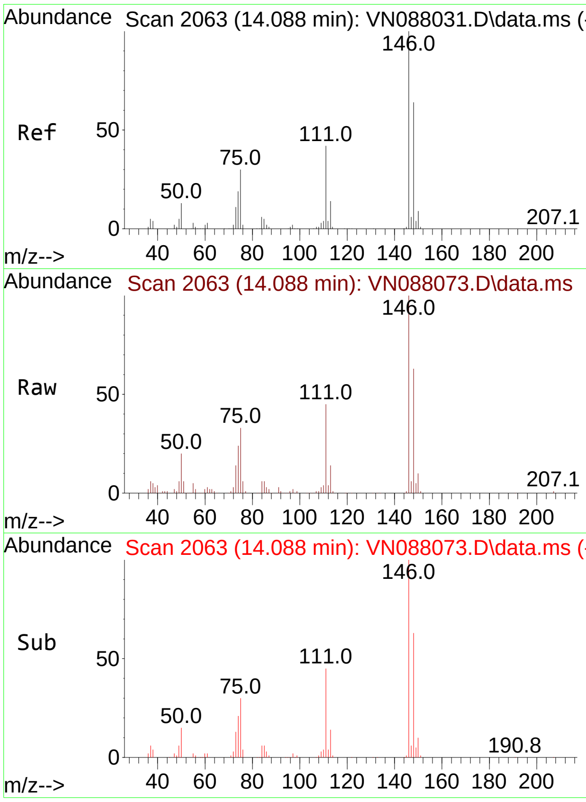


Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

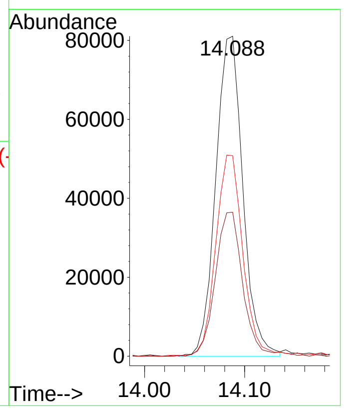
10/21/2025

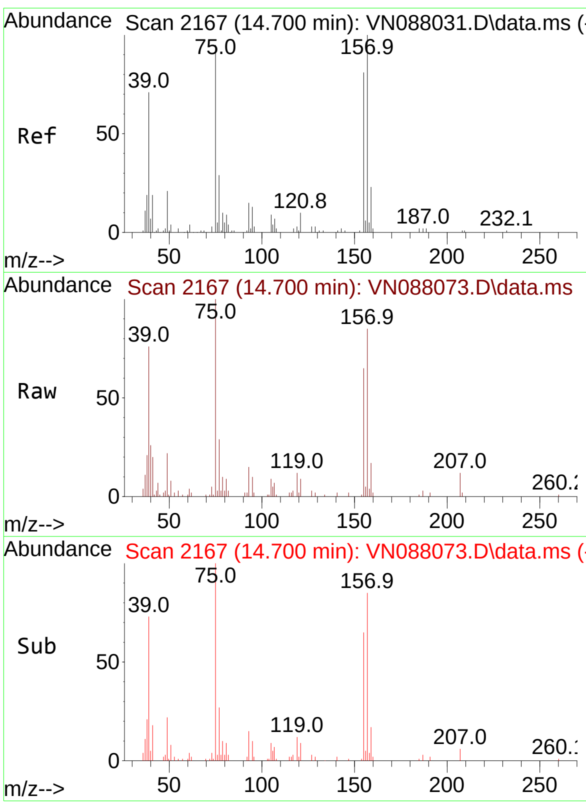


#87
1,2-Dichlorobenzene
Concen: 19.093 ug/l
RT: 14.088 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion:146 Resp: 15265

Ion	Ratio	Lower	Upper
146	100		
111	45.7	22.3	66.8
148	62.7	31.4	94.3

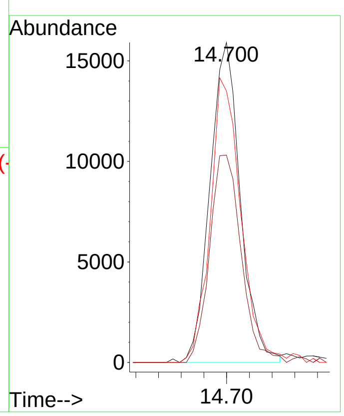




#88
1,2-Dibromo-3-Chloropropane
Concen: 21.440 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. 0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025 09:26

Tgt Ion: 75 Resp: 29509

Ion	Ratio	Lower	Upper
75	100		
155	67.4	63.5	95.3
157	90.0	81.7	122.5

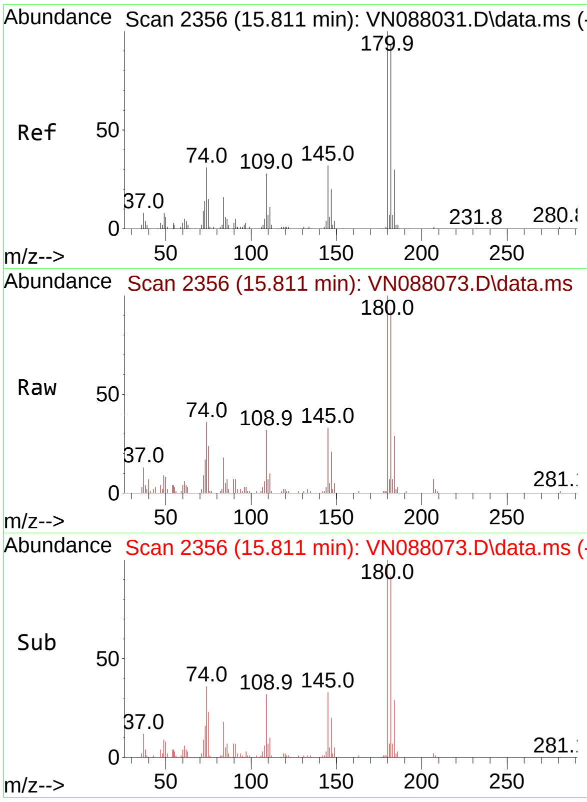


Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

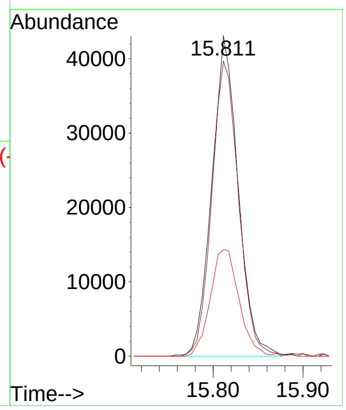
10/21/2025

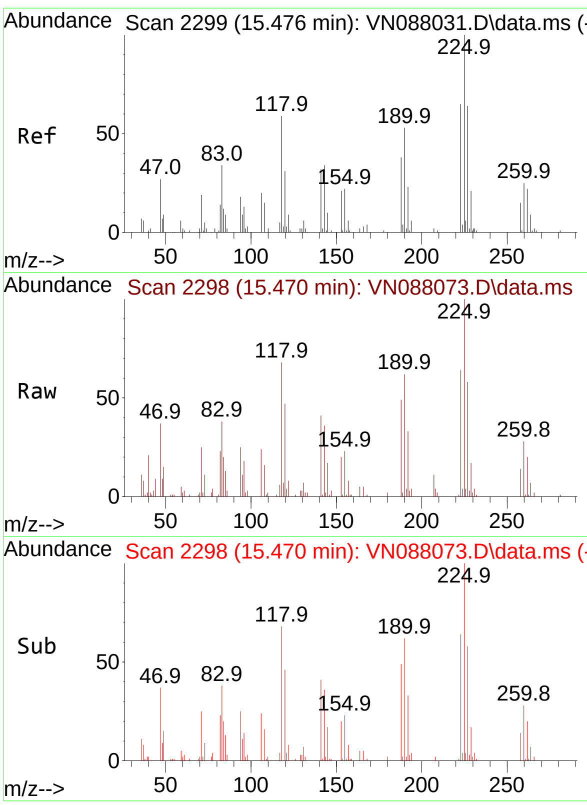


#89
1,2,4-Trichlorobenzene
Concen: 18.383 ug/l
RT: 15.811 min   Scan# 2
Delta R.T.   0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion:180 Resp: 8754

Ion	Ratio	Lower	Upper
180	100		
182	94.0	74.6	112.0
145	36.4	27.2	40.8

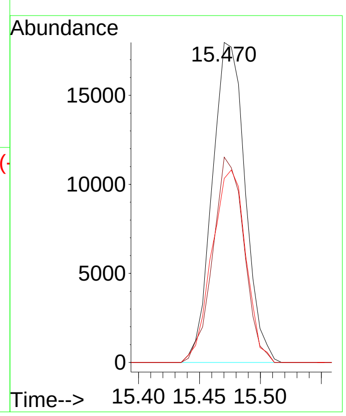


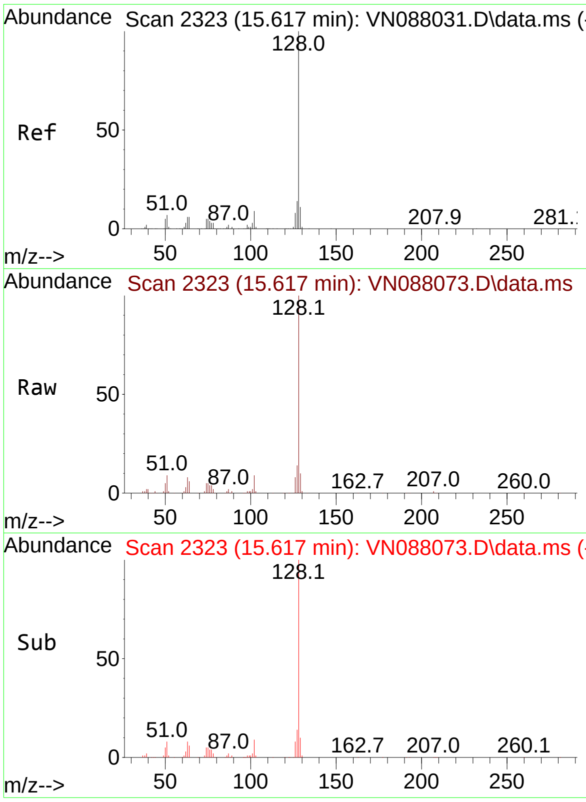


#90
Hexachlorobutadiene
Concen: 20.315 ug/l
RT: 15.470 min   Scan# 2298
Delta R.T.   -0.006 min
Lab File: VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion:225 Resp: 33672

Ion	Ratio	Lower	Upper
225	100		
223	61.0	0.0	129.6
227	62.0	0.0	132.2





#91
Naphthalene
Concen: 18.734 ug/l
RT: 15.617 min   Scan# 2
Delta R.T.   0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025   09:26

Instrument :
MSVOA_N
ClientSampleId :
VN1020WBS01

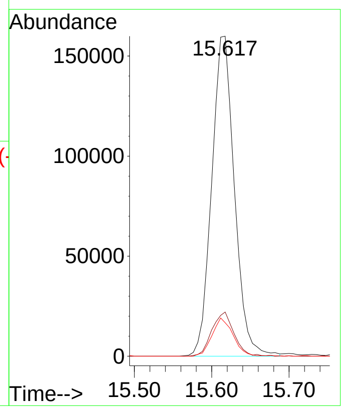
Tgt Ion:128 Resp: 32663

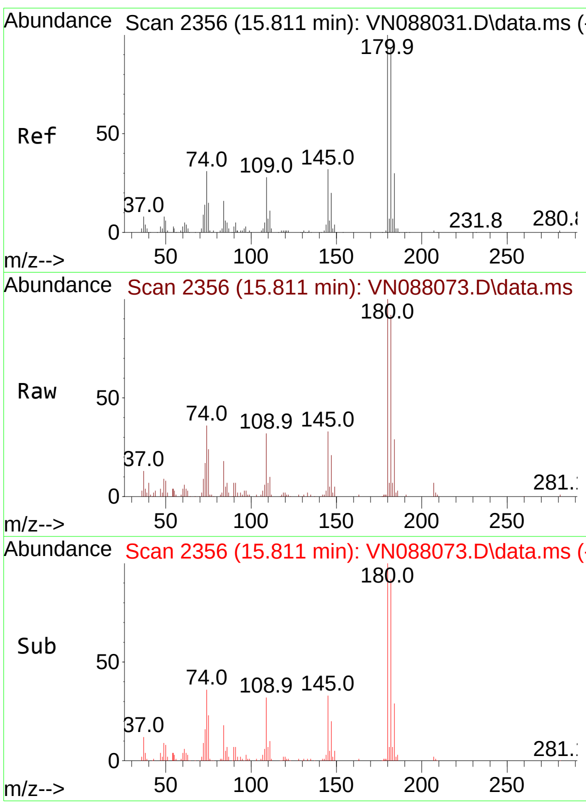
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.3	15.5
129	11.0	8.6	13.0

Manual Integrations APPROVED

Reviewed By :John Carlone
10/21/2025
Supervised By :Semsettin Yesilyurt

10/21/2025

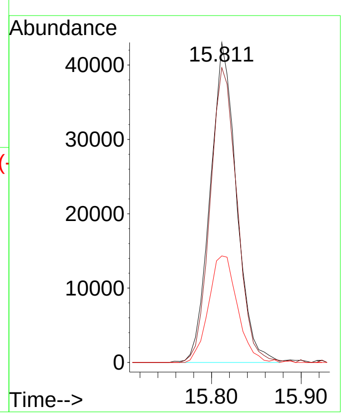




#92
1,2,3-Trichlorobenzene
Concen: 18.383 ug/l
RT: 15.811 min   Scan# 2356
Delta R.T.   0.000 min
Lab File: VN088073.D
Acq: 20 Oct 2025   09:26

Tgt Ion:180 Resp: 87549

Ion	Ratio	Lower	Upper
180	100		
182	94.0	0.0	186.6
145	36.4	0.0	68.0



Raw Data: **VN088068.D**

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	10/17/25
Project:	PVSC Monthly 2025			Date Received:	10/17/25
Client Sample ID:	EFF-WWMS			SDG No.:	Q3385
Lab Sample ID:	Q3385-02MS			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
74-87-3	Chloromethane	89.1		5	3.20	25.0	ug/L	10/17/25 15:39	VN101725
75-01-4	Vinyl Chloride	93.8		5	4.20	25.0	ug/L	10/17/25 15:39	VN101725
74-83-9	Bromomethane	89.5		5	4.00	25.0	ug/L	10/17/25 15:39	VN101725
75-00-3	Chloroethane	88.3		5	11.6	25.0	ug/L	10/17/25 15:39	VN101725
75-69-4	Trichlorofluoromethane	100		5	4.00	25.0	ug/L	10/17/25 15:39	VN101725
75-35-4	1,1-Dichloroethene	95.6		5	3.80	25.0	ug/L	10/17/25 15:39	VN101725
107-02-8	Acrolein	490		5	33.1	130	ug/L	10/17/25 15:39	VN101725
107-13-1	Acrylonitrile	430		5	14.0	130	ug/L	10/17/25 15:39	VN101725
75-09-2	Methylene Chloride	89.2		5	4.30	25.0	ug/L	10/17/25 15:39	VN101725
156-60-5	trans-1,2-Dichloroethene	90.0		5	4.10	25.0	ug/L	10/17/25 15:39	VN101725
75-34-3	1,1-Dichloroethane	92.1		5	3.40	25.0	ug/L	10/17/25 15:39	VN101725
56-23-5	Carbon Tetrachloride	96.3		5	3.70	25.0	ug/L	10/17/25 15:39	VN101725
67-66-3	Chloroform	190		5	2.80	25.0	ug/L	10/17/25 15:39	VN101725
71-55-6	1,1,1-Trichloroethane	94.7		5	3.20	25.0	ug/L	10/17/25 15:39	VN101725
71-43-2	Benzene	86.7		5	2.30	25.0	ug/L	10/17/25 15:39	VN101725
107-06-2	1,2-Dichloroethane	92.8		5	2.50	25.0	ug/L	10/17/25 15:39	VN101725
79-01-6	Trichloroethene	86.5		5	2.50	25.0	ug/L	10/17/25 15:39	VN101725
78-87-5	1,2-Dichloropropane	89.1		5	2.30	25.0	ug/L	10/17/25 15:39	VN101725
75-27-4	Bromodichloromethane	95.5		5	3.20	25.0	ug/L	10/17/25 15:39	VN101725
108-88-3	Toluene	89.7		5	2.30	25.0	ug/L	10/17/25 15:39	VN101725
10061-02-6	t-1,3-Dichloropropene	84.7		5	3.60	25.0	ug/L	10/17/25 15:39	VN101725
10061-01-5	cis-1,3-Dichloropropene	85.6		5	3.40	25.0	ug/L	10/17/25 15:39	VN101725
79-00-5	1,1,2-Trichloroethane	86.4		5	2.30	25.0	ug/L	10/17/25 15:39	VN101725
110-75-8	2-Chloroethyl vinyl ether	190		5	23.2	130	ug/L	10/17/25 15:39	VN101725
124-48-1	Dibromochloromethane	85.3		5	3.30	25.0	ug/L	10/17/25 15:39	VN101725
127-18-4	Tetrachloroethene	86.7		5	4.20	25.0	ug/L	10/17/25 15:39	VN101725
108-90-7	Chlorobenzene	87.9		5	2.40	25.0	ug/L	10/17/25 15:39	VN101725
100-41-4	Ethyl Benzene	90.2		5	2.80	25.0	ug/L	10/17/25 15:39	VN101725
179601-23-1	m/p-Xylenes	180		5	6.50	50.0	ug/L	10/17/25 15:39	VN101725
95-47-6	o-Xylene	88.3		5	3.40	25.0	ug/L	10/17/25 15:39	VN101725
75-25-2	Bromoform	75.4		5	4.70	25.0	ug/L	10/17/25 15:39	VN101725
79-34-5	1,1,2,2-Tetrachloroethane	89.3		5	2.20	25.0	ug/L	10/17/25 15:39	VN101725
541-73-1	1,3-Dichlorobenzene	87.0		5	3.40	25.0	ug/L	10/17/25 15:39	VN101725
106-46-7	1,4-Dichlorobenzene	86.9		5	4.10	25.0	ug/L	10/17/25 15:39	VN101725
95-50-1	1,2-Dichlorobenzene	86.3		5	3.40	25.0	ug/L	10/17/25 15:39	VN101725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	32.1			91 - 110	107%	SPK: 30		
2037-26-5	Toluene-d8	31.5			91 - 112	105%	SPK: 30		
460-00-4	4-Bromofluorobenzene	30.8			63 - 112	103%	SPK: 30		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	53200							
540-36-3	1,4-Difluorobenzene	297000							
3114-55-4	Chlorobenzene-d5	260000							

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	10/17/25
Project:	PVSC Monthly 2025			Date Received:	10/17/25
Client Sample ID:	EFF-WWMS			SDG No.:	Q3385
Lab Sample ID:	Q3385-02MS			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID

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

Sample Results: **VN088068.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088068.D
Acq On : 17 Oct 2025 15:39
Operator : JC\MD
Sample : Q3385-02MS 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

Quant Time: Oct 18 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Bromochloromethane	7.800	128	53200	30.000 ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	297248	30.000 ug/l	0.00
57) Chlorobenzene-d5	11.841	117	260365	30.000 ug/l	0.00
System Monitoring Compounds					
27) 1,2-Dichloroethane-d4	8.559	65	132784	32.053 ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.833%		
60) 4-Bromofluorobenzene	12.829	95	132200	30.800 ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.667%		
63) Toluene-d8	10.541	98	365815	31.535 ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.100%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.142	85	59668	19.582 ug/l	97
3) Chloromethane	2.383	50	61575	17.824 ug/l	100
4) Vinyl Chloride	2.542	62	67552	18.753 ug/l	98
5) Bromomethane	2.983	94	34680	17.904 ug/l	92
6) Chloroethane	3.148	64	41958	17.658 ug/l	97
7) Trichlorofluoromethane	3.518	101	98528	20.114 ug/l	98
8) Diethyl Ether	3.965	74	38188	17.254 ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	53920	20.563 ug/l	95
10) 1,1-Dichloroethene	4.336	96	53476	19.118 ug/l	91
11) Methyl Iodide	4.583	142	35580	13.801 ug/l	91
12) Methyl Acetate	5.024	43	104603m	23.003 ug/l	
13) Acrolein	4.171	56	68540	97.399 ug/l #	7
14) Acrylonitrile	5.706	53	187537	85.458 ug/l	96
15) Acetone	4.418	58	608618	947.014 ug/l	97
16) Carbon Disulfide	4.706	76	160932	18.353 ug/l	95
17) Allyl chloride	5.018	41	90130	17.076 ug/l	99
18) Methylene Chloride	5.259	84	63450	17.847 ug/l	98
19) trans-1,2-Dichloroethene	5.777	96	58203	17.997 ug/l	84
20) Diisopropyl ether	6.665	45	213890	17.799 ug/l	96
21) 1,1-Dichloroethane	6.553	63	115285	18.429 ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	70252	17.353 ug/l #	86
23) tert-Butyl Alcohol	5.518	59	83149	94.474 ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	209735	17.371 ug/l	98
25) Chloroform	7.947	83	244499	37.875 ug/l	100
26) Cyclohexane	8.241	56	99461	19.190 ug/l #	97
29) 1,1-Dichloropropene	8.353	75	79558	18.672 ug/l	95
30) 2-Butanone	7.471	43	269939	85.901 ug/l	98
31) 2,2-Dichloropropane	7.471	77	103872	18.920 ug/l #	83
32) 1,1,1-Trichloroethane	8.153	97	100849	18.942 ug/l	97
33) Carbon Tetrachloride	8.341	117	85903	19.263 ug/l	98
34) Benzene	8.588	78	245158	17.347 ug/l	97
35) Methacrylonitrile	7.759	41	56572	17.119 ug/l	94
36) 1,2-Dichloroethane	8.653	62	91057	18.559 ug/l	97
37) Trichloroethene	9.335	130	57919	17.298 ug/l	99
38) Methylcyclohexane	9.577	83	100687	19.136 ug/l	95
39) 1,2-Dichloropropane	9.600	63	63178	17.828 ug/l	99
40) Dibromomethane	9.688	93	45857	17.778 ug/l	92
41) Bromodichloromethane	9.871	83	100612	19.098 ug/l	99
42) Vinyl Acetate	6.589	43	987928m	92.284 ug/l	

Sample Results: **VN088068.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088068.D
Acq On : 17 Oct 2025 15:39
Operator : JC\MD
Sample : Q3385-02MS 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

Quant Time: Oct 18 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.547	43	109471	18.122 ug/l	96
44) Isopropyl Acetate	8.671	43	174478	17.684 ug/l	98
45) 1,4-Dioxane	9.682	88	24296	370.259 ug/l #	92
46) Methyl methacrylate	9.659	41	76543	17.617 ug/l	96
47) n-amyl Acetate	12.671	43	106012m	22.670 ug/l	
48) t-1,3-Dichloropropene	10.812	75	99242	16.941 ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	104638	17.124 ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	59043	17.284 ug/l	98
51) Ethyl methacrylate	10.853	69	98182	16.983 ug/l	96
52) 1,3-Dichloropropane	11.141	76	106331	17.841 ug/l	100
53) Dibromochloromethane	11.335	129	69666	17.059 ug/l	99
54) 1,2-Dibromoethane	11.447	107	60881	16.671 ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	117845	37.765 ug/l	98
56) Bromoform	12.559	173	41642	15.083 ug/l	96
58) 4-Methyl-2-Pentanone	10.424	43	532449	91.427 ug/l	97
59) 2-Hexanone	11.176	43	341153	88.725 ug/l	98
61) Tetrachloroethene	11.082	164	45704	17.334 ug/l	97
62) Toluene	10.606	91	264818	17.931 ug/l	100
64) Chlorobenzene	11.871	112	165907	17.587 ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.935	131	56872	17.494 ug/l	98
66) Ethyl Benzene	11.941	91	289621	18.035 ug/l	99
67) m/p-Xylenes	12.053	106	222818	35.991 ug/l	99
68) o-Xylene	12.376	106	108867	17.665 ug/l	96
69) Styrene	12.388	104	176336	17.296 ug/l	98
70) Isopropylbenzene	12.671	105	275336	18.228 ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	91451	17.858 ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	88199m	18.545 ug/l	
73) Bromobenzene	12.959	156	62442	16.914 ug/l	89
74) n-propylbenzene	13.012	91	332803	18.251 ug/l	99
75) 2-Chlorotoluene	13.106	91	200546	17.987 ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	230269	17.947 ug/l	96
77) t-1,4-Dichloro-2-butene	12.718	75	29556	15.594 ug/l	92
78) 4-Chlorotoluene	13.200	91	203667	17.980 ug/l	97
79) tert-butylbenzene	13.418	119	204936	18.425 ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	227695	17.727 ug/l	96
81) sec-Butylbenzene	13.594	105	295482	18.894 ug/l	98
82) p-Isopropyltoluene	13.706	119	242150	18.136 ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	120891	17.404 ug/l	93
84) 1,4-Dichlorobenzene	13.788	146	124462	17.374 ug/l	98
85) n-Butylbenzene	14.035	91	230260	18.537 ug/l	99
86) Hexachloroethane	14.306	117	46511	17.389 ug/l	89
87) 1,2-Dichlorobenzene	14.082	146	117856	17.250 ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.694	75	22559	19.181 ug/l	84
89) 1,2,4-Trichlorobenzene	15.811	180	62146	15.270 ug/l	98
90) Hexachlorobutadiene	15.470	225	25367	17.909 ug/l	99
91) Naphthalene	15.611	128	242149	16.252 ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	62146	15.270 ug/l	98

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

Quantitation Report (QT Reviewed)

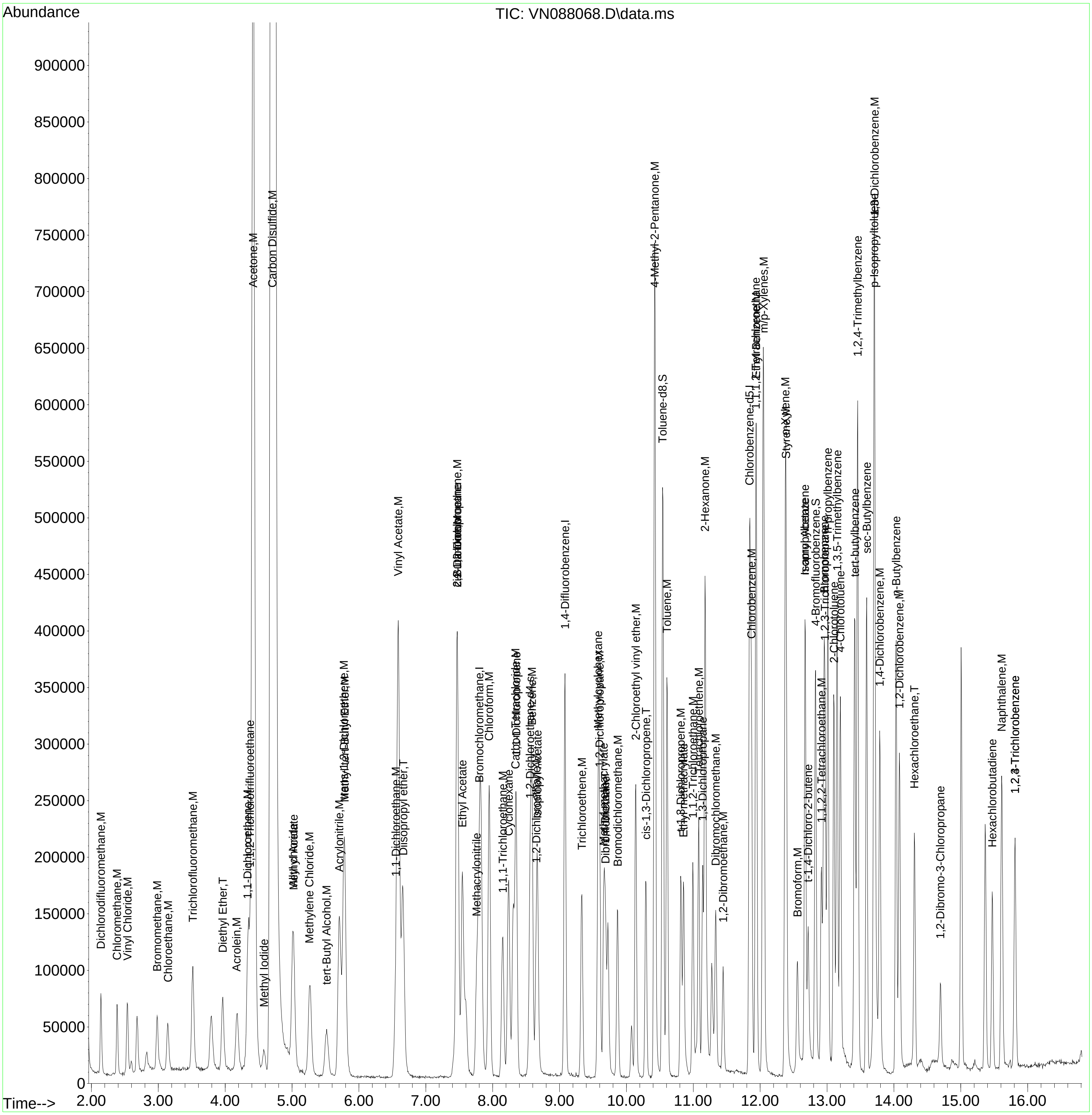
Sample Results: VN088068.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088068.D
Acq On : 17 Oct 2025 15:39
Operator : JC\MD
Sample : Q3385-02MS 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

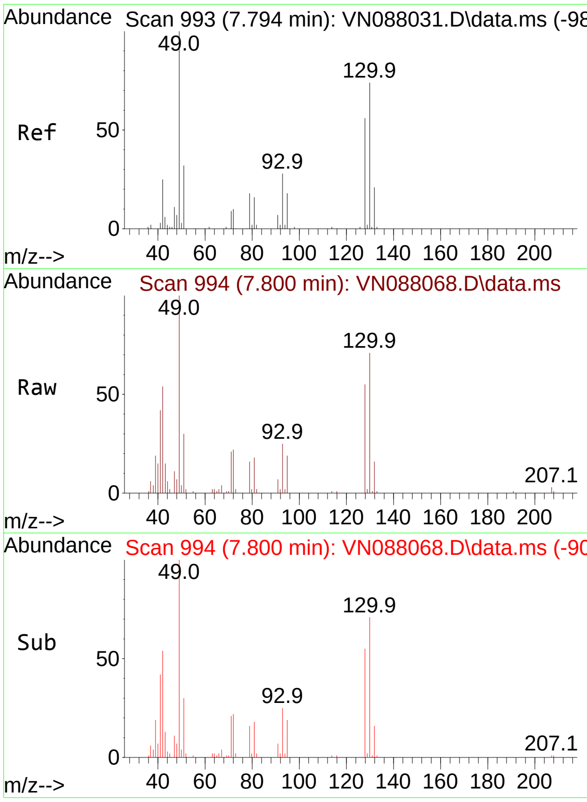
Quant Time: Oct 18 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



Sample Results: **VN088068.D**



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

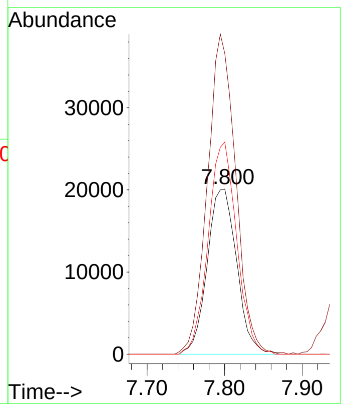
Tgt Ion:128 Resp: 53200

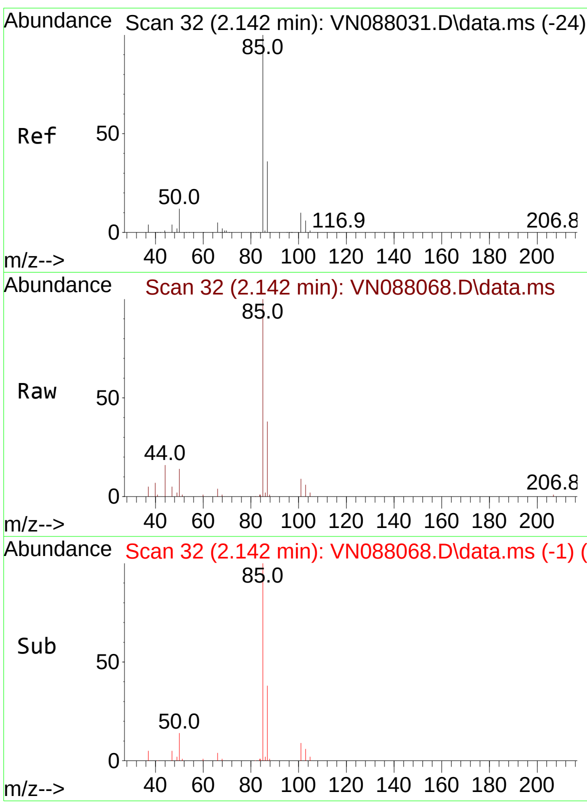
Ion	Ratio	Lower	Upper
128	100		
49	185.7	0.0	439.8
130	124.4	0.0	325.8

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

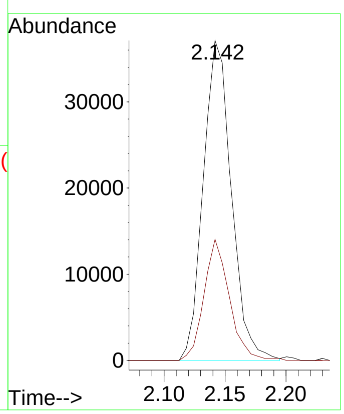


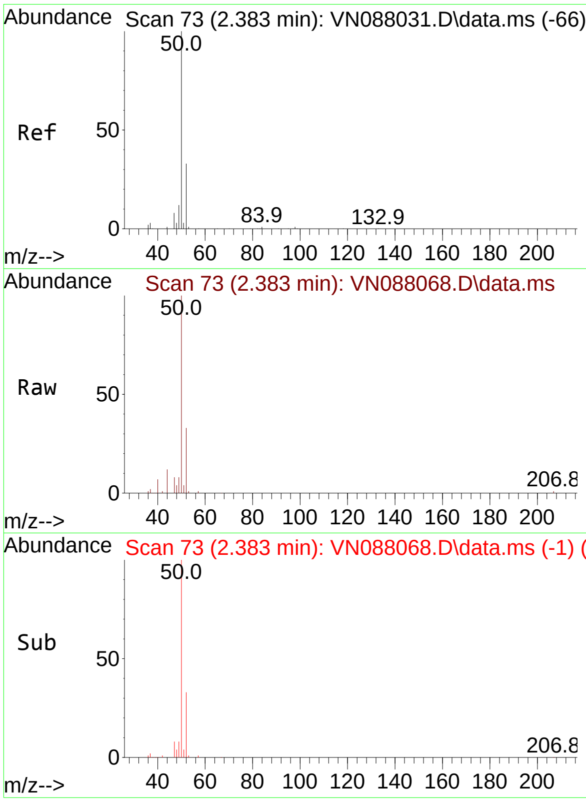


#2
Dichlorodifluoromethane
Concen: 19.582 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 85 Resp: 59668

Ion	Ratio	Lower	Upper
85	100		
87	37.8	17.9	53.8





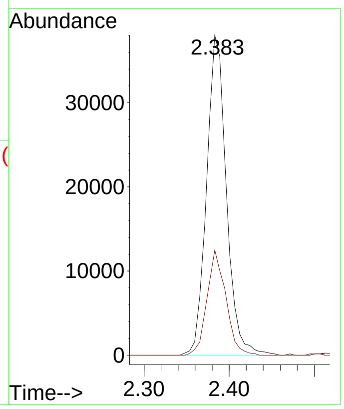
#3
Chloromethane
Concen: 17.824 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

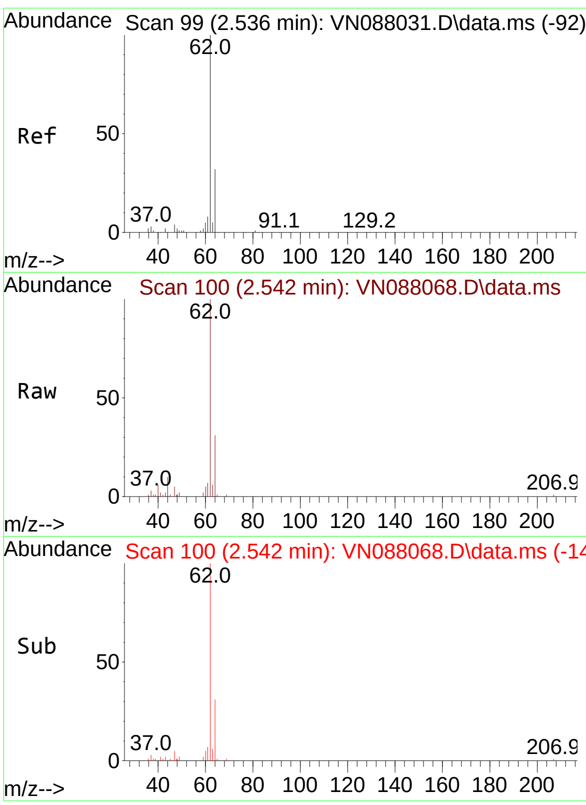
Tgt Ion: 50 Resp: 6157

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.3	39.5

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

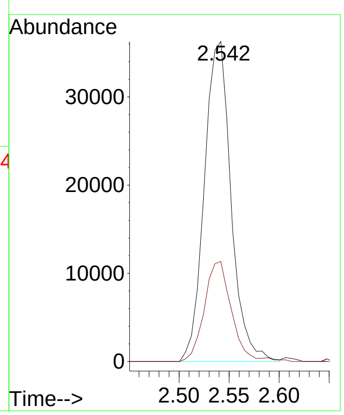




#4
Vinyl Chloride
Concen: 18.753 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 62 Resp: 67552

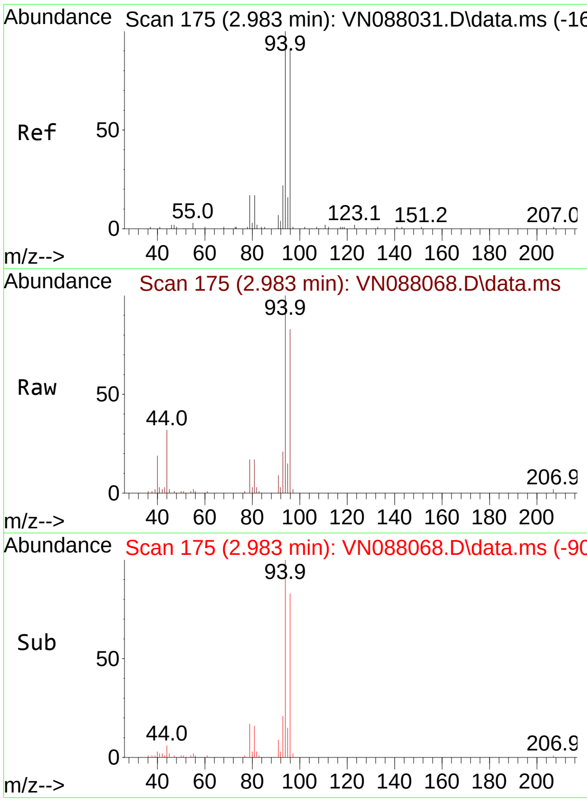
Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED

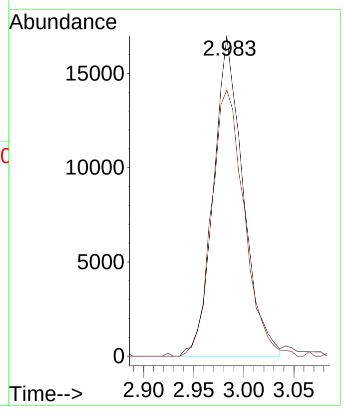
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

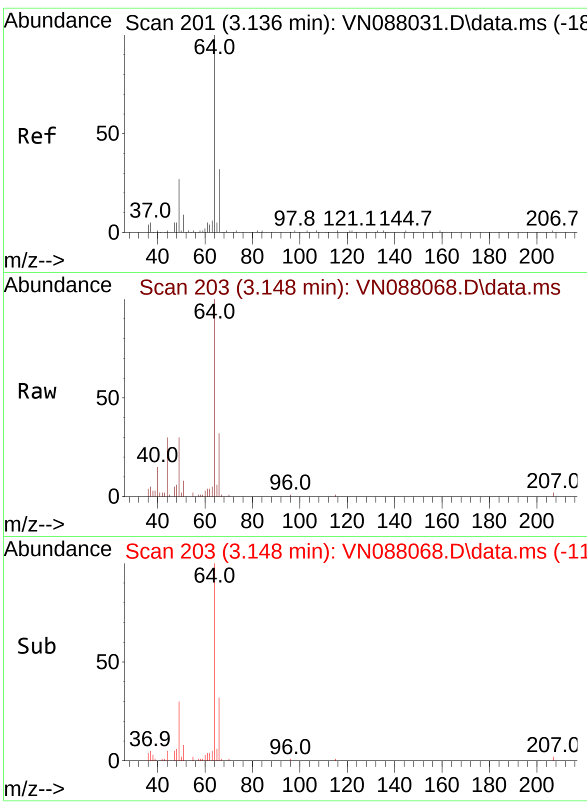


#5
Bromomethane
Concen: 17.904 ug/l
RT: 2.983 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 94 Resp: 3468

Ion	Ratio	Lower	Upper
94	100		
96	83.1	73.0	109.4

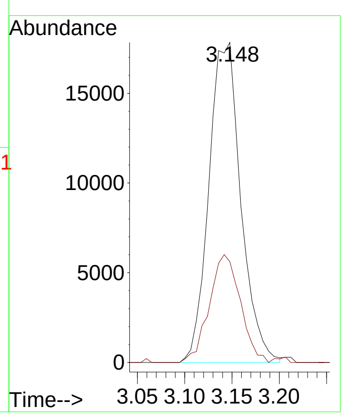




#6
Chloroethane
Concen: 17.658 ug/l
RT: 3.148 min Scan# 203
Delta R.T. 0.012 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

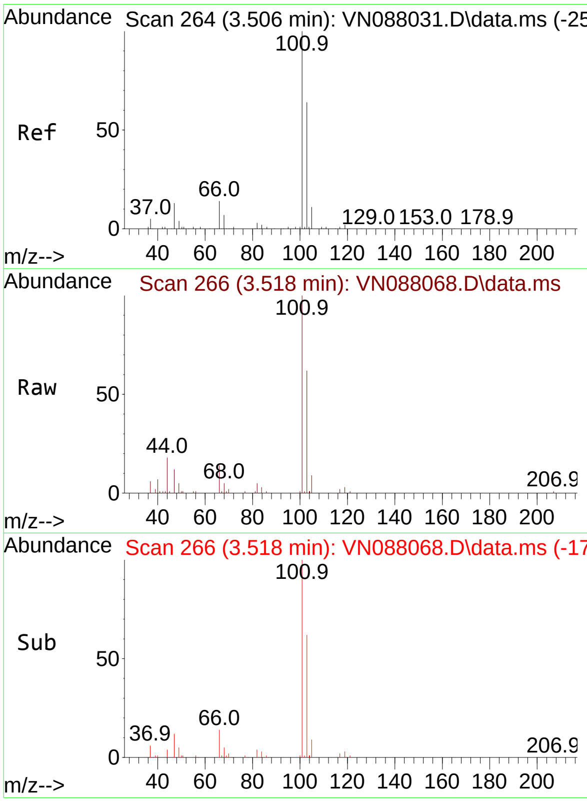
Tgt Ion: 64 Resp: 41958

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.8	40.2



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

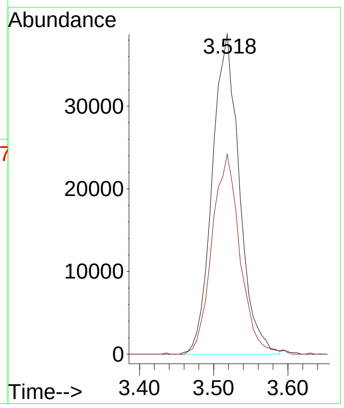
Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

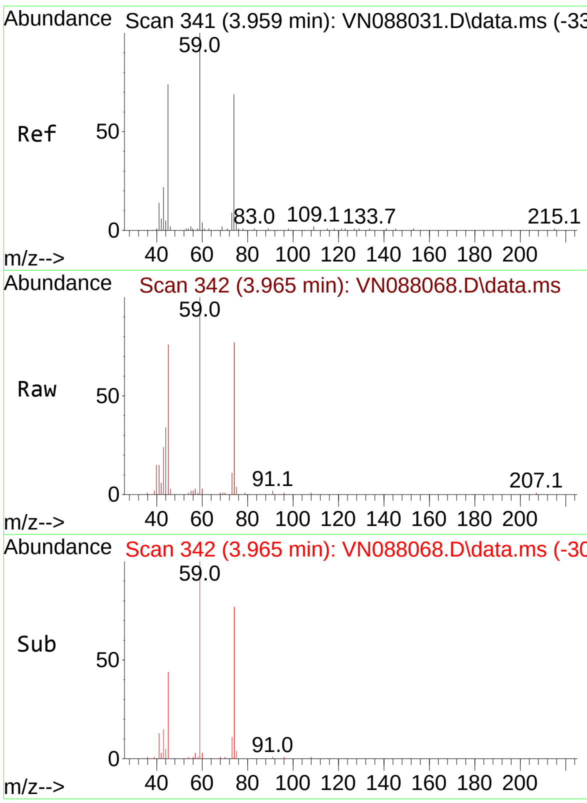


#7
Trichlorofluoromethane
Concen: 20.114 ug/l
RT: 3.518 min Scan# 2(
Delta R.T. 0.012 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:101 Resp: 9852

Ion	Ratio	Lower	Upper
101	100		
103	62.4	51.0	76.4

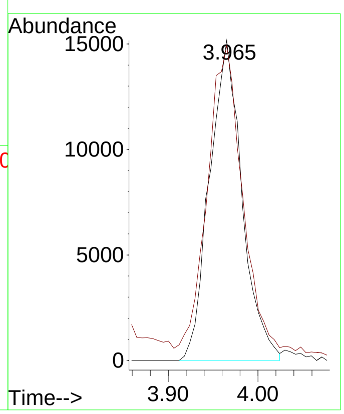




#8
Diethyl Ether
Concen: 17.254 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 74 Resp: 38188

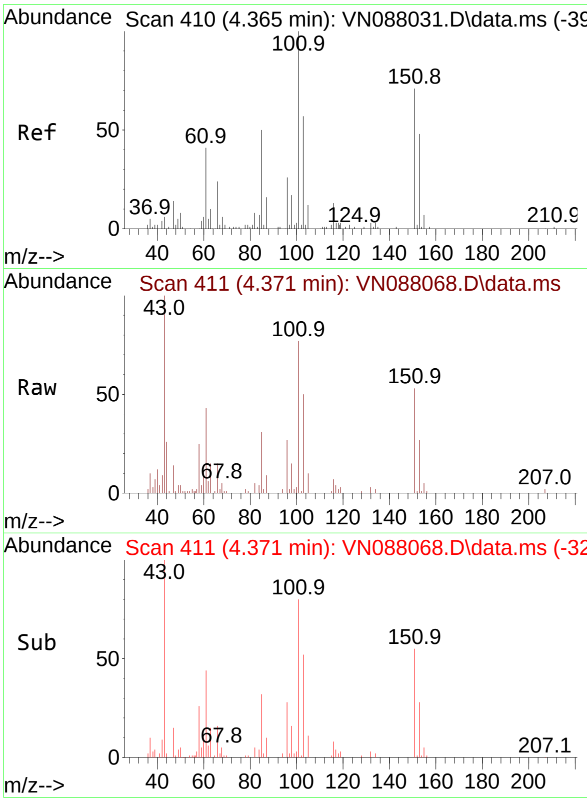
Ion	Ratio	Lower	Upper
74	100		
45	100.4	20.4	183.8



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED

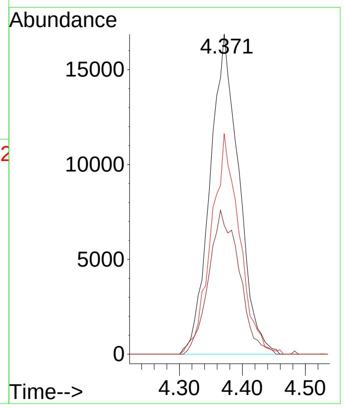
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

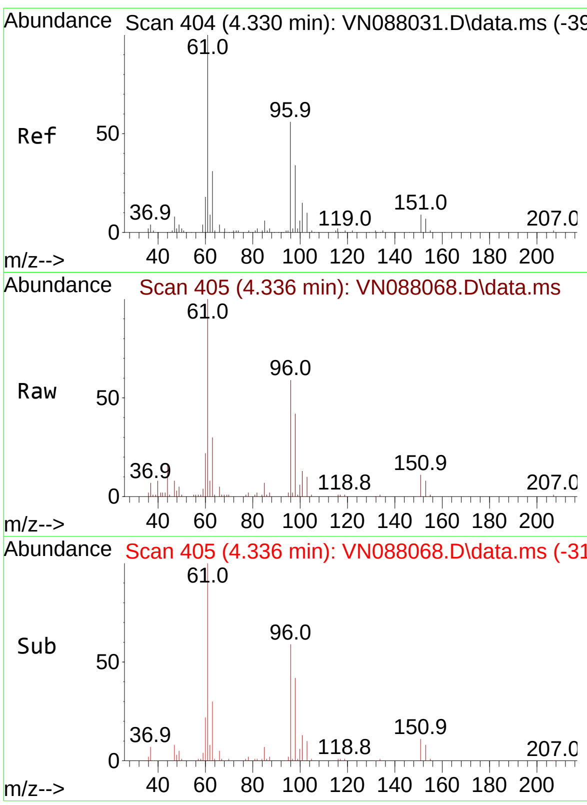


#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.563 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:101 Resp: 5392

Ion	Ratio	Lower	Upper
101	100		
85	47.5	0.0	103.2
151	67.3	0.0	141.4

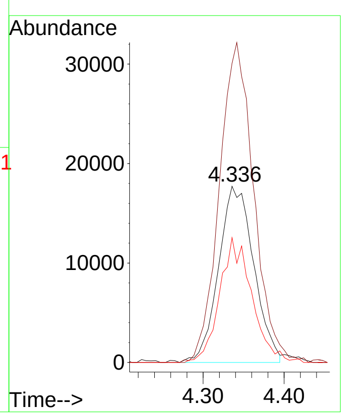




#10
1,1-Dichloroethene
Concen: 19.118 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 96 Resp: 53476

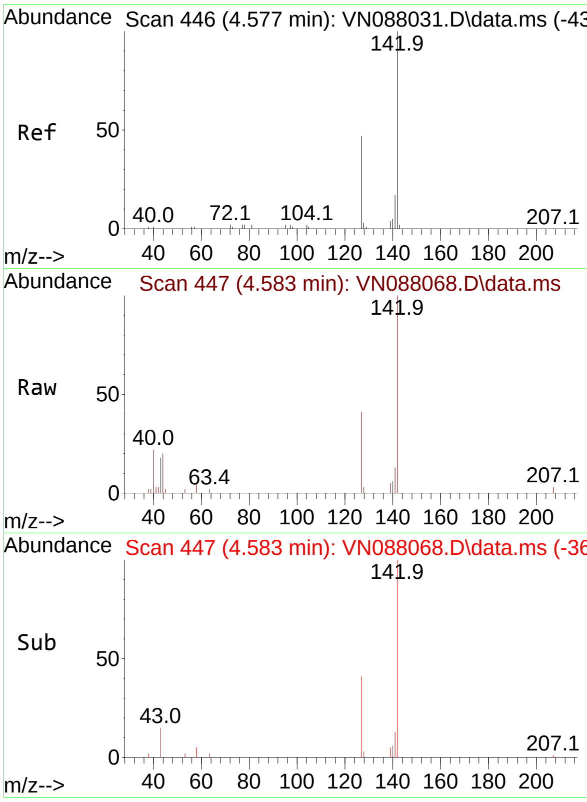
Ion	Ratio	Lower	Upper
96	100		
61	169.8	144.1	216.1
98	70.9	49.0	73.6



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED

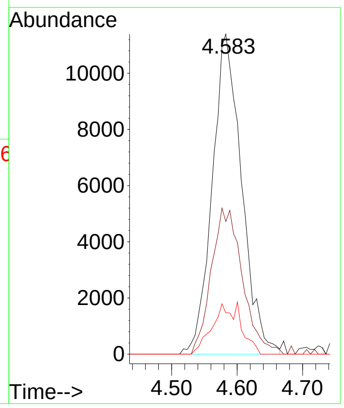
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

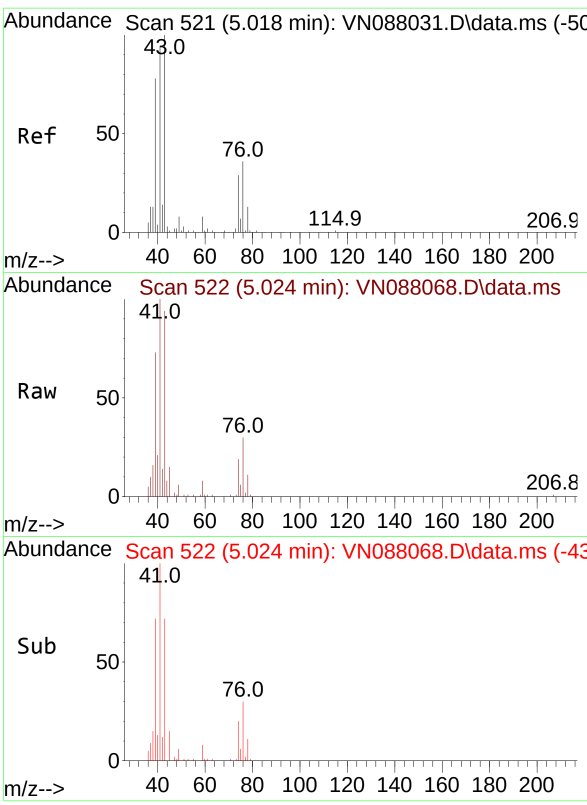


#11
Methyl Iodide
Concen: 13.801 ug/l
RT: 4.583 min Scan# 44
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:142 Resp: 35580

Ion	Ratio	Lower	Upper
142	100		
127	41.1	23.4	70.3
141	13.0	8.8	26.2

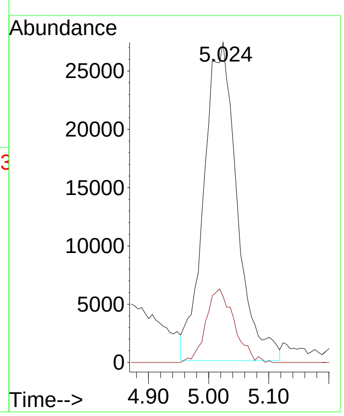




#12
Methyl Acetate
Concen: 23.003 ug/l m
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 43 Resp: 104603

Ion	Ratio	Lower	Upper
43	100		
74	20.7	23.3	34.9#



Instrument :
MSVOA_N
ClientSampleId :
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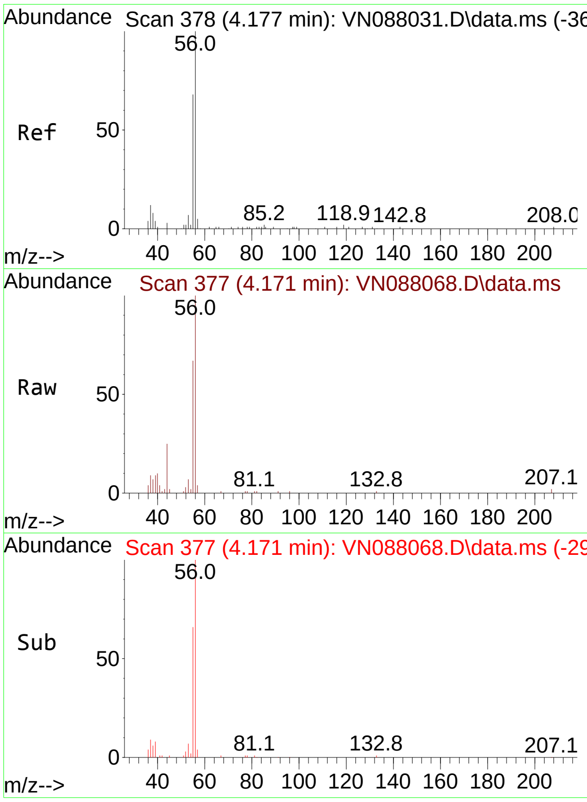
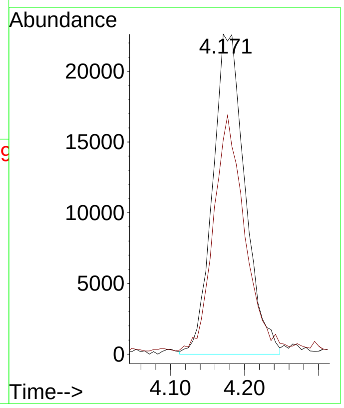
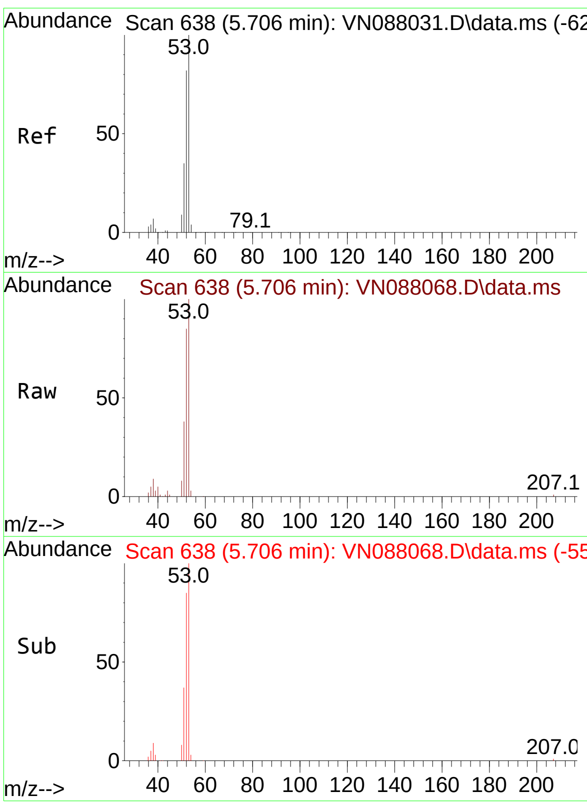


#13
Acrolein
Concen: 97.399 ug/l
RT: 4.171 min Scan# 37
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 56 Resp: 68540

Ion	Ratio	Lower	Upper
56	100		
55	70.7	0.3	0.5

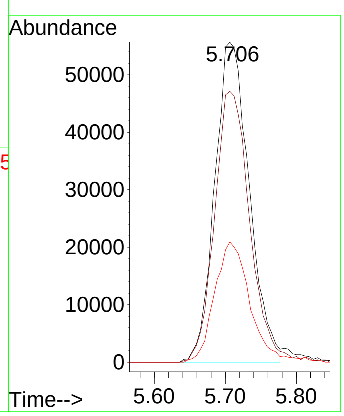




#14
Acrylonitrile
Concen: 85.458 ug/l
RT: 5.706 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 53 Resp: 187537

Ion	Ratio	Lower	Upper
53	100		
52	86.4	41.3	124.1
51	37.7	18.0	54.0



Instrument :
MSVOA_N
ClientSampleId :
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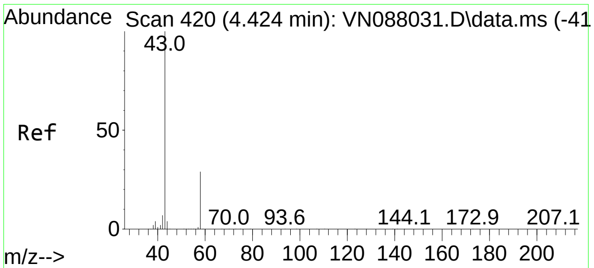
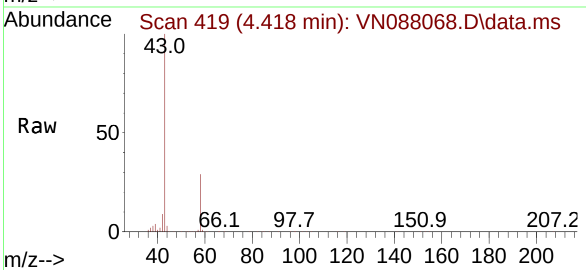
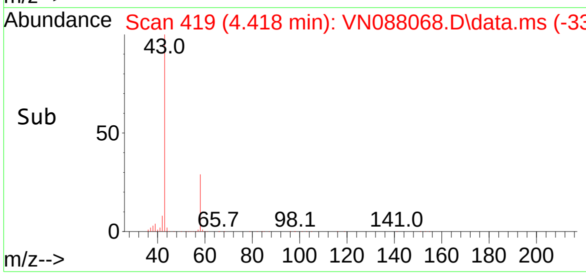


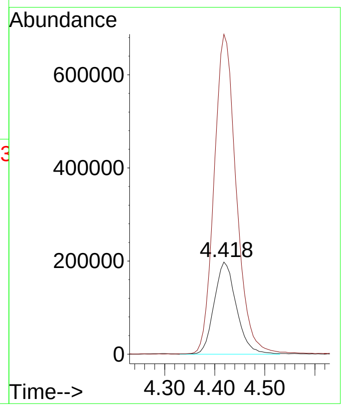


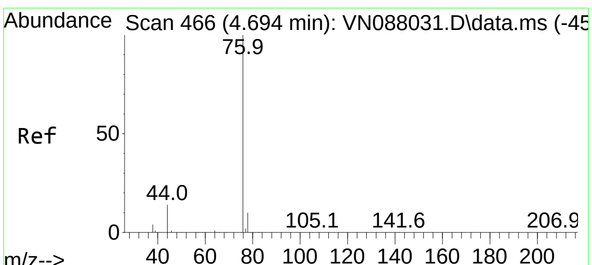


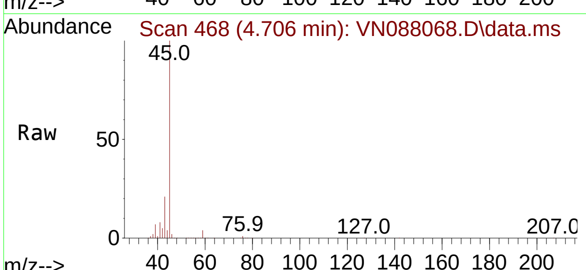
#15
Acetone
Concen: 947.014 ug/l
RT: 4.418 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

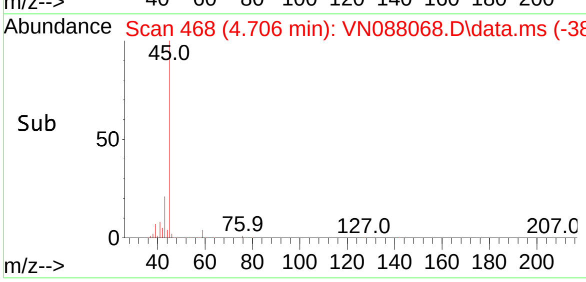
Tgt Ion: 58 Resp: 60861

Ion	Ratio	Lower	Upper
58	100		
43	347.1	282.6	424.0





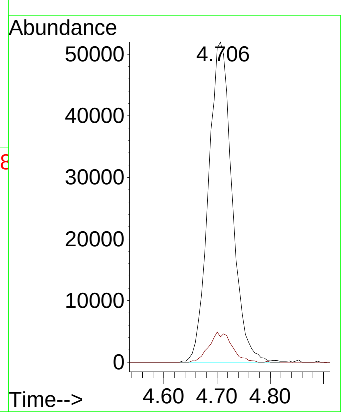




#16
Carbon Disulfide
Concen: 18.353 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.012 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 76 Resp: 160932

Ion	Ratio	Lower	Upper
76	100		
78	7.9	7.8	11.8



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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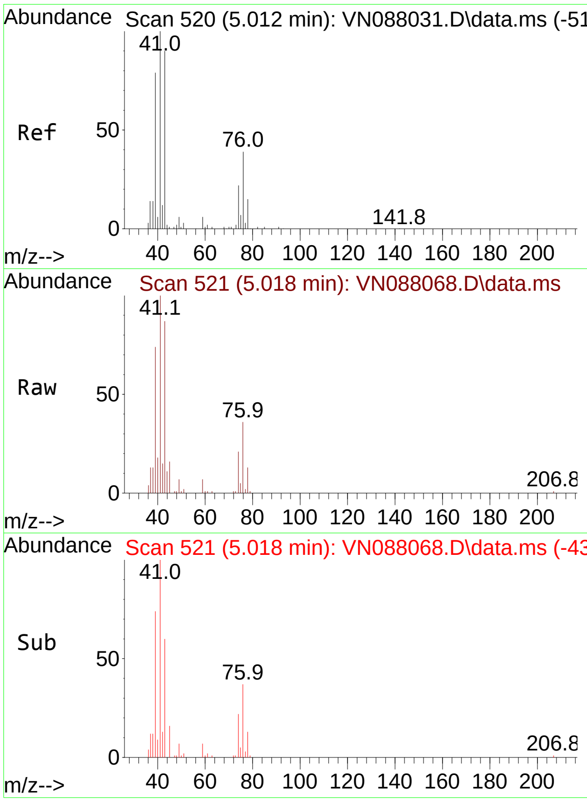
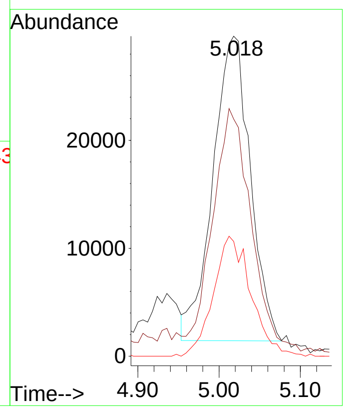
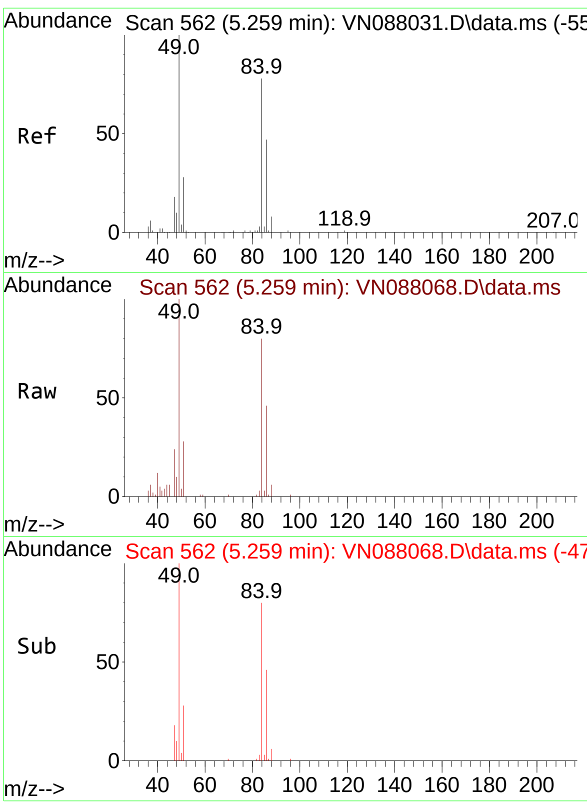


#17
Allyl chloride
Concen: 17.076 ug/l
RT: 5.018 min Scan# 5
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 41 Resp: 9013

Ion	Ratio	Lower	Upper
41	100		
39	72.9	36.4	109.2
76	37.7	18.1	54.1

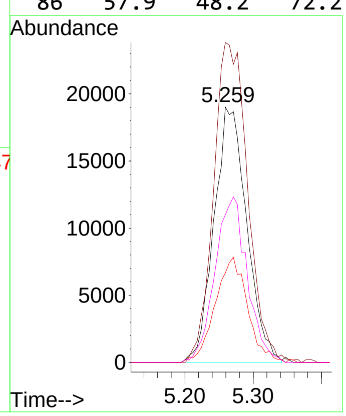




#18
Methylene Chloride
Concen: 17.847 ug/l
RT: 5.259 min Scan# 562
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 84 Resp: 63450

Ion	Ratio	Lower	Upper
84	100		
49	125.3	102.6	153.8
51	35.1	28.6	42.8
86	57.9	48.2	72.2



Instrument :
MSVOA_N
ClientSampleId :
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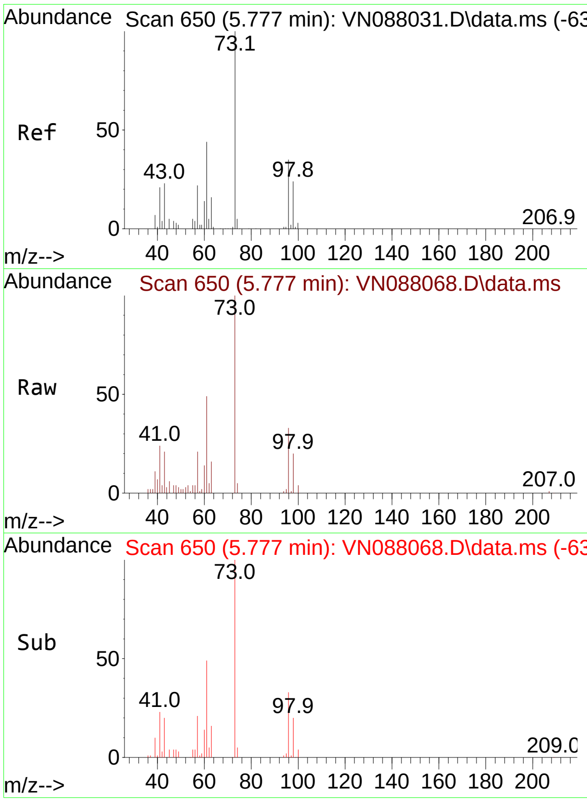
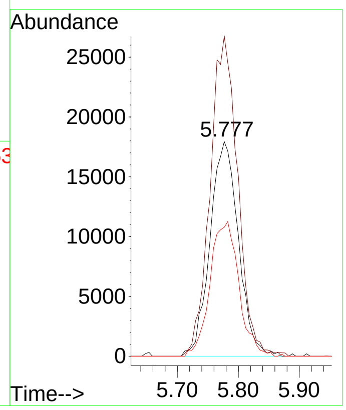
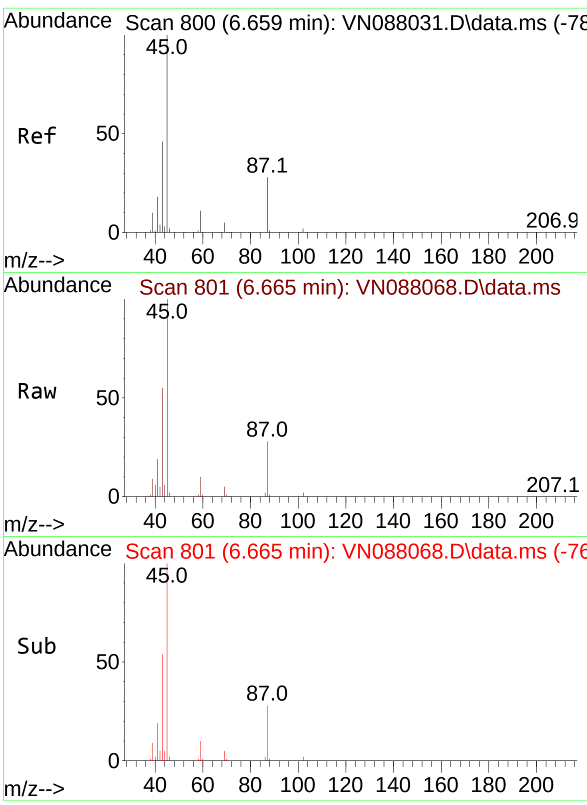


#19
trans-1,2-Dichloroethene
Concen: 17.997 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 96 Resp: 5820

Ion	Ratio	Lower	Upper
96	100		
61	149.1	100.6	151.0
98	60.1	54.0	81.0

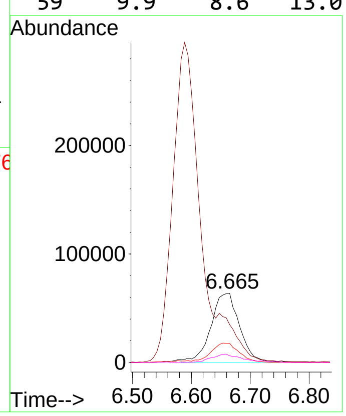


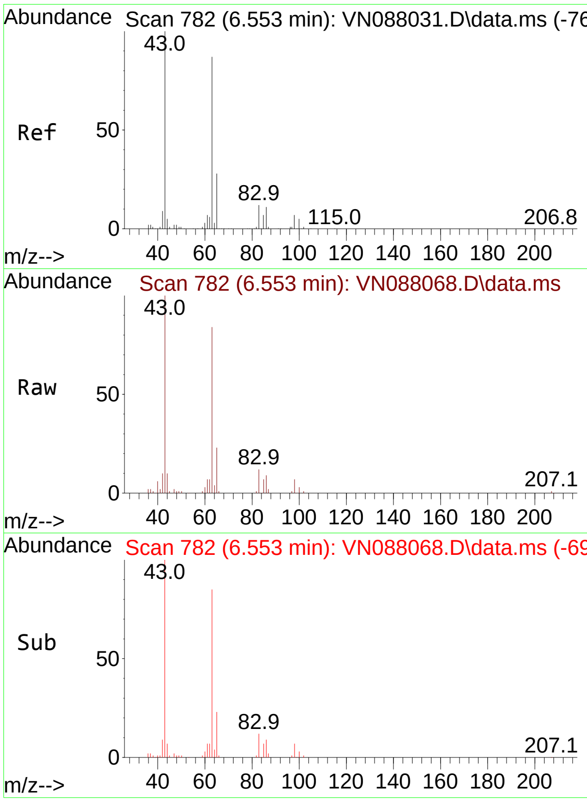


#20
Diisopropyl ether
Concen: 17.799 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 45 Resp: 213890

Ion	Ratio	Lower	Upper
45	100		
43	52.7	46.1	69.1
87	27.6	22.3	33.5
59	9.9	8.6	13.0





#21
1,1-Dichloroethane
Concen: 18.429 ug/l
RT: 6.553 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 63 Resp: 11528

Ion	Ratio	Lower	Upper
63	100		
98	8.3	4.3	12.8
100	3.9	2.6	8.0

Instrument :
MSVOA_N
ClientSampleId :
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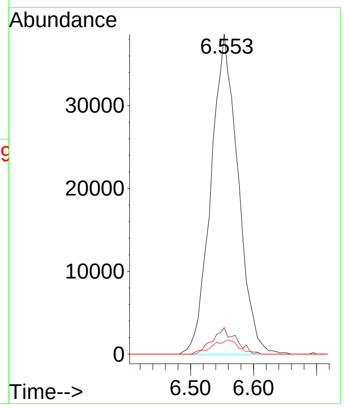
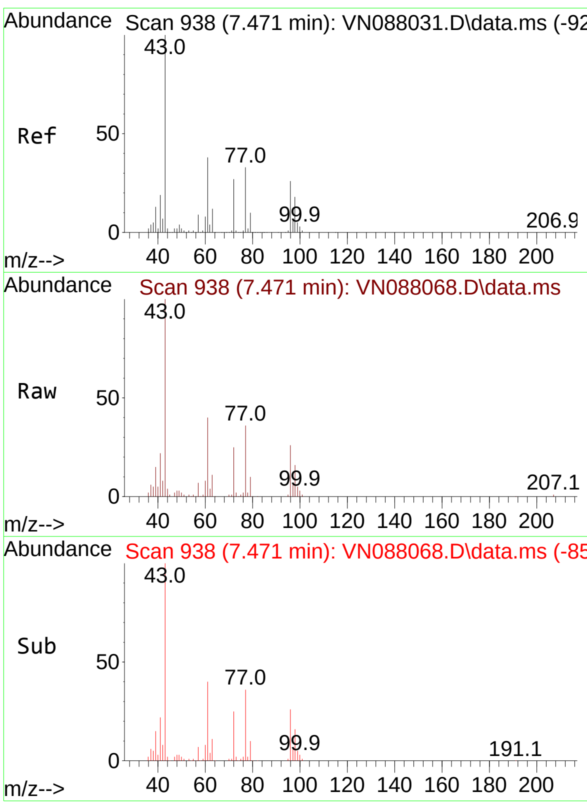
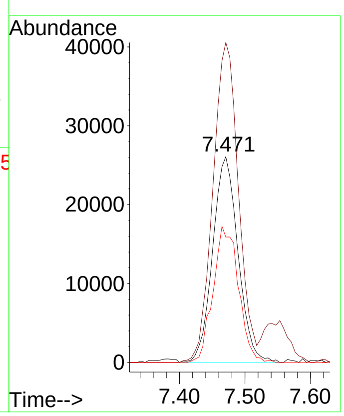


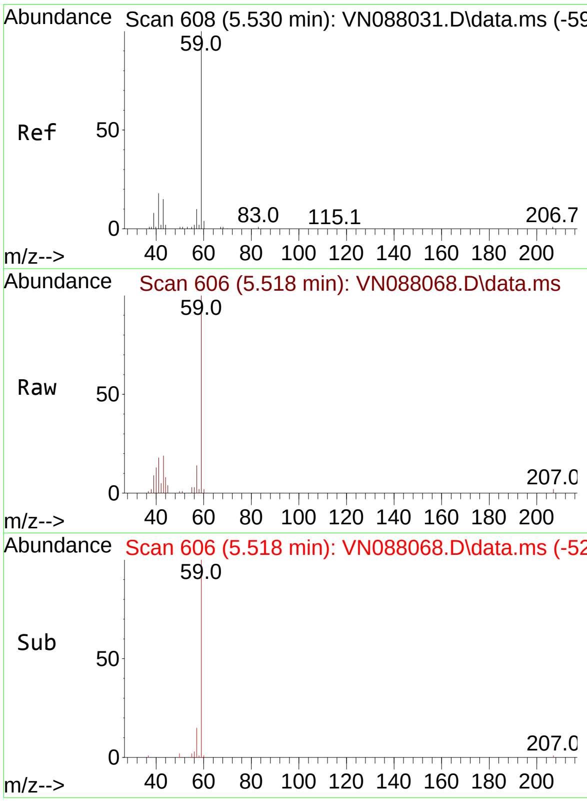


#22
cis-1,2-Dichloroethene
Concen: 17.353 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 96 Resp: 70252

Ion	Ratio	Lower	Upper
96	100		
61	155.9	117.0	175.6
98	44.6	52.6	79.0#





#23
tert-Butyl Alcohol
Concen: 94.474 ug/l
RT: 5.518 min Scan# 60
Delta R.T. -0.012 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 59 Resp: 8314

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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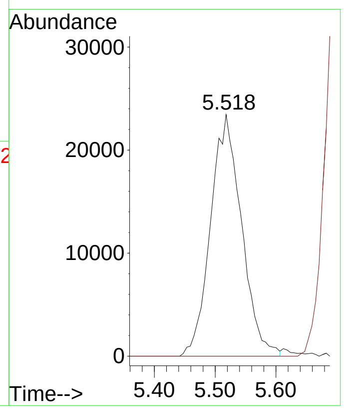
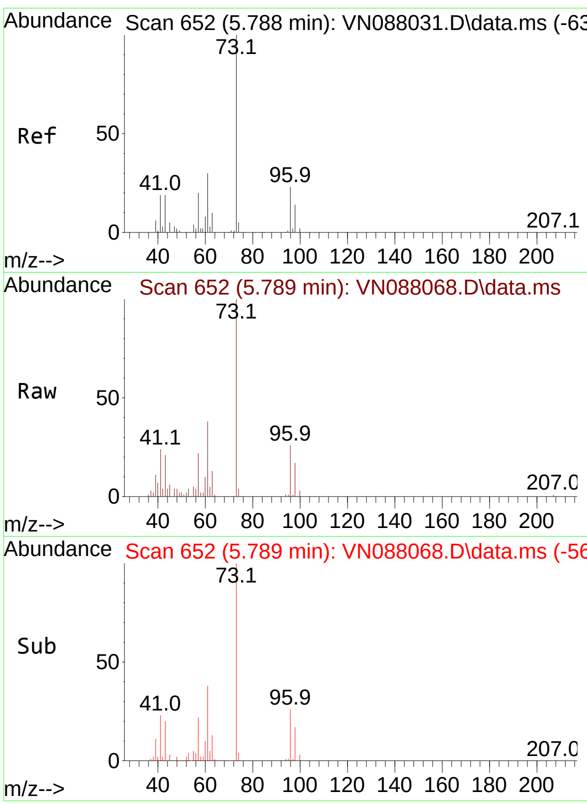
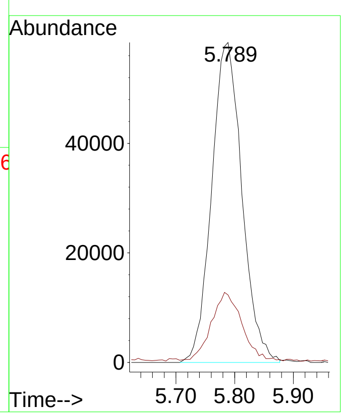




#24
Methyl tert-Butyl Ether
Concen: 17.371 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 73 Resp: 209735

Ion	Ratio	Lower	Upper
73	100		
43	20.3	17.0	25.4



Instrument :
MSVOA_N
ClientSampleId :
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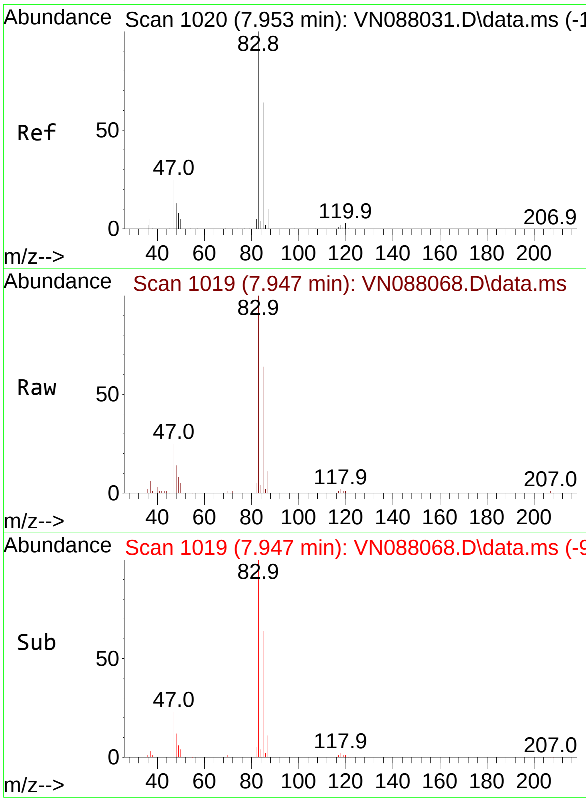
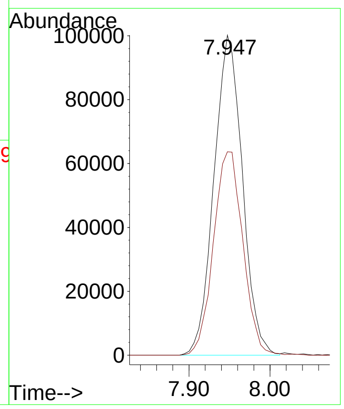
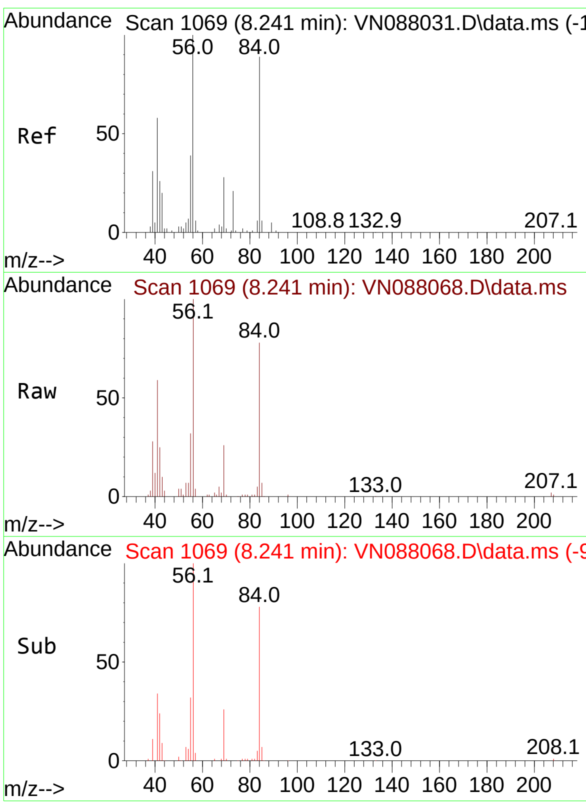
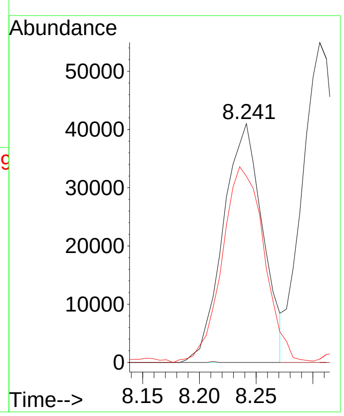


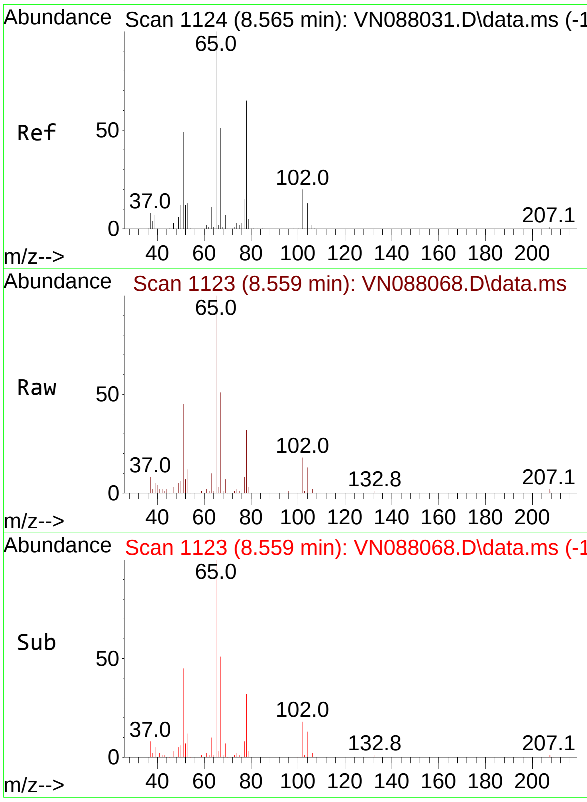

```
#25
Chloroform
Concen:   37.875 ug/l
RT:   7.947 min  Scan# 1
Delta R.T.  -0.006 min
Lab File:   VN088068.D
Acq: 17 Oct 2025  15:39

Tgt Ion: 83 Resp:  24449
Ion  Ratio  Lower  Upper
 83  100
 85   63.6   50.9   76.3
```






```
#26
Cyclohexane
Concen:   19.190 ug/l
RT:   8.241 min  Scan# 1069
Delta R.T.  0.000 min
Lab File:   VN088068.D
Acq: 17 Oct 2025  15:39

Tgt Ion: 56 Resp:   99461
Ion  Ratio  Lower  Upper
 56  100
 89    0.0    8.6   12.8#
 84   87.3   69.6  104.4
```





#27
1,2-Dichloroethane-d4
Concen: 32.053 ug/l
RT: 8.559 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 65 Resp: 13278

Ion	Ratio	Lower	Upper
65	100		
67	51.6	41.9	62.9

Instrument :
MSVOA_N
ClientSampleId :
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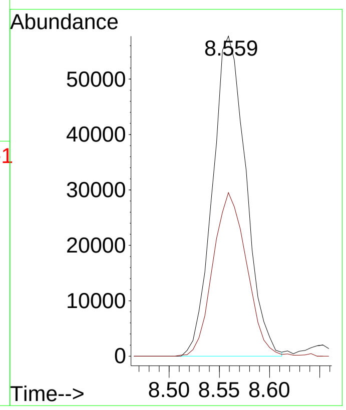
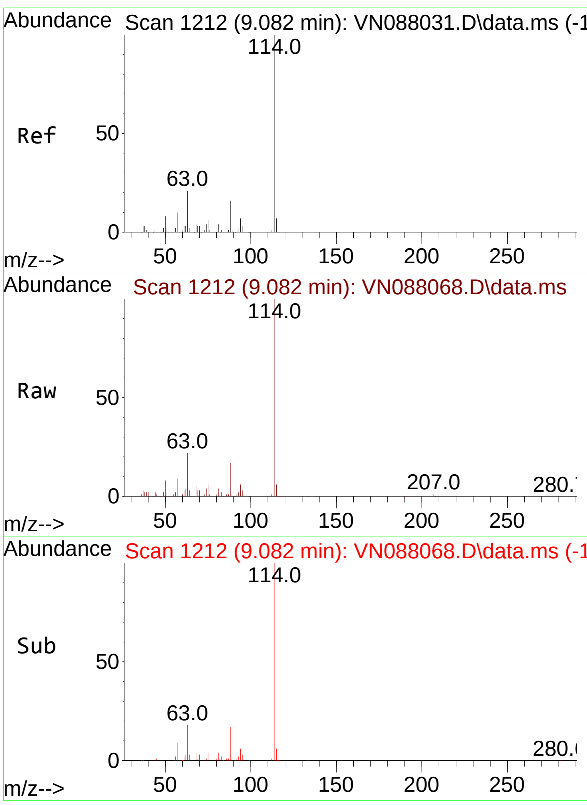
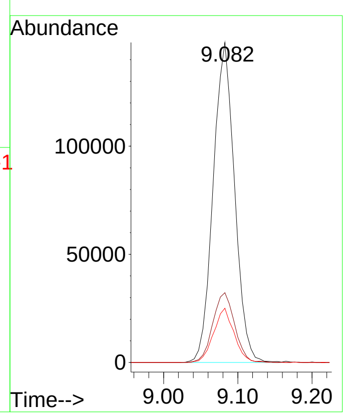




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:114 Resp: 297248

Ion	Ratio	Lower	Upper
114	100		
63	22.2	16.6	25.0
88	16.1	12.6	18.8



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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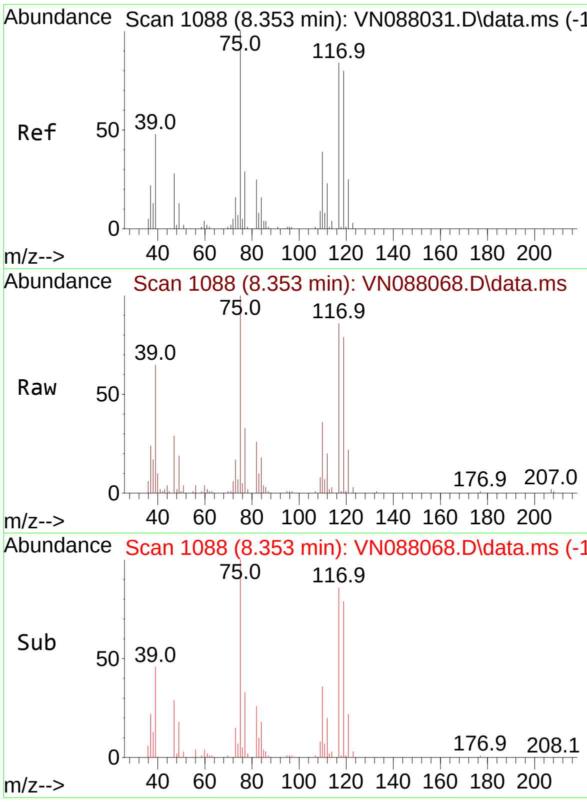
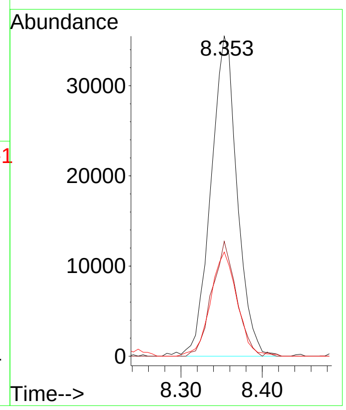
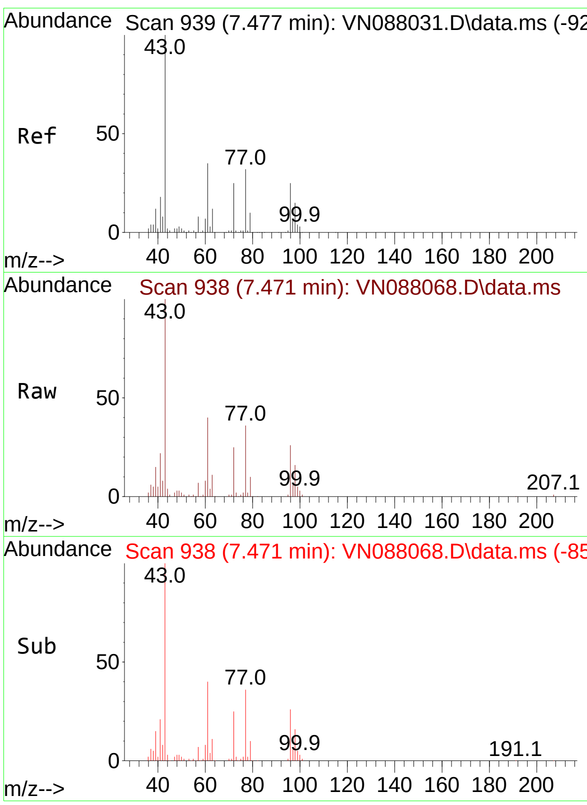


#29
1,1-Dichloropropene
Concen: 18.672 ug/l
RT: 8.353 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 75 Resp: 7955

Ion	Ratio	Lower	Upper
75	100		
110	33.3	0.0	72.2
77	33.1	0.0	60.6

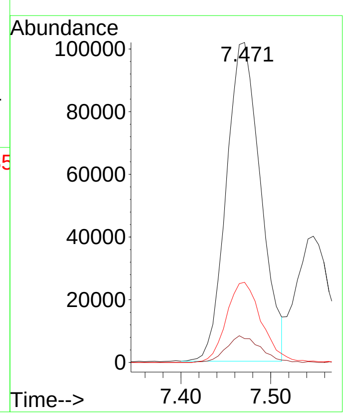




#30
2-Butanone
Concen: 85.901 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 43 Resp: 269939

Ion	Ratio	Lower	Upper
43	100		
57	8.3	6.5	9.7
72	25.8	21.4	32.2



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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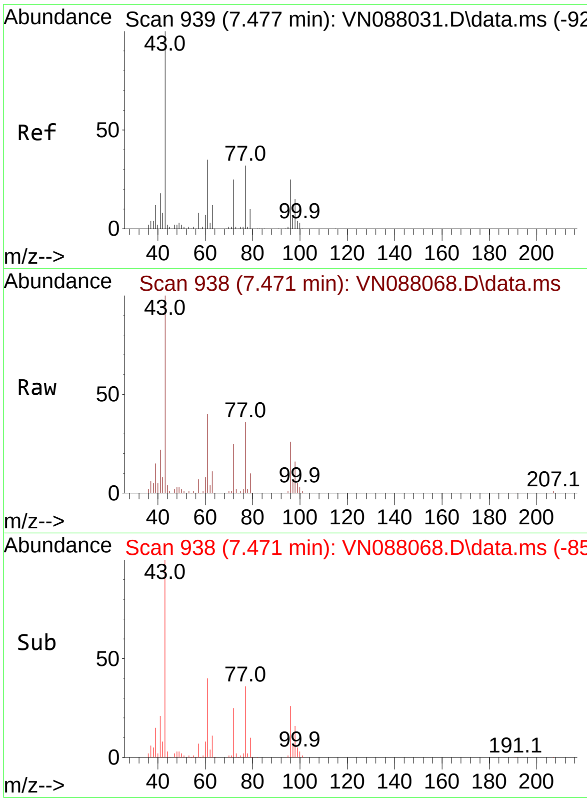
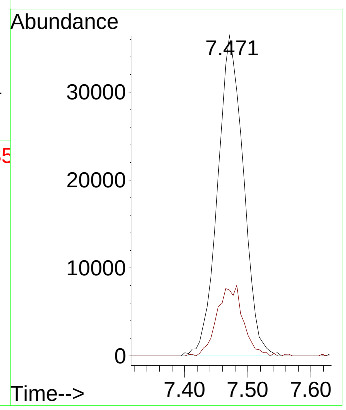
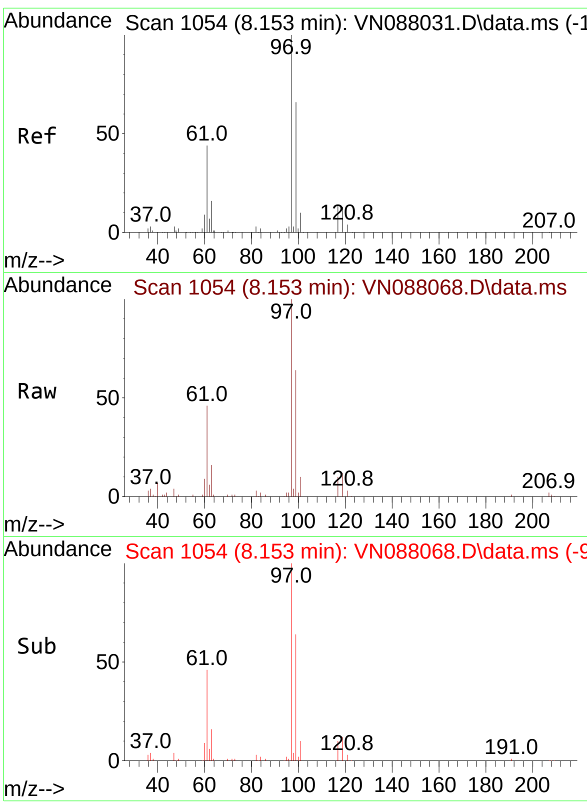
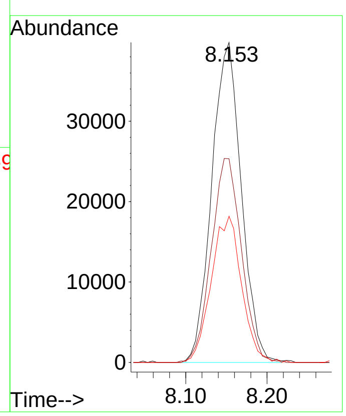



```
#31
2,2-Dichloropropane
Concen:   18.920 ug/l
RT:    7.471 min   Scan# 9
Delta R.T.   -0.006 min
Lab File:    VN088068.D
Acq: 17 Oct 2025   15:39

Tgt Ion: 77 Resp:   10387
Ion   Ratio   Lower   Upper
 77   100
 97    14.2    17.8    26.8
```






```
#32
1,1,1-Trichloroethane
Concen:   18.942 ug/l
RT:    8.153 min   Scan# 1054
Delta R.T.   0.000 min
Lab File:    VN088068.D
Acq: 17 Oct 2025   15:39

Tgt Ion: 97 Resp:   100849
Ion   Ratio   Lower   Upper
 97   100
 99    65.0    51.4    77.2
 61    46.8    34.7    52.1
```



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations
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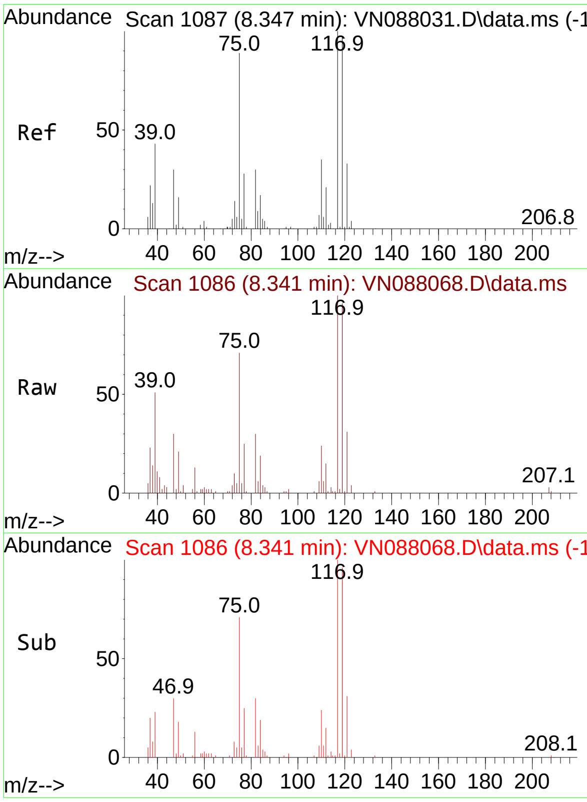
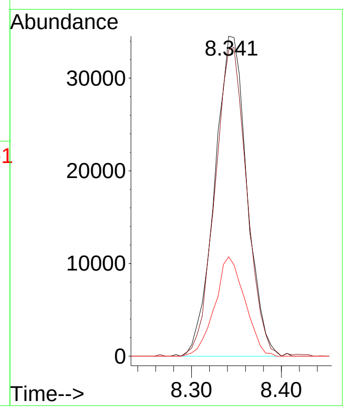
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

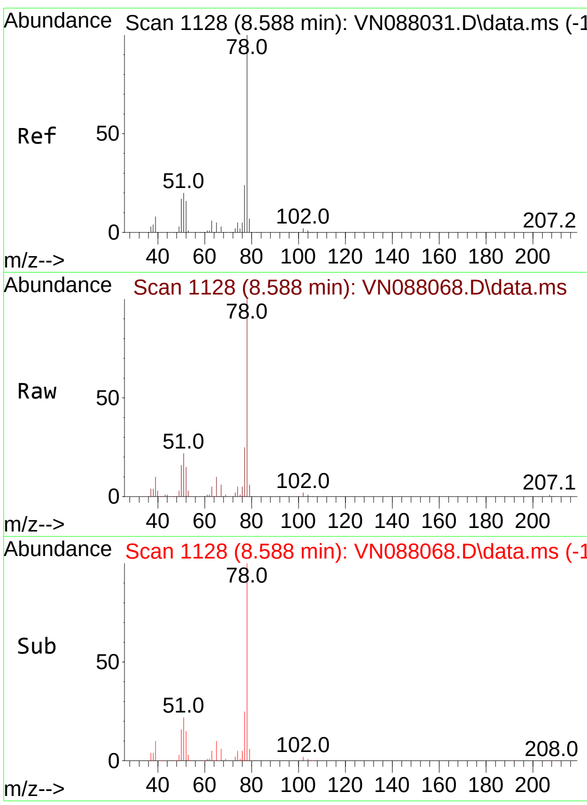


#33
Carbon Tetrachloride
Concen: 19.263 ug/l
RT: 8.341 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:117 Resp: 8590

Ion	Ratio	Lower	Upper
117	100		
119	95.7	77.9	116.9
121	31.0	26.4	39.6

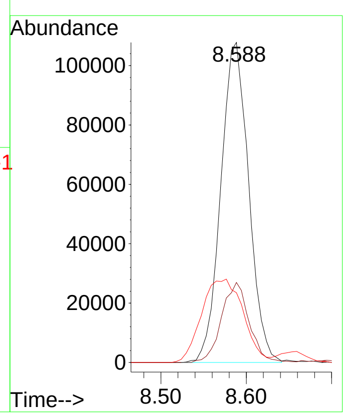




#34
Benzene
Concen: 17.347 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 78 Resp: 245158

Ion	Ratio	Lower	Upper
78	100		
77	25.0	18.9	28.3
51	20.8	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
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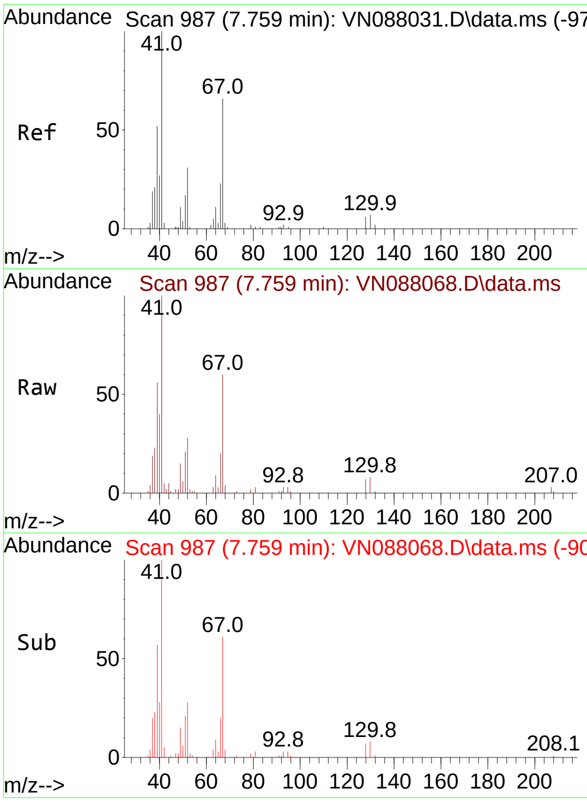
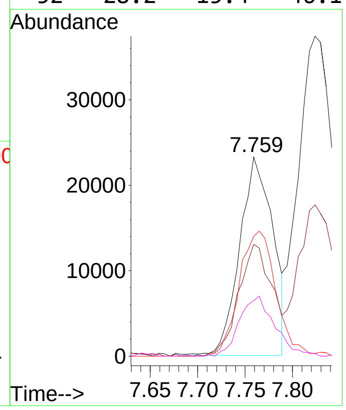
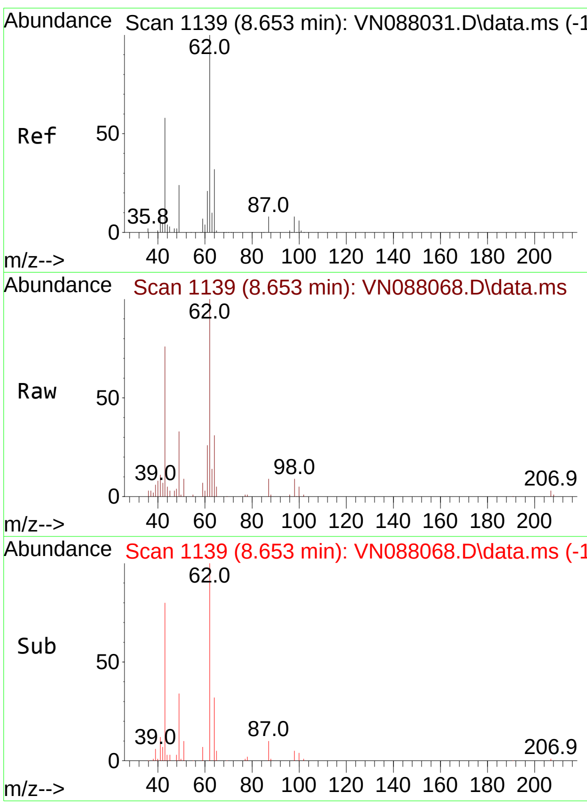


#35
Methacrylonitrile
Concen: 17.119 ug/l
RT: 7.759 min Scan# 98
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 41 Resp: 5657

Ion	Ratio	Lower	Upper
41	100		
39	56.7	26.1	78.3
67	60.9	33.1	99.2
52	28.2	15.4	46.1

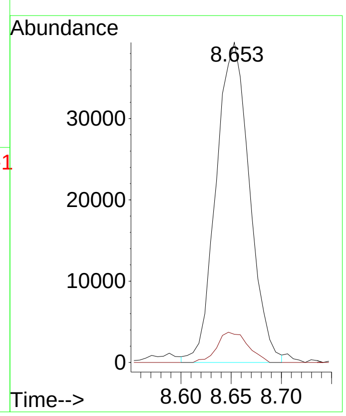




#36
1,2-Dichloroethane
Concen: 18.559 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 62 Resp: 91057

Ion	Ratio	Lower	Upper
62	100		
98	8.8	7.8	11.6



Sample Results: **VN088068.D**

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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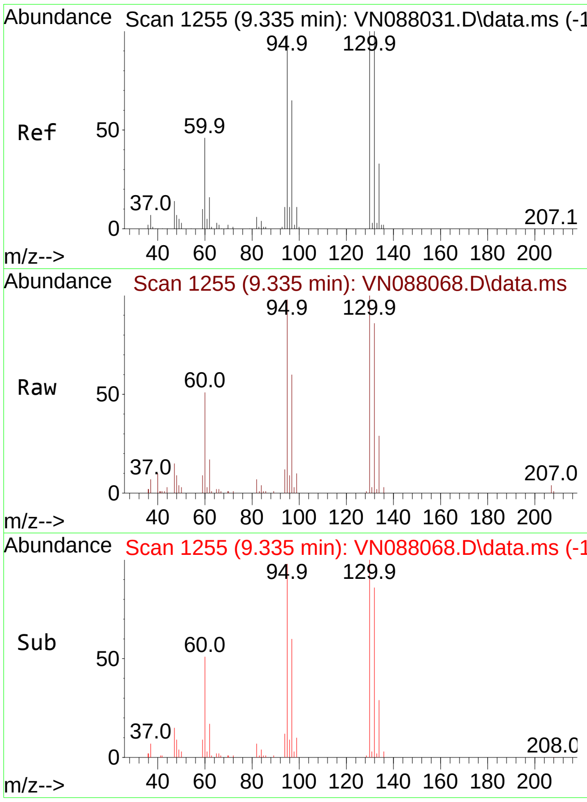
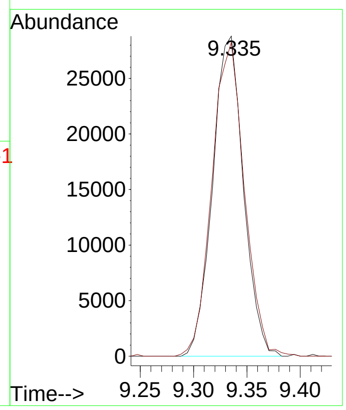
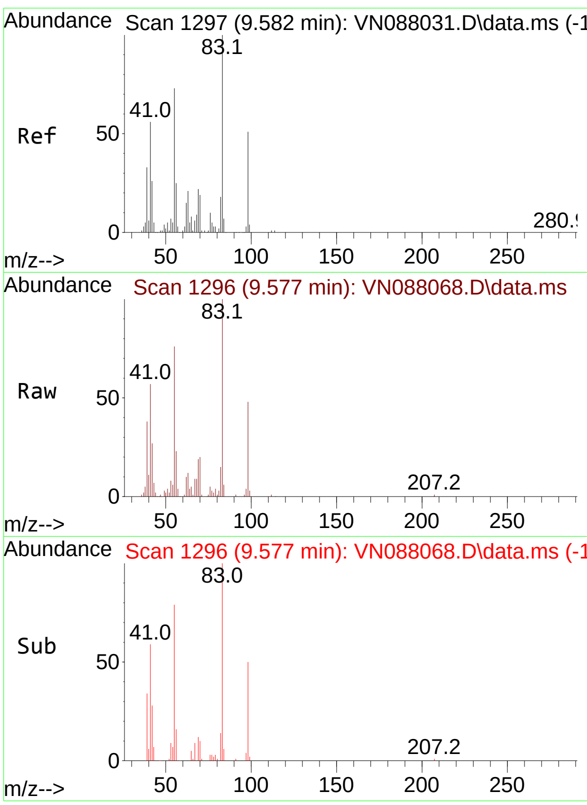


#37
Trichloroethene
Concen: 17.298 ug/l
RT: 9.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:130 Resp: 5791

Ion	Ratio	Lower	Upper
130	100		
95	97.4	78.7	118.1

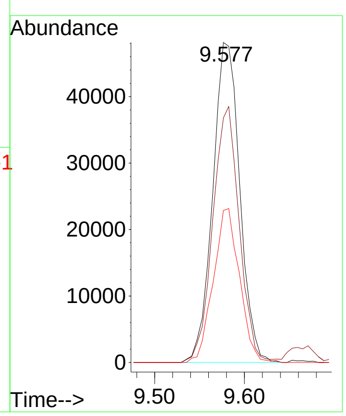


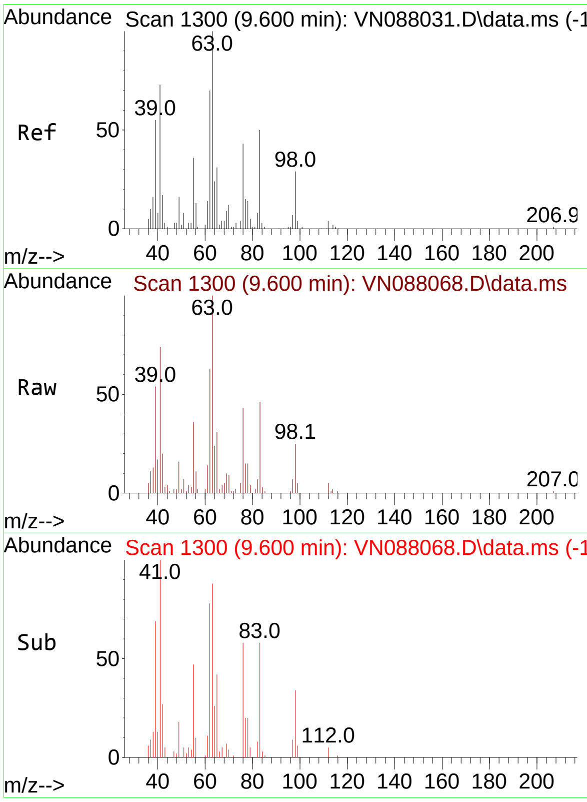


#38
Methylcyclohexane
Concen: 19.136 ug/l
RT: 9.577 min Scan# 1296
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 83 Resp: 100687

Ion	Ratio	Lower	Upper
83	100		
55	78.1	37.3	111.9
98	46.5	25.4	76.0





#39
1,2-Dichloropropane
Concen: 17.828 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 63 Resp: 6317

Ion	Ratio	Lower	Upper
63	100		
65	30.6	25.0	37.6

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations
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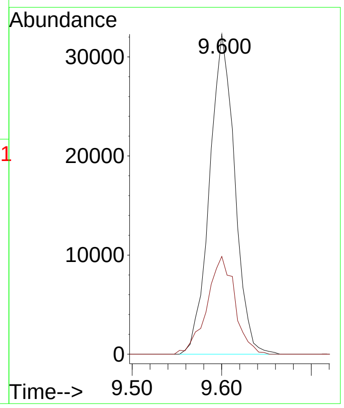
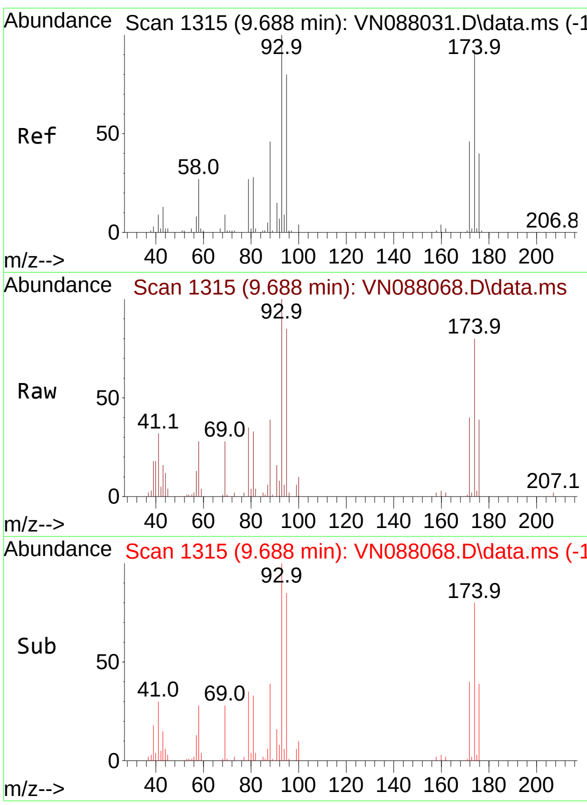
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

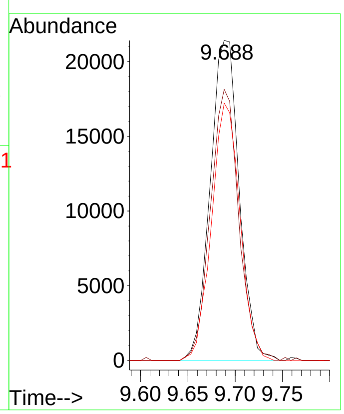




#40
Dibromomethane
Concen: 17.778 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 93 Resp: 45857

Ion	Ratio	Lower	Upper
93	100		
95	82.7	0.0	158.6
174	78.7	0.0	180.8



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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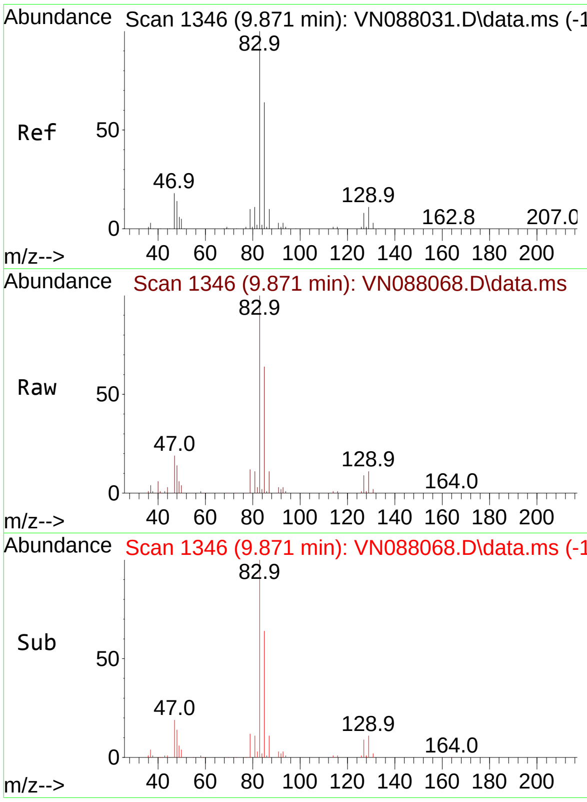
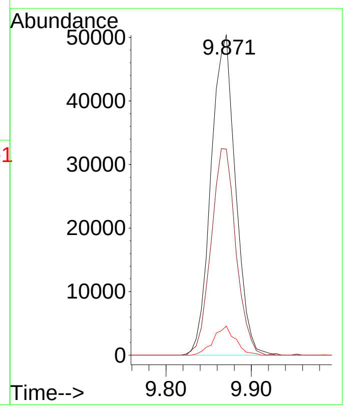
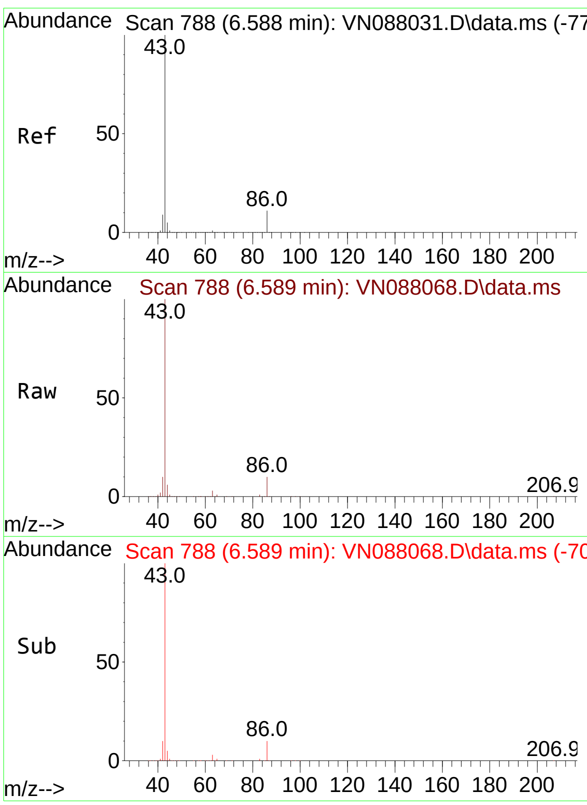


#41
Bromodichloromethane
Concen: 19.098 ug/l
RT: 9.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 83 Resp: 10061

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.0	76.4
127	9.1	6.1	9.1

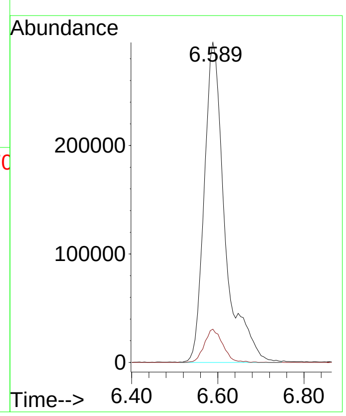




#42
Vinyl Acetate
Concen: 92.284 ug/l m
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 43 Resp: 987928

Ion	Ratio	Lower	Upper
43	100		
86	9.1	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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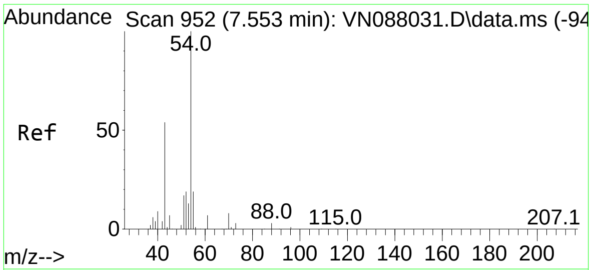
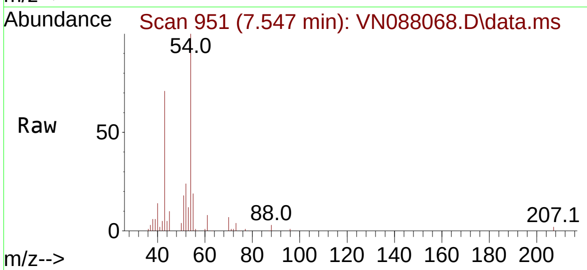
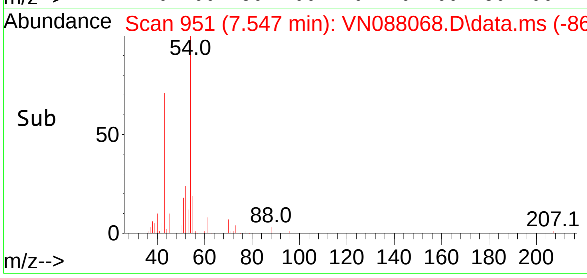


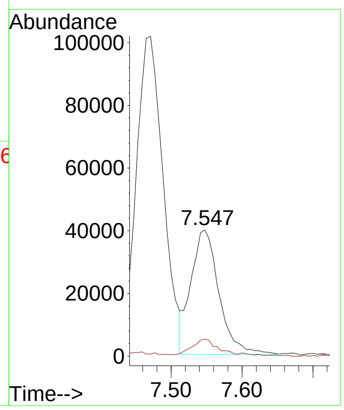


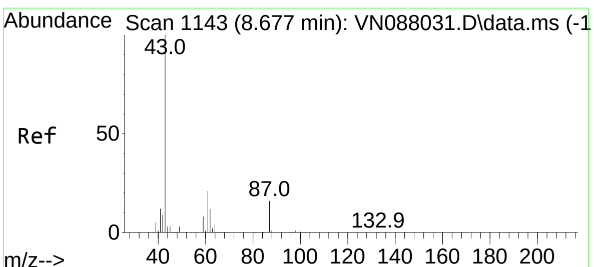


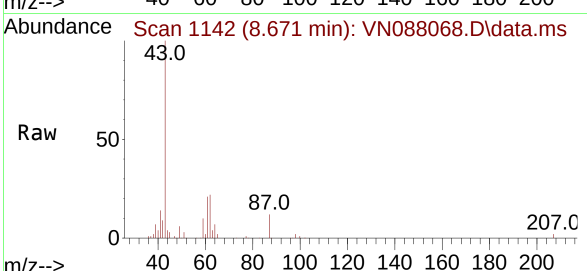
#43
Ethyl Acetate
Concen: 18.122 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

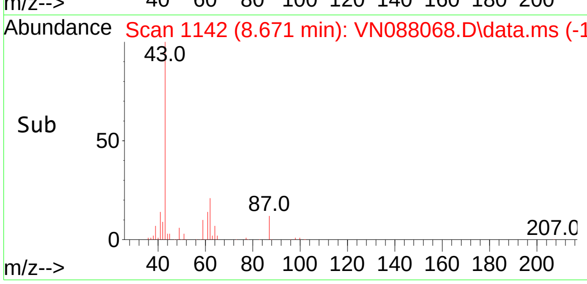
Tgt Ion: 43 Resp: 10947

Ion	Ratio	Lower	Upper
43	100		
45	11.3	10.2	15.4





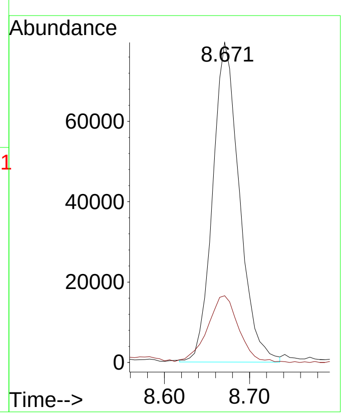




#44
Isopropyl Acetate
Concen: 17.684 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 43 Resp: 174478

Ion	Ratio	Lower	Upper
43	100		
61	24.2	18.7	28.1



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations
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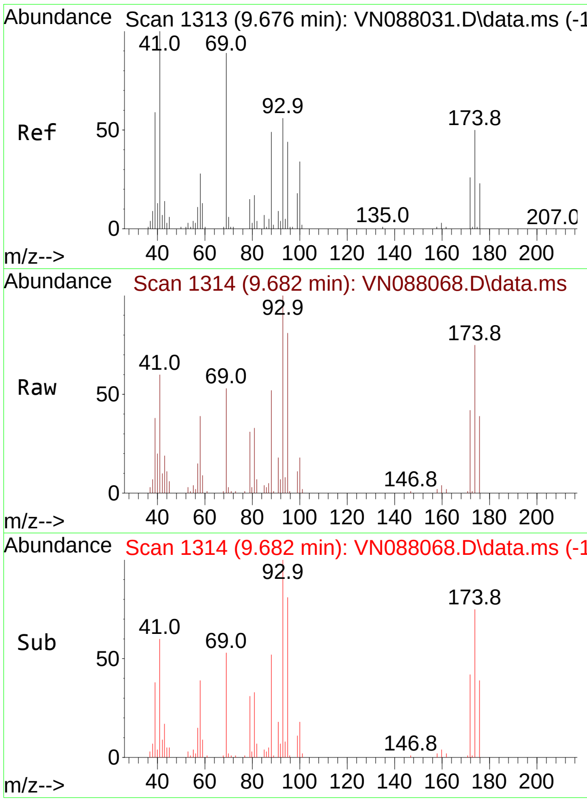
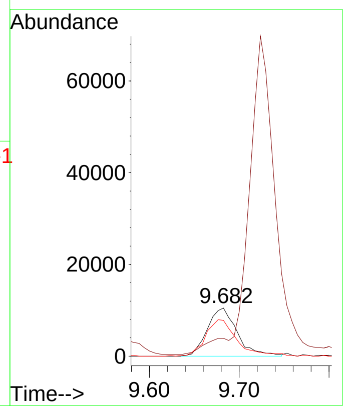
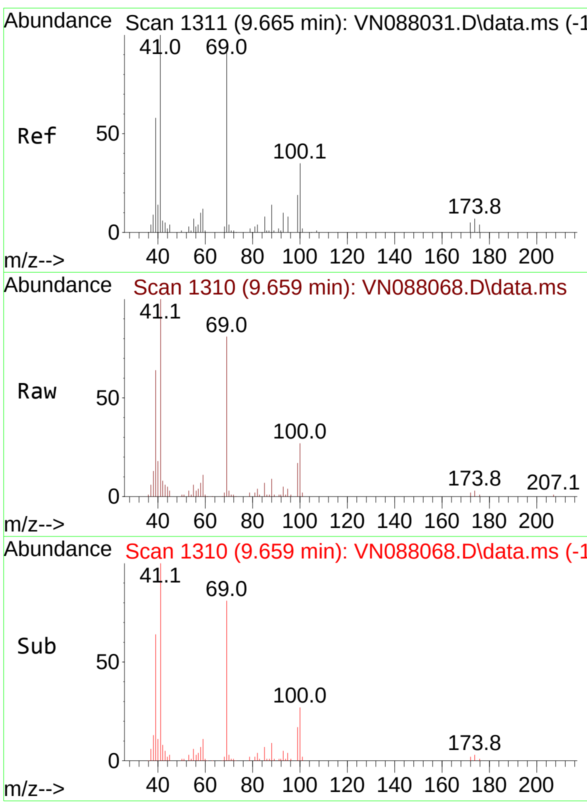


#45
1,4-Dioxane
Concen: 370.259 ug/l
RT: 9.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 88 Resp: 2429

Ion	Ratio	Lower	Upper
88	100		
43	28.5	18.6	27.8#
58	77.2	57.4	86.2

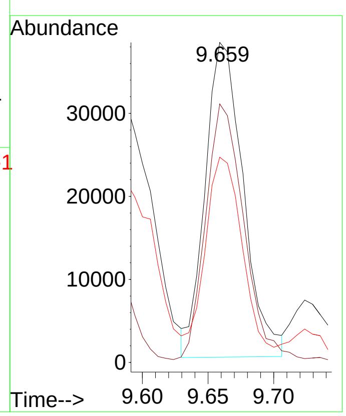


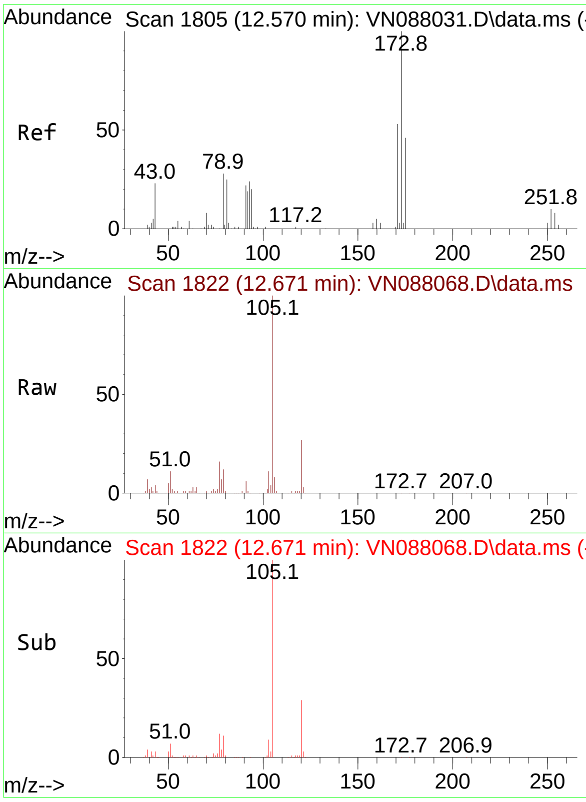


#46
Methyl methacrylate
Concen: 17.617 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 41 Resp: 76543

Ion	Ratio	Lower	Upper
41	100		
69	86.4	44.9	134.7
39	63.9	30.3	90.8





#47
n-amyl Acetate
Concen: 22.670 ug/l m
RT: 12.671 min Scan# 1
Delta R.T. 0.100 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 43 Resp: 106011

Ion	Ratio	Lower	Upper
43	100		
55	1.1	0.6	0.8

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
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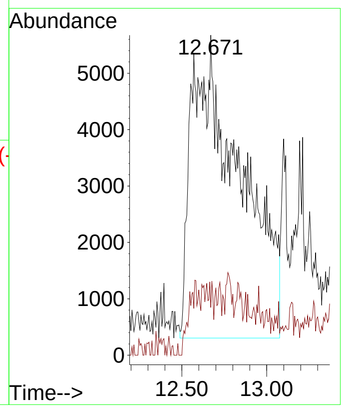
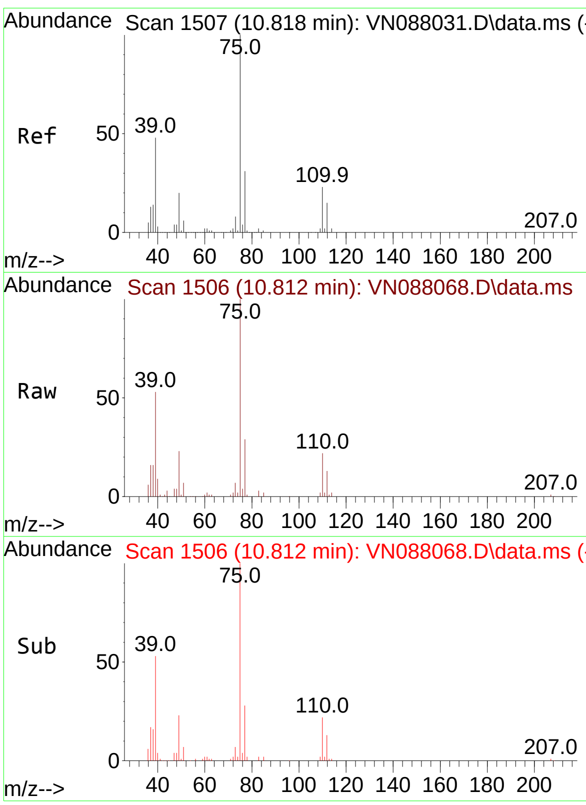
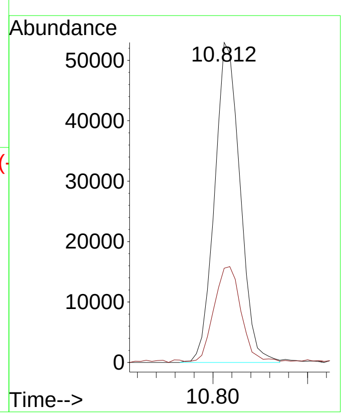




#48
t-1,3-Dichloropropene
Concen: 16.941 ug/l
RT: 10.812 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 75 Resp: 99242

Ion	Ratio	Lower	Upper
75	100		
77	29.1	24.5	36.7



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED
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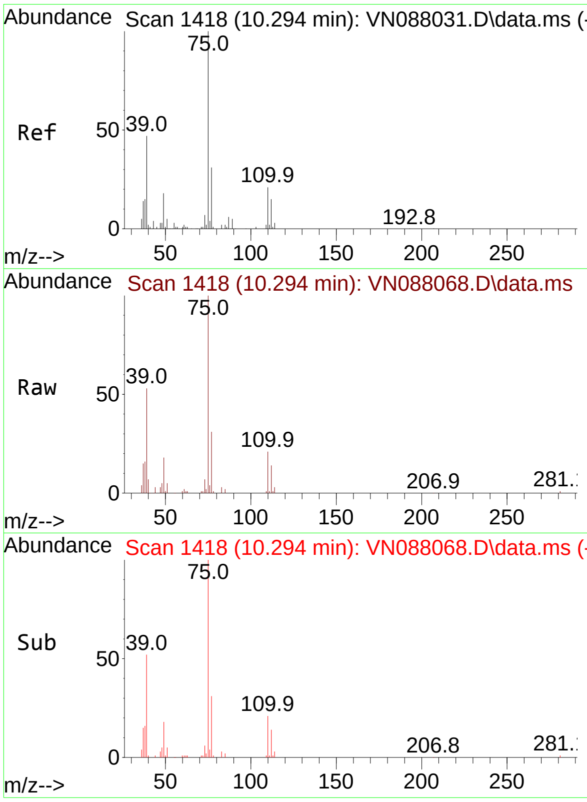
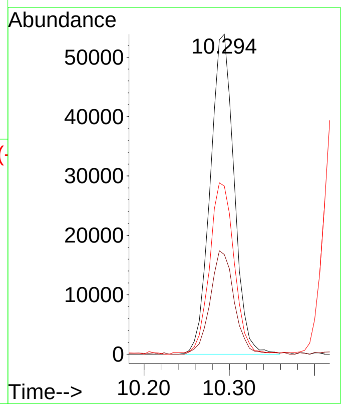
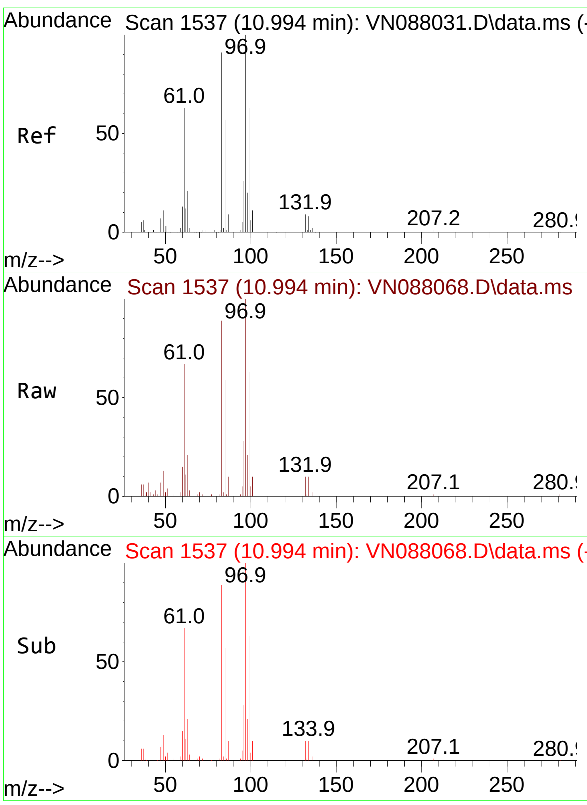
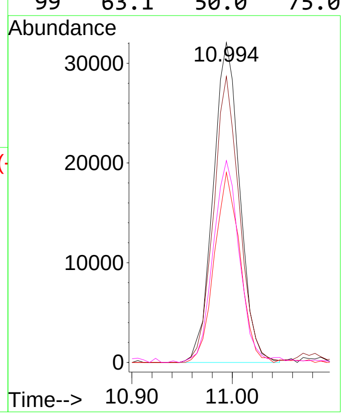



```
#49
cis-1,3-Dichloropropene
Concen:   17.124 ug/l
RT:  10.294 min  Scan# 14
Delta R.T.  0.000 min
Lab File:   VN088068.D
Acq: 17 Oct 2025  15:39

Tgt Ion: 75 Resp:  10463
Ion  Ratio  Lower  Upper
 75  100
 77   31.2   25.0   37.4
 39   52.2   37.4   56.0
```






```
#50
1,1,2-Trichloroethane
Concen:   17.284 ug/l
RT:  10.994 min  Scan# 1537
Delta R.T.  0.000 min
Lab File:   VN088068.D
Acq: 17 Oct 2025  15:39

Tgt Ion: 97 Resp:   59043
Ion  Ratio  Lower  Upper
 97  100
 83   89.4   72.5  108.7
 85   59.4   45.5   68.3
 99   63.1   50.0   75.0
```



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED

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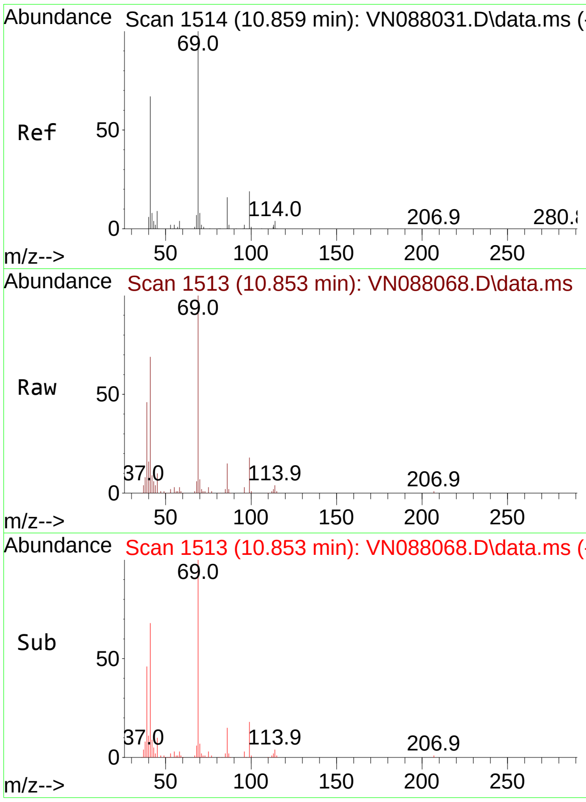
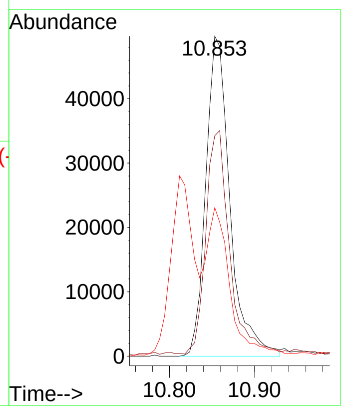
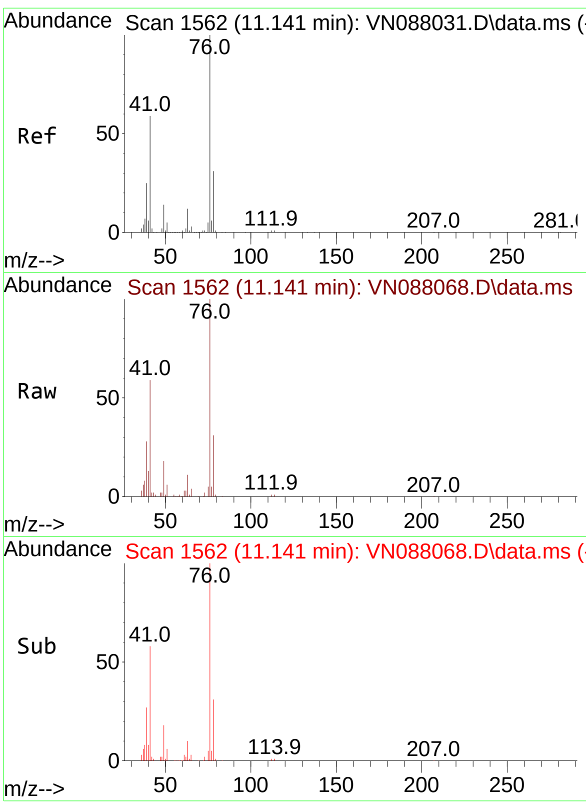


#51
Ethyl methacrylate
Concen: 16.983 ug/l
RT: 10.853 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 69 Resp: 9818

Ion	Ratio	Lower	Upper
69	100		
41	68.0	33.3	99.8
39	44.7	20.3	61.0

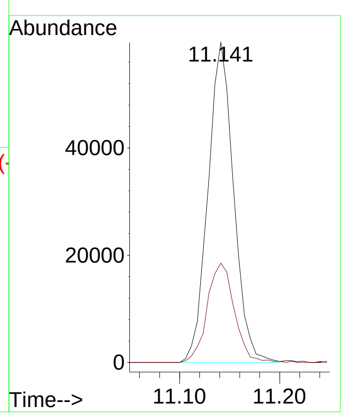




#52
1,3-Dichloropropane
Concen: 17.841 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 76 Resp: 106331

Ion	Ratio	Lower	Upper
76	100		
78	32.7	0.0	65.0



Sample Results: **VN088068.D**

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/20/2025
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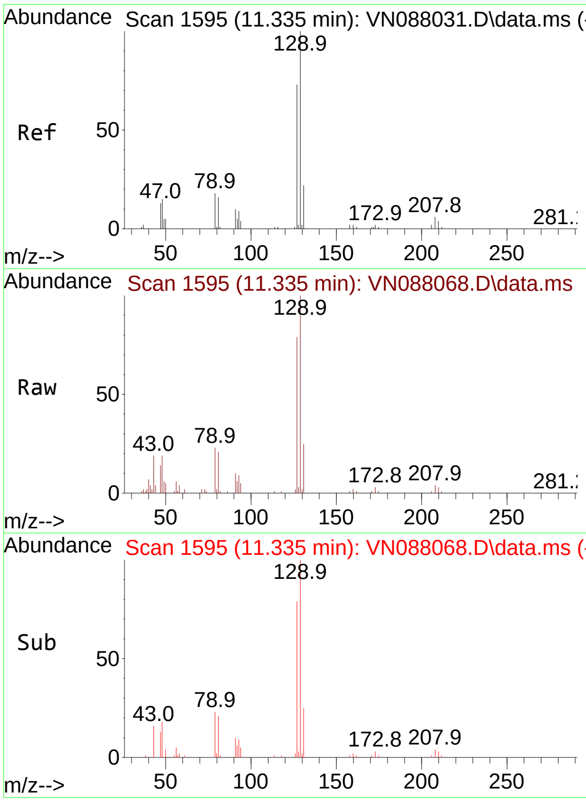
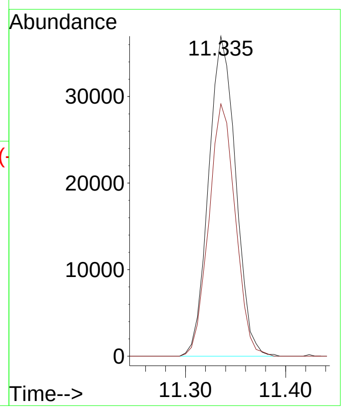
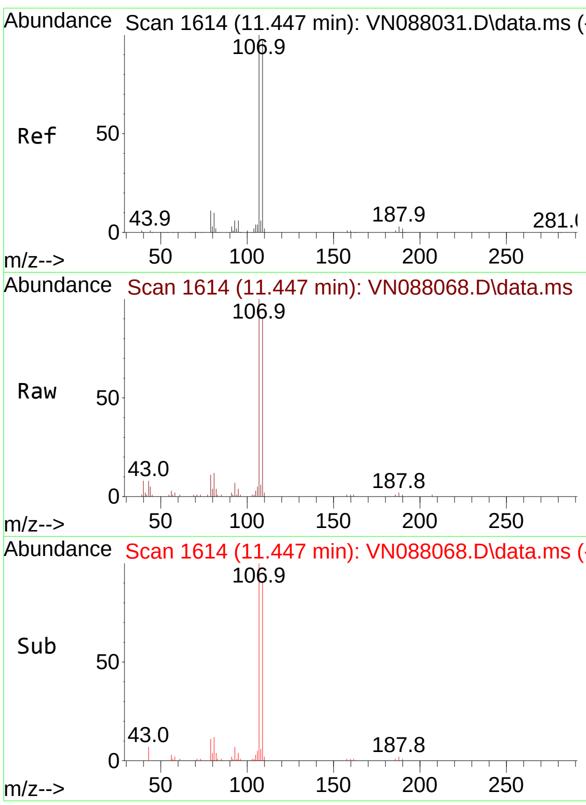


#53
Dibromochloromethane
Concen: 17.059 ug/l
RT: 11.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:129 Resp: 6966

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.3

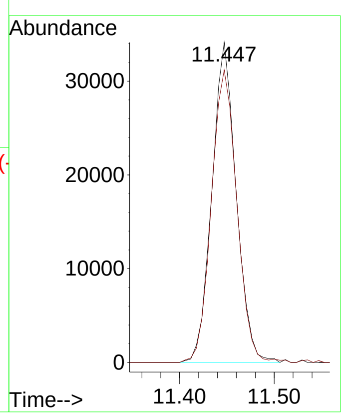


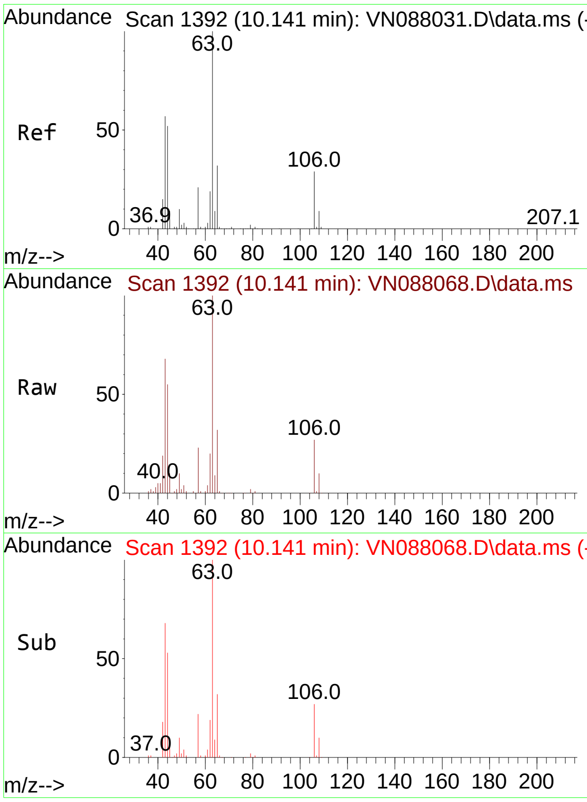


#54
1,2-Dibromoethane
Concen: 16.671 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:107 Resp: 60881

Ion	Ratio	Lower	Upper
107	100		
109	95.4	75.5	113.3





#55
2-Chloroethyl vinyl ether
Concen: 37.765 ug/l
RT: 10.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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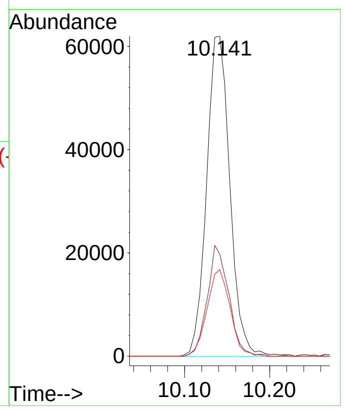
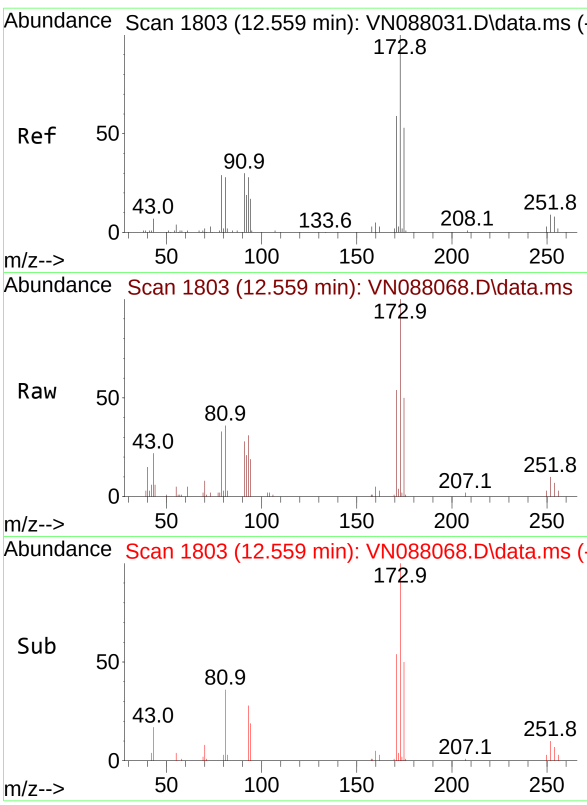
Tgt Ion: 63 Resp: 11784

Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.7	38.5
106	26.8	22.6	34.0

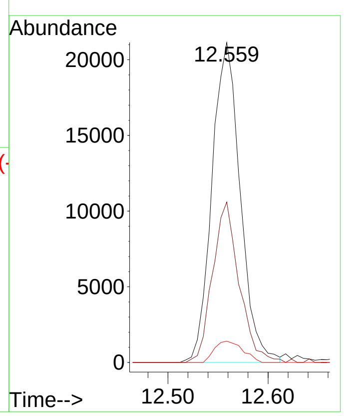




#56
Bromoform
Concen: 15.083 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:173 Resp: 41642

Ion	Ratio	Lower	Upper
173	100		
175	47.0	39.6	59.4
254	6.7	6.6	10.0



Sample Results: **VN088068.D**

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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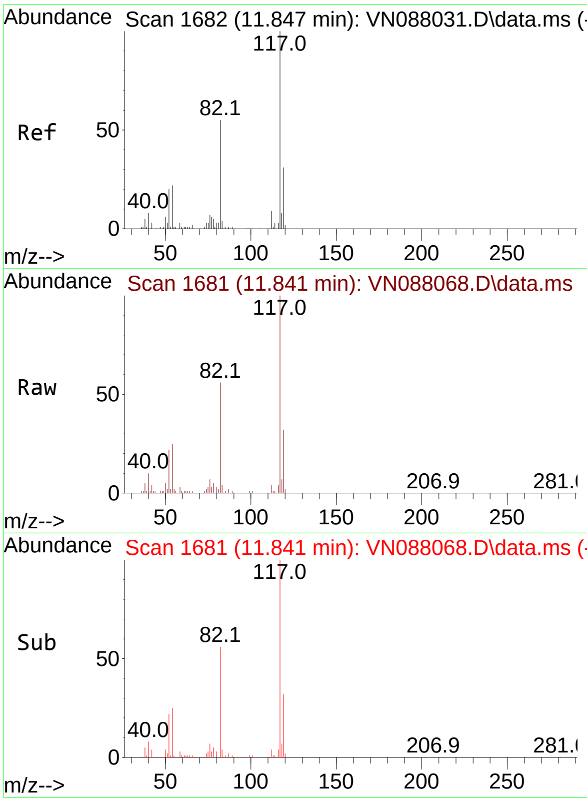
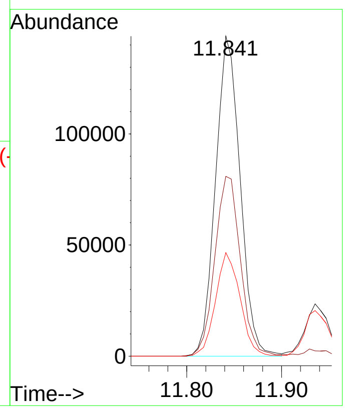
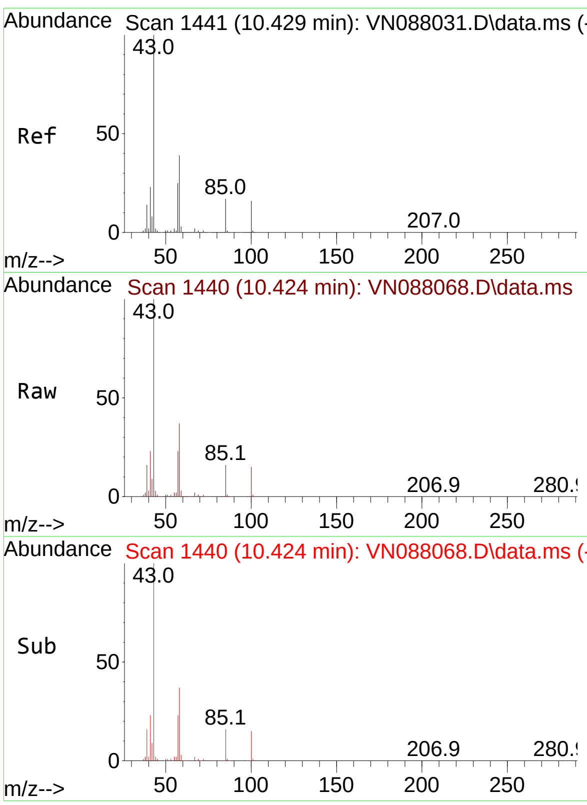


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:117 Resp: 26036

Ion	Ratio	Lower	Upper
117	100		
82	58.2	45.2	67.8
119	32.3	25.9	38.9

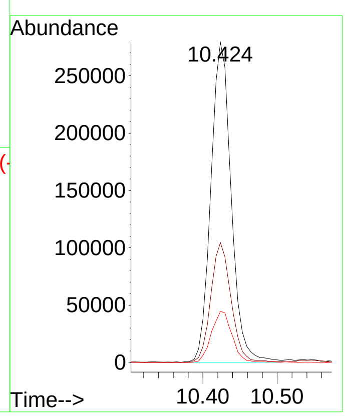


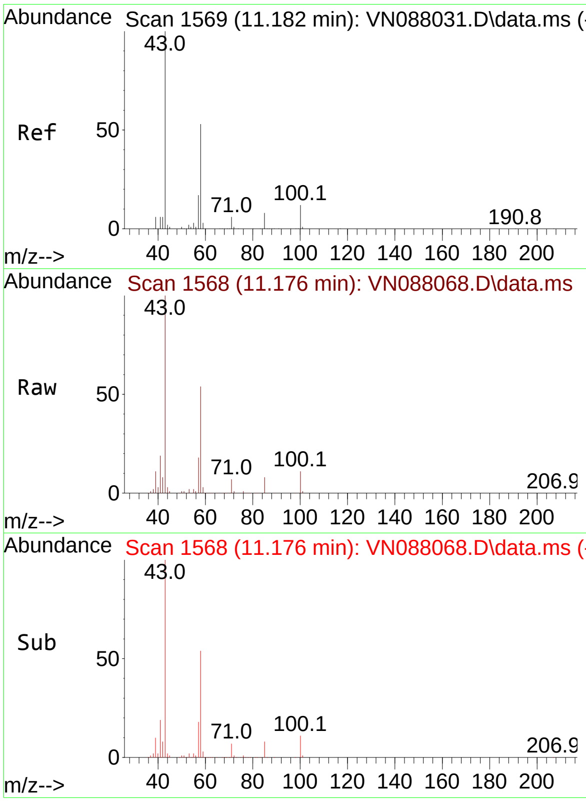


#58
4-Methyl-2-Pentanone
Concen: 91.427 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 43 Resp: 532449

Ion	Ratio	Lower	Upper
43	100		
58	37.3	31.2	46.8
85	16.1	13.7	20.5





#59
2-Hexanone
Concen: 88.725 ug/l
RT: 11.176 min Scan# 1!
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 43 Resp: 34115

Ion	Ratio	Lower	Upper
43	100		
58	52.5	43.1	64.7
57	18.0	14.6	21.8

Instrument :
MSVOA_N
ClientSampleId :
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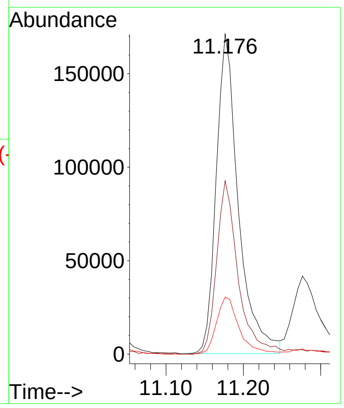
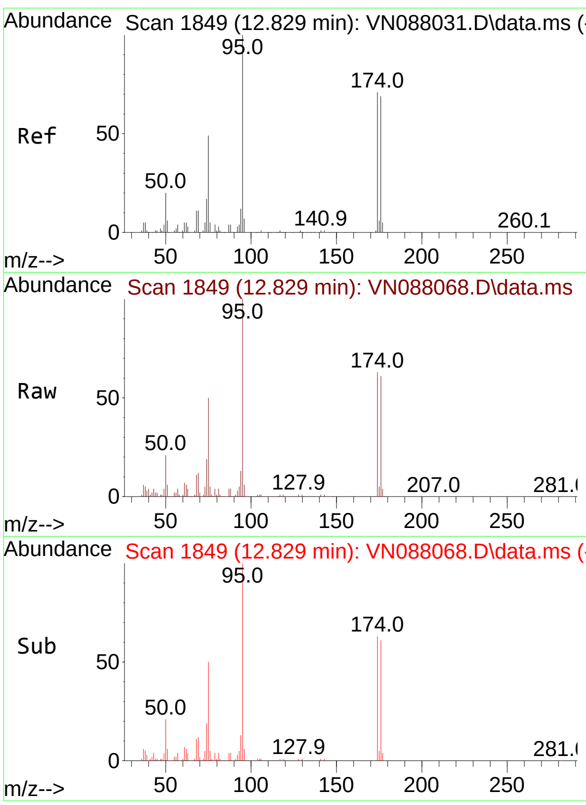
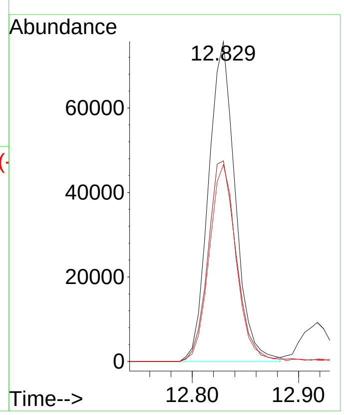




#60
4-Bromofluorobenzene
Concen: 30.800 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 95 Resp: 132200

Ion	Ratio	Lower	Upper
95	100		
174	66.1	57.4	86.0
176	62.2	57.0	85.4



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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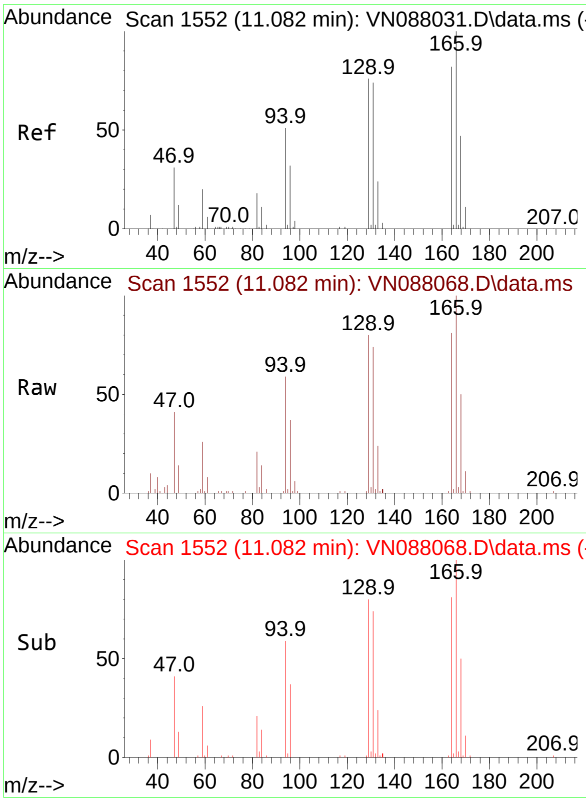
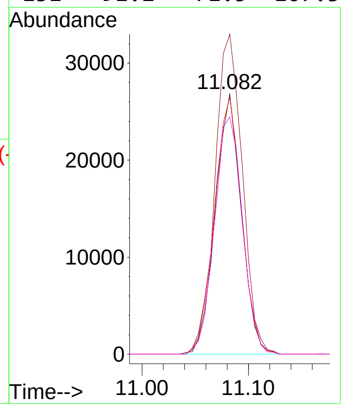
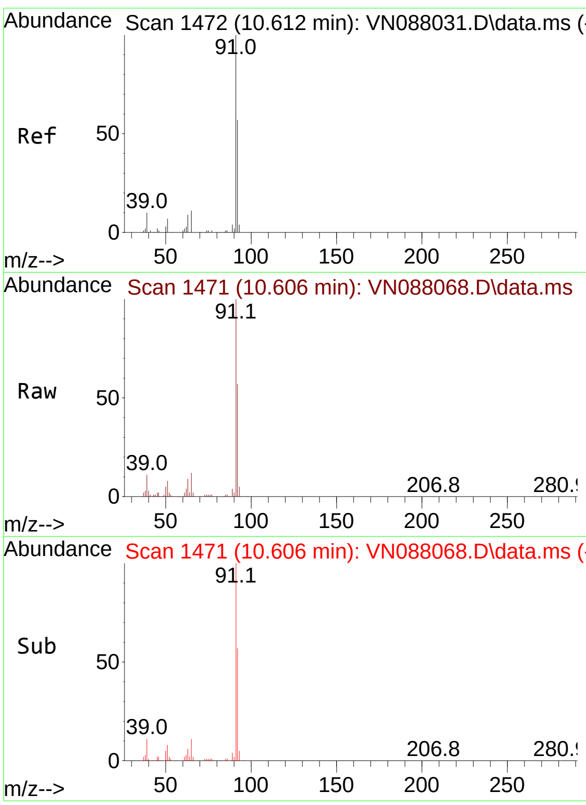


#61
Tetrachloroethene
Concen: 17.334 ug/l
RT: 11.082 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:164 Resp: 4570

Ion	Ratio	Lower	Upper
164	100		
166	123.1	97.2	145.8
129	98.7	73.7	110.5
131	91.2	71.5	107.3

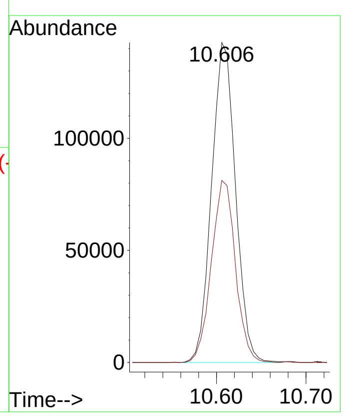


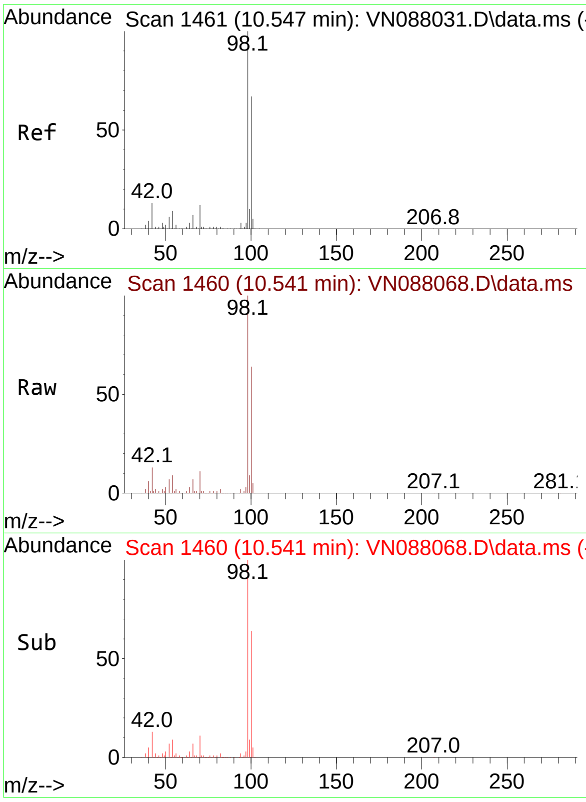


#62
Toluene
Concen: 17.931 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 91 Resp: 264818

Ion	Ratio	Lower	Upper
91	100		
92	57.1	45.8	68.8





#63
Toluene-d8
Concen: 31.535 ug/l
RT: 10.541 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 98 Resp: 36581

Ion	Ratio	Lower	Upper
98	100		
100	64.3	53.1	79.7

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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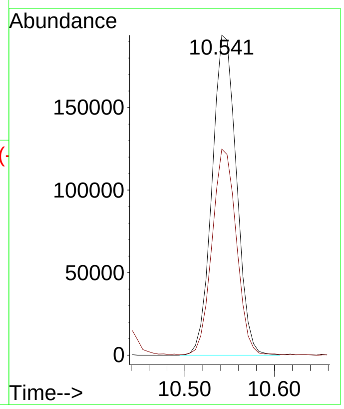
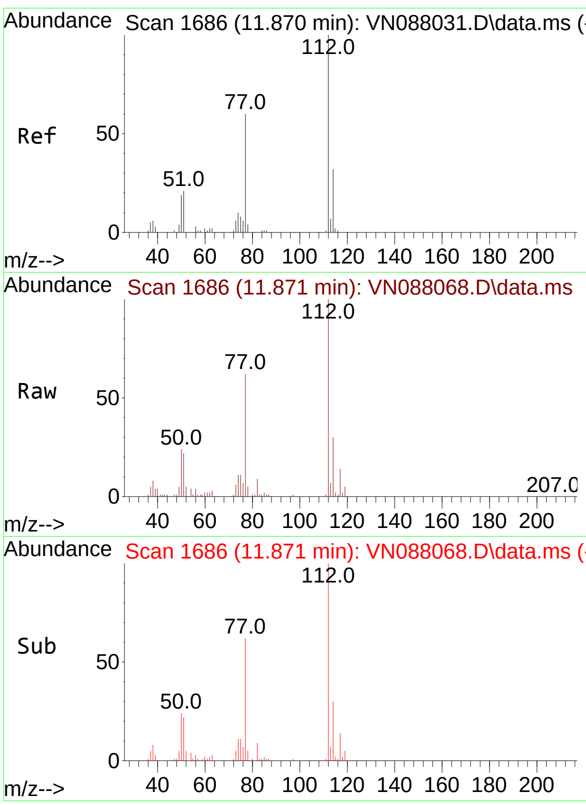
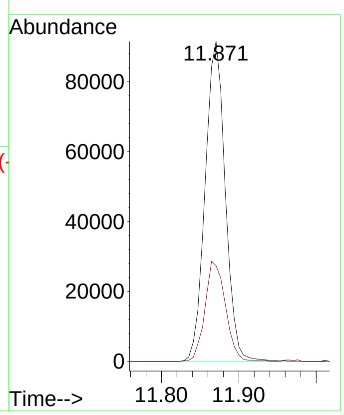


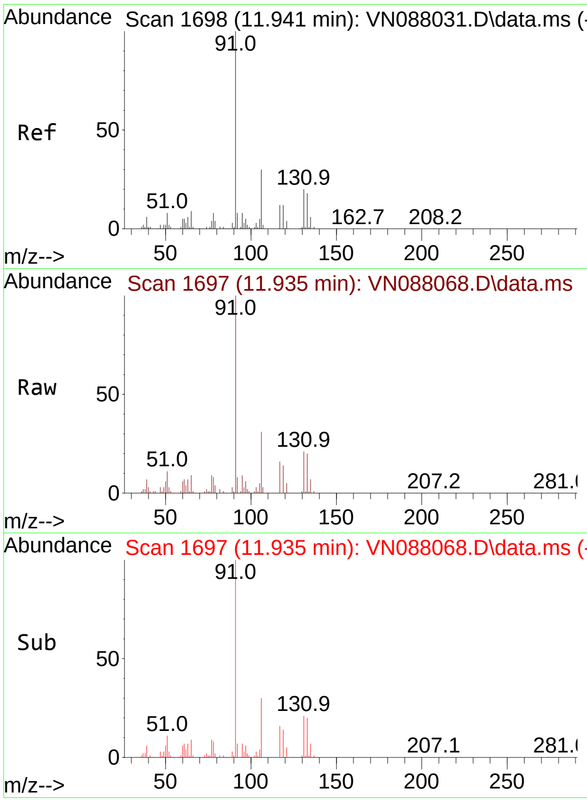


#64
Chlorobenzene
Concen: 17.587 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:112 Resp: 165907

Ion	Ratio	Lower	Upper
112	100		
114	29.9	25.7	38.5





#65
1,1,1,2-Tetrachloroethane
Concen: 17.494 ug/l
RT: 11.935 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:131 Resp: 5687

Ion	Ratio	Lower	Upper
131	100		
133	94.8	0.0	183.8
119	65.5	0.0	132.0

Instrument :
MSVOA_N
ClientSampleId :
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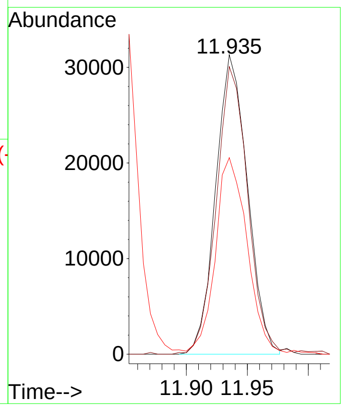
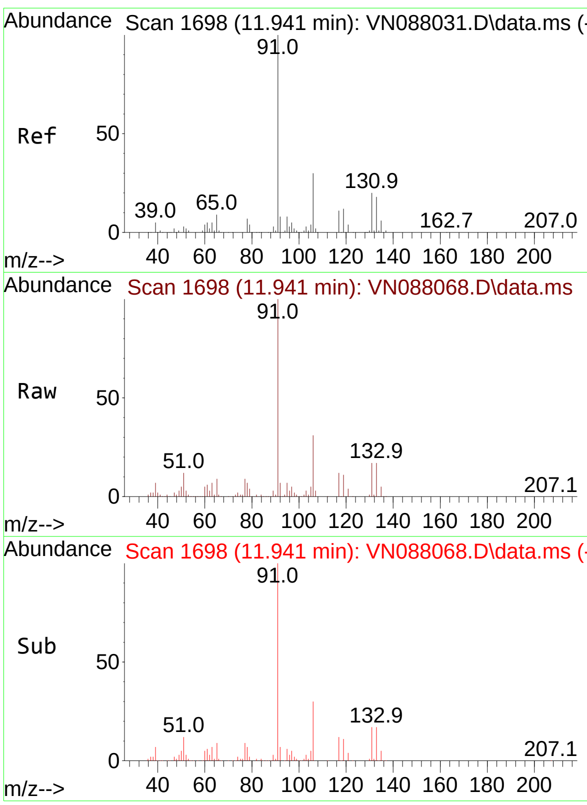
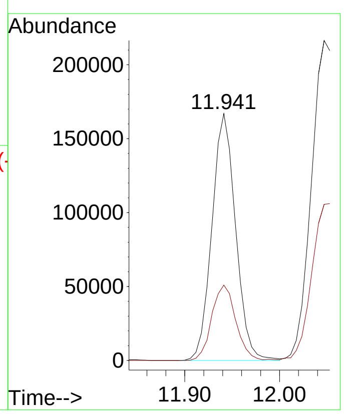




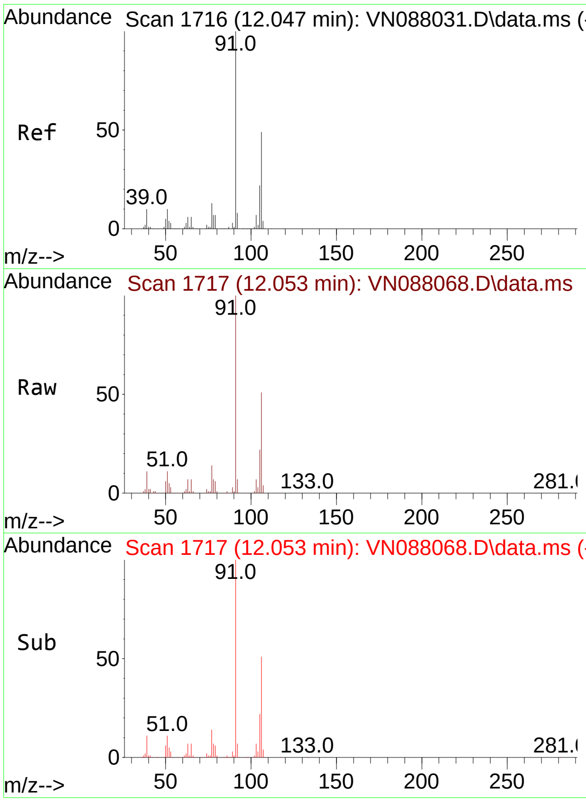
#66
Ethyl Benzene
Concen: 18.035 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 91 Resp: 289621

Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.0	36.0



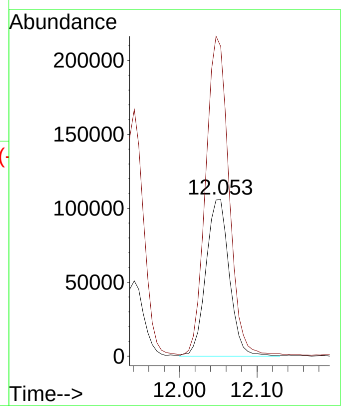
Sample Results: **VN088068.D**



#67
m/p-Xylenes
Concen: 35.991 ug/l
RT: 12.053 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:106 Resp: 22281

Ion	Ratio	Lower	Upper
106	100		
91	203.2	161.4	242.0



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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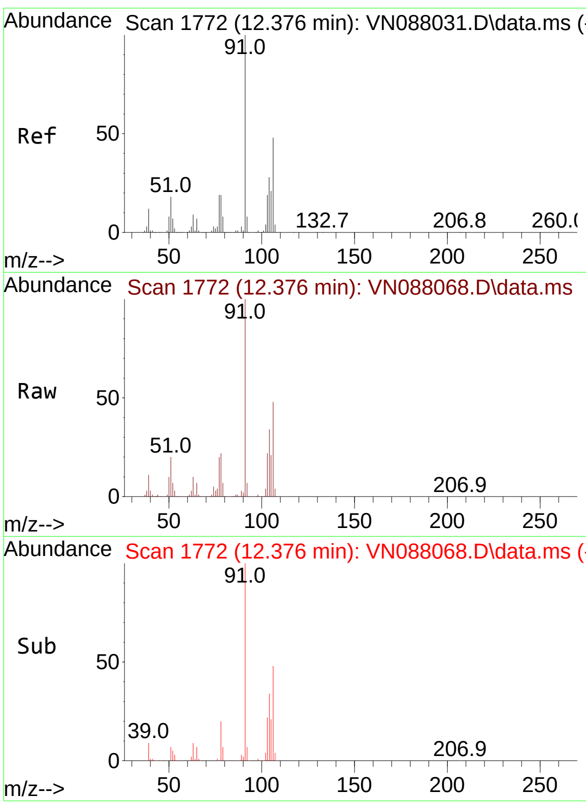
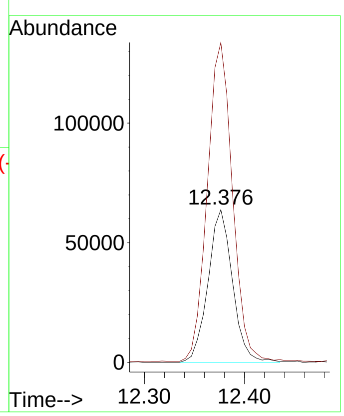


#68
o-Xylene
Concen: 17.665 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:106 Resp: 108867

Ion	Ratio	Lower	Upper
106	100		
91	216.3	105.2	315.6



Sample Results: **VN088068.D**

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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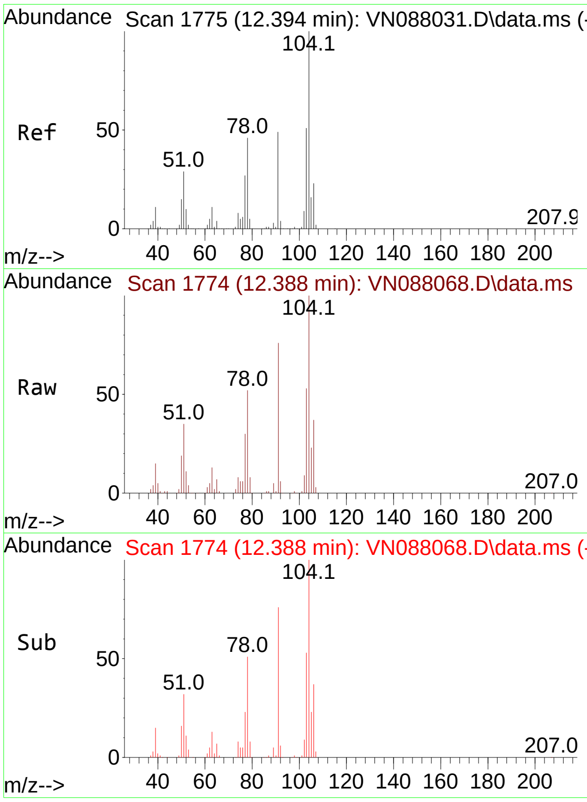
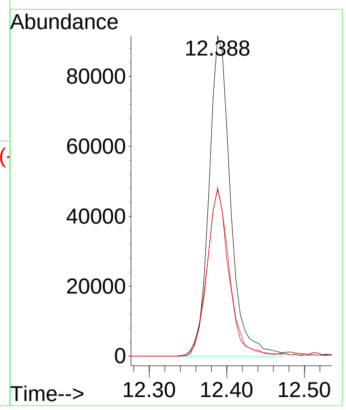
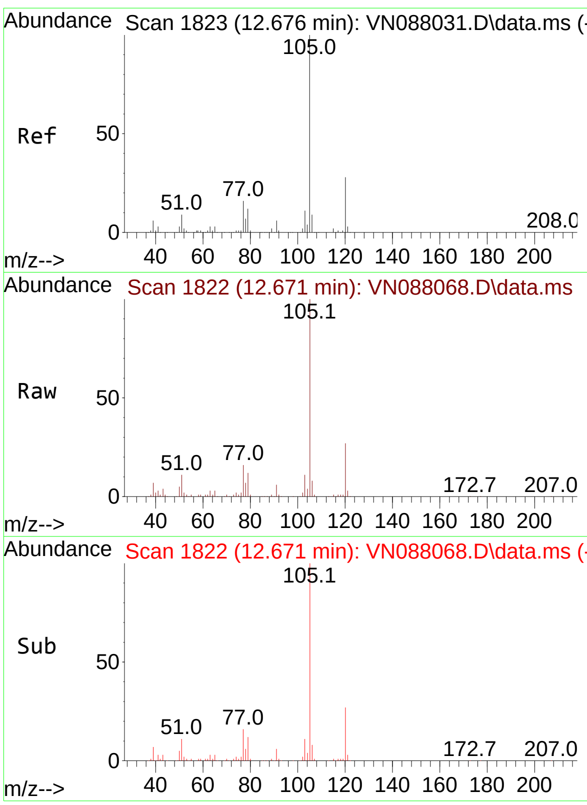
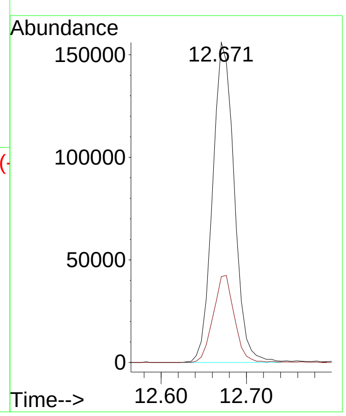



```
#69
Styrene
Concen:   17.296 ug/l
RT:  12.388 min  Scan# 1
Delta R.T.   -0.006 min
Lab File:    VN088068.D
Acq: 17 Oct 2025  15:39

Tgt Ion:104 Resp:  17633
Ion  Ratio  Lower  Upper
104  100
 78   52.9   41.8   62.6
103   54.6   44.9   67.3
```






```
#70
Isopropylbenzene
Concen:   18.228 ug/l
RT:  12.671 min  Scan# 1822
Delta R.T.   -0.006 min
Lab File:    VN088068.D
Acq: 17 Oct 2025  15:39

Tgt Ion:105 Resp:  275336
Ion  Ratio  Lower  Upper
105  100
120   26.4   19.1   35.5
```



Sample Results: **VN088068.D**

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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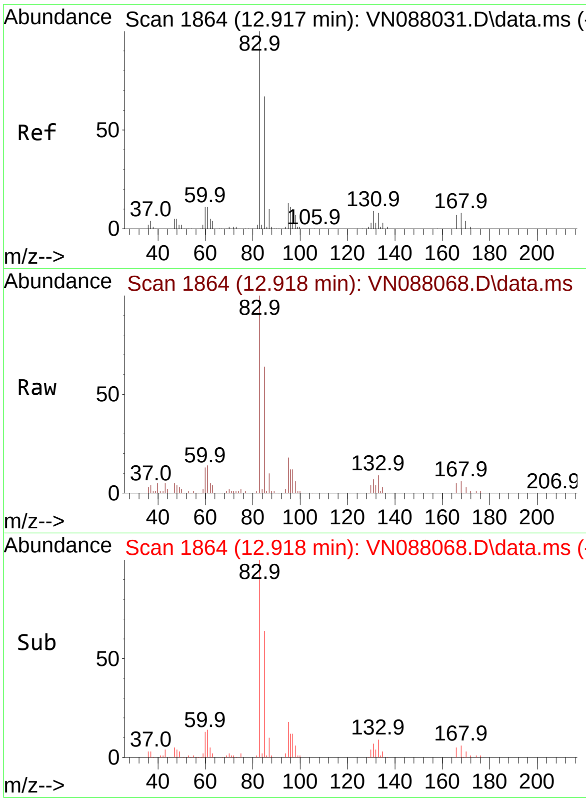
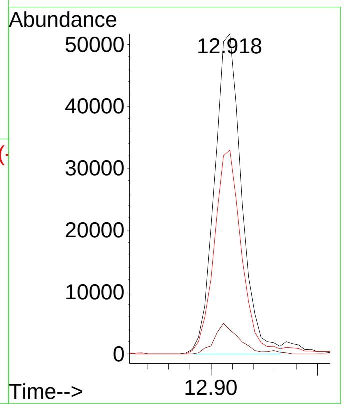
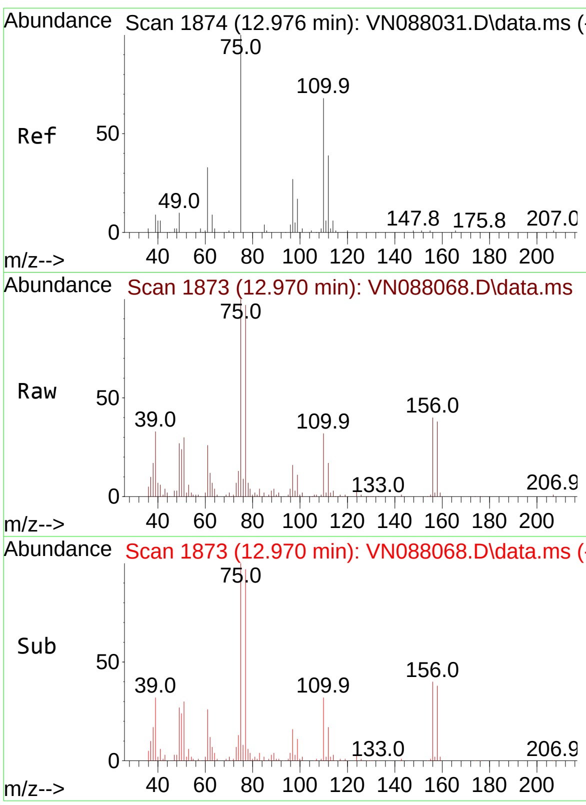


#71
1,1,2,2-Tetrachloroethane
Concen: 17.858 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 83 Resp: 9145

Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.8	14.3
85	63.9	32.4	97.2

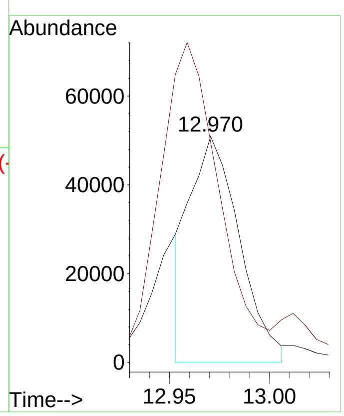




#72
1,2,3-Trichloropropane
Concen: 18.545 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 75 Resp: 88199

Ion	Ratio	Lower	Upper
75	100		
77	171.8	0.0	364.0



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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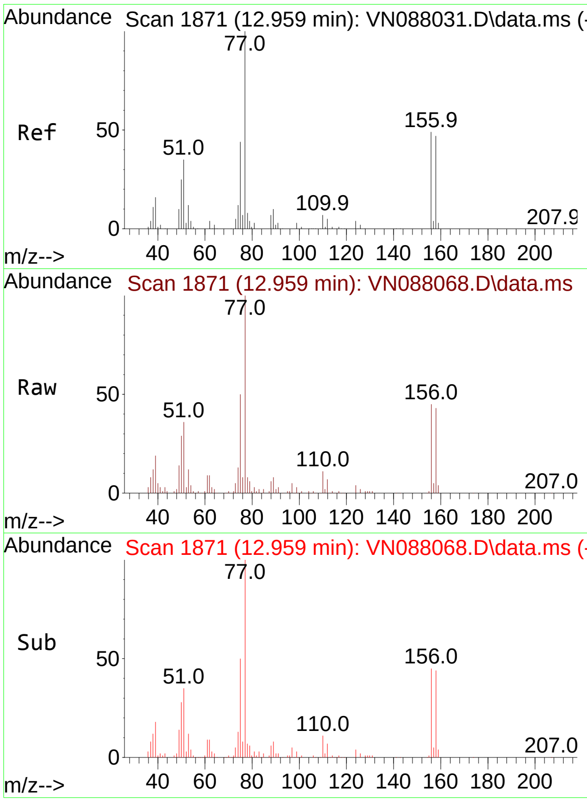
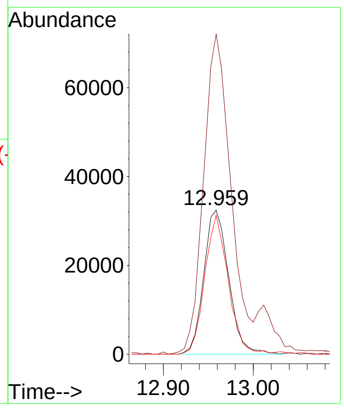
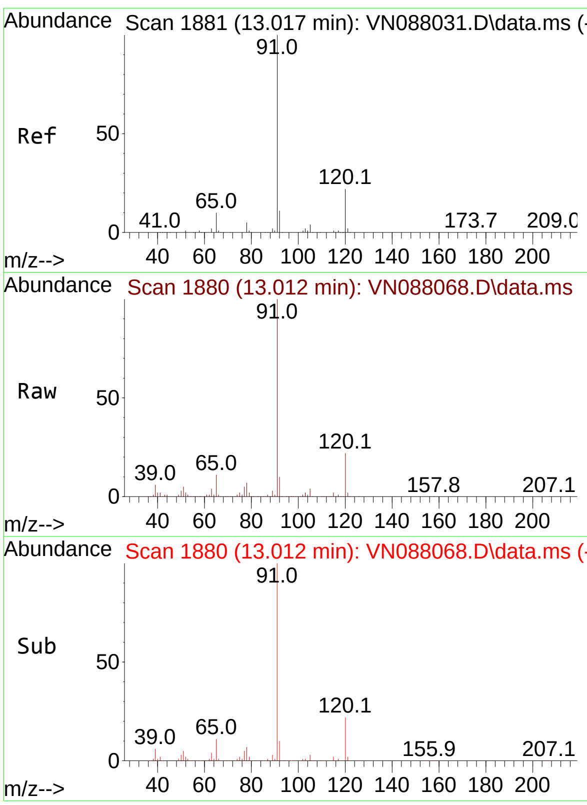


#73
Bromobenzene
Concen: 16.914 ug/l
RT: 12.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:156 Resp: 6244

Ion	Ratio	Lower	Upper
156	100		
77	242.6	0.0	439.8
158	90.2	0.0	190.0

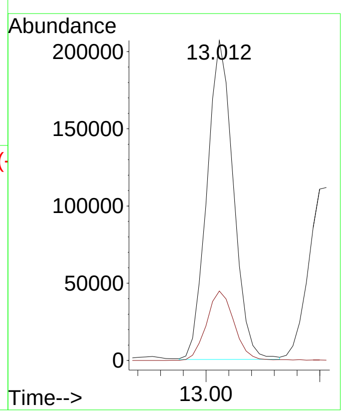




#74
n-propylbenzene
Concen: 18.251 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 91 Resp: 332803

Ion	Ratio	Lower	Upper
91	100		
120	22.6	0.0	46.2



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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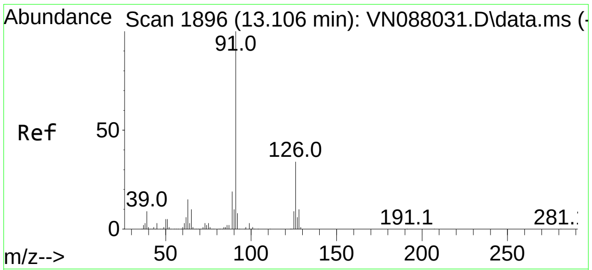
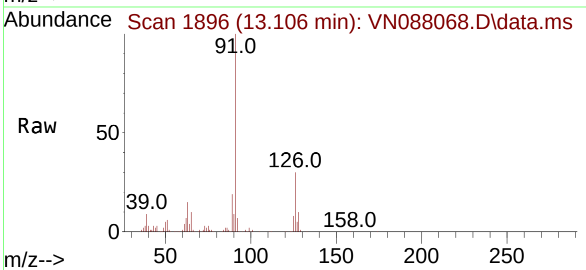
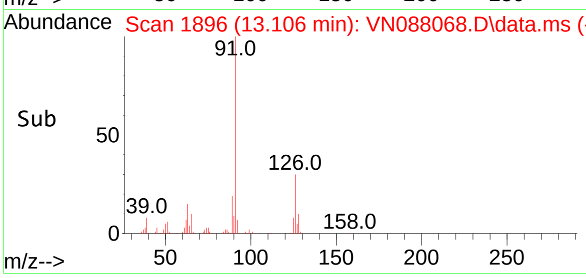


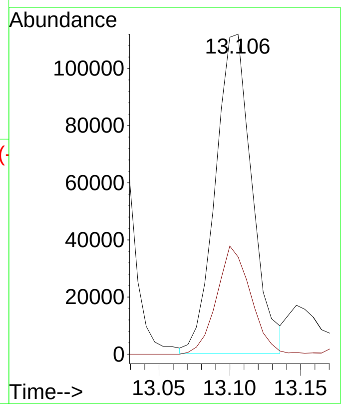


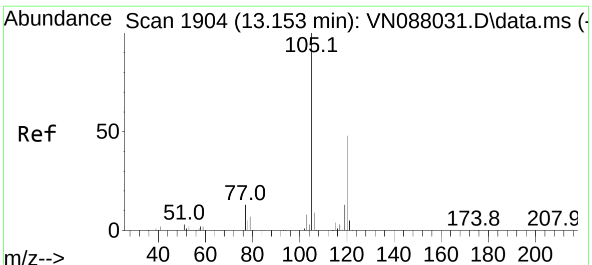


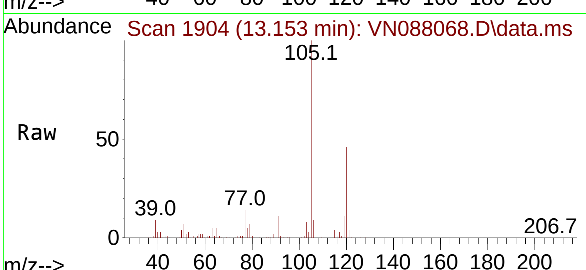
#75
2-Chlorotoluene
Concen: 17.987 ug/l
RT: 13.106 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

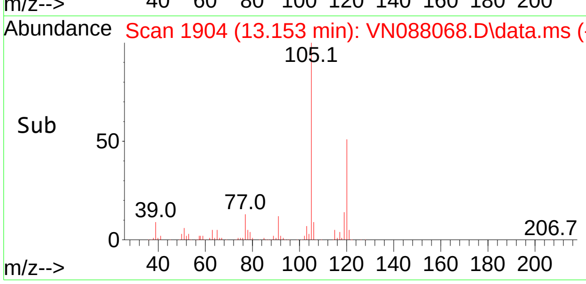
Tgt Ion: 91 Resp: 20054

Ion	Ratio	Lower	Upper
91	100		
126	31.7	0.0	66.6





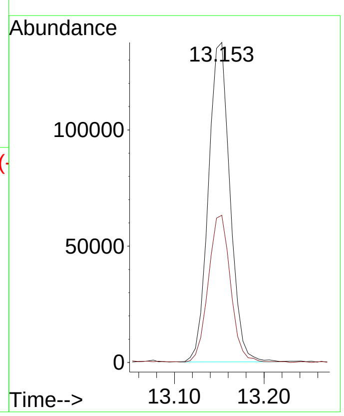


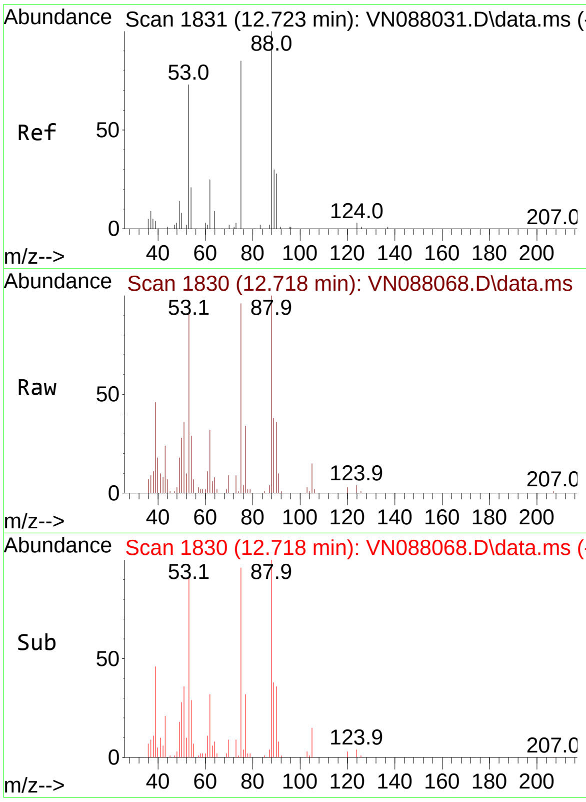


#76
1,3,5-Trimethylbenzene
Concen: 17.947 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:105 Resp: 230269

Ion	Ratio	Lower	Upper
105	100		
120	47.5	0.0	100.6





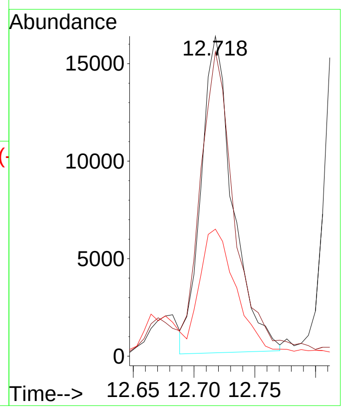
#77
t-1,4-Dichloro-2-butene
Concen: 15.594 ug/l
RT: 12.718 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

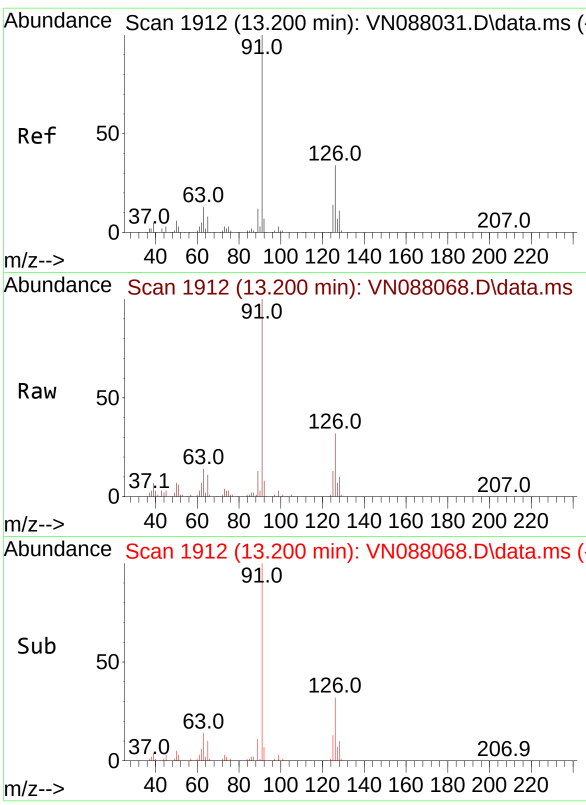
Tgt Ion: 75 Resp: 2955

Ion	Ratio	Lower	Upper
75	100		
53	93.5	41.8	125.3
89	38.9	19.9	59.6

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

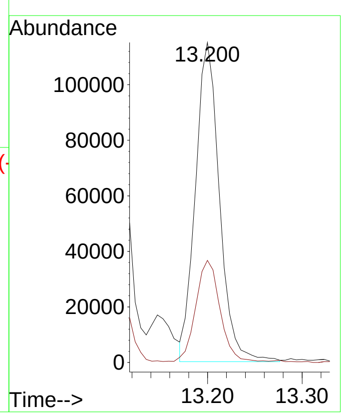


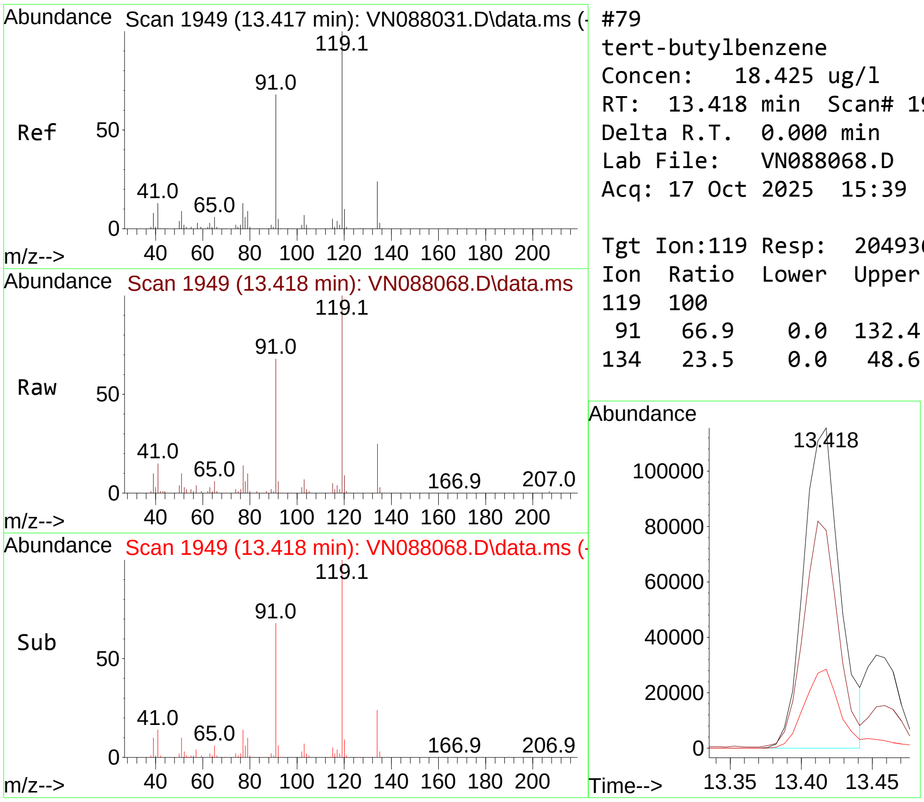


#78
4-Chlorotoluene
Concen: 17.980 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 91 Resp: 203667

Ion	Ratio	Lower	Upper
91	100		
126	32.6	0.0	68.8





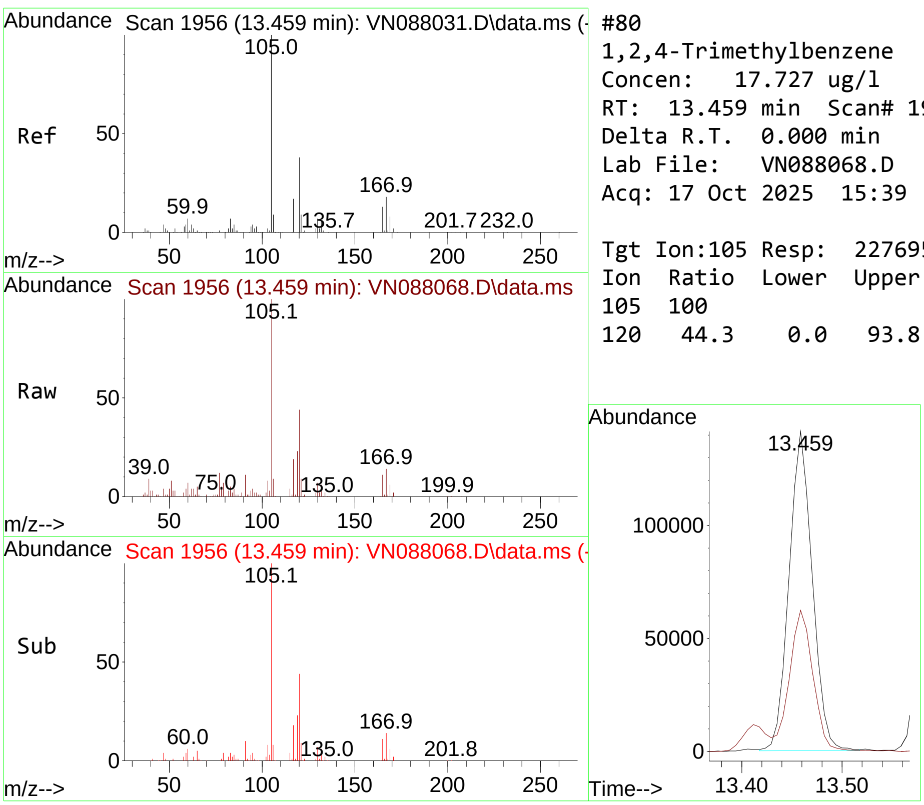
#79
tert-butylbenzene
Concen: 18.425 ug/l
RT: 13.418 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:119 Resp: 20493

Ion	Ratio	Lower	Upper
119	100		
91	66.9	0.0	132.4
134	23.5	0.0	48.6

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025



#80
1,2,4-Trimethylbenzene
Concen: 17.727 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:105 Resp: 227695

Ion	Ratio	Lower	Upper
105	100		
120	44.3	0.0	93.8

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
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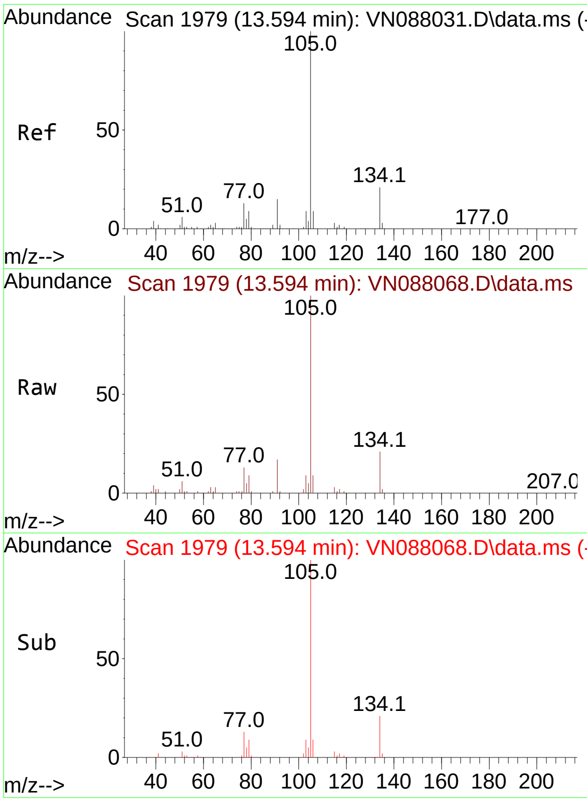
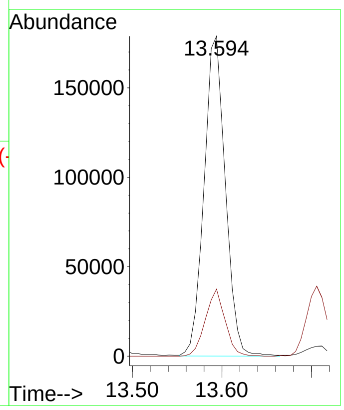
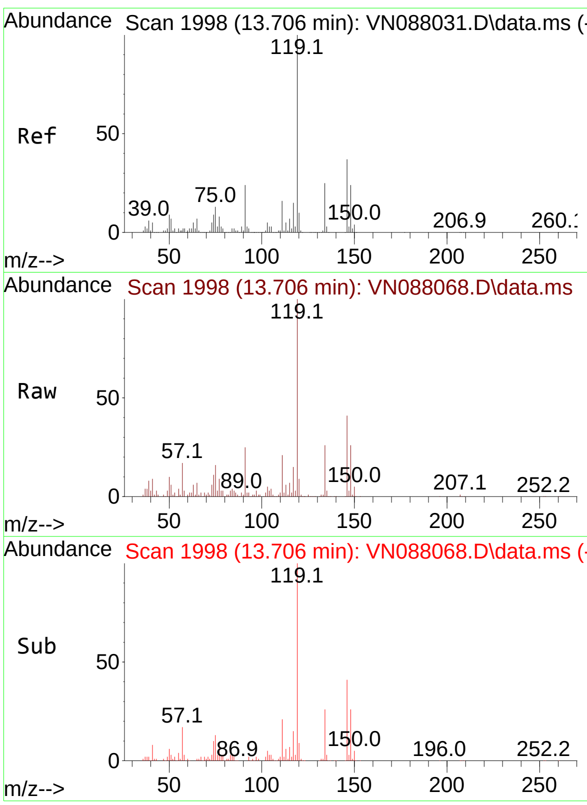


#81
sec-Butylbenzene
Concen: 18.894 ug/l
RT: 13.594 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:105 Resp: 29548

Ion	Ratio	Lower	Upper
105	100		
134	19.4	0.0	41.2

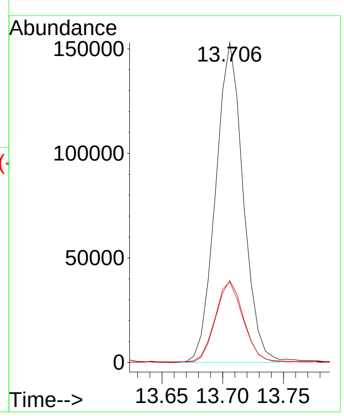




#82
p-Isopropyltoluene
Concen: 18.136 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:119 Resp: 242150

Ion	Ratio	Lower	Upper
119	100		
134	25.7	0.0	52.6
91	25.5	0.0	48.2



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

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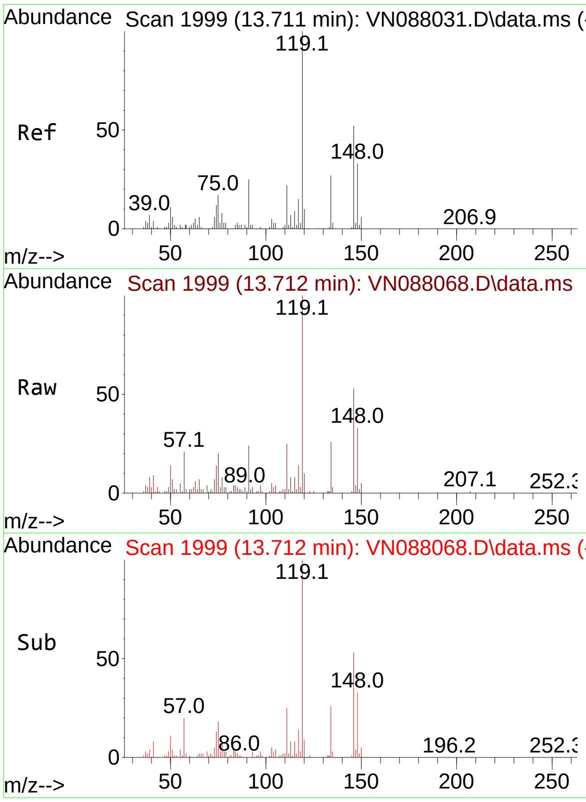
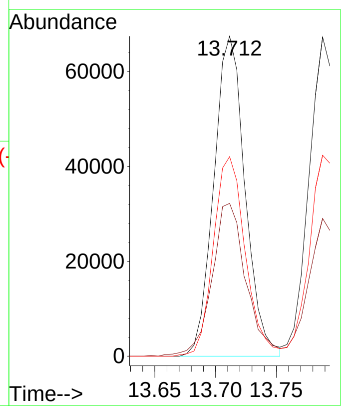
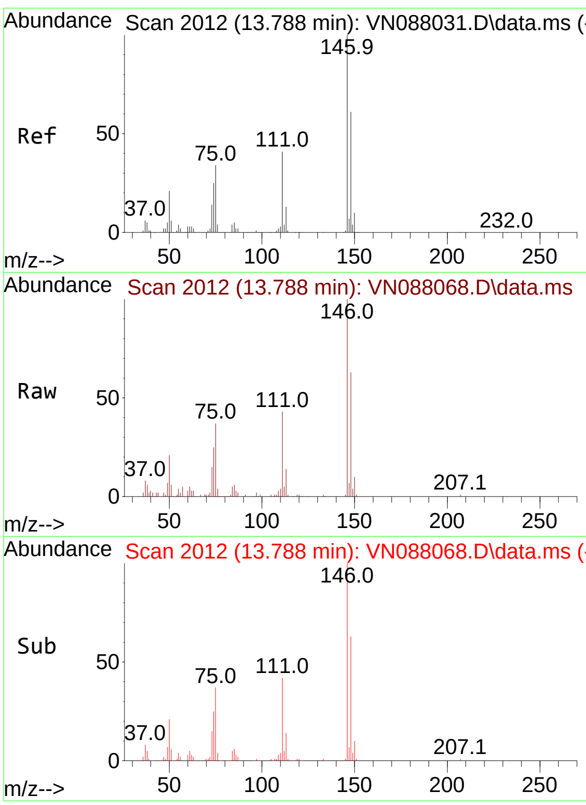


#83
1,3-Dichlorobenzene
Concen: 17.404 ug/l
RT: 13.712 min Scan# 19
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:146 Resp: 12089

Ion	Ratio	Lower	Upper
146	100		
111	51.9	21.1	63.1
148	63.6	31.5	94.5

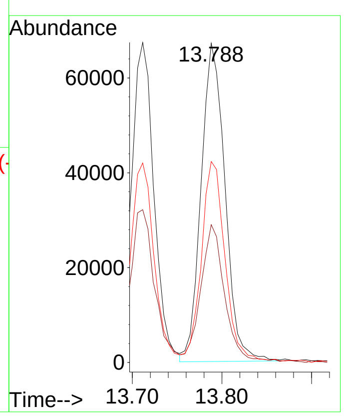


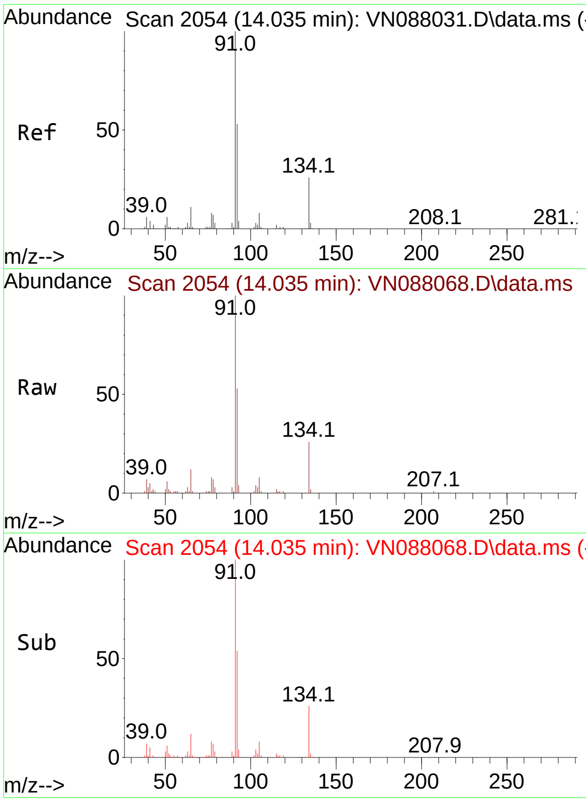


#84
1,4-Dichlorobenzene
Concen: 17.374 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:146 Resp: 124462

Ion	Ratio	Lower	Upper
146	100		
111	43.3	20.5	61.6
148	62.9	31.9	95.9





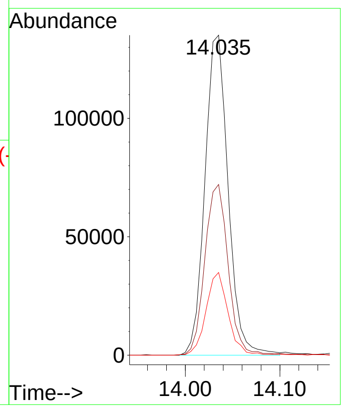
#85
n-Butylbenzene
Concen: 18.537 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

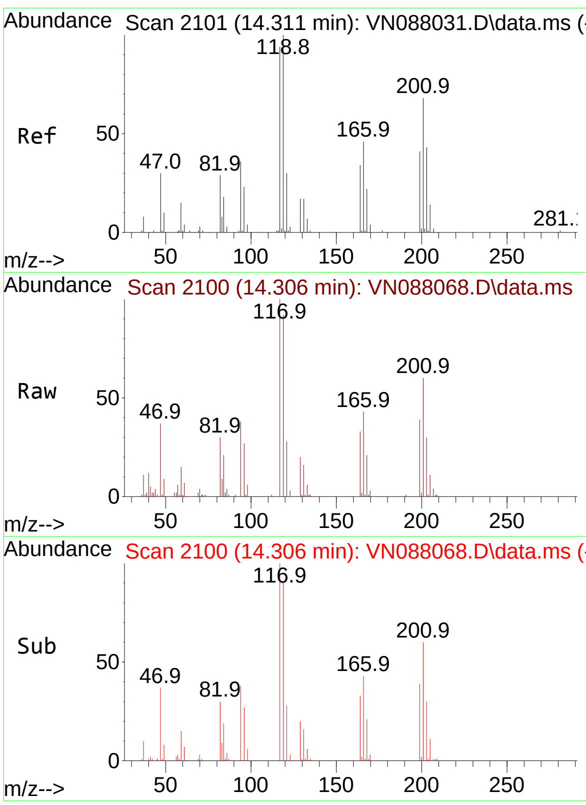
Tgt Ion: 91 Resp: 23026

Ion	Ratio	Lower	Upper
91	100		
92	53.7	0.0	107.6
134	24.3	0.0	52.6

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

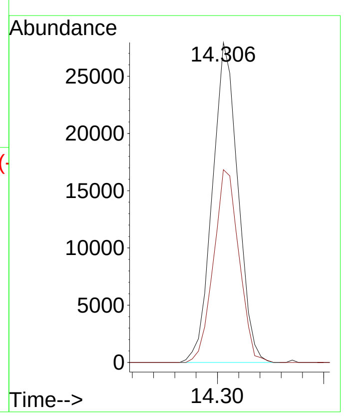




#86
Hexachloroethane
Concen: 17.389 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:117 Resp: 46511

Ion	Ratio	Lower	Upper
117	100		
201	60.2	34.8	104.3

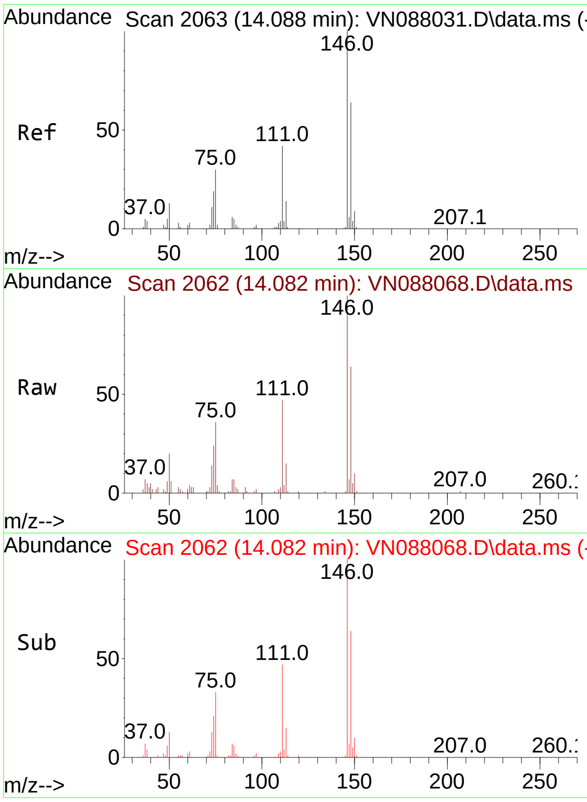


Sample Results: **VN088068.D**

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations
APPROVED

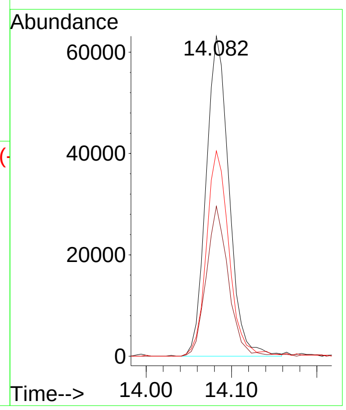
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

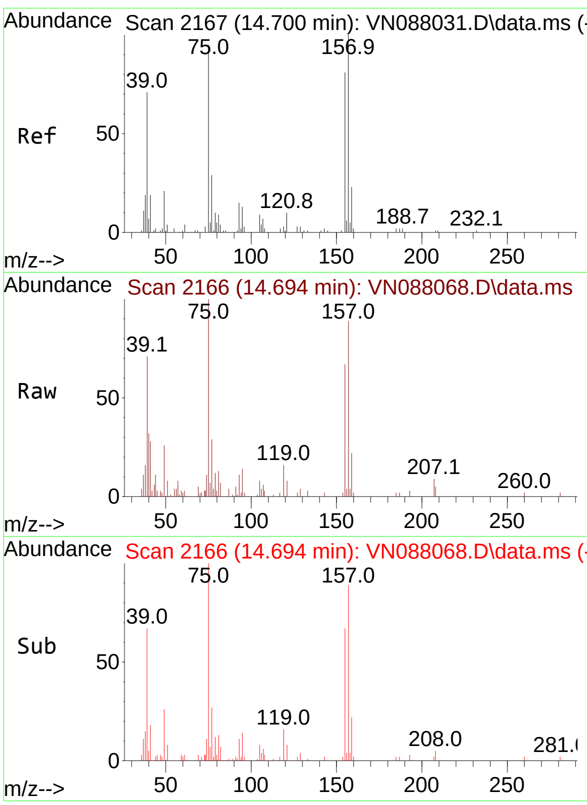


#87
1,2-Dichlorobenzene
Concen: 17.250 ug/l
RT: 14.082 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:146 Resp: 11785

Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.3	66.8
148	62.4	31.4	94.3

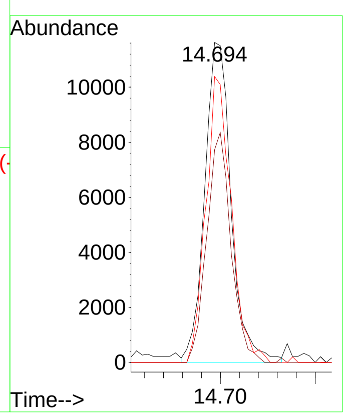




#88
1,2-Dibromo-3-Chloropropane
Concen: 19.181 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion: 75 Resp: 22559

Ion	Ratio	Lower	Upper
75	100		
155	65.9	63.5	95.3
157	84.6	81.7	122.5



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
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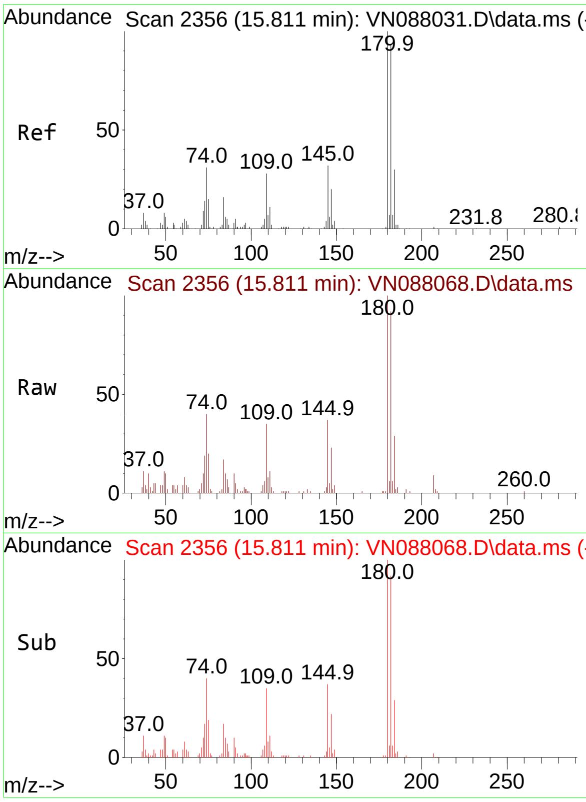
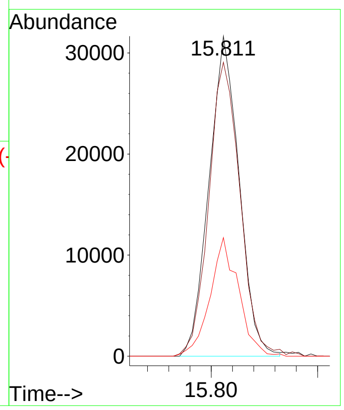
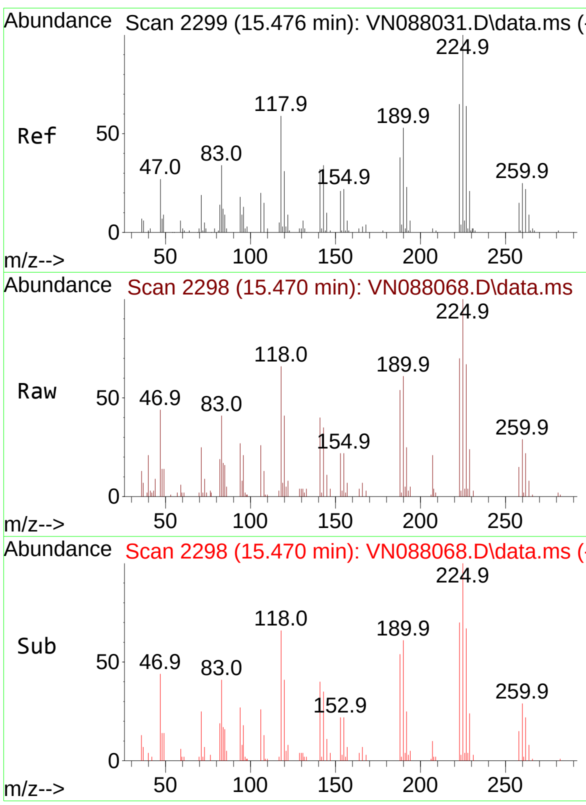


#89
1,2,4-Trichlorobenzene
Concen: 15.270 ug/l
RT: 15.811 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:180 Resp: 6214

Ion	Ratio	Lower	Upper
180	100		
182	95.2	74.6	112.0
145	35.0	27.2	40.8

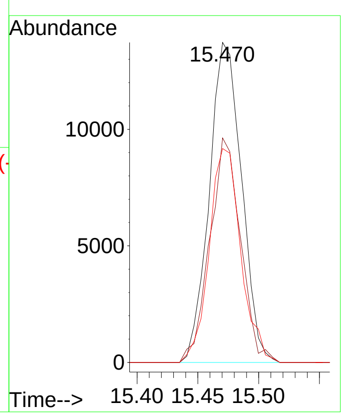


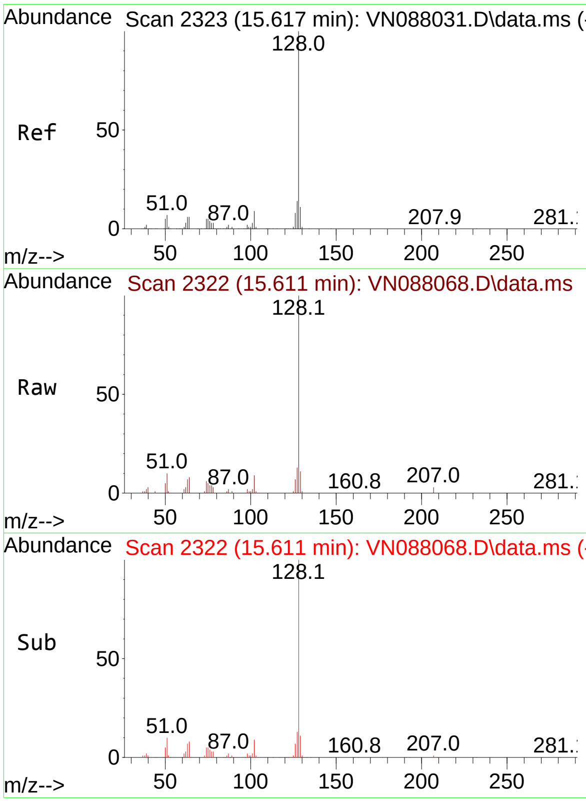


#90
Hexachlorobutadiene
Concen: 17.909 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:225 Resp: 25367

Ion	Ratio	Lower	Upper
225	100		
223	65.7	0.0	129.6
227	65.3	0.0	132.2





#91
Naphthalene
Concen: 16.252 ug/l
RT: 15.611 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

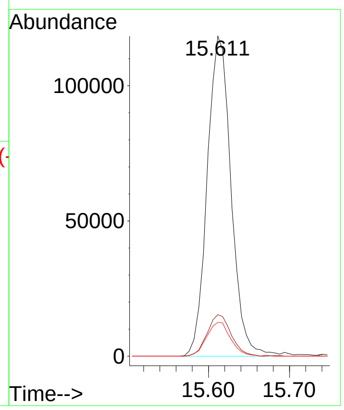
Tgt Ion:128 Resp: 24214

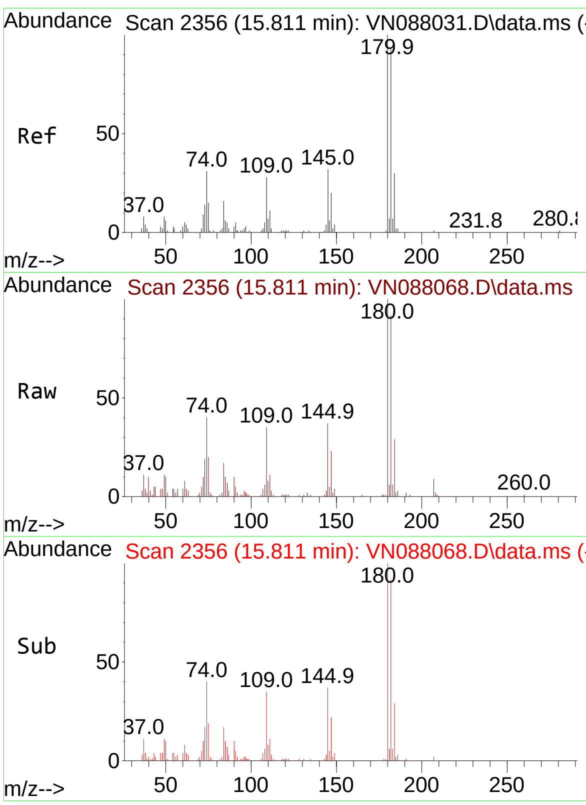
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.7	8.6	13.0

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMS

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

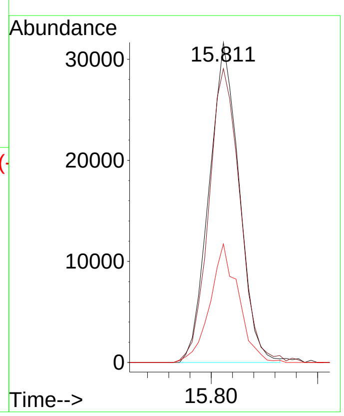




#92
1,2,3-Trichlorobenzene
Concen: 15.270 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088068.D
Acq: 17 Oct 2025 15:39

Tgt Ion:180 Resp: 62146

Ion	Ratio	Lower	Upper
180	100		
182	95.2	0.0	186.6
145	35.0	0.0	68.0



Raw Data: **VN088069.D**

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	10/17/25
Project:	PVSC Monthly 2025			Date Received:	10/17/25
Client Sample ID:	EFF-WWMSD			SDG No.:	Q3385
Lab Sample ID:	Q3385-03MSD			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
74-87-3	Chloromethane	97.6		5	3.20	25.0	ug/L	10/17/25 16:00	VN101725
75-01-4	Vinyl Chloride	110		5	4.20	25.0	ug/L	10/17/25 16:00	VN101725
74-83-9	Bromomethane	110		5	4.00	25.0	ug/L	10/17/25 16:00	VN101725
75-00-3	Chloroethane	110		5	11.6	25.0	ug/L	10/17/25 16:00	VN101725
75-69-4	Trichlorofluoromethane	120		5	4.00	25.0	ug/L	10/17/25 16:00	VN101725
75-35-4	1,1-Dichloroethene	110		5	3.80	25.0	ug/L	10/17/25 16:00	VN101725
107-02-8	Acrolein	480		5	33.1	130	ug/L	10/17/25 16:00	VN101725
107-13-1	Acrylonitrile	490		5	14.0	130	ug/L	10/17/25 16:00	VN101725
75-09-2	Methylene Chloride	99.4		5	4.30	25.0	ug/L	10/17/25 16:00	VN101725
156-60-5	trans-1,2-Dichloroethene	98.9		5	4.10	25.0	ug/L	10/17/25 16:00	VN101725
75-34-3	1,1-Dichloroethane	100		5	3.40	25.0	ug/L	10/17/25 16:00	VN101725
56-23-5	Carbon Tetrachloride	110		5	3.70	25.0	ug/L	10/17/25 16:00	VN101725
67-66-3	Chloroform	190		5	2.80	25.0	ug/L	10/17/25 16:00	VN101725
71-55-6	1,1,1-Trichloroethane	110		5	3.20	25.0	ug/L	10/17/25 16:00	VN101725
71-43-2	Benzene	95.6		5	2.30	25.0	ug/L	10/17/25 16:00	VN101725
107-06-2	1,2-Dichloroethane	99.4		5	2.50	25.0	ug/L	10/17/25 16:00	VN101725
79-01-6	Trichloroethene	93.6		5	2.50	25.0	ug/L	10/17/25 16:00	VN101725
78-87-5	1,2-Dichloropropane	96.5		5	2.30	25.0	ug/L	10/17/25 16:00	VN101725
75-27-4	Bromodichloromethane	100		5	3.20	25.0	ug/L	10/17/25 16:00	VN101725
108-88-3	Toluene	97.2		5	2.30	25.0	ug/L	10/17/25 16:00	VN101725
10061-02-6	t-1,3-Dichloropropene	92.2		5	3.60	25.0	ug/L	10/17/25 16:00	VN101725
10061-01-5	cis-1,3-Dichloropropene	92.3		5	3.40	25.0	ug/L	10/17/25 16:00	VN101725
79-00-5	1,1,2-Trichloroethane	93.6		5	2.30	25.0	ug/L	10/17/25 16:00	VN101725
110-75-8	2-Chloroethyl vinyl ether	220		5	23.2	130	ug/L	10/17/25 16:00	VN101725
124-48-1	Dibromochloromethane	91.5		5	3.30	25.0	ug/L	10/17/25 16:00	VN101725
127-18-4	Tetrachloroethene	93.9		5	4.20	25.0	ug/L	10/17/25 16:00	VN101725
108-90-7	Chlorobenzene	93.7		5	2.40	25.0	ug/L	10/17/25 16:00	VN101725
100-41-4	Ethyl Benzene	99.9		5	2.80	25.0	ug/L	10/17/25 16:00	VN101725
179601-23-1	m/p-Xylenes	200		5	6.50	50.0	ug/L	10/17/25 16:00	VN101725
95-47-6	o-Xylene	96.4		5	3.40	25.0	ug/L	10/17/25 16:00	VN101725
75-25-2	Bromoform	83.9		5	4.70	25.0	ug/L	10/17/25 16:00	VN101725
79-34-5	1,1,2,2-Tetrachloroethane	98.0		5	2.20	25.0	ug/L	10/17/25 16:00	VN101725
541-73-1	1,3-Dichlorobenzene	93.7		5	3.40	25.0	ug/L	10/17/25 16:00	VN101725
106-46-7	1,4-Dichlorobenzene	95.7		5	4.10	25.0	ug/L	10/17/25 16:00	VN101725
95-50-1	1,2-Dichlorobenzene	91.1		5	3.40	25.0	ug/L	10/17/25 16:00	VN101725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	32.9			91 - 110	110%	SPK: 30		
2037-26-5	Toluene-d8	31.4			91 - 112	105%	SPK: 30		
460-00-4	4-Bromofluorobenzene	29.8			63 - 112	99%	SPK: 30		
INTERNAL STANDARDS		**Area Count**							
74-97-5	Bromochloromethane	62400							
540-36-3	1,4-Difluorobenzene	360000							
3114-55-4	Chlorobenzene-d5	317000							

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

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	10/17/25
Project:	PVSC Monthly 2025			Date Received:	10/17/25
Client Sample ID:	EFF-WWMSD			SDG No.:	Q3385
Lab Sample ID:	Q3385-03MSD			Matrix:	Water
Analytical Method:	E624.1	Level :	LOW	% Solid:	0
Sample Wt/Vol:	5 mL	Final Vol:	5000 uL	Test:	VOC-PP

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID

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

Quantitation Report (QT Reviewed)

Sample Results: **VN088069.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088069.D
Acq On : 17 Oct 2025 16:00
Operator : JC\MD
Sample : Q3385-03MSD 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

Quant Time: Oct 18 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	62360	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	360102	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	317295	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	159710	32.890	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	109.633%		
60) 4-Bromofluorobenzene	12.829	95	155658	29.758	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.200%		
63) Toluene-d8	10.541	98	443618	31.380	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	104.600%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	84726	23.721	ug/l	91
3) Chloromethane	2.383	50	79025	19.515	ug/l	98
4) Vinyl Chloride	2.536	62	89478	21.191	ug/l	99
5) Bromomethane	2.983	94	49557	21.826	ug/l	97
6) Chloroethane	3.142	64	59812	21.474	ug/l	95
7) Trichlorofluoromethane	3.518	101	141412	24.629	ug/l	97
8) Diethyl Ether	3.965	74	52941	20.406	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	77579	25.240	ug/l	95
10) 1,1-Dichloroethene	4.342	96	74546	22.736	ug/l	96
11) Methyl Iodide	4.589	142	53329	17.648	ug/l	97
12) Methyl Acetate	5.012	43	117205	21.988	ug/l #	85
13) Acrolein	4.177	56	79365	96.215	ug/l #	12
14) Acrylonitrile	5.706	53	249820	97.118	ug/l	99
15) Acetone	4.418	58	658291	873.846	ug/l	94
16) Carbon Disulfide	4.706	76	208589	20.294	ug/l	97
17) Allyl chloride	5.012	41	128015	20.691	ug/l	100
18) Methylene Chloride	5.265	84	82831	19.876	ug/l	96
19) trans-1,2-Dichloroethene	5.777	96	74990	19.782	ug/l #	85
20) Diisopropyl ether	6.659	45	273688	19.430	ug/l	97
21) 1,1-Dichloroethane	6.553	63	151011	20.594	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	90580	19.088	ug/l	95
23) tert-Butyl Alcohol	5.518	59	111714	108.285	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	273820	19.348	ug/l	99
25) Chloroform	7.947	83	280935	37.127	ug/l	96
26) Cyclohexane	8.241	56	131824	21.698	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	108524	21.025	ug/l	95
30) 2-Butanone	7.471	43	362613	95.251	ug/l	97
31) 2,2-Dichloropropane	7.477	77	135045	20.305	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	135598	21.024	ug/l	97
33) Carbon Tetrachloride	8.341	117	113985	21.099	ug/l	95
34) Benzene	8.588	78	327299	19.117	ug/l	97
35) Methacrylonitrile	7.765	41	74584	18.631	ug/l	94
36) 1,2-Dichloroethane	8.653	62	118196	19.886	ug/l	99
37) Trichloroethene	9.335	130	75946	18.723	ug/l	91
38) Methylcyclohexane	9.582	83	132603	20.802	ug/l	96
39) 1,2-Dichloropropane	9.600	63	82883	19.307	ug/l	100
40) Dibromomethane	9.688	93	59013	18.885	ug/l	93
41) Bromodichloromethane	9.865	83	130021	20.372	ug/l	98
42) Vinyl Acetate	6.588	43	1284894	99.074	ug/l	96

Sample Results: **VN088069.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088069.D
Acq On : 17 Oct 2025 16:00
Operator : JC\MD
Sample : Q3385-03MSD 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

Quant Time: Oct 18 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	130514	17.835	ug/l #	81
44) Isopropyl Acetate	8.671	43	219835	18.392	ug/l	96
45) 1,4-Dioxane	9.682	88	33536	421.867	ug/l	96
46) Methyl methacrylate	9.659	41	100825	19.155	ug/l	94
47) n-amyl Acetate	12.553	43	142487m	25.151	ug/l	
48) t-1,3-Dichloropropene	10.812	75	130834	18.436	ug/l	100
49) cis-1,3-Dichloropropene	10.288	75	136675	18.463	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	77489	18.725	ug/l	98
51) Ethyl methacrylate	10.853	69	128302	18.320	ug/l	99
52) 1,3-Dichloropropane	11.141	76	135965	18.832	ug/l	98
53) Dibromochloromethane	11.335	129	90490	18.291	ug/l	100
54) 1,2-Dibromoethane	11.447	107	81678	18.462	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	168306	44.522	ug/l	98
56) Bromoform	12.559	173	56150	16.788	ug/l #	99
58) 4-Methyl-2-Pentanone	10.423	43	693012	97.647	ug/l	98
59) 2-Hexanone	11.176	43	457862	97.713	ug/l	98
61) Tetrachloroethene	11.082	164	60333	18.777	ug/l	89
62) Toluene	10.612	91	349848	19.438	ug/l	98
64) Chlorobenzene	11.870	112	215429	18.740	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.935	131	75119	18.961	ug/l	97
66) Ethyl Benzene	11.941	91	391022	19.980	ug/l	98
67) m/p-Xylenes	12.047	106	297675	39.456	ug/l	97
68) o-Xylene	12.376	106	144826	19.283	ug/l	97
69) Styrene	12.388	104	238678	19.211	ug/l	98
70) Isopropylbenzene	12.670	105	370230	20.113	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.917	83	122344	19.604	ug/l	97
72) 1,2,3-Trichloropropane	12.970	75	111947m	19.315	ug/l	
73) Bromobenzene	12.959	156	79098	17.581	ug/l	87
74) n-propylbenzene	13.012	91	463682	20.866	ug/l	97
75) 2-Chlorotoluene	13.100	91	271632	19.992	ug/l	96
76) 1,3,5-Trimethylbenzene	13.147	105	308237	19.713	ug/l	96
77) t-1,4-Dichloro-2-butene	12.717	75	39552	17.124	ug/l	77
78) 4-Chlorotoluene	13.200	91	270907	19.625	ug/l	99
79) tert-butylbenzene	13.417	119	276330	20.386	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	315198	20.136	ug/l	96
81) sec-Butylbenzene	13.594	105	396601	20.810	ug/l	97
82) p-Isopropyltoluene	13.706	119	333050	20.469	ug/l	97
83) 1,3-Dichlorobenzene	13.711	146	158593	18.735	ug/l	95
84) 1,4-Dichlorobenzene	13.788	146	167018	19.131	ug/l	98
85) n-Butylbenzene	14.029	91	313863	20.734	ug/l	98
86) Hexachloroethane	14.306	117	62160	19.070	ug/l	89
87) 1,2-Dichlorobenzene	14.082	146	151773	18.228	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	29396	20.509	ug/l	89
89) 1,2,4-Trichlorobenzene	15.811	180	85763	17.293	ug/l	98
90) Hexachlorobutadiene	15.476	225	34075	19.741	ug/l	97
91) Naphthalene	15.611	128	326560	17.985	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	85763	17.293	ug/l	98

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

Quantitation Report (QT Reviewed)

Sample Results: VN088069.D

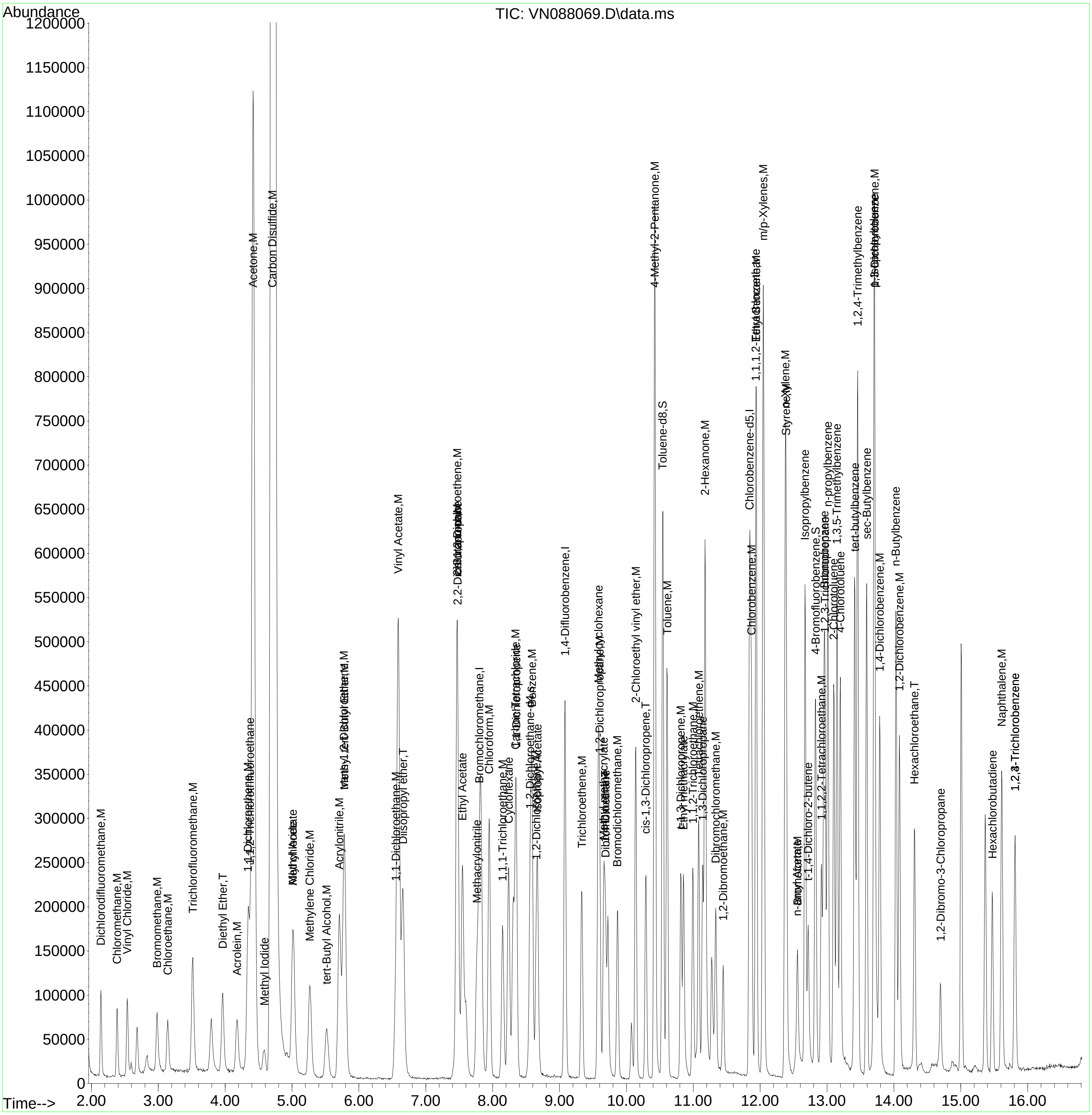
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
Data File : VN088069.D
Acq On : 17 Oct 2025 16:00
Operator : JC\MD
Sample : Q3385-03MSD 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

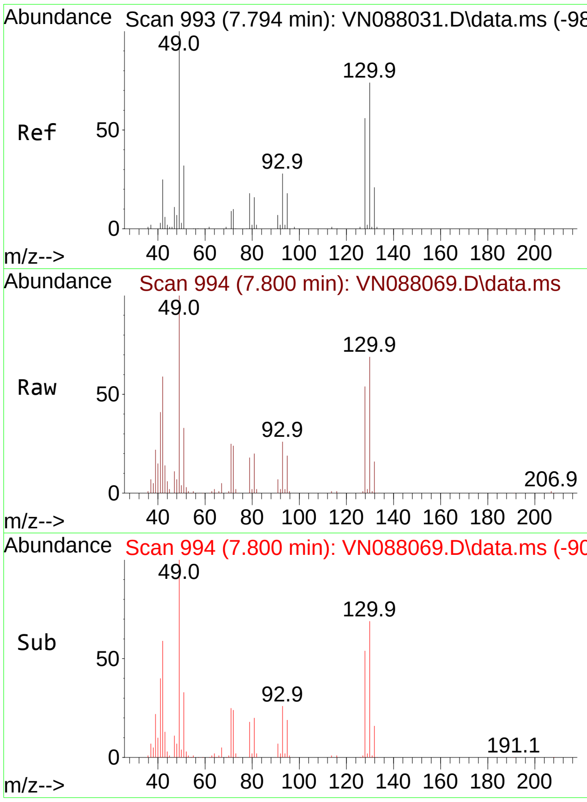
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Quant Time: Oct 18 01:31:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

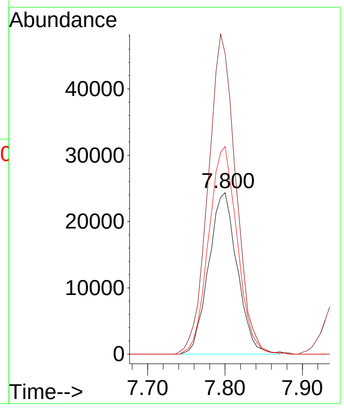




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

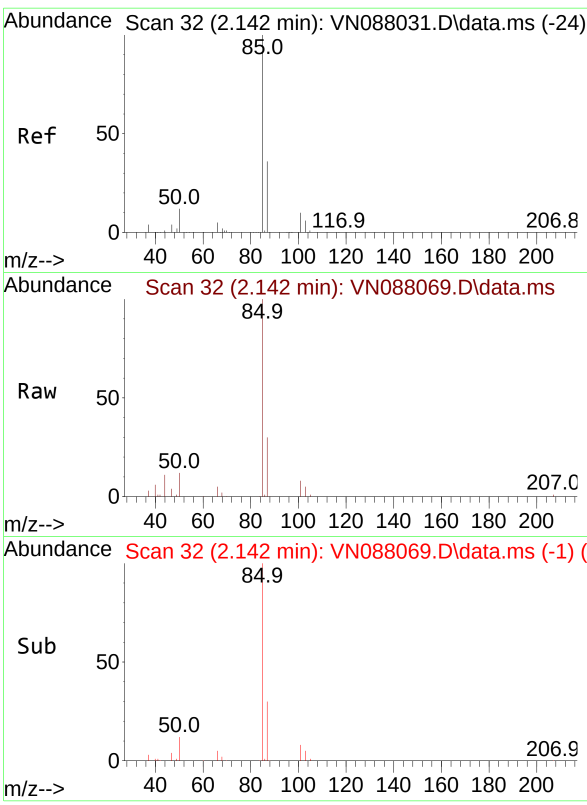
Tgt Ion:128 Resp: 62360

Ion	Ratio	Lower	Upper
128	100		
49	192.5	0.0	439.8
130	129.2	0.0	325.8



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

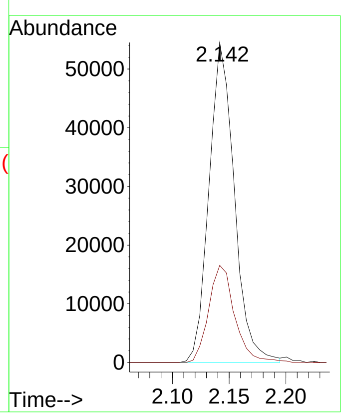
Manual Integrations APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

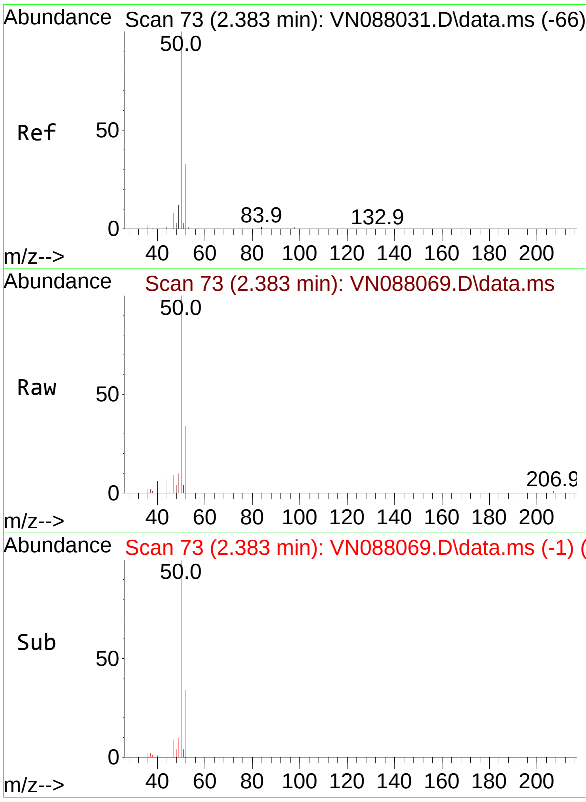


#2
Dichlorodifluoromethane
Concen: 23.721 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 85 Resp: 84726

Ion	Ratio	Lower	Upper
85	100		
87	30.3	17.9	53.8





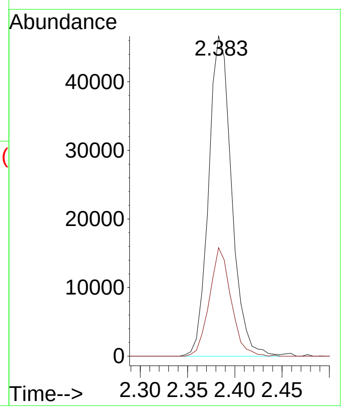
#3
Chloromethane
Concen: 19.515 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

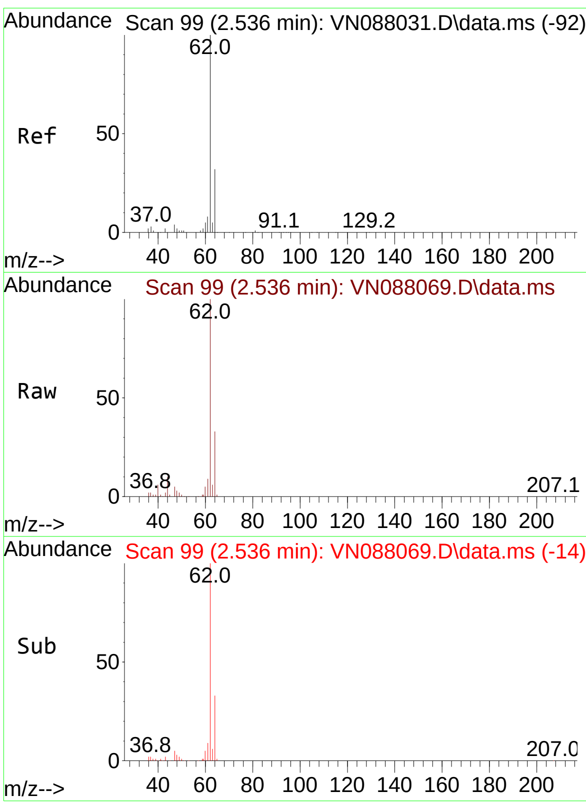
Tgt Ion: 50 Resp: 7902

Ion	Ratio	Lower	Upper
50	100		
52	33.9	26.3	39.5

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

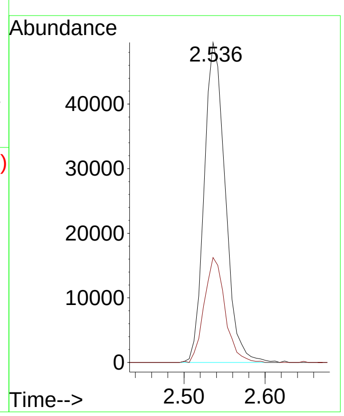


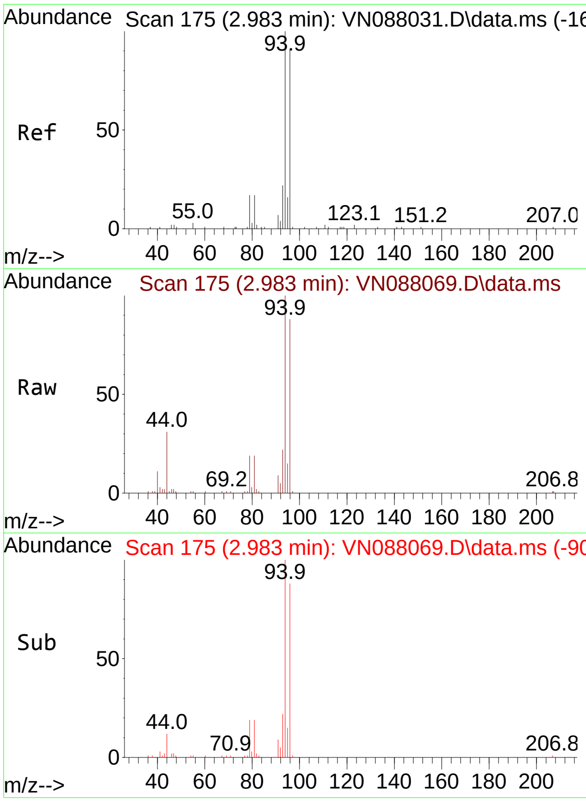


#4
Vinyl Chloride
Concen: 21.191 ug/l
RT: 2.536 min Scan# 99
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 62 Resp: 89478

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.7	38.5





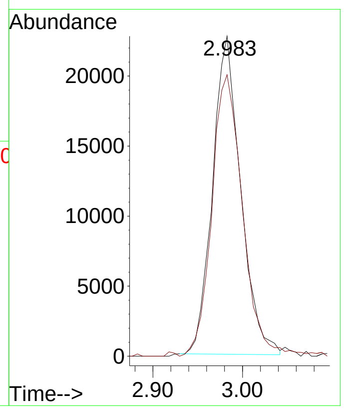
#5
Bromomethane
Concen: 21.826 ug/l
RT: 2.983 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

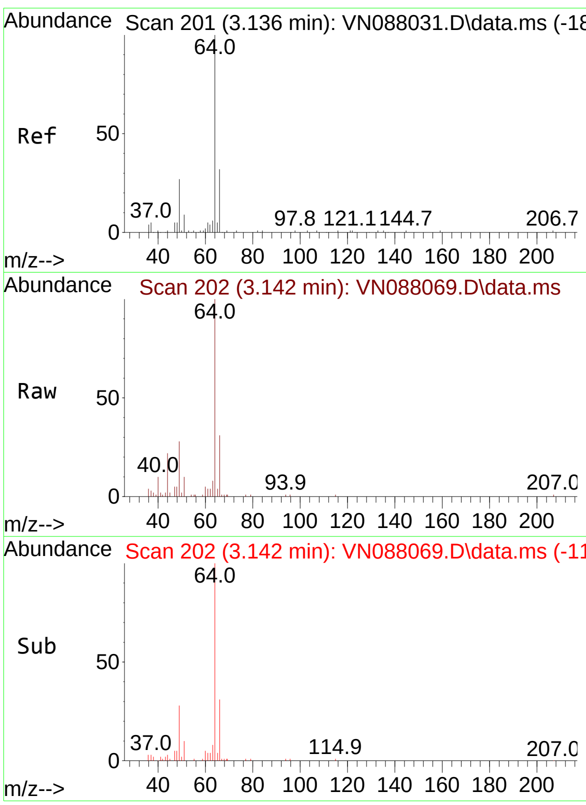
Tgt Ion: 94 Resp: 4955

Ion	Ratio	Lower	Upper
94	100		
96	88.6	73.0	109.4

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

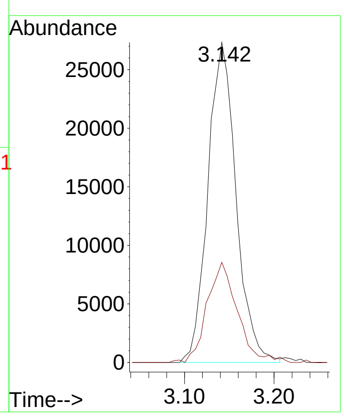




#6
Chloroethane
Concen: 21.474 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 64 Resp: 59812

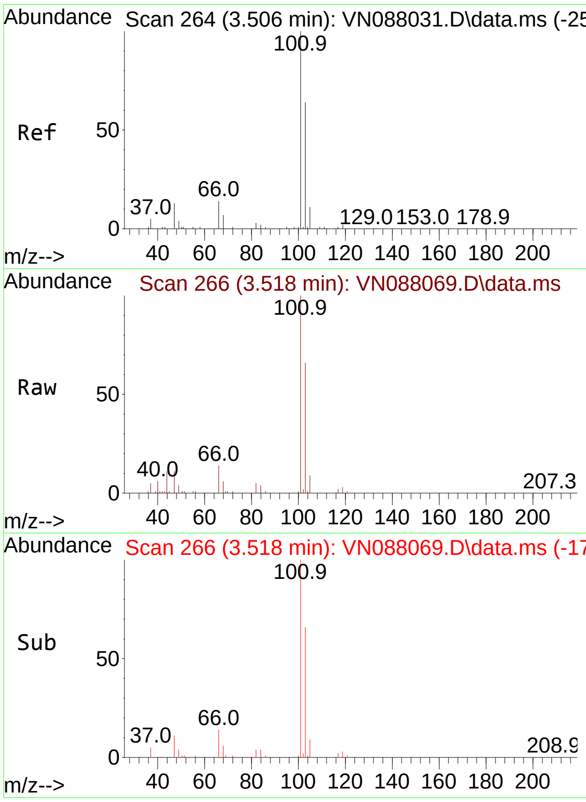
Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.8	40.2



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations APPROVED

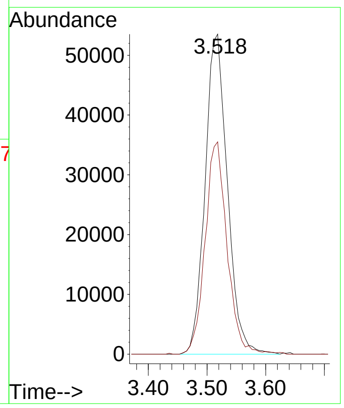
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

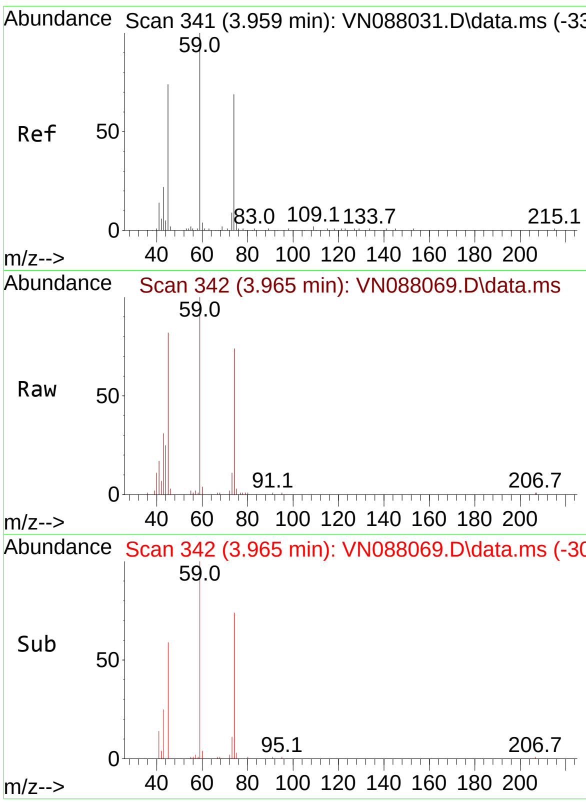


#7
Trichlorofluoromethane
Concen: 24.629 ug/l
RT: 3.518 min Scan# 2(
Delta R.T. 0.012 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:101 Resp: 141411

Ion	Ratio	Lower	Upper
101	100		
103	66.4	51.0	76.4

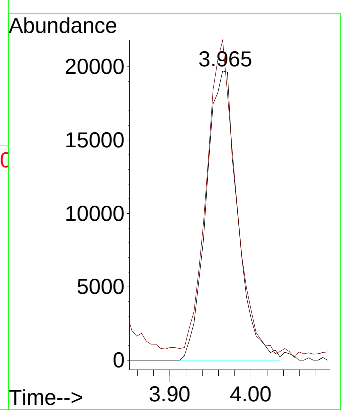


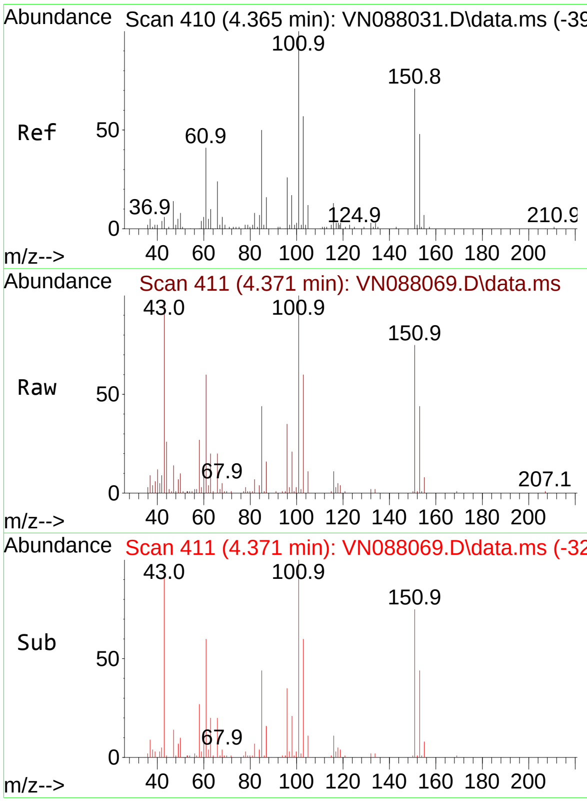


#8
Diethyl Ether
Concen: 20.406 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 74 Resp: 52941

Ion	Ratio	Lower	Upper
74	100		
45	101.5	20.4	183.8

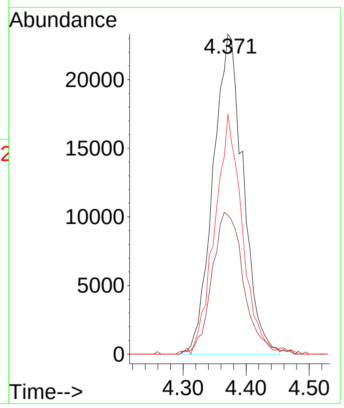




#9
1,1,2-Trichlorotrifluoroethane
Concen: 25.240 ug/l
RT: 4.371 min   Scan# 41
Delta R.T.   0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025   16:00

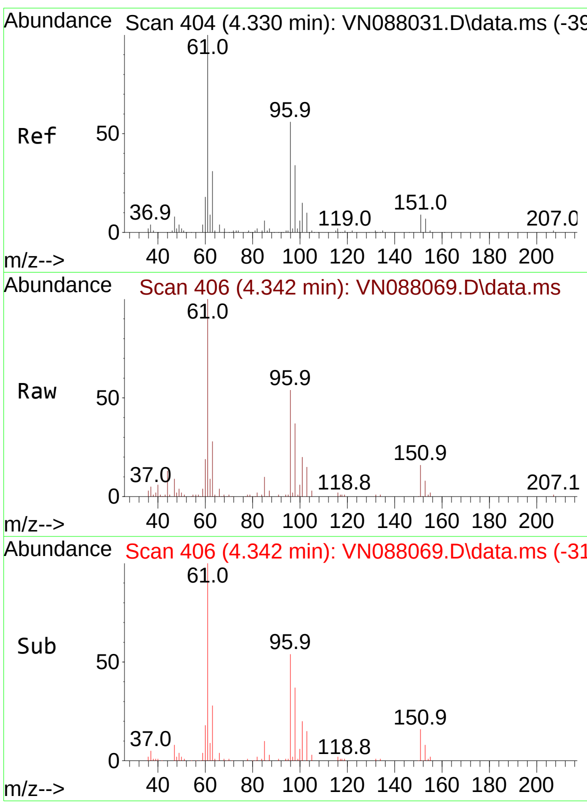
Tgt Ion:101 Resp: 7757

Ion	Ratio	Lower	Upper
101	100		
85	45.9	0.0	103.2
151	68.5	0.0	141.4



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

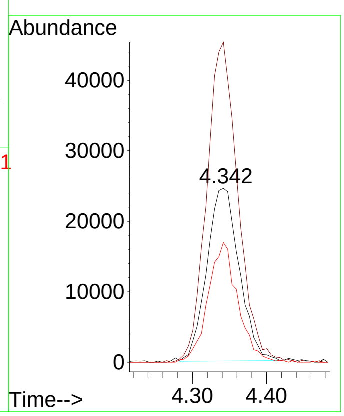
Manual Integrations
APPROVED
Reviewed By :John Carlone   10/20/2025
Supervised By :Mahesh Dadoda   10/20/2025



#10
1,1-Dichloroethene
Concen: 22.736 ug/l
RT: 4.342 min   Scan# 406
Delta R.T.   0.012 min
Lab File: VN088069.D
Acq: 17 Oct 2025   16:00

Tgt Ion: 96 Resp: 74546

Ion	Ratio	Lower	Upper
96	100		
61	183.9	144.1	216.1
98	68.4	49.0	73.6



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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Reviewed By :John Carlone 10/20/2025
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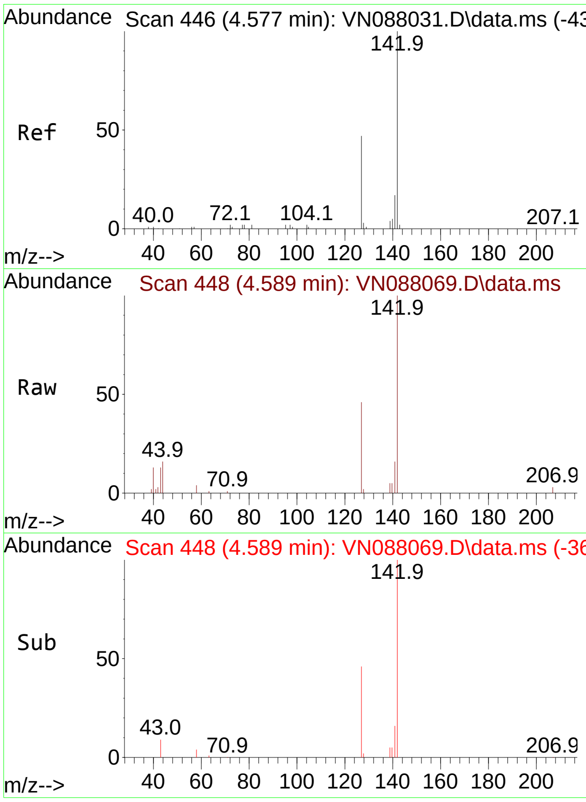
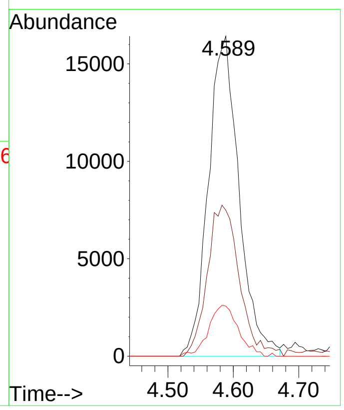
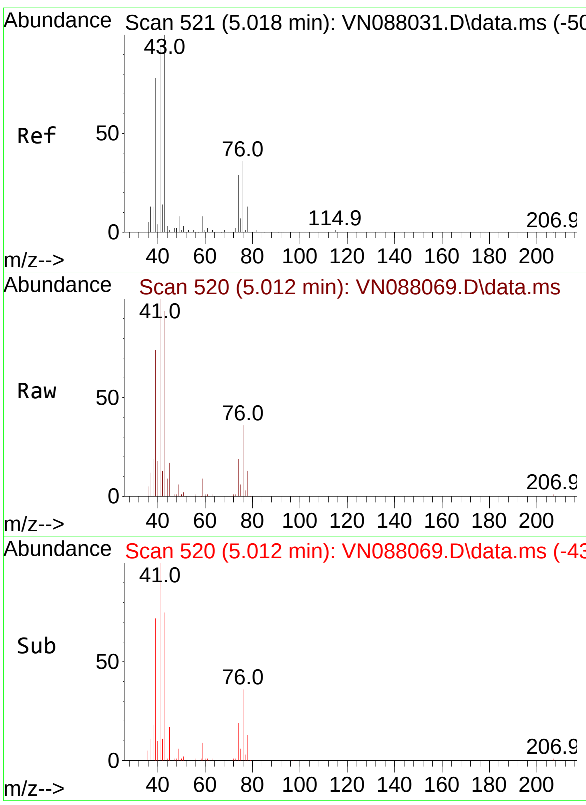
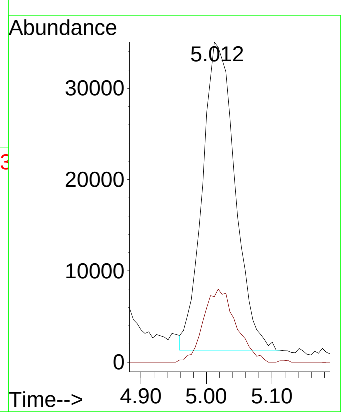


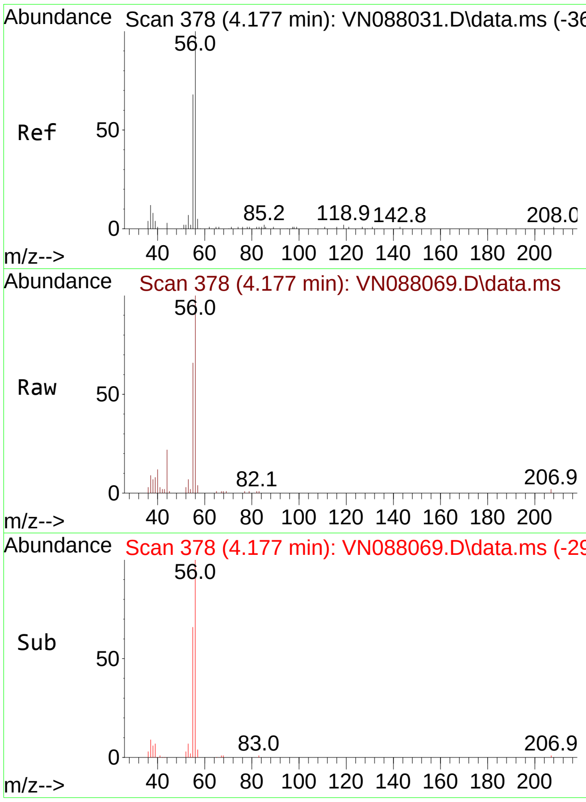

```
#11
Methyl Iodide
Concen:   17.648 ug/l
RT:   4.589 min   Scan# 44
Delta R.T.   0.012 min
Lab File:    VN088069.D
Acq: 17 Oct 2025   16:00

Tgt Ion:142 Resp:   53329
Ion   Ratio   Lower   Upper
142   100
127    45.1    23.4    70.3
141    15.9     8.8    26.2
```






```
#12
Methyl Acetate
Concen:   21.988 ug/l
RT:   5.012 min   Scan# 520
Delta R.T.   -0.006 min
Lab File:    VN088069.D
Acq: 17 Oct 2025   16:00

Tgt Ion: 43 Resp:   117205
Ion   Ratio   Lower   Upper
 43   100
 74    21.2    23.3    34.9#
```





#13
Acrolein
Concen: 96.215 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 56 Resp: 7936

Ion	Ratio	Lower	Upper
56	100		
55	67.0	0.3	0.5

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
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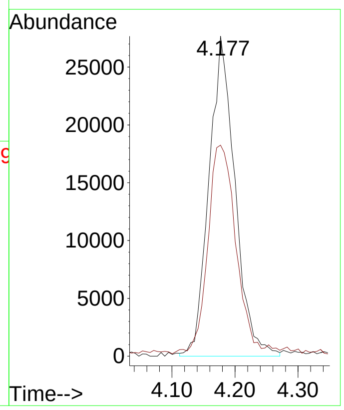
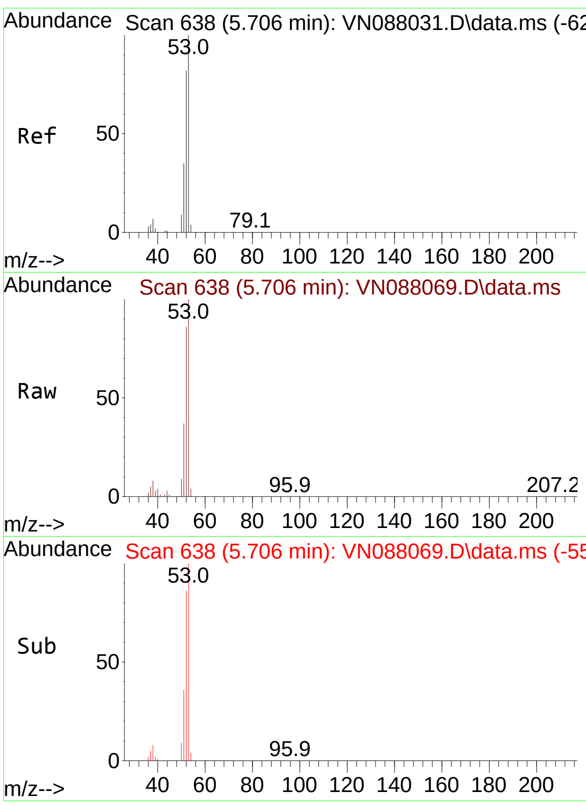
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

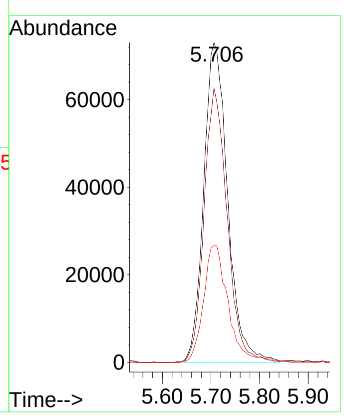


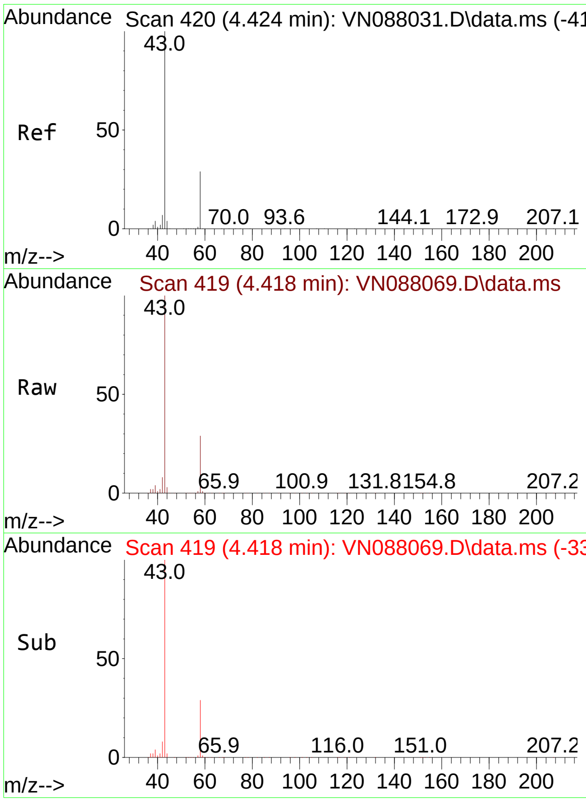


#14
Acrylonitrile
Concen: 97.118 ug/l
RT: 5.706 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 53 Resp: 249820

Ion	Ratio	Lower	Upper
53	100		
52	82.5	41.3	124.1
51	36.8	18.0	54.0





#15
Acetone
Concen: 873.846 ug/l
RT: 4.418 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 58 Resp: 65829

Ion	Ratio	Lower	Upper
58	100		
43	341.3	282.6	424.0

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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Reviewed By :John Carlone 10/20/2025
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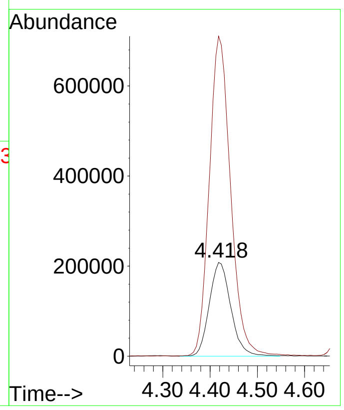
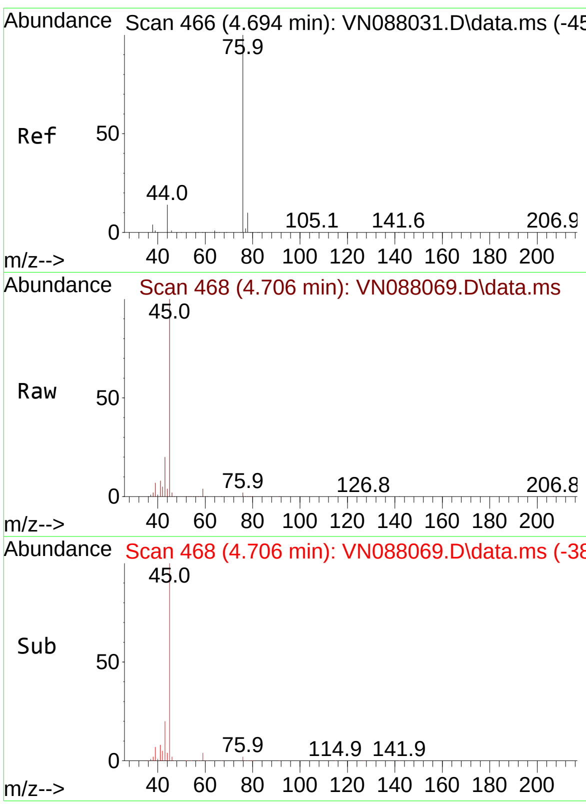
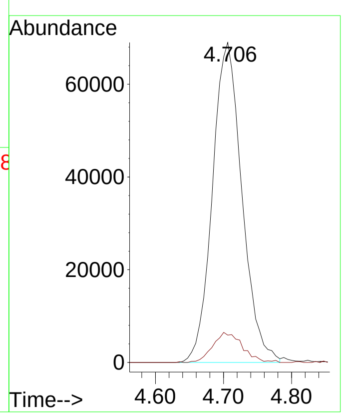




#16
Carbon Disulfide
Concen: 20.294 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.012 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 76 Resp: 208589

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.8	11.8



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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Reviewed By :John Carlone 10/20/2025
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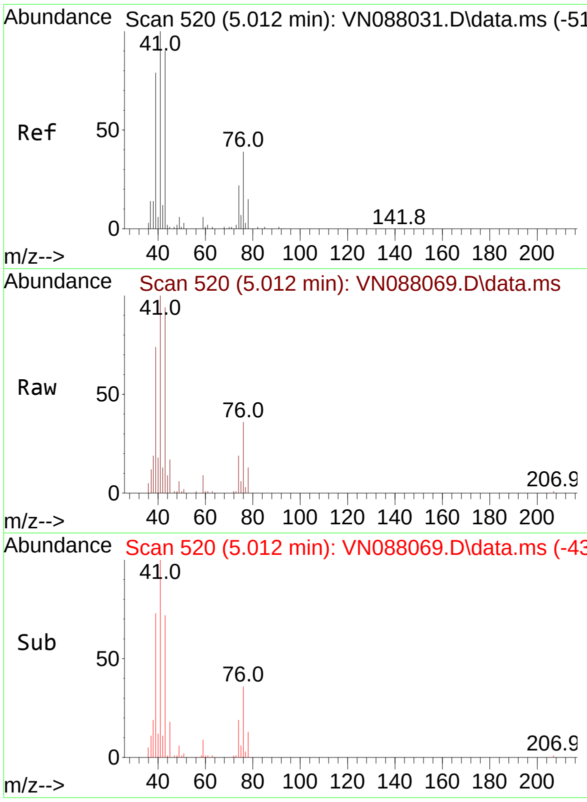
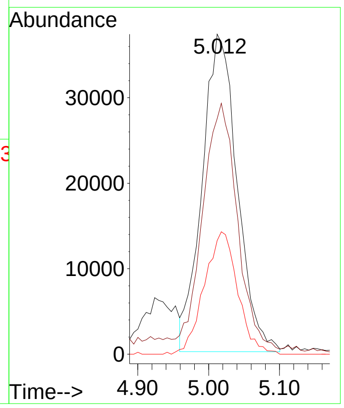
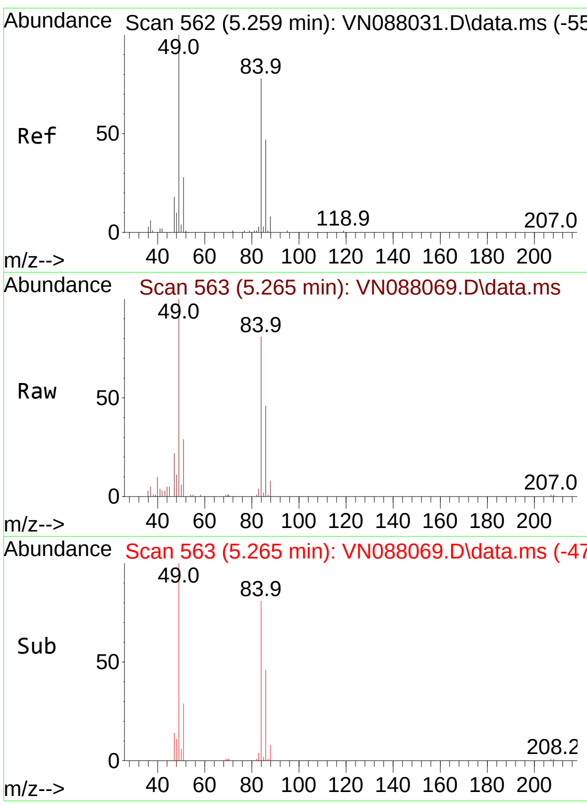
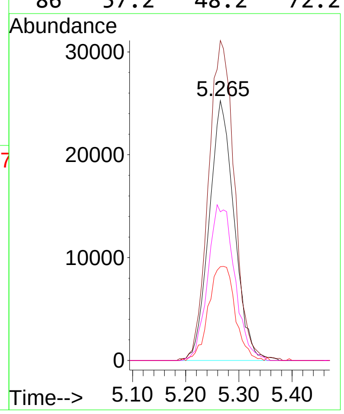



```
#17
Allyl chloride
Concen:   20.691 ug/l
RT:   5.012 min   Scan# 52
Delta R.T.   0.000 min
Lab File:   VN088069.D
Acq: 17 Oct 2025   16:00

Tgt Ion: 41 Resp:   128015
Ion   Ratio   Lower   Upper
 41   100
 39    73.3    36.4   109.2
 76    36.1    18.1    54.1
```






```
#18
Methylene Chloride
Concen:   19.876 ug/l
RT:   5.265 min   Scan# 563
Delta R.T.   0.006 min
Lab File:   VN088069.D
Acq: 17 Oct 2025   16:00

Tgt Ion: 84 Resp:    82831
Ion   Ratio   Lower   Upper
 84   100
 49   122.5   102.6   153.8
 51    36.1    28.6    42.8
 86    57.2    48.2    72.2
```



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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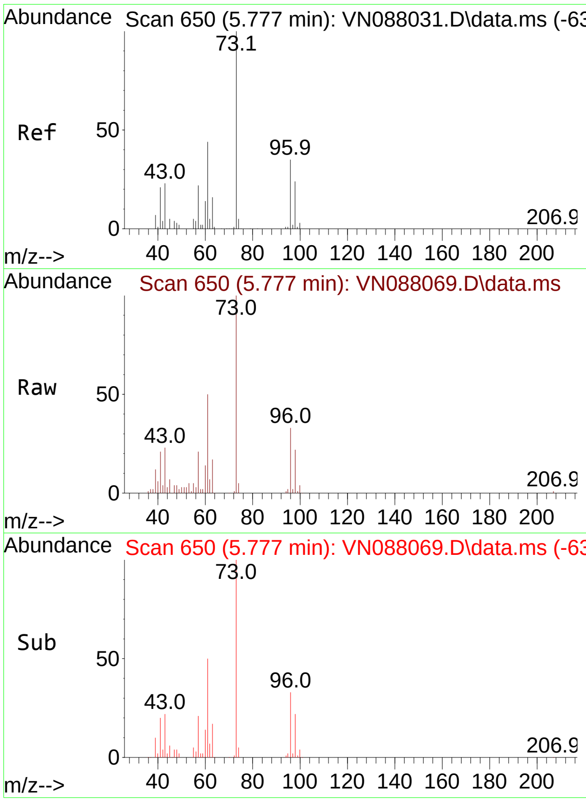
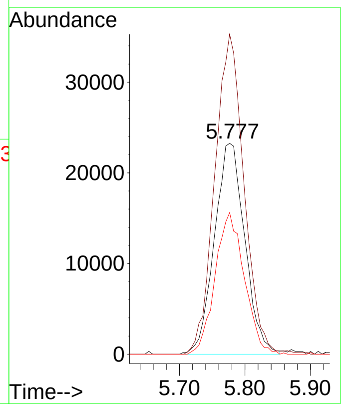
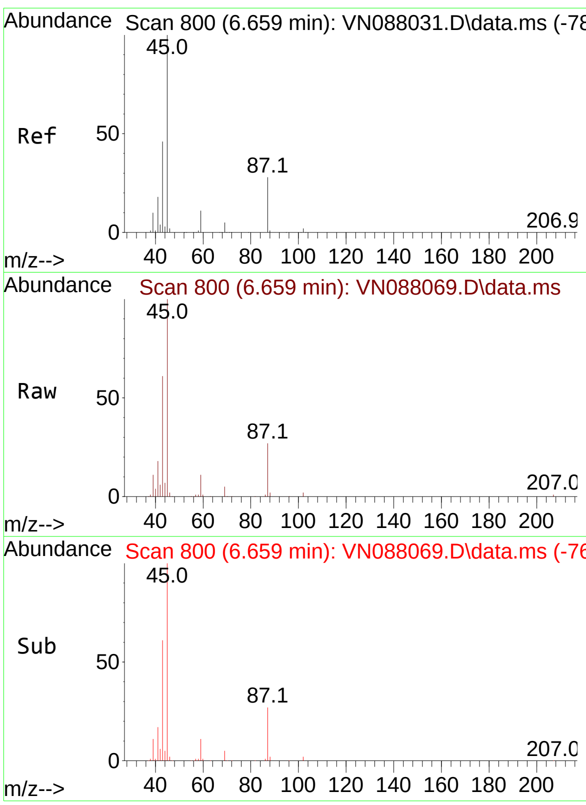


#19
trans-1,2-Dichloroethene
Concen: 19.782 ug/l
RT: 5.777 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 96 Resp: 7499

Ion	Ratio	Lower	Upper
96	100		
61	151.7	100.6	151.0
98	67.1	54.0	81.0

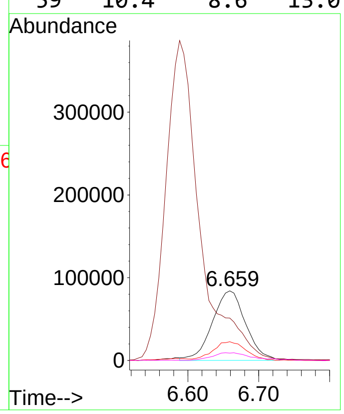


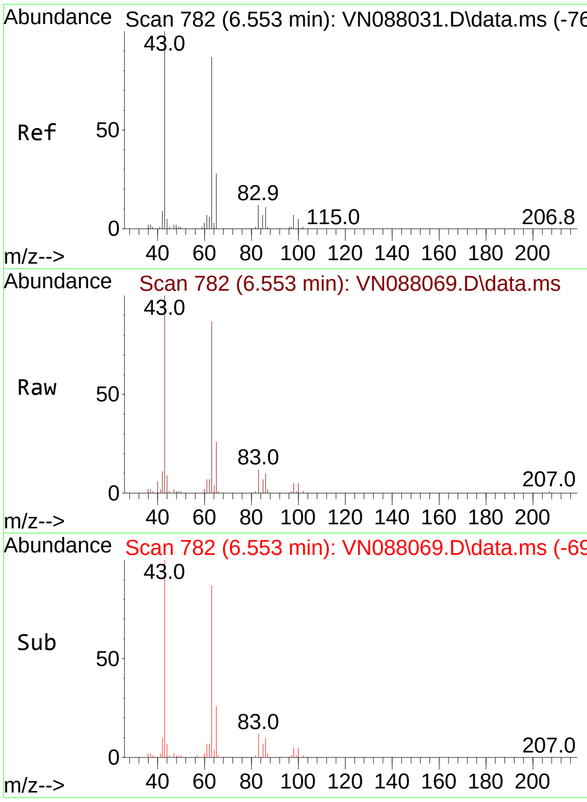


#20
Diisopropyl ether
Concen: 19.430 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 45 Resp: 273688

Ion	Ratio	Lower	Upper
45	100		
43	59.9	46.1	69.1
87	26.8	22.3	33.5
59	10.4	8.6	13.0





#21
1,1-Dichloroethane
Concen: 20.594 ug/l
RT: 6.553 min   Scan# 7
Delta R.T.   0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025   16:00

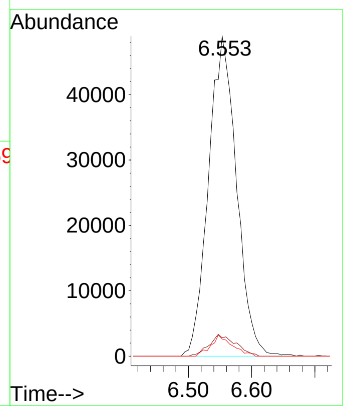
Tgt Ion: 63 Resp: 15101

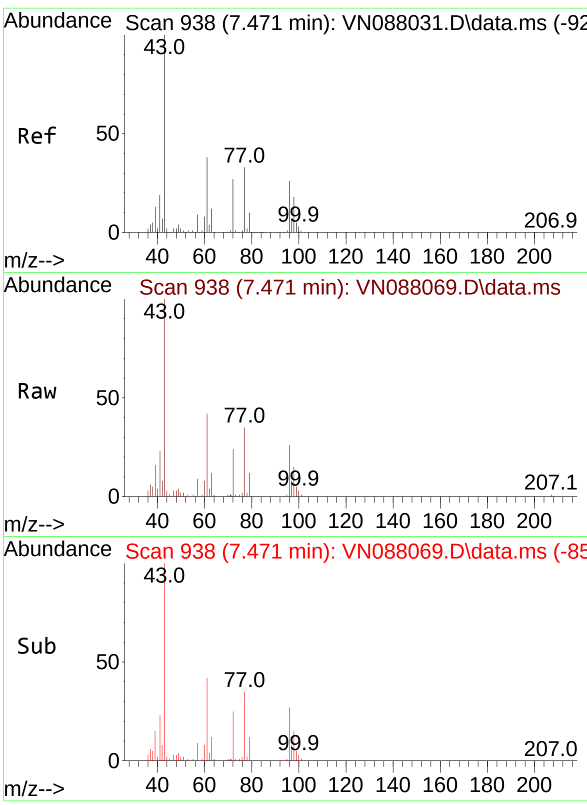
Ion	Ratio	Lower	Upper
63	100		
98	5.7	4.3	12.8
100	5.3	2.6	8.0

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations APPROVED

Reviewed By :John Carlone   10/20/2025
Supervised By :Mahesh Dadoda   10/20/2025

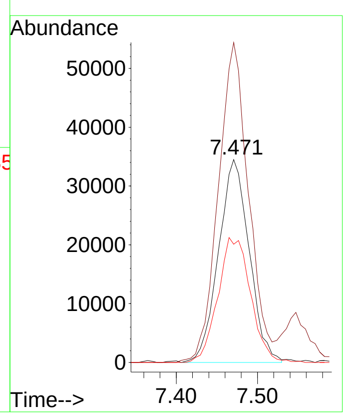




#22
cis-1,2-Dichloroethene
Concen: 19.088 ug/l
RT: 7.471 min   Scan# 938
Delta R.T.   0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025   16:00

Tgt Ion: 96 Resp: 90580

Ion	Ratio	Lower	Upper
96	100		
61	154.5	117.0	175.6
98	65.6	52.6	79.0



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
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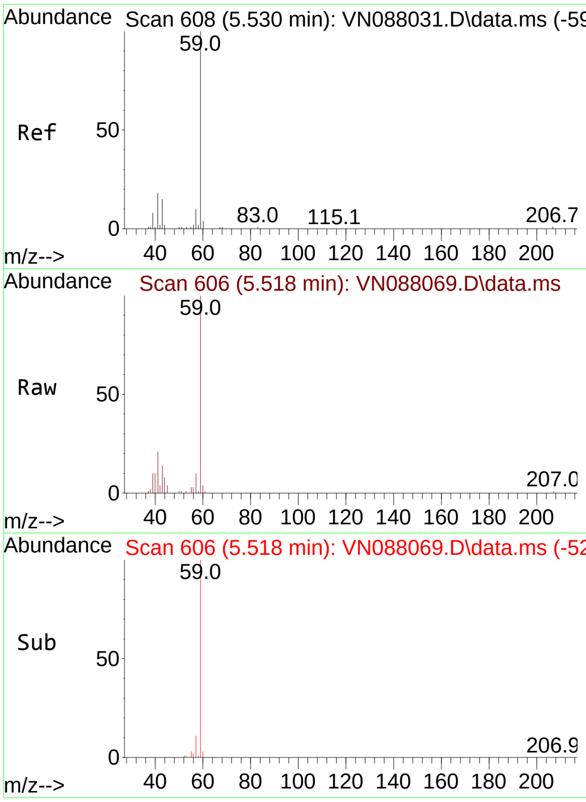
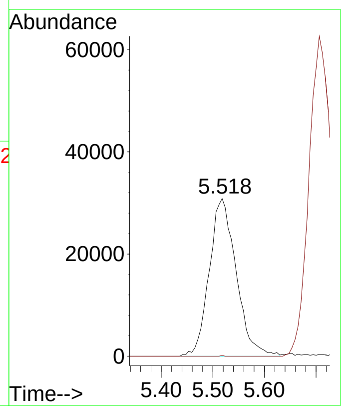
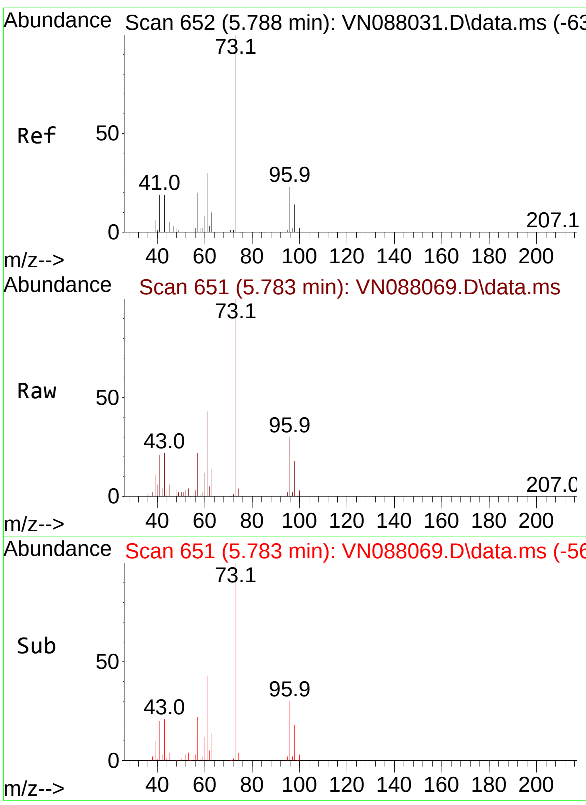
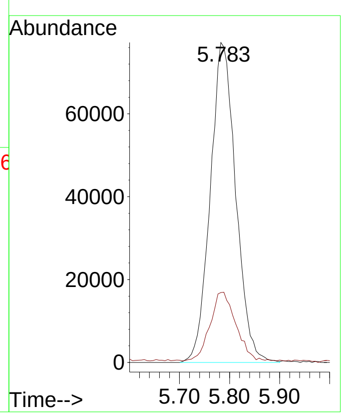


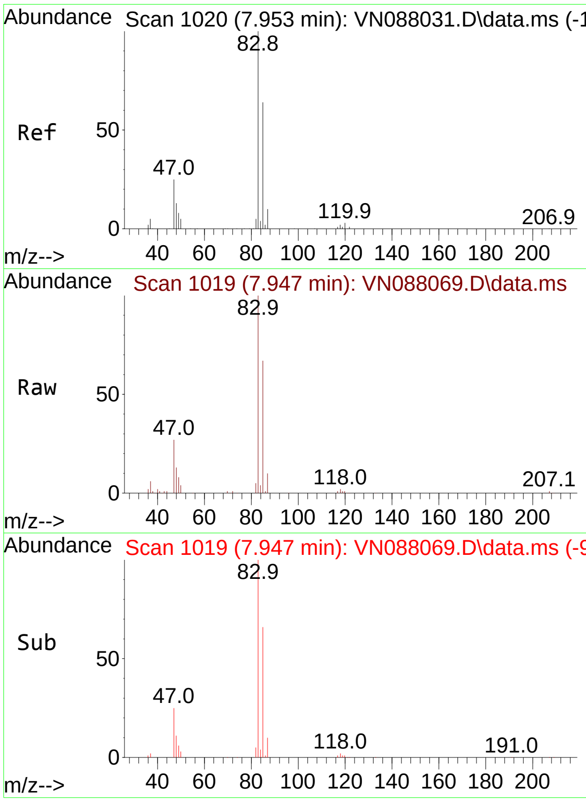

```
#23
tert-Butyl Alcohol
Concen:  108.285 ug/l
RT:    5.518 min   Scan# 6(
Delta R.T.   -0.012 min
Lab File:    VN088069.D
Acq: 17 Oct 2025   16:00

Tgt Ion: 59 Resp:   11171
Ion   Ratio   Lower   Upper
 59   100
 52     0.0     0.0     0.0
```






```
#24
Methyl tert-Butyl Ether
Concen:   19.348 ug/l
RT:    5.783 min   Scan# 651
Delta R.T.   -0.006 min
Lab File:    VN088069.D
Acq: 17 Oct 2025   16:00

Tgt Ion: 73 Resp:   273820
Ion   Ratio   Lower   Upper
 73   100
 43    21.5    17.0    25.4
```





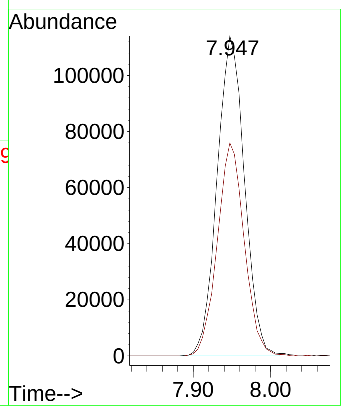
#25
Chloroform
Concen: 37.127 ug/l
RT: 7.947 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

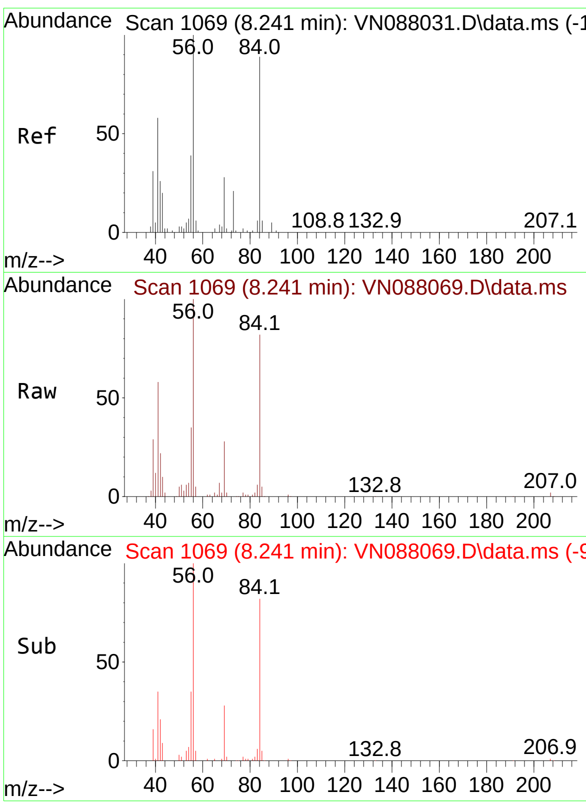
Tgt Ion: 83 Resp: 28093

Ion	Ratio	Lower	Upper
83	100		
85	66.5	50.9	76.3

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

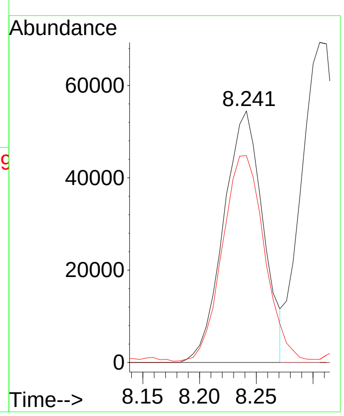


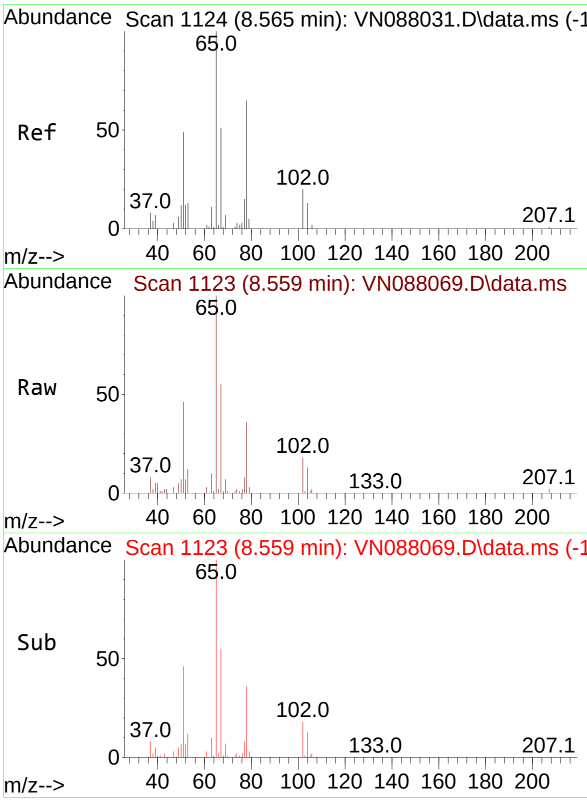


#26
Cyclohexane
Concen: 21.698 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 56 Resp: 131824

Ion	Ratio	Lower	Upper
56	100		
89	0.0	8.6	12.8#
84	88.5	69.6	104.4





#27
1,2-Dichloroethane-d4
Concen: 32.890 ug/l
RT: 8.559 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 65 Resp: 15971

Ion	Ratio	Lower	Upper
65	100		
67	53.9	41.9	62.9

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
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Reviewed By :John Carlone 10/20/2025
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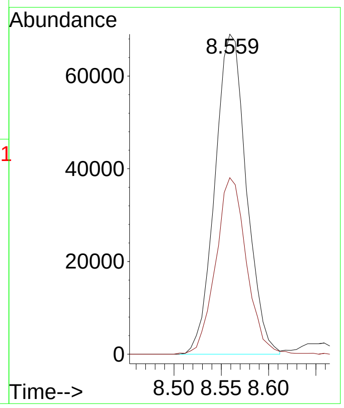
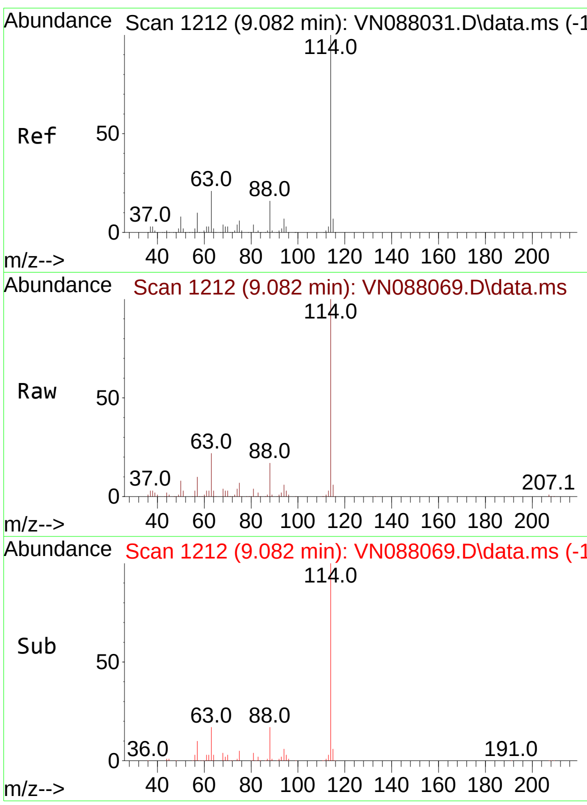
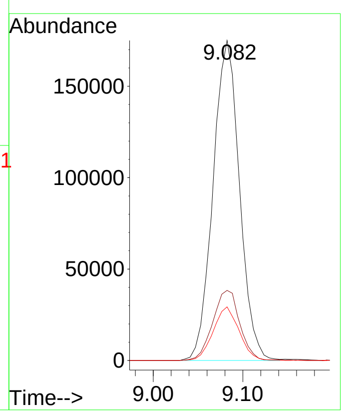




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

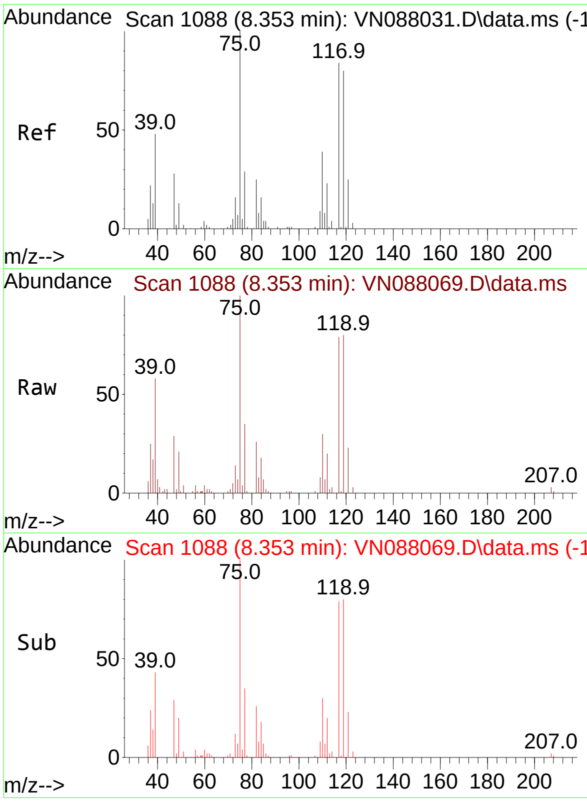
Tgt Ion:114 Resp: 360102

Ion	Ratio	Lower	Upper
114	100		
63	22.3	16.6	25.0
88	16.3	12.6	18.8



Instrument : MSVOA_N
ClientSampleId : EFF-WWMSD

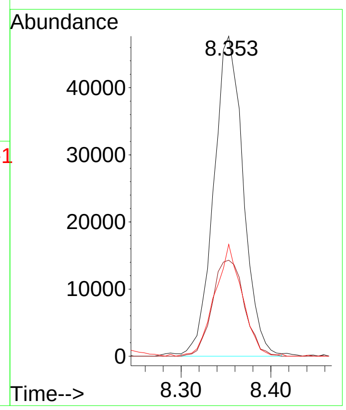
Manual Integrations APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

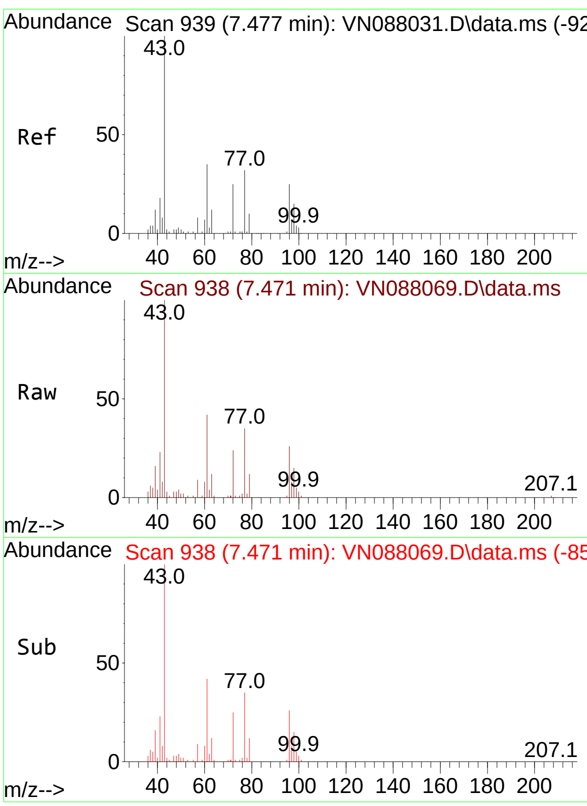


#29
1,1-Dichloropropene
Concen: 21.025 ug/l
RT: 8.353 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 75 Resp: 108524

Ion	Ratio	Lower	Upper
75	100		
110	32.6	0.0	72.2
77	32.7	0.0	60.6

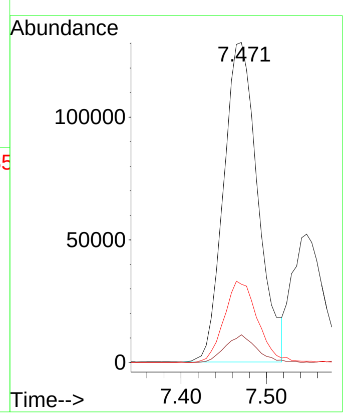




#30
2-Butanone
Concen: 95.251 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 43 Resp: 362613

Ion	Ratio	Lower	Upper
43	100		
57	7.9	6.5	9.7
72	25.0	21.4	32.2



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations APPROVED

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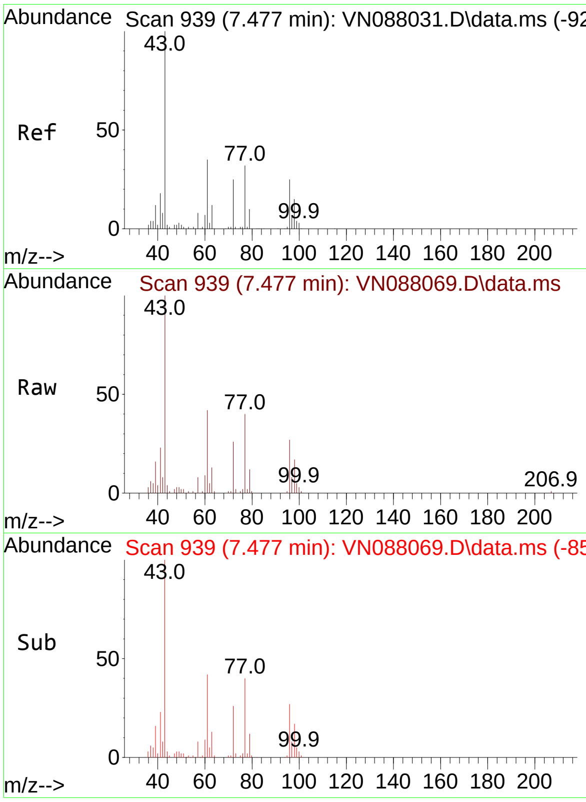
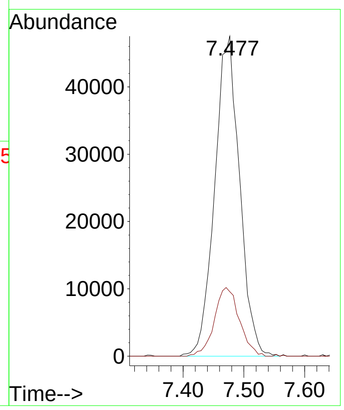
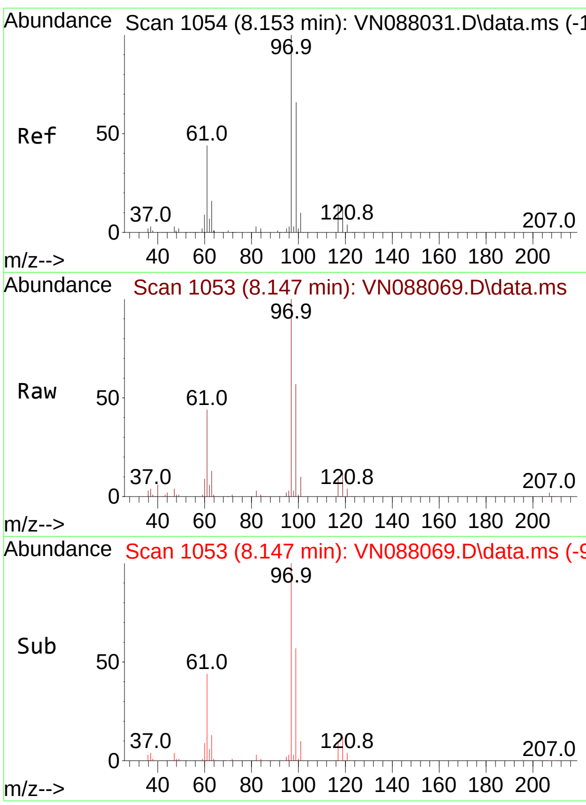


#31
2,2-Dichloropropane
Concen: 20.305 ug/l
RT: 7.477 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 77 Resp: 13504

Ion	Ratio	Lower	Upper
77	100		
97	21.6	17.8	26.8

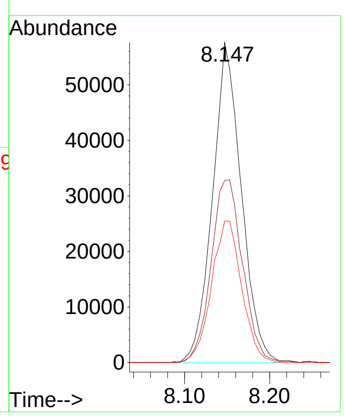




#32
1,1,1-Trichloroethane
Concen: 21.024 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 97 Resp: 135598

Ion	Ratio	Lower	Upper
97	100		
99	62.4	51.4	77.2
61	46.3	34.7	52.1



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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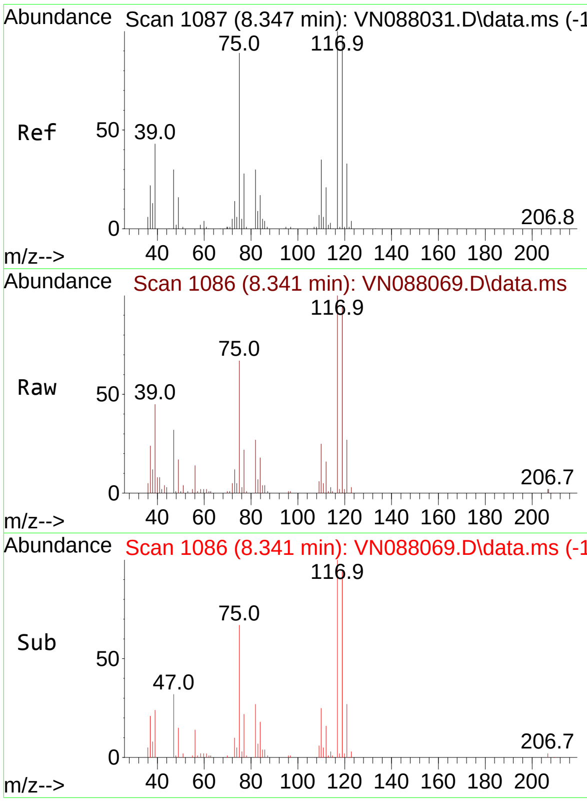
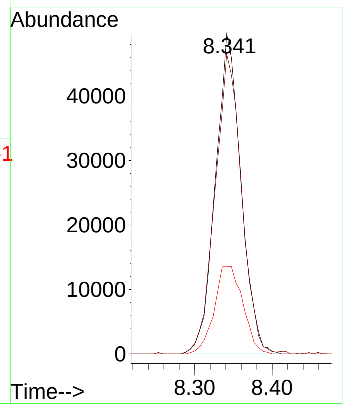
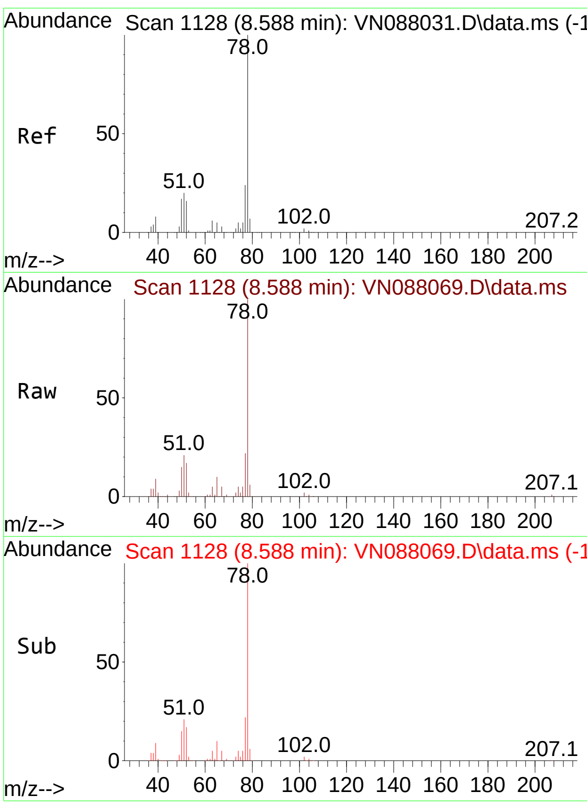
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

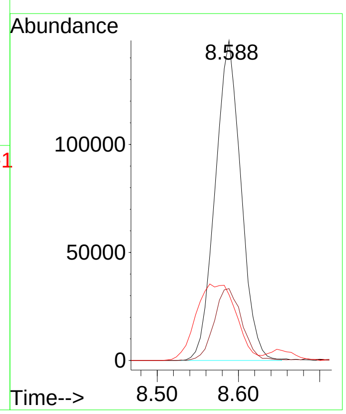


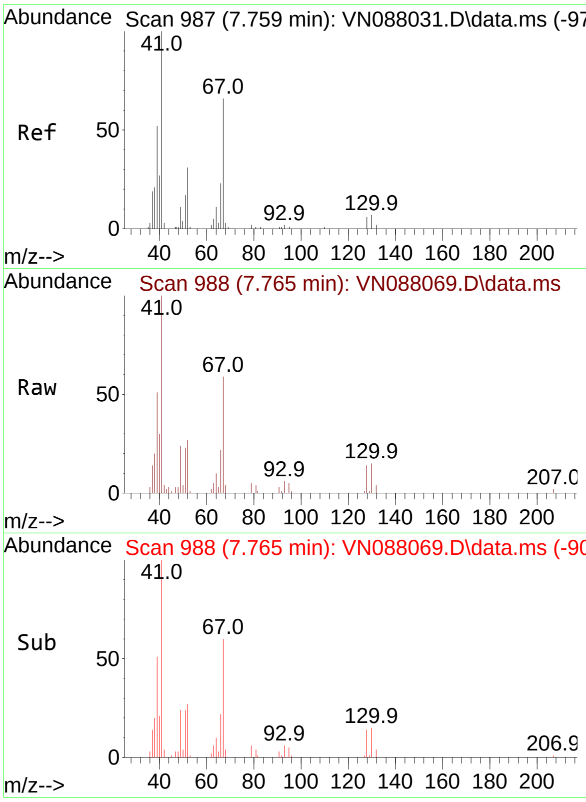

```
#33
Carbon Tetrachloride
Concen:   21.099 ug/l
RT:   8.341 min  Scan# 1(
Delta R.T.  -0.006 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion:117 Resp:  11398!
Ion  Ratio  Lower  Upper
117  100
119   93.7   77.9  116.9
121   27.3   26.4   39.6
```






```
#34
Benzene
Concen:   19.117 ug/l
RT:   8.588 min  Scan# 1128
Delta R.T.  0.000 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion: 78 Resp:  327299
Ion  Ratio  Lower  Upper
 78  100
 77   22.3   18.9   28.3
 51   18.0   15.6   23.4
```

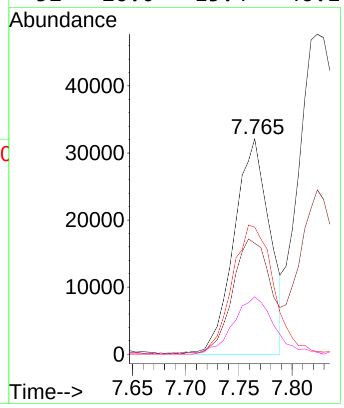




#35
Methacrylonitrile
Concen: 18.631 ug/l
RT: 7.765 min Scan# 98
Delta R.T. 0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 41 Resp: 7458

Ion	Ratio	Lower	Upper
41	100		
39	50.9	26.1	78.3
67	59.0	33.1	99.2
52	26.0	15.4	46.1



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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Reviewed By :John Carlone 10/20/2025
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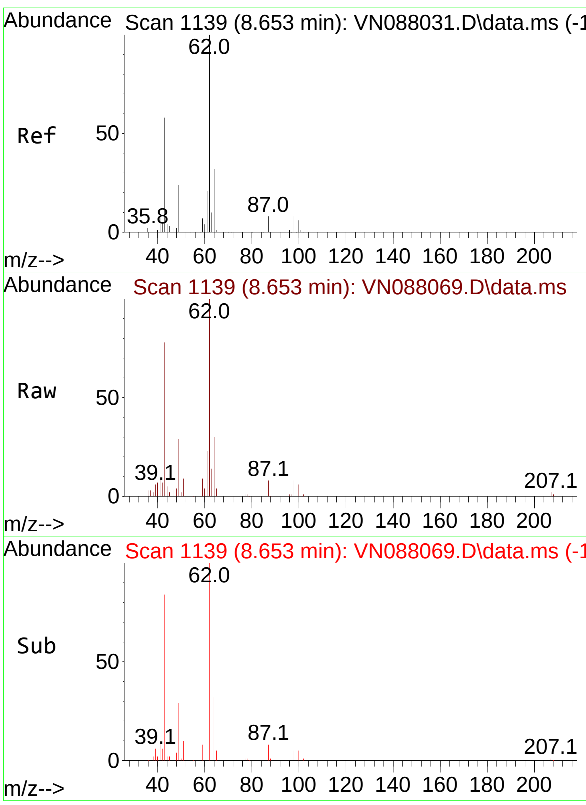
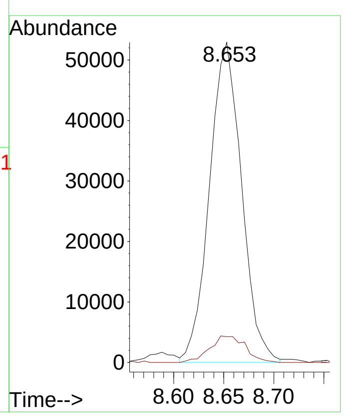


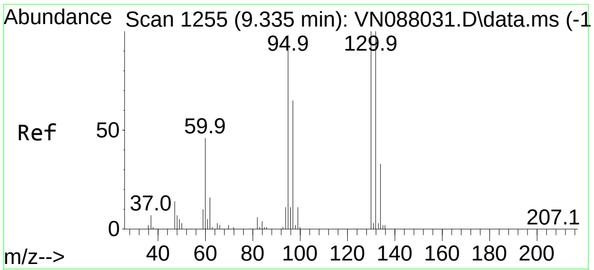
#36
1,2-Dichloroethane
Concen: 19.886 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

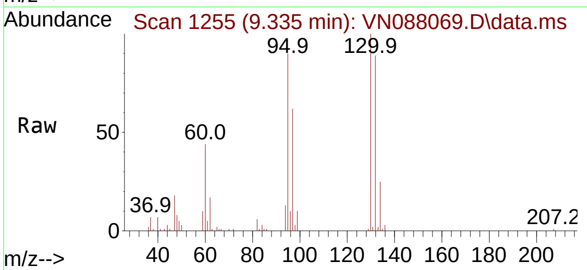
Tgt Ion: 62 Resp: 118196

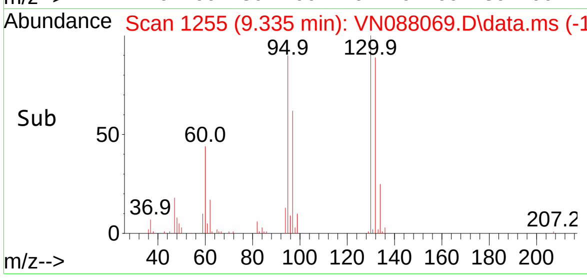
Ion	Ratio	Lower	Upper
62	100		
98	9.2	7.8	11.6



Sample Results: **VN088069.D**







#37
Trichloroethene
Concen: 18.723 ug/l
RT: 9.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:130 Resp: 7594

Ion	Ratio	Lower	Upper
130	100		
95	89.7	78.7	118.1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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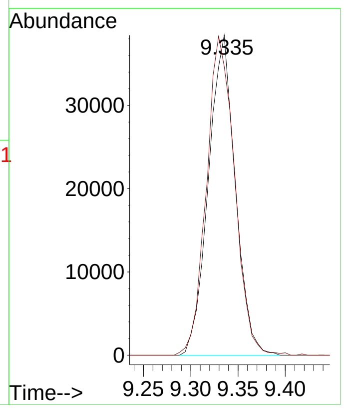
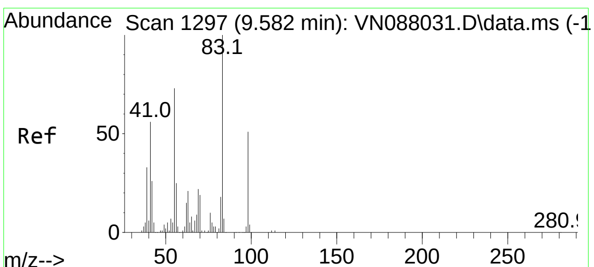
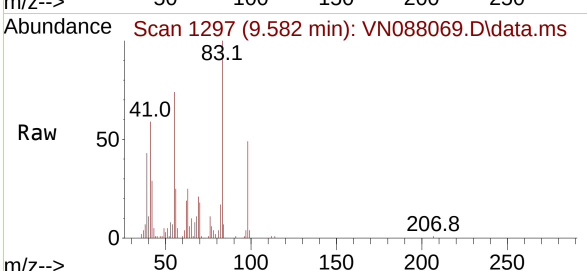
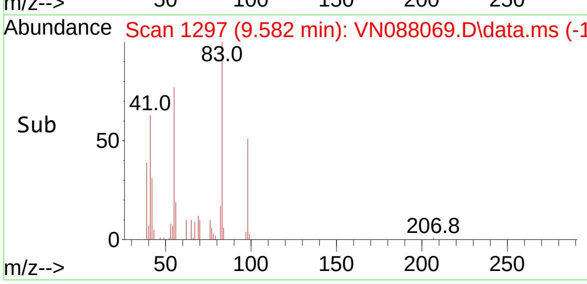
Supervised By :Mahesh Dadoda 10/20/2025





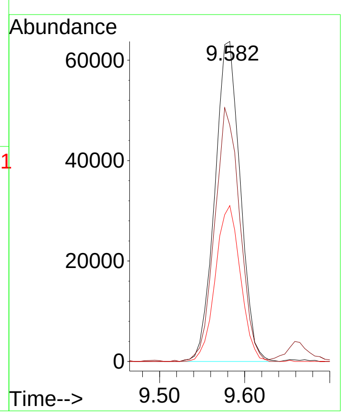


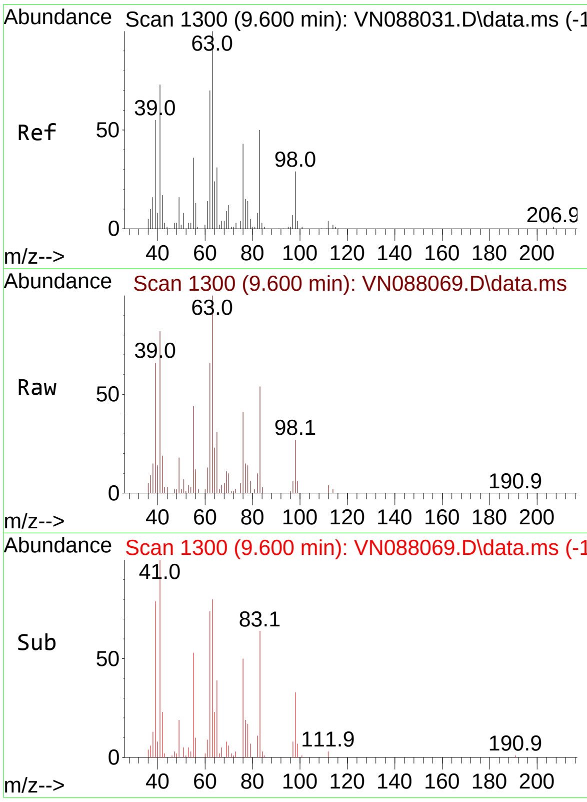


#38
Methylcyclohexane
Concen: 20.802 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 83 Resp: 132603

Ion	Ratio	Lower	Upper
83	100		
55	78.5	37.3	111.9
98	48.0	25.4	76.0





#39
1,2-Dichloropropane
Concen: 19.307 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 63 Resp: 8288

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.0	37.6

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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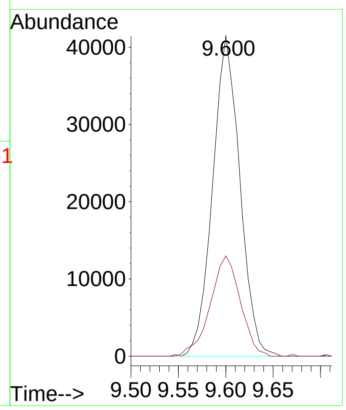
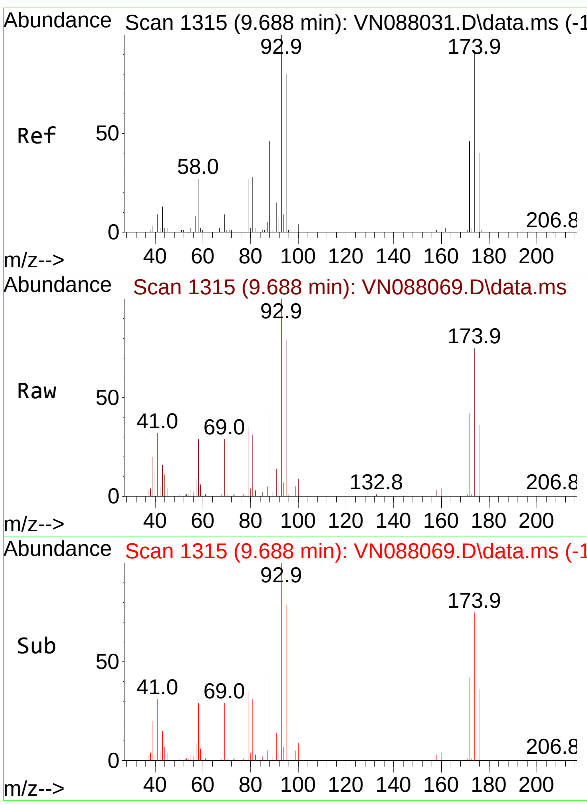
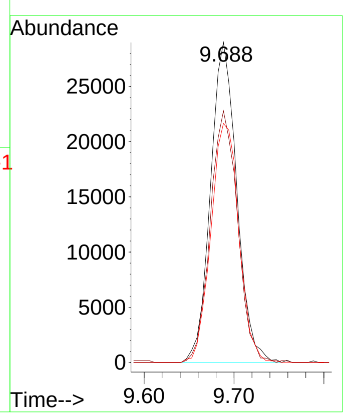


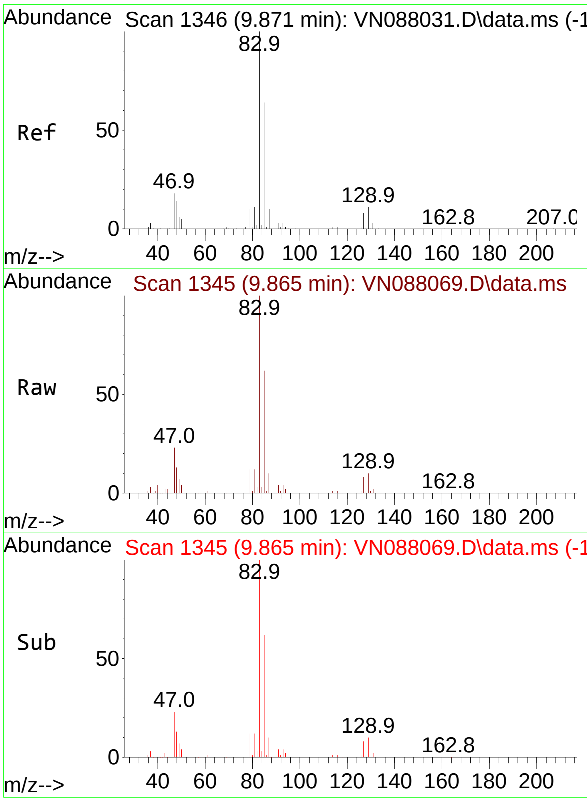


#40
Dibromomethane
Concen: 18.885 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 93 Resp: 59013

Ion	Ratio	Lower	Upper
93	100		
95	81.2	0.0	158.6
174	79.4	0.0	180.8





#41
Bromodichloromethane
Concen: 20.372 ug/l
RT: 9.865 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Tgt Ion: 83 Resp: 13002

Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.0	76.4
127	8.5	6.1	9.1

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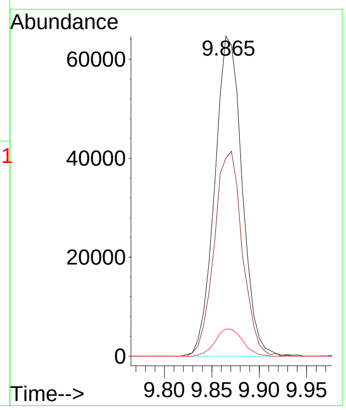
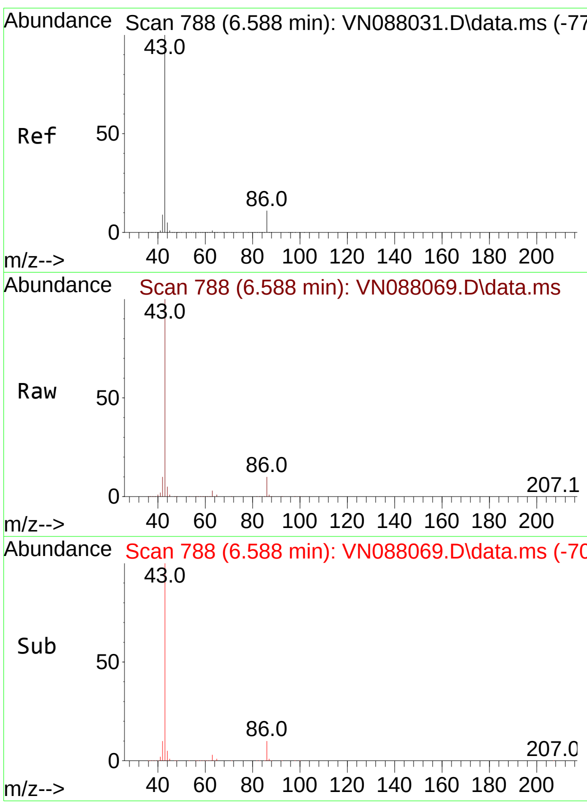
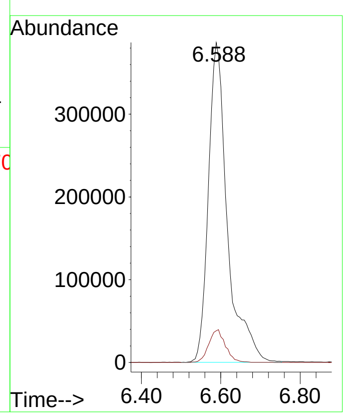




#42
Vinyl Acetate
Concen: 99.074 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 43 Resp: 1284894

Ion	Ratio	Lower	Upper
43	100		
86	9.0	8.4	12.6



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
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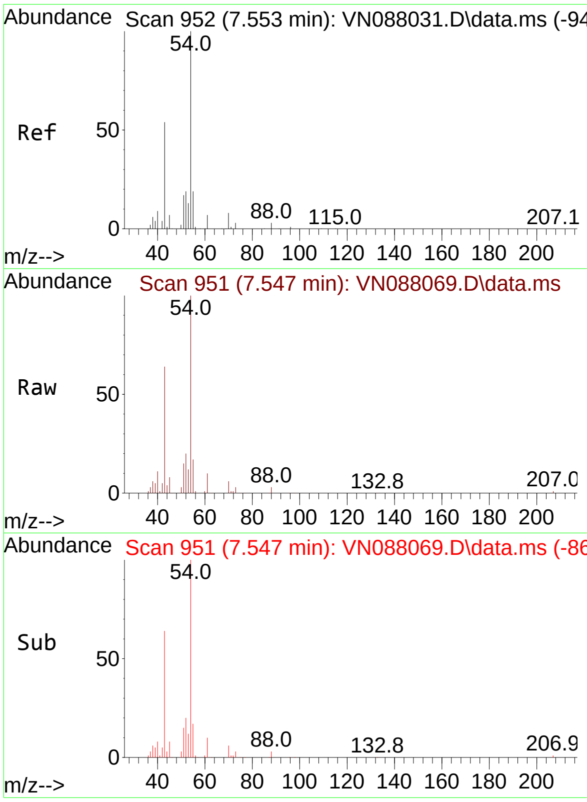
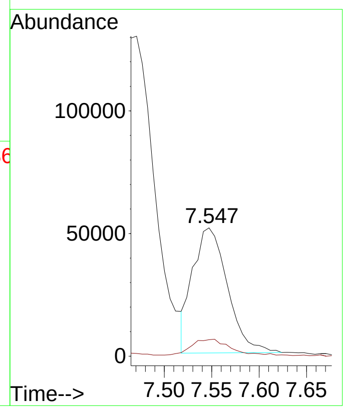
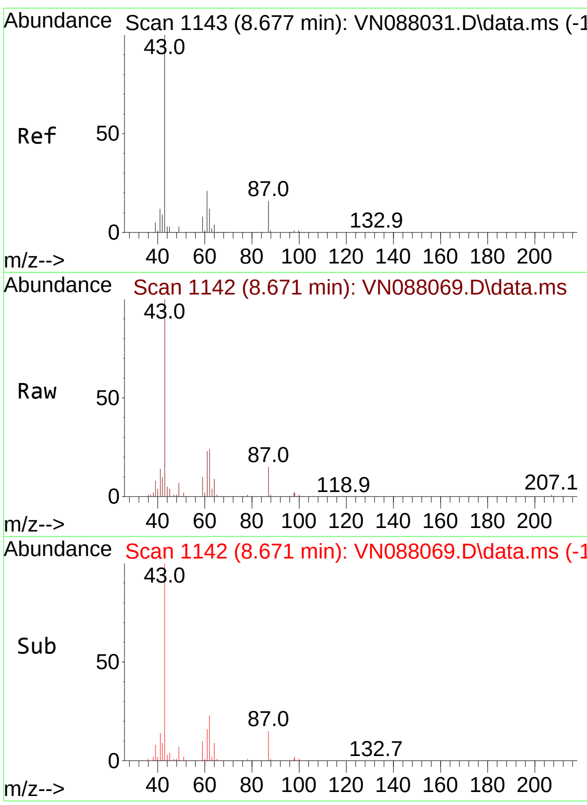
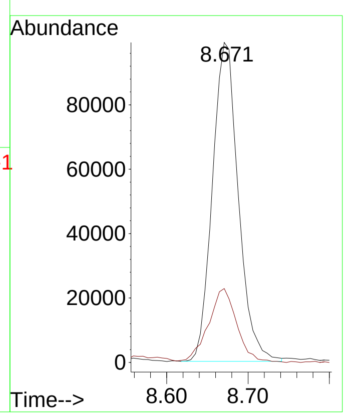


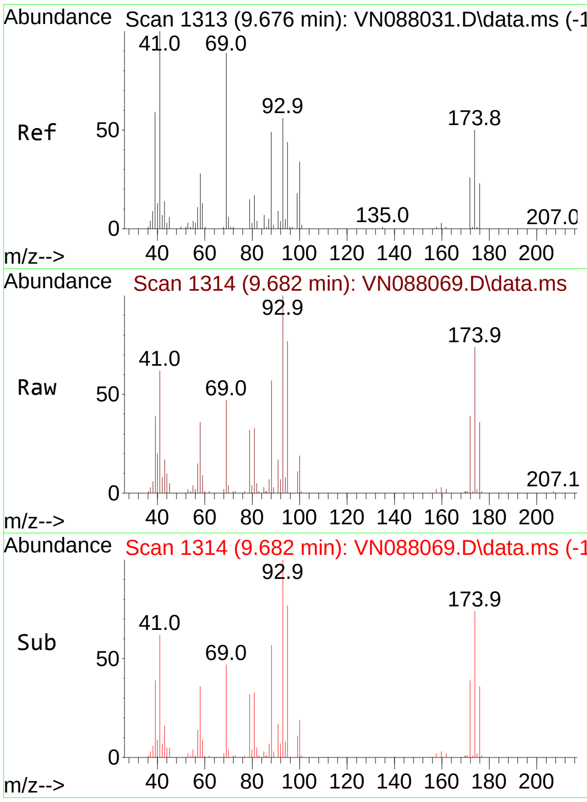

```
#43
Ethyl Acetate
Concen:   17.835 ug/l
RT:   7.547 min  Scan# 9
Delta R.T.  -0.006 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion: 43 Resp:  13051
Ion  Ratio  Lower  Upper
 43  100
 45    5.3   10.2   15.4
```






```
#44
Isopropyl Acetate
Concen:   18.392 ug/l
RT:   8.671 min  Scan# 1142
Delta R.T.  -0.006 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion: 43 Resp:  219835
Ion  Ratio  Lower  Upper
 43  100
 61   25.5   18.7   28.1
```





#45
1,4-Dioxane
Concen: 421.867 ug/l
RT: 9.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 88 Resp: 3353

Ion	Ratio	Lower	Upper
88	100		
43	24.5	18.6	27.8
58	75.5	57.4	86.2

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
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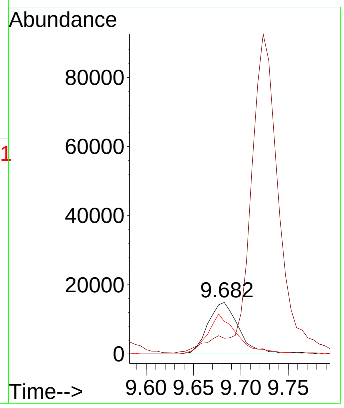
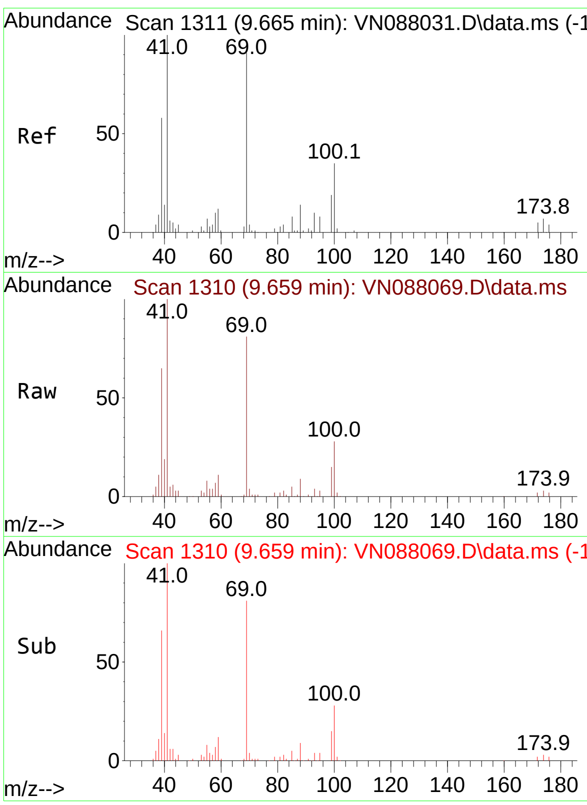
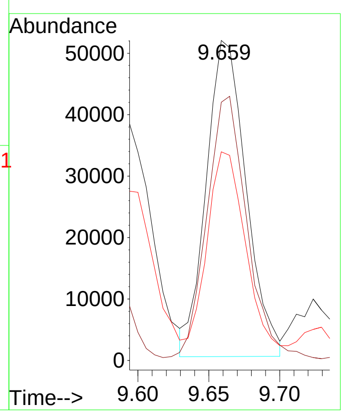


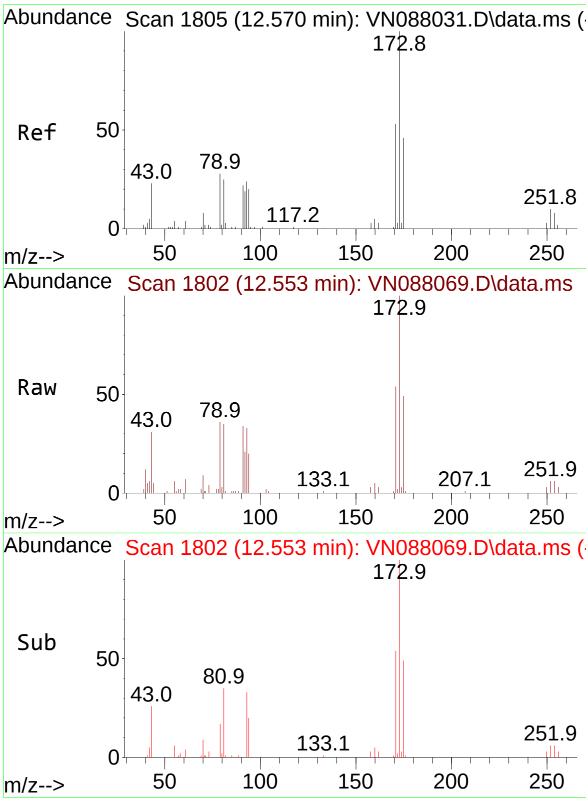


#46
Methyl methacrylate
Concen: 19.155 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 41 Resp: 100825

Ion	Ratio	Lower	Upper
41	100		
69	83.2	44.9	134.7
39	64.4	30.3	90.8





#47
n-amyl Acetate
Concen: 25.151 ug/l m
RT: 12.553 min Scan# 18
Delta R.T. -0.018 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 43 Resp: 142487

Ion	Ratio	Lower	Upper
43	100		
55	0.3	0.6	0.8#

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
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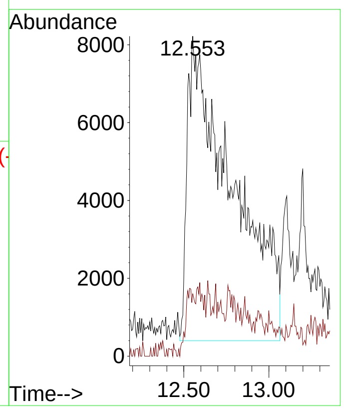
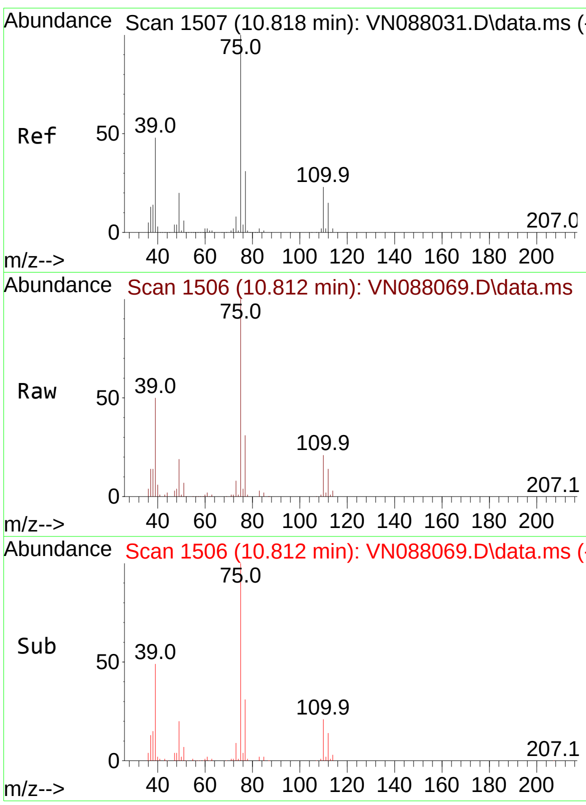
Supervised By :Mahesh Dadoda 10/20/2025

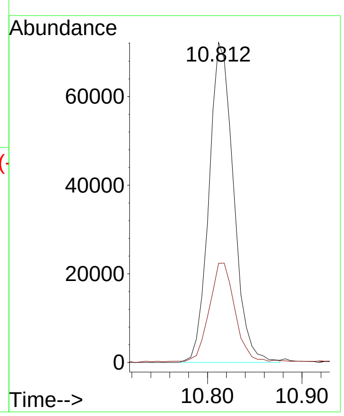




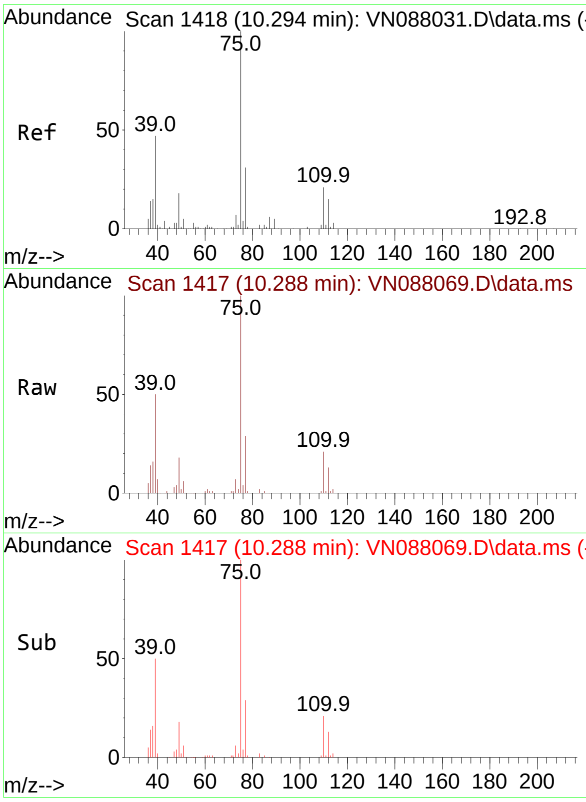
#48
t-1,3-Dichloropropene
Concen: 18.436 ug/l
RT: 10.812 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 75 Resp: 130834

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.5	36.7



Sample Results: **VN088069.D**



#49
cis-1,3-Dichloropropene
Concen: 18.463 ug/l
RT: 10.288 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
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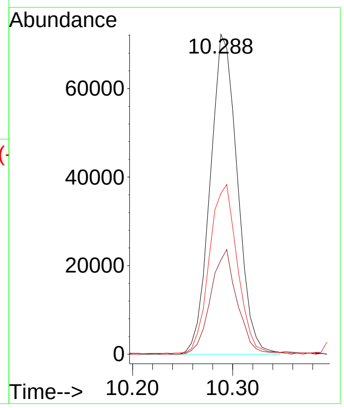
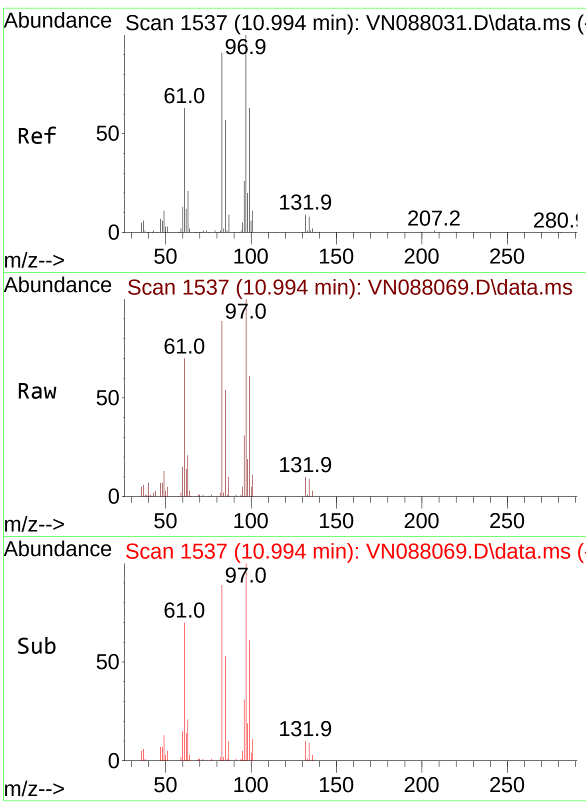
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

Tgt Ion: 75 Resp: 136675

Ion	Ratio	Lower	Upper
75	100		
77	29.4	25.0	37.4
39	49.8	37.4	56.0

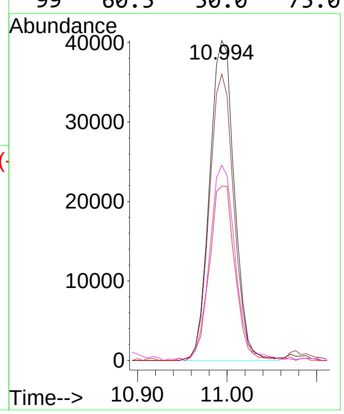


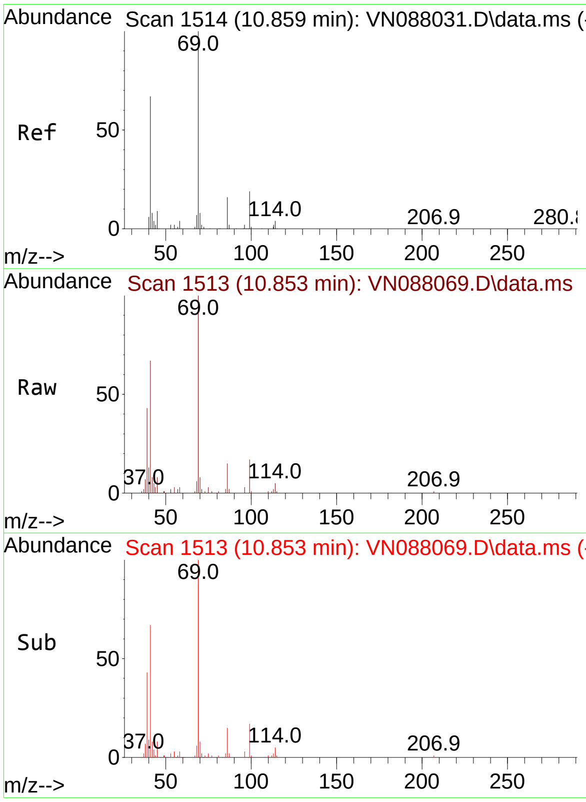


#50
1,1,2-Trichloroethane
Concen: 18.725 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 97 Resp: 77489

Ion	Ratio	Lower	Upper
97	100		
83	89.5	72.5	108.7
85	53.9	45.5	68.3
99	60.5	50.0	75.0





#51
Ethyl methacrylate
Concen: 18.320 ug/l
RT: 10.853 min Scan# 1!
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Tgt Ion: 69 Resp: 12830

Ion	Ratio	Lower	Upper
69	100		
41	66.7	33.3	99.8
39	41.9	20.3	61.0

Manual Integrations
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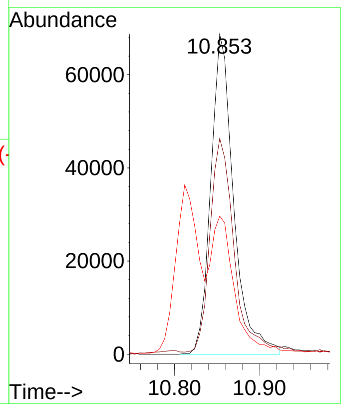
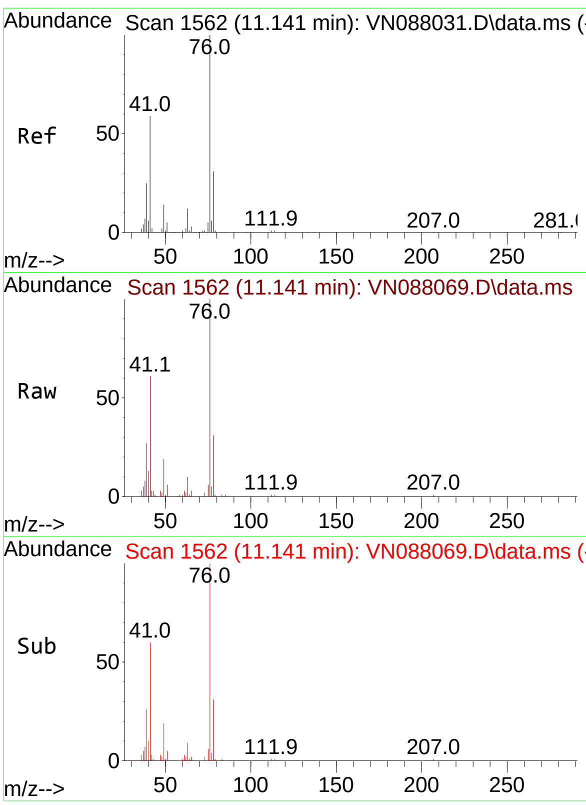
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

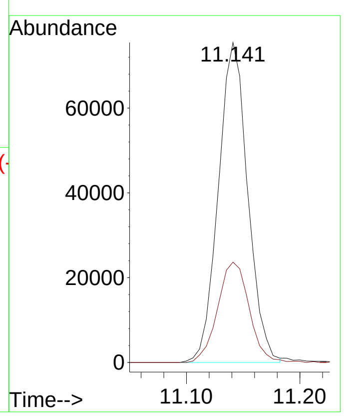


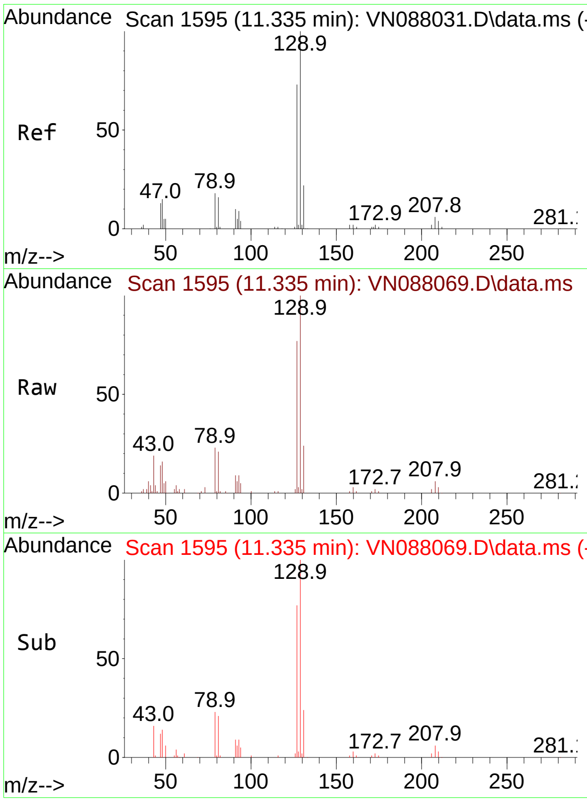


#52
1,3-Dichloropropane
Concen: 18.832 ug/l
RT: 11.141 min Scan# 1562
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 76 Resp: 135965

Ion	Ratio	Lower	Upper
76	100		
78	33.4	0.0	65.0





#53
Dibromochloromethane
Concen: 18.291 ug/l
RT: 11.335 min Scan# 1!
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:129 Resp: 9049(

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.3

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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Reviewed By :John Carlone 10/20/2025
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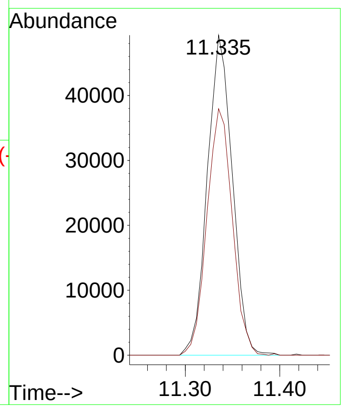
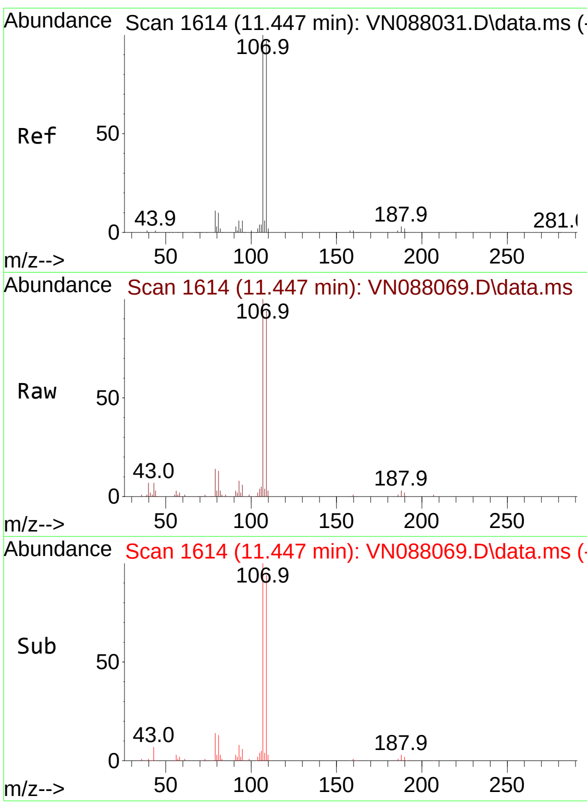
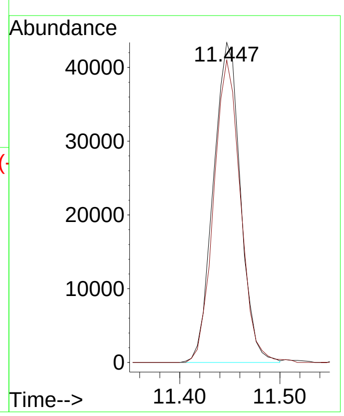




#54
1,2-Dibromoethane
Concen: 18.462 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:107 Resp: 81678

Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.5	113.3



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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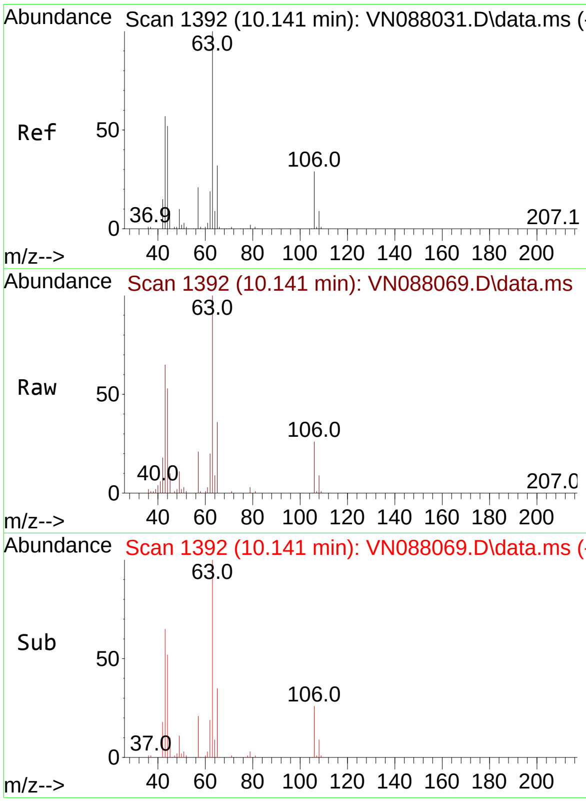
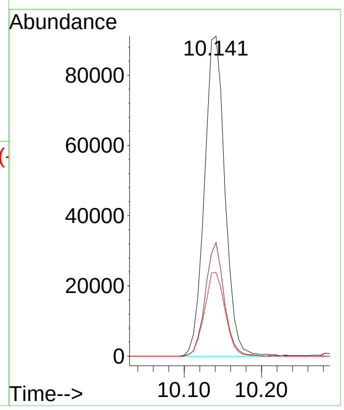
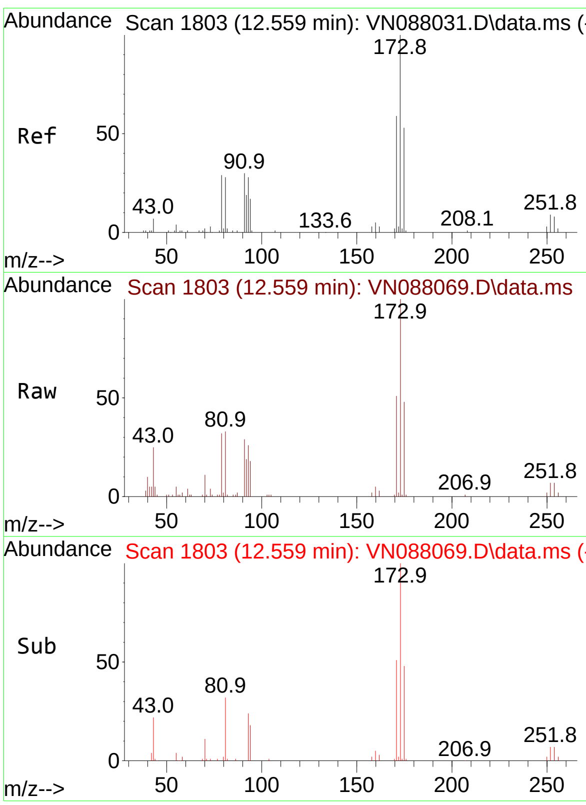


#55
2-Chloroethyl vinyl ether
Concen: 44.522 ug/l
RT: 10.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 63 Resp: 16830

Ion	Ratio	Lower	Upper
63	100		
65	32.6	25.7	38.5
106	26.4	22.6	34.0

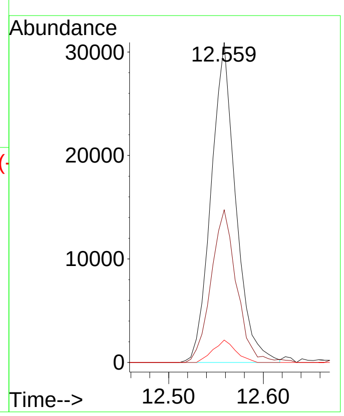




#56
Bromoform
Concen: 16.788 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:173 Resp: 56150

Ion	Ratio	Lower	Upper
173	100		
175	49.0	39.6	59.4
254	6.4	6.6	10.0#



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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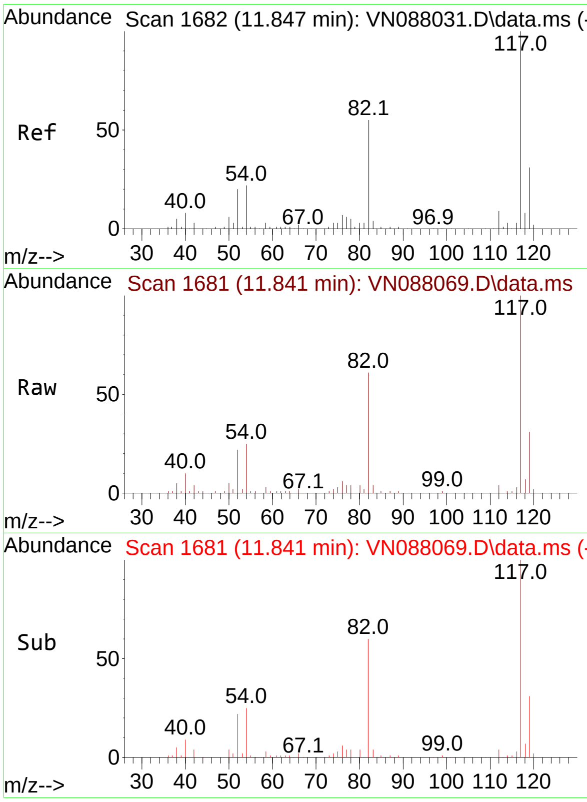
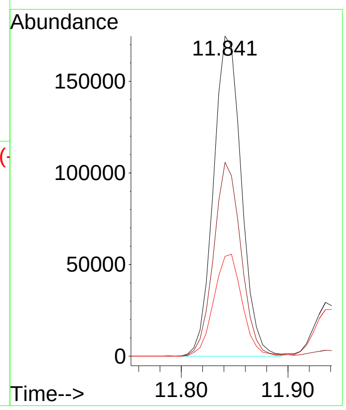
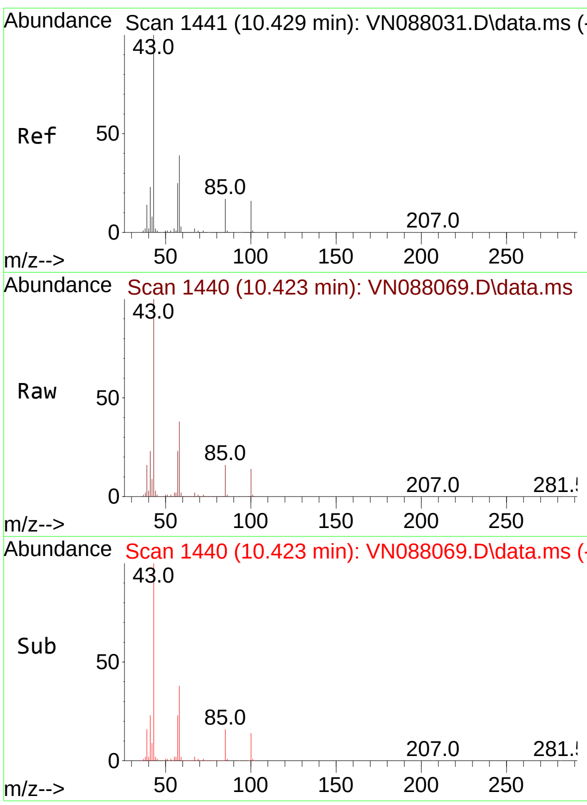


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:117 Resp: 317295

Ion	Ratio	Lower	Upper
117	100		
82	59.5	45.2	67.8
119	32.3	25.9	38.9

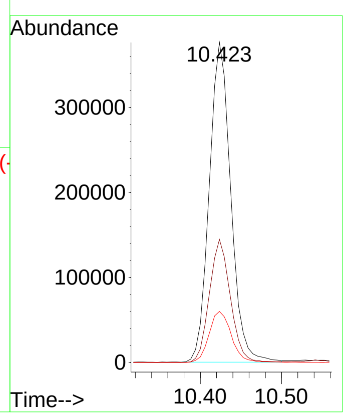




#58
4-Methyl-2-Pentanone
Concen: 97.647 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 43 Resp: 693012

Ion	Ratio	Lower	Upper
43	100		
58	37.5	31.2	46.8
85	16.4	13.7	20.5



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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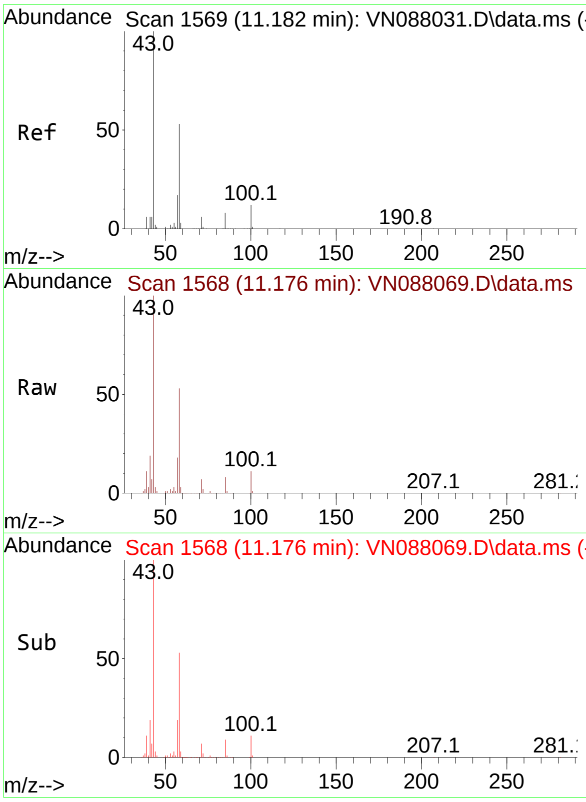
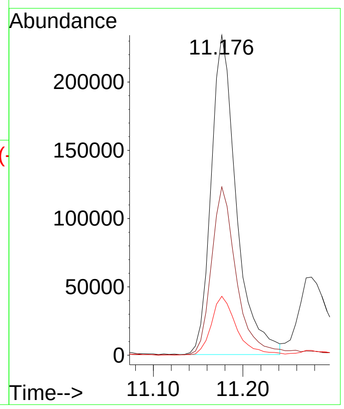
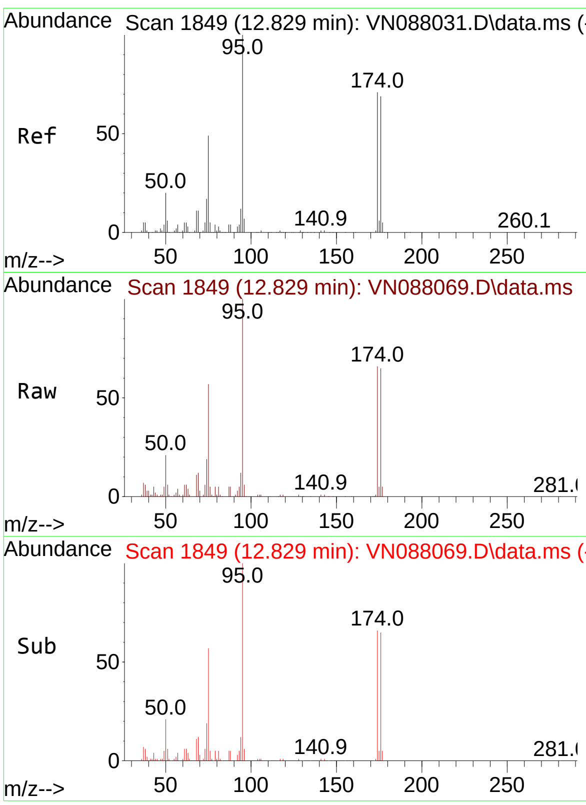


#59
2-Hexanone
Concen: 97.713 ug/l
RT: 11.176 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 43 Resp: 45786

Ion	Ratio	Lower	Upper
43	100		
58	52.0	43.1	64.7
57	18.0	14.6	21.8

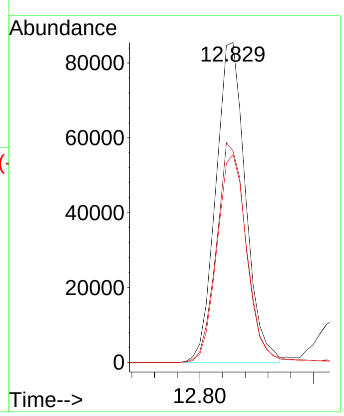


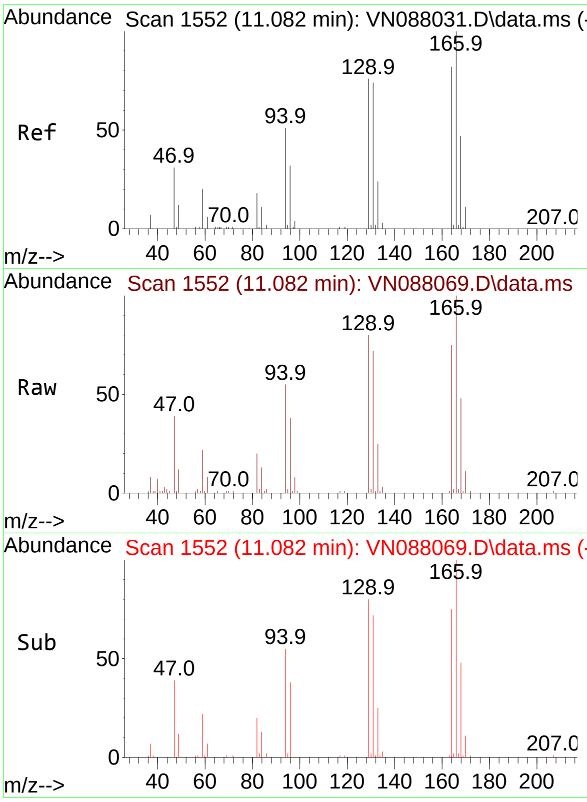


#60
4-Bromofluorobenzene
Concen: 29.758 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 95 Resp: 155658

Ion	Ratio	Lower	Upper
95	100		
174	68.3	57.4	86.0
176	66.1	57.0	85.4





#61
Tetrachloroethene
Concen: 18.777 ug/l
RT: 11.082 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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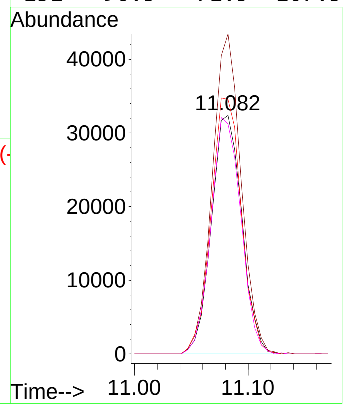
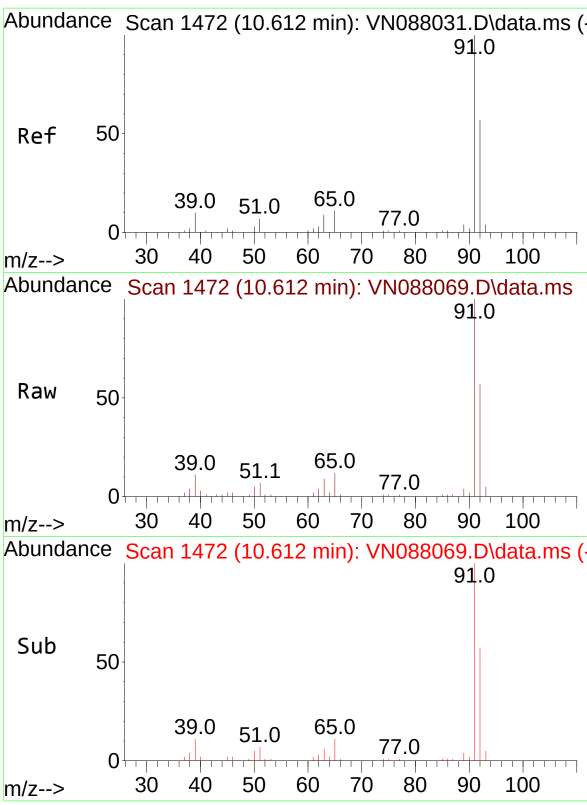
Tgt Ion:164 Resp: 6033

Ion	Ratio	Lower	Upper
164	100		
166	134.1	97.2	145.8
129	106.7	73.7	110.5
131	96.3	71.5	107.3

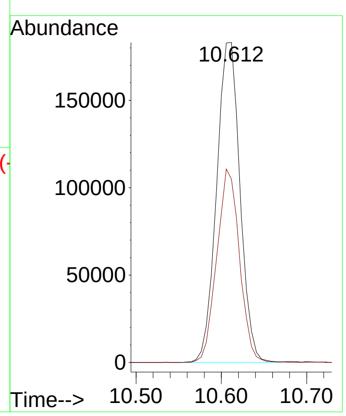


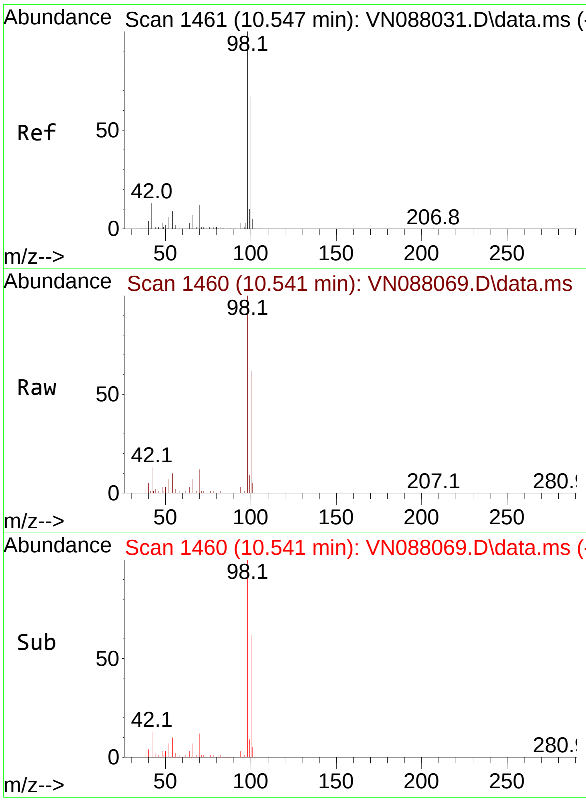


#62
Toluene
Concen: 19.438 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 91 Resp: 349848

Ion	Ratio	Lower	Upper
91	100		
92	58.5	45.8	68.8





#63
Toluene-d8
Concen: 31.380 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 98 Resp: 443618

Ion	Ratio	Lower	Upper
98	100		
100	65.4	53.1	79.7

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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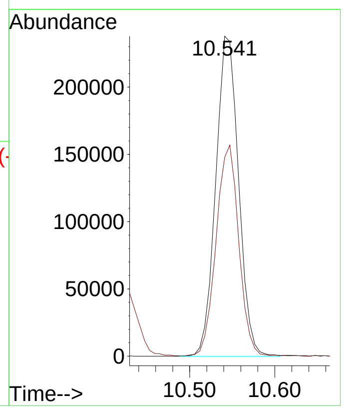
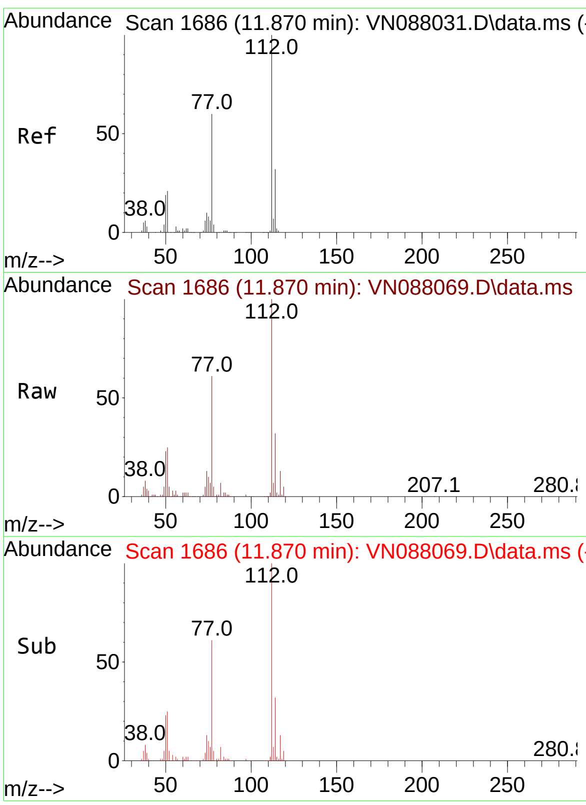
Supervised By :Mahesh Dadoda   10/20/2025

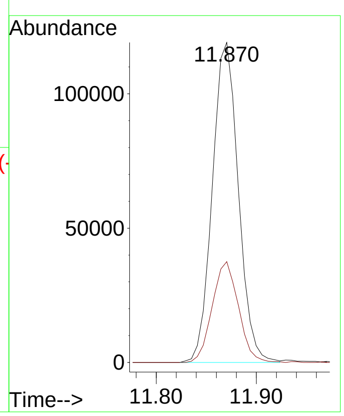




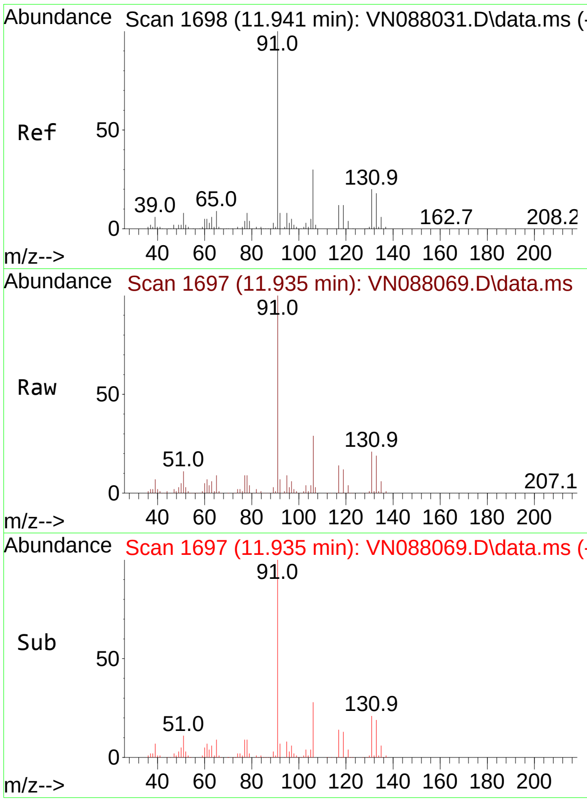
#64
Chlorobenzene
Concen: 18.740 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:112 Resp: 215429

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.7	38.5



Sample Results: **VN088069.D**



#65
1,1,1,2-Tetrachloroethane
Concen: 18.961 ug/l
RT: 11.935 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:131 Resp: 7511(

Ion	Ratio	Lower	Upper
131	100		
133	94.7	0.0	183.8
119	63.9	0.0	132.0

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
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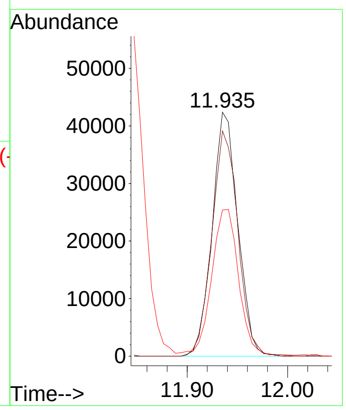
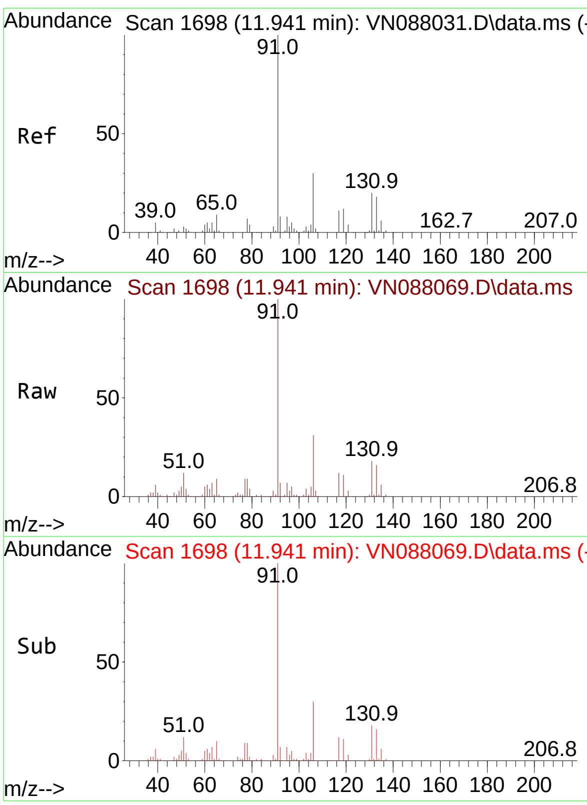
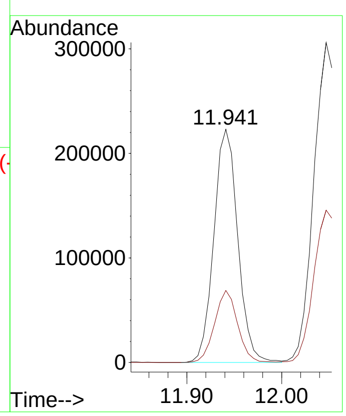




#66
Ethyl Benzene
Concen: 19.980 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 91 Resp: 391022

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.0	36.0



Instrument :
MSVOA_N
ClientSampleId :
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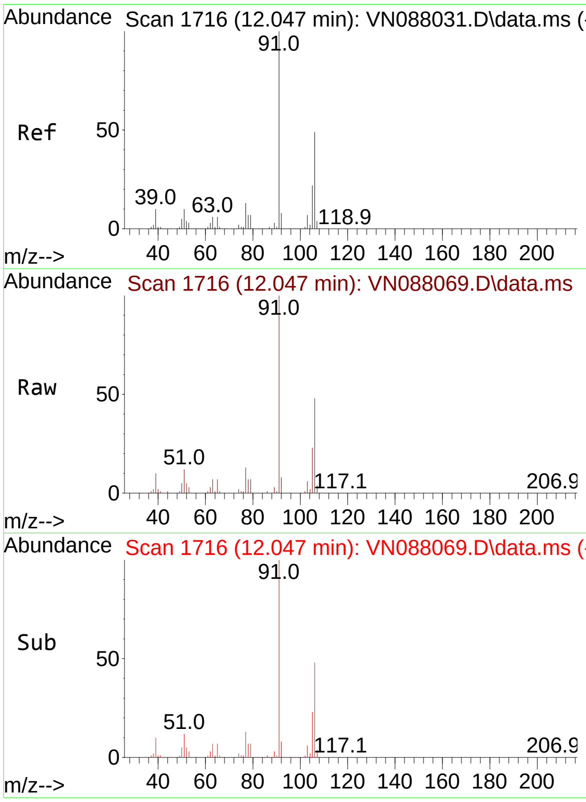
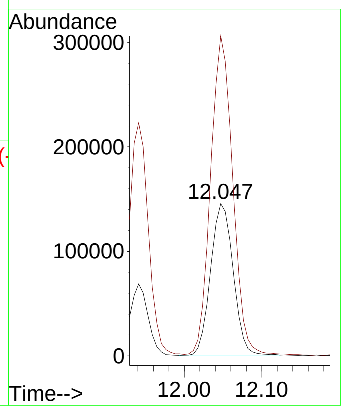
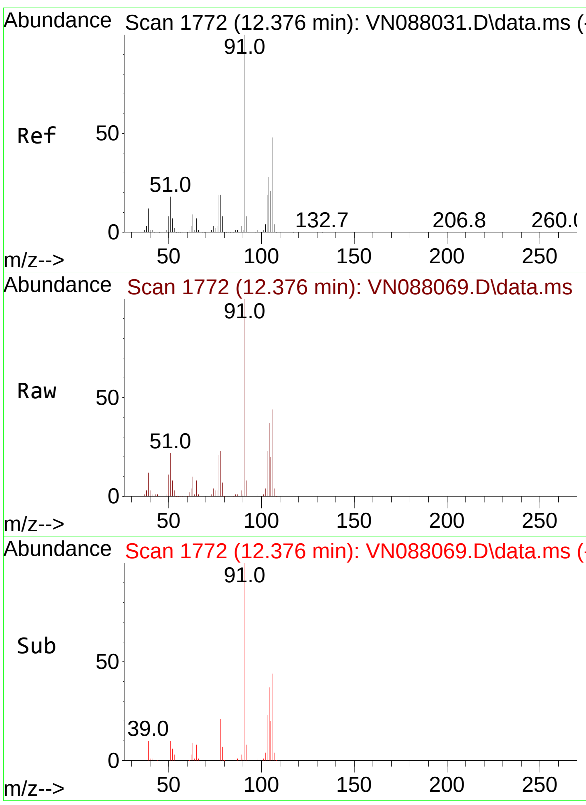
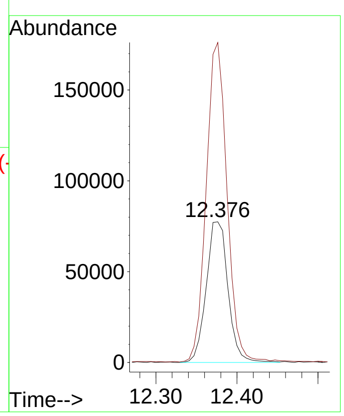


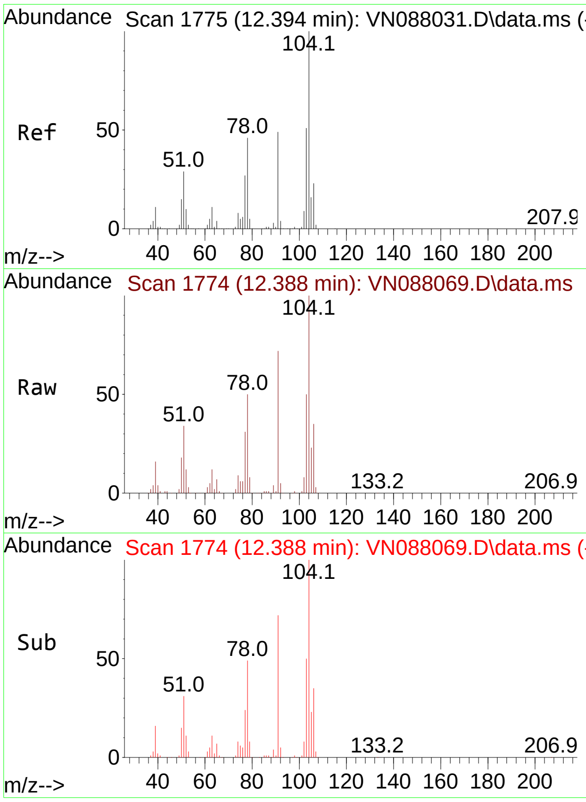

```
#67
m/p-Xylenes
Concen:   39.456 ug/l
RT:  12.047 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion:106 Resp:  29767
Ion  Ratio  Lower  Upper
106  100
 91  205.8  161.4  242.0
```






```
#68
o-Xylene
Concen:   19.283 ug/l
RT:  12.376 min  Scan# 1772
Delta R.T.  0.000 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion:106 Resp:  144826
Ion  Ratio  Lower  Upper
106  100
 91  215.3  105.2  315.6
```

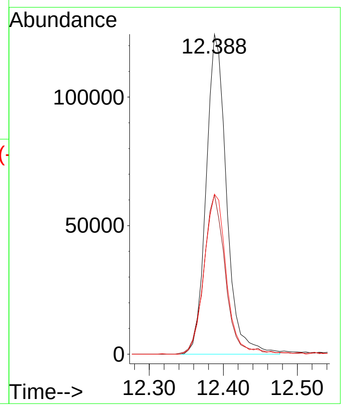




#69
Styrene
Concen: 19.211 ug/l
RT: 12.388 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:104 Resp: 23867

Ion	Ratio	Lower	Upper
104	100		
78	51.8	41.8	62.6
103	53.4	44.9	67.3



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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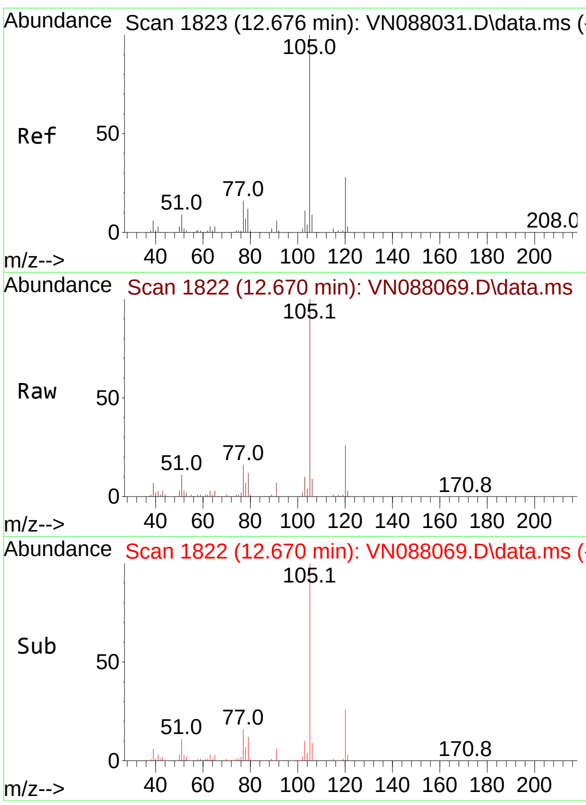
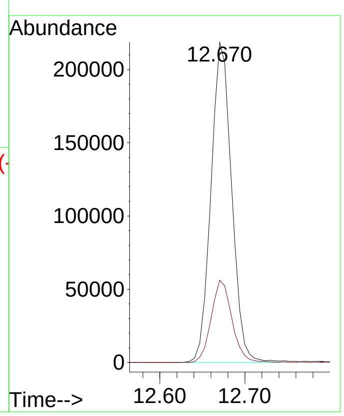


#70
Isopropylbenzene
Concen: 20.113 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:105 Resp: 370230

Ion	Ratio	Lower	Upper
105	100		
120	25.8	19.1	35.5



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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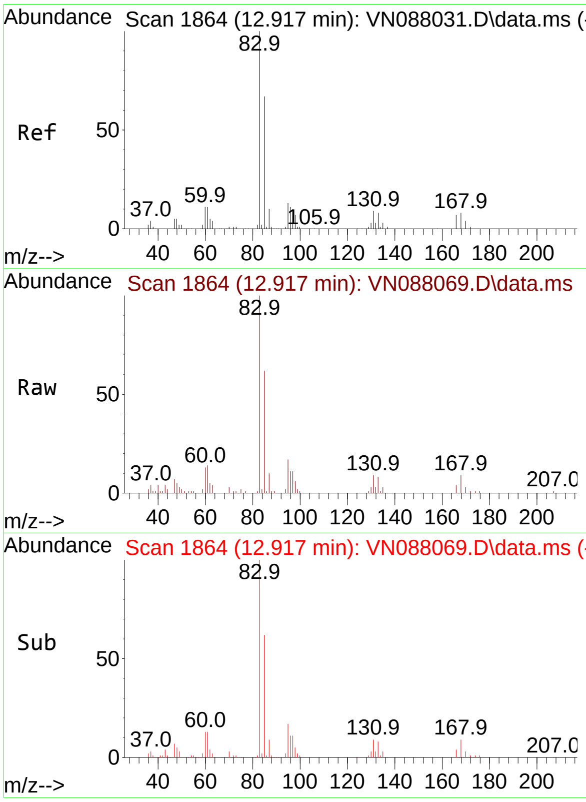
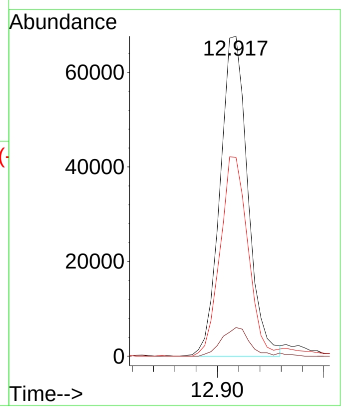
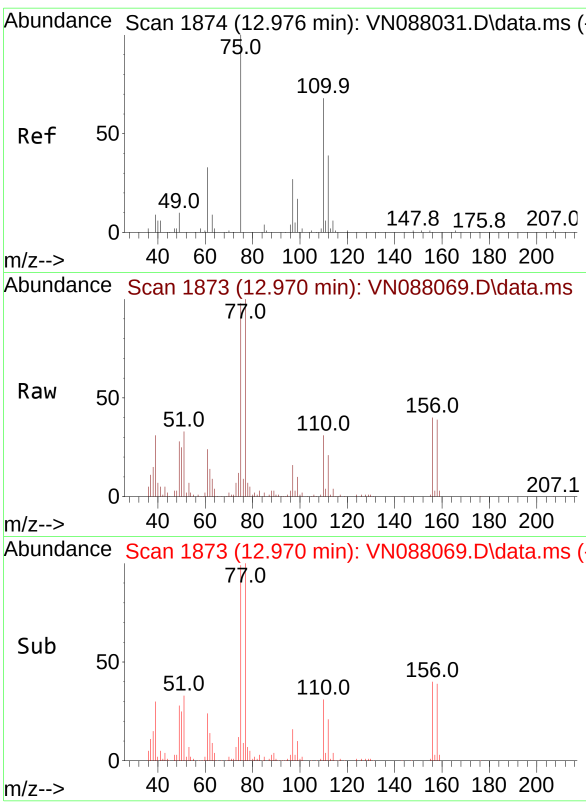
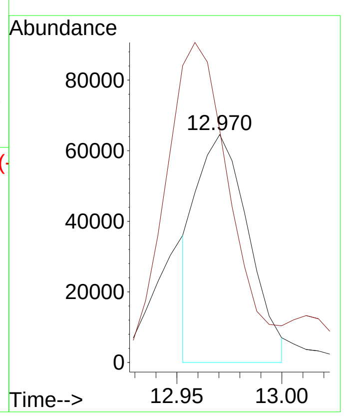



```
#71
1,1,2,2-Tetrachloroethane
Concen:   19.604 ug/l
RT:  12.917 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion: 83 Resp:  12234
Ion  Ratio  Lower  Upper
 83  100
131    9.0    4.8   14.3
 85   62.3   32.4   97.2
```






```
#72
1,2,3-Trichloropropane
Concen:   19.315 ug/l m
RT:  12.970 min  Scan# 1873
Delta R.T.  -0.006 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion: 75 Resp:  111947
Ion  Ratio  Lower  Upper
 75  100
 77  174.4    0.0  364.0
```



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

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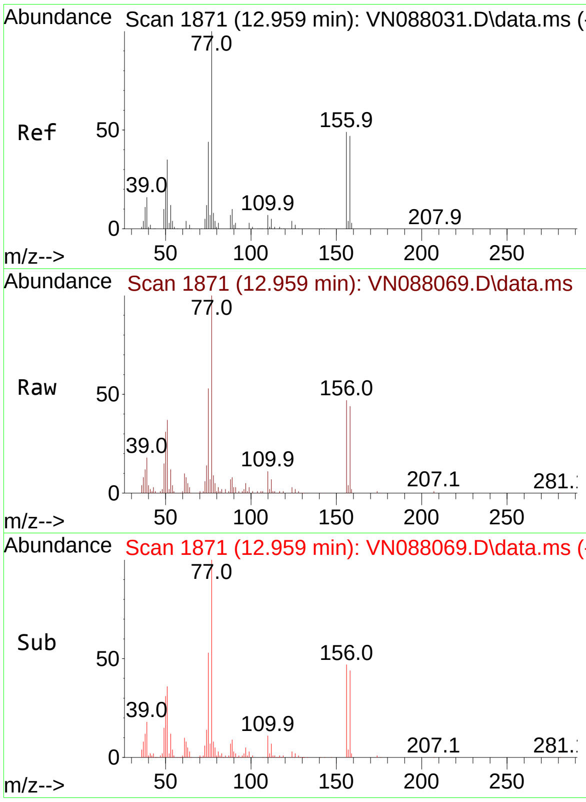
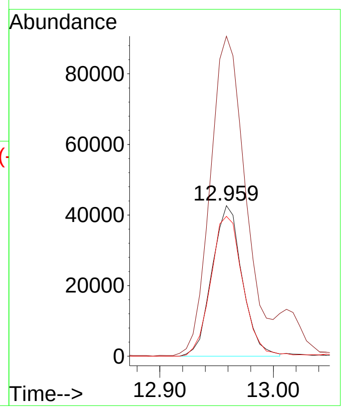
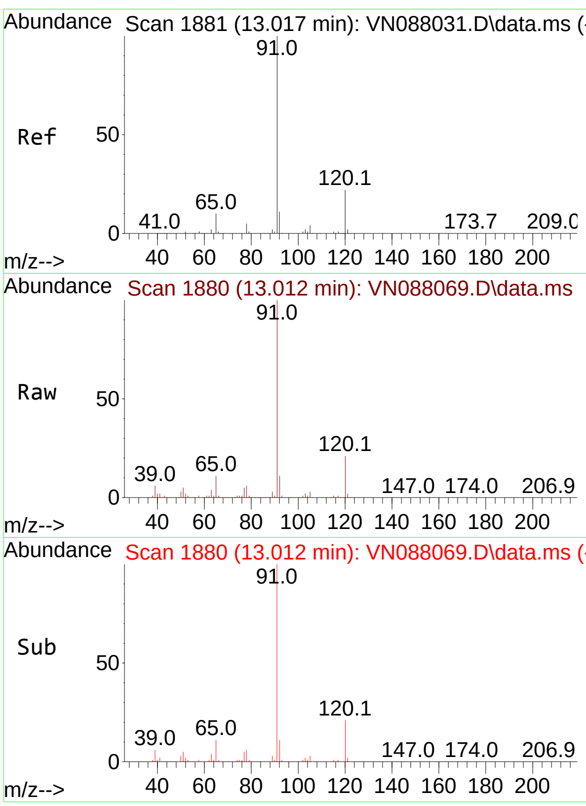
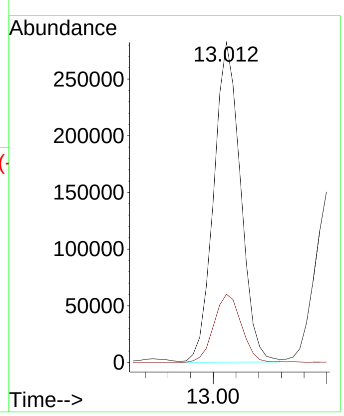


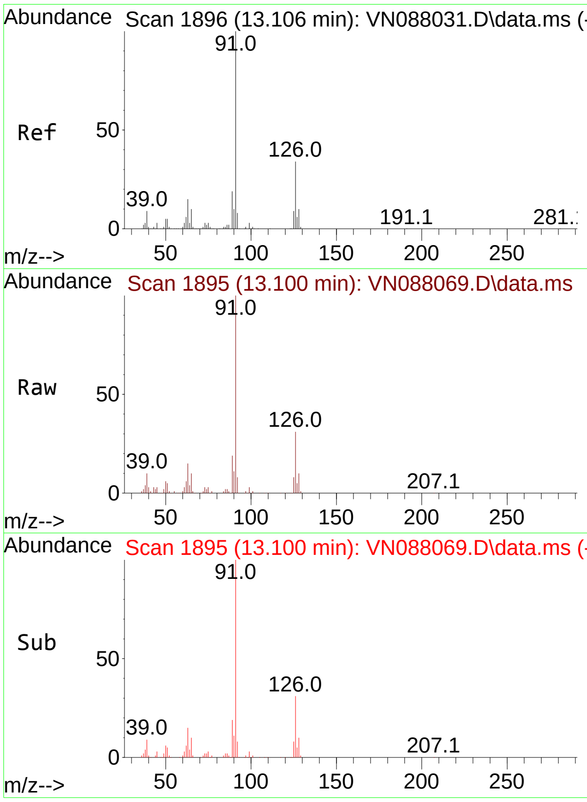

```
#73
Bromobenzene
Concen:   17.581 ug/l
RT:  12.959 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion:156 Resp:   7909
Ion  Ratio  Lower  Upper
156  100
 77  246.9    0.0  439.8
158   98.0    0.0  190.0
```






```
#74
n-propylbenzene
Concen:   20.866 ug/l
RT:  13.012 min  Scan# 1880
Delta R.T.  -0.006 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion: 91 Resp:  463682
Ion  Ratio  Lower  Upper
 91  100
120   21.9    0.0   46.2
```





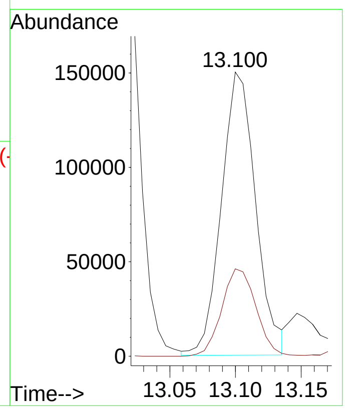
#75
2-Chlorotoluene
Concen: 19.992 ug/l
RT: 13.100 min Scan# 1[illegible]
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

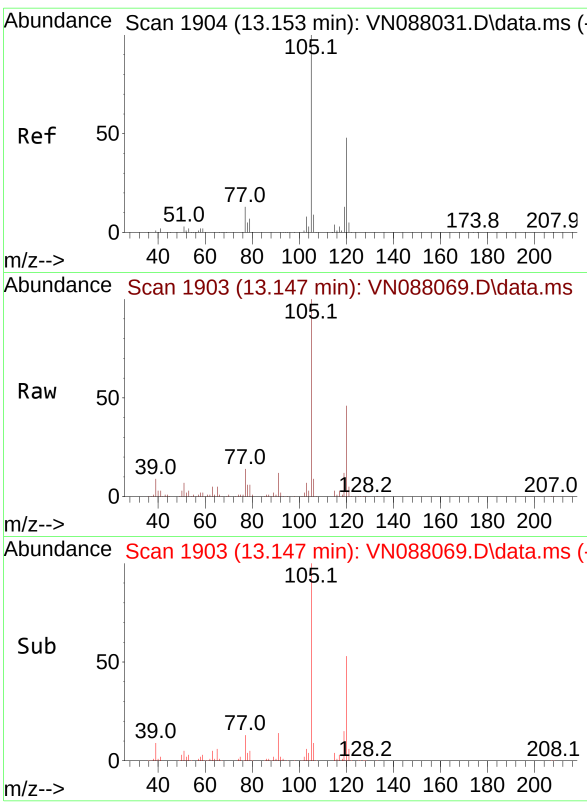
Tgt Ion: 91 Resp: 27163[illegible]

Ion	Ratio	Lower	Upper
91	100		
126	31.0	0.0	66.6

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
APPROVED
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

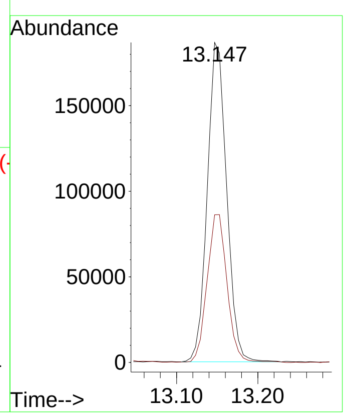


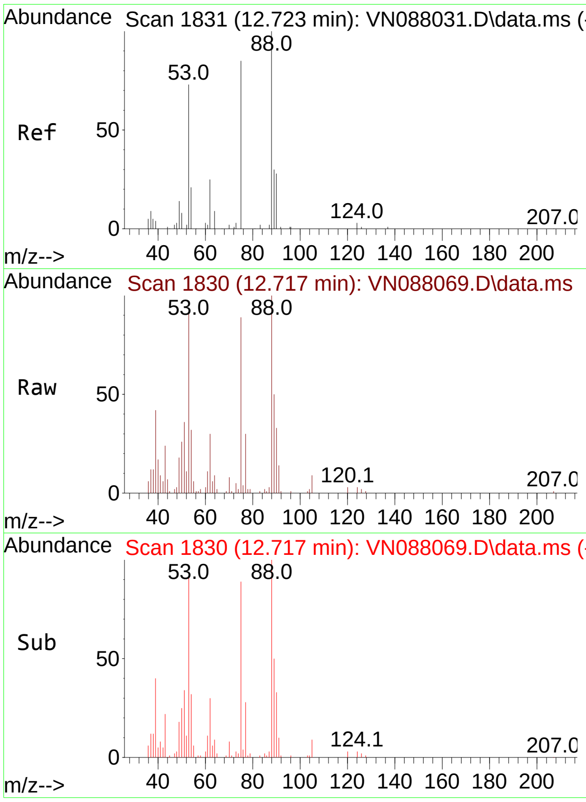


#76
1,3,5-Trimethylbenzene
Concen: 19.713 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:105 Resp: 308237

Ion	Ratio	Lower	Upper
105	100		
120	47.2	0.0	100.6





#77
t-1,4-Dichloro-2-butene
Concen: 17.124 ug/l
RT: 12.717 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

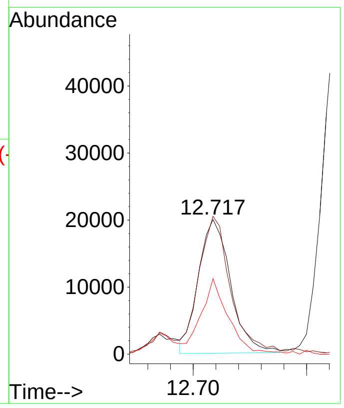
Tgt Ion: 75 Resp: 3955

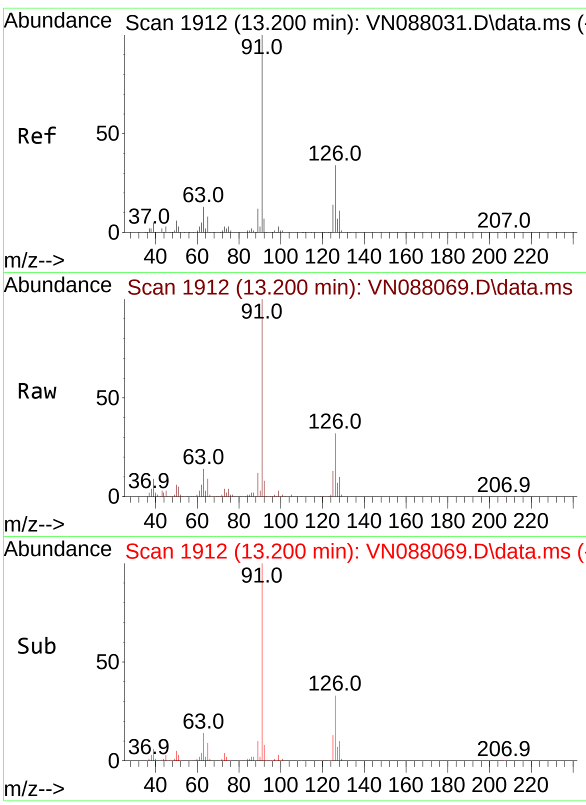
Ion	Ratio	Lower	Upper
75	100		
53	102.4	41.8	125.3
89	56.0	19.9	59.6

Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

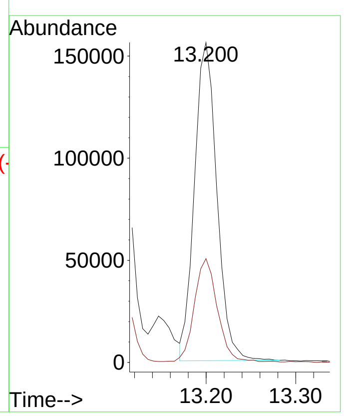




#78
4-Chlorotoluene
Concen: 19.625 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 91 Resp: 270907

Ion	Ratio	Lower	Upper
91	100		
126	33.7	0.0	68.8



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations
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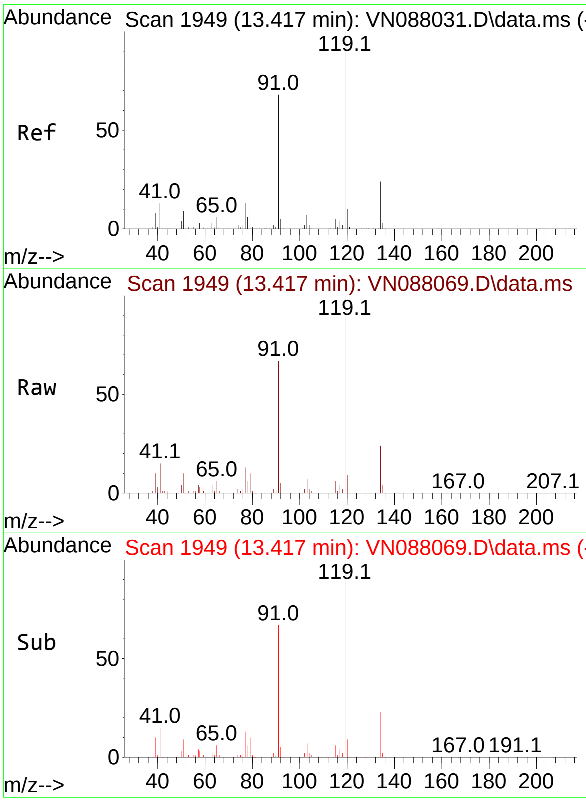
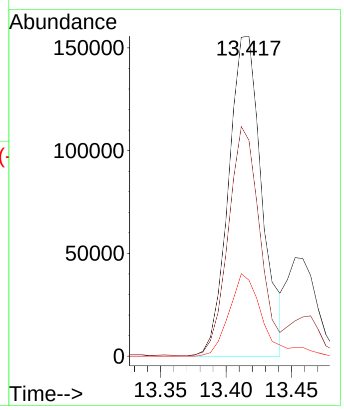
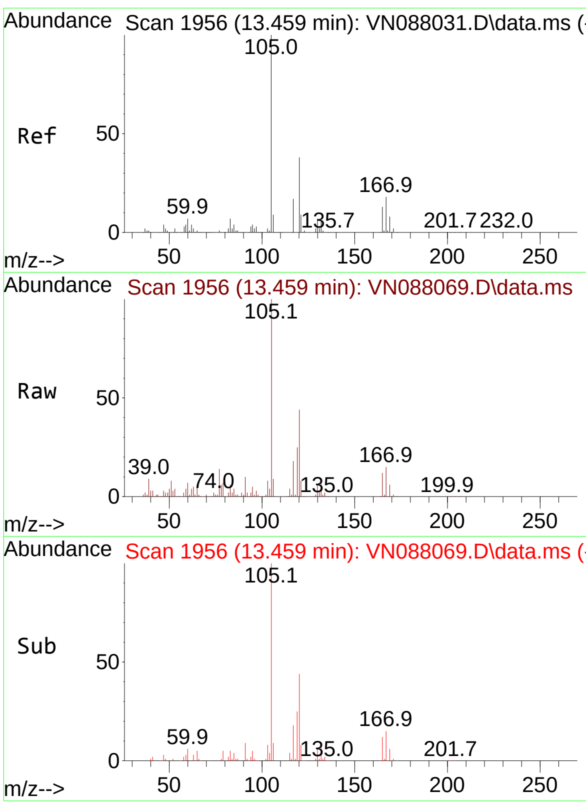
Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

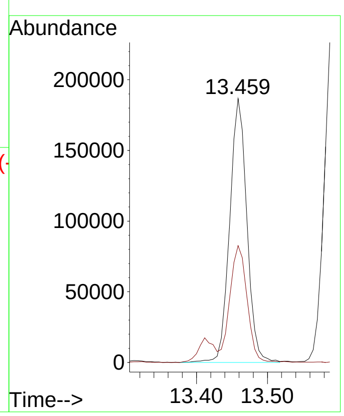



```
#79
tert-butylbenzene
Concen:   20.386 ug/l
RT:  13.417 min   Scan# 1
Delta R.T.   0.000 min
Lab File:    VN088069.D
Acq: 17 Oct 2025   16:00

Tgt Ion:119 Resp:   27633
Ion   Ratio   Lower   Upper
119   100
 91    67.4     0.0   132.4
134    24.5     0.0    48.6
```





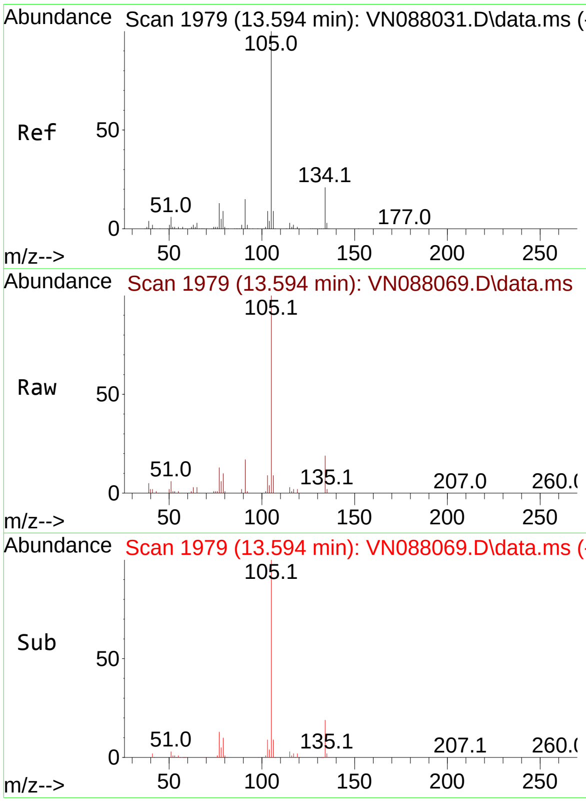

```
#80
1,2,4-Trimethylbenzene
Concen:   20.136 ug/l
RT:  13.459 min   Scan# 1956
Delta R.T.   0.000 min
Lab File:    VN088069.D
Acq: 17 Oct 2025   16:00

Tgt Ion:105 Resp:   315198
Ion   Ratio   Lower   Upper
105   100
120    44.1     0.0    93.8
```



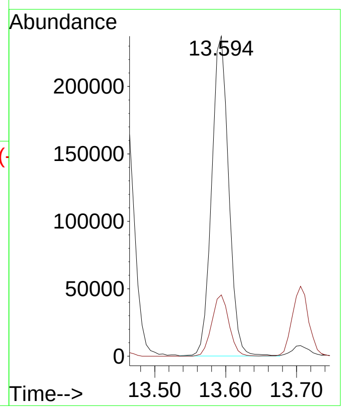
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

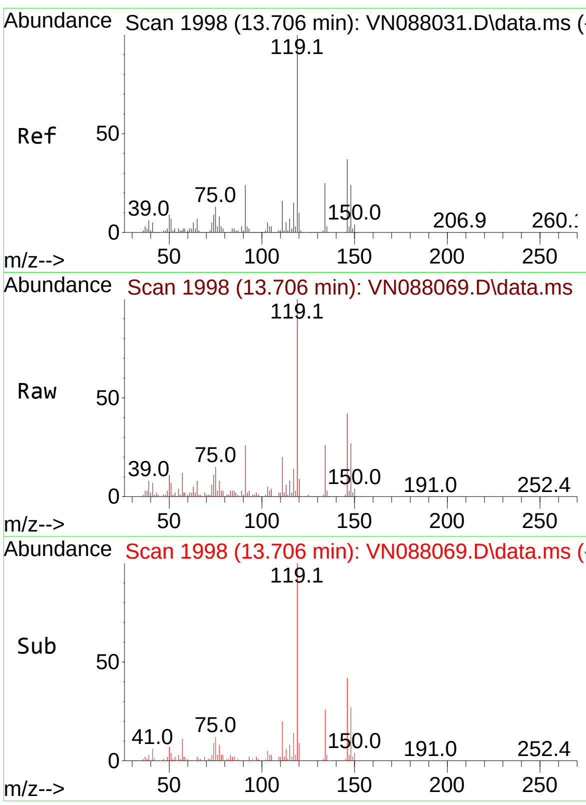
Manual Integrations
APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

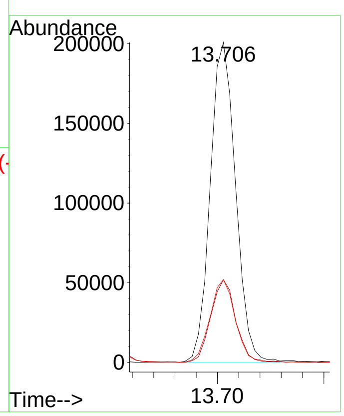


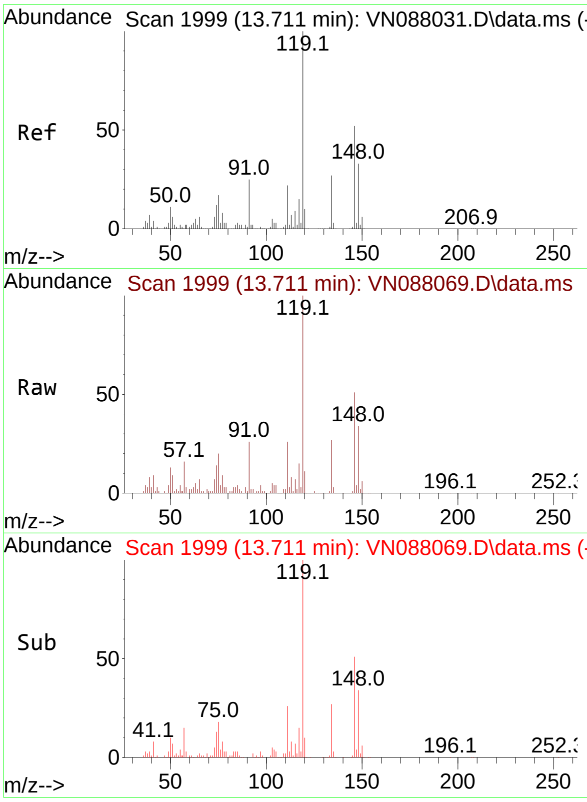

```
#81
sec-Butylbenzene
Concen:   20.810 ug/l
RT:  13.594 min  Scan# 1
Delta R.T.  0.000 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion:105 Resp:  39660
Ion  Ratio  Lower  Upper
105  100
134   19.3    0.0   41.2
```






```
#82
p-Isopropyltoluene
Concen:   20.469 ug/l
RT:  13.706 min  Scan# 1998
Delta R.T.  0.000 min
Lab File:   VN088069.D
Acq: 17 Oct 2025  16:00

Tgt Ion:119 Resp:  333050
Ion  Ratio  Lower  Upper
119  100
134   25.0    0.0   52.6
 91   25.5    0.0   48.2
```





#83
1,3-Dichlorobenzene
Concen: 18.735 ug/l
RT: 13.711 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

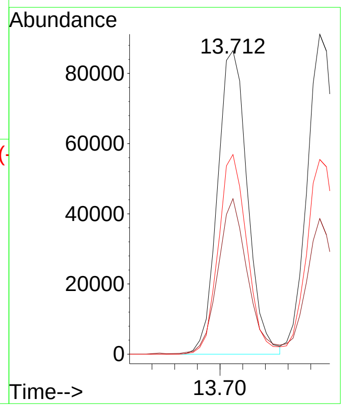
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

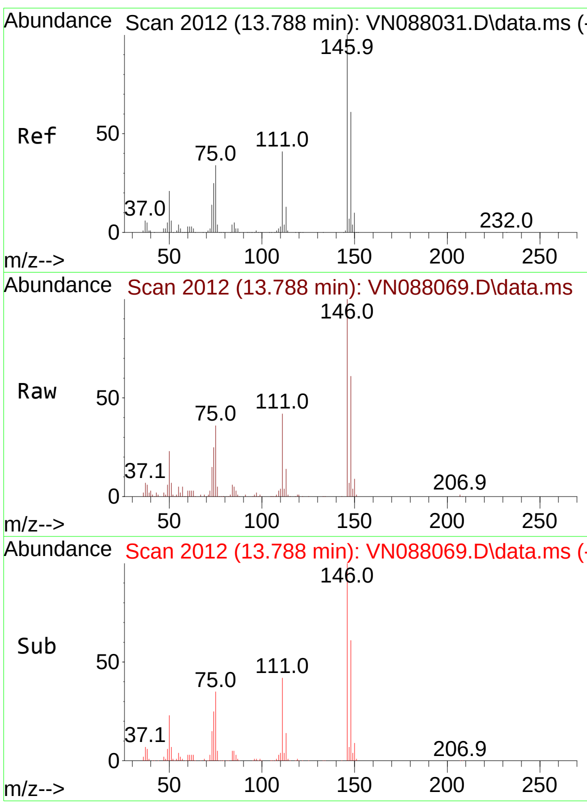
Tgt Ion:146 Resp: 15859

Ion	Ratio	Lower	Upper
146	100		
111	50.3	21.1	63.1
148	63.2	31.5	94.5

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

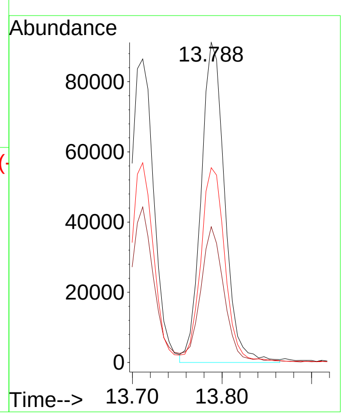


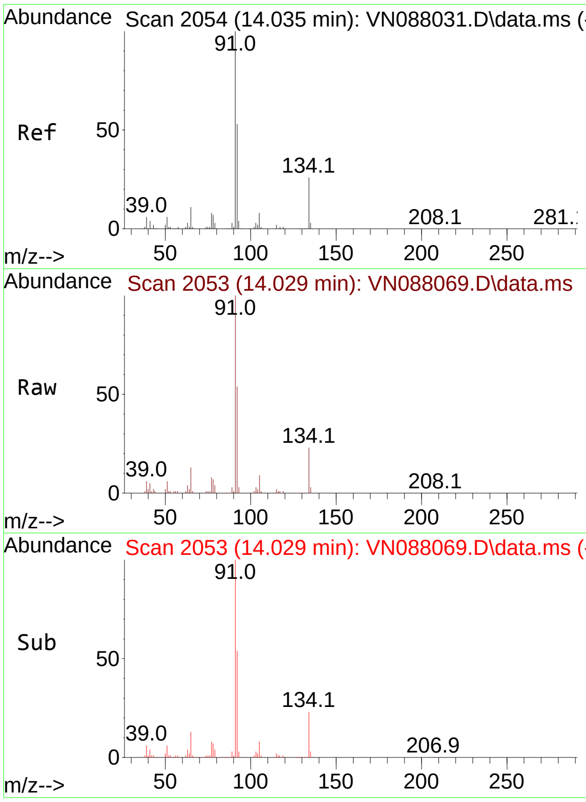


#84
1,4-Dichlorobenzene
Concen: 19.131 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:146 Resp: 167018

Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.5	61.6
148	62.6	31.9	95.9

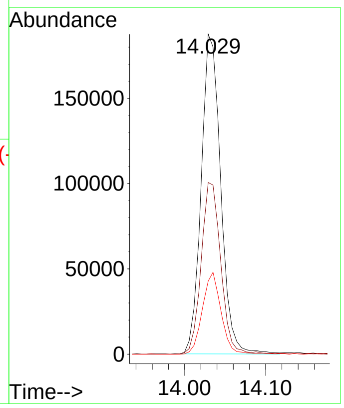




#85
n-Butylbenzene
Concen: 20.734 ug/l
RT: 14.029 min Scan# 2(
Delta R.T.   -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 91 Resp: 31386

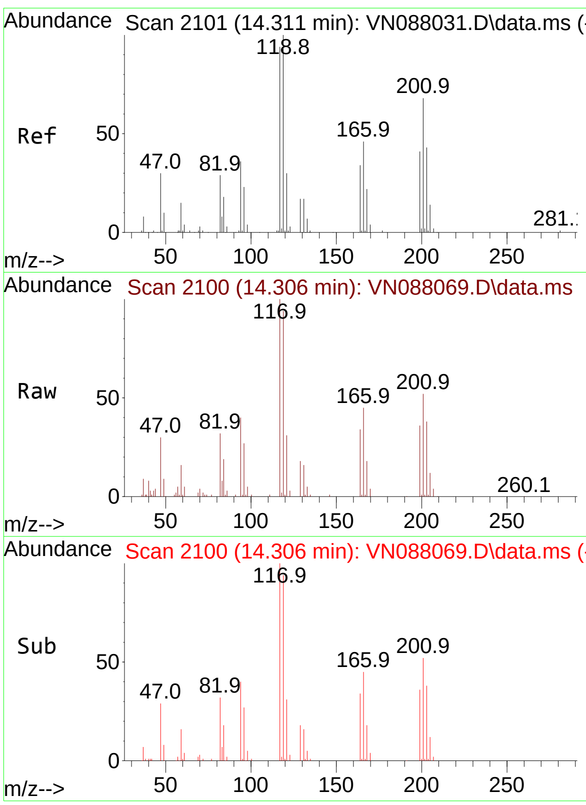
Ion	Ratio	Lower	Upper
91	100		
92	53.5	0.0	107.6
134	24.2	0.0	52.6



Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

Manual Integrations APPROVED

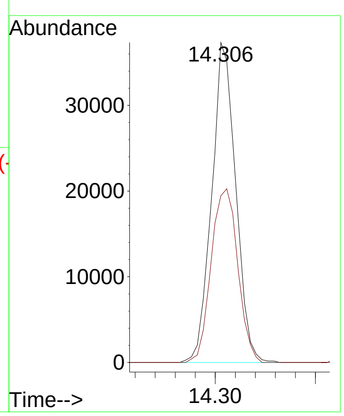
Reviewed By :John Carlone   10/20/2025
Supervised By :Mahesh Dadoda   10/20/2025

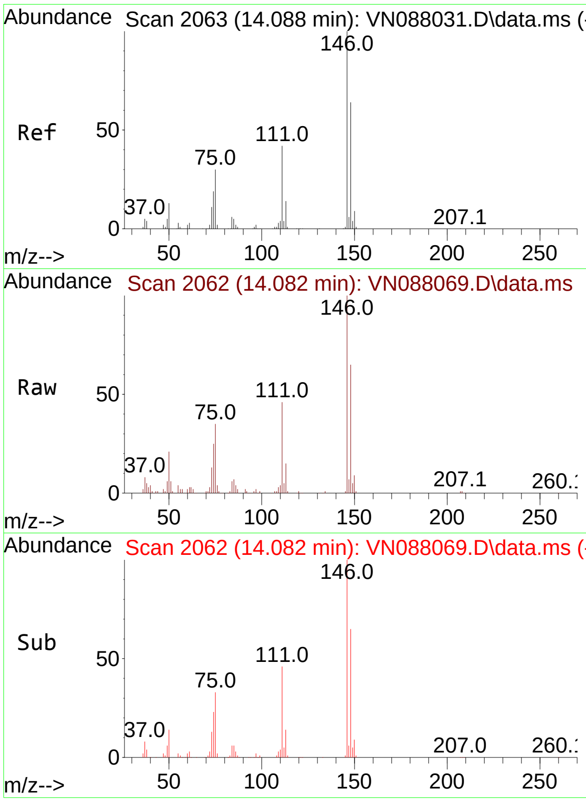


#86
Hexachloroethane
Concen: 19.070 ug/l
RT: 14.306 min Scan# 2100
Delta R.T.   -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:117 Resp: 62160

Ion	Ratio	Lower	Upper
117	100		
201	60.2	34.8	104.3





#87
1,2-Dichlorobenzene
Concen: 18.228 ug/l
RT: 14.082 min Scan# 2(
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

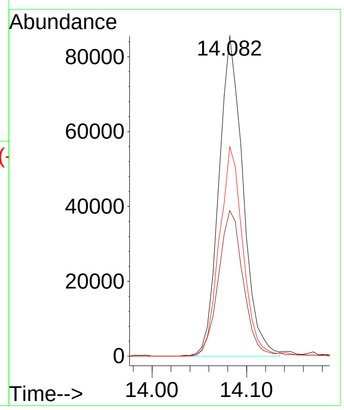
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

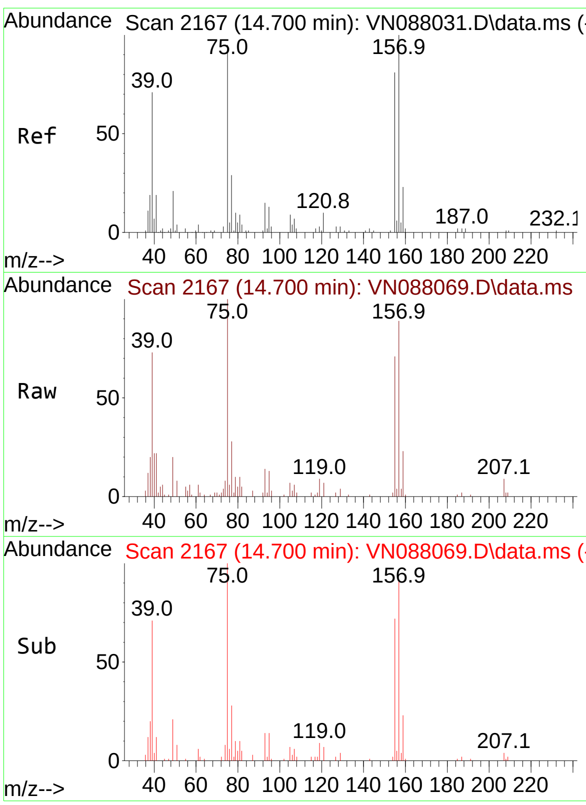
Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

Tgt Ion:146 Resp: 15177

Ion	Ratio	Lower	Upper
146	100		
111	46.1	22.3	66.8
148	64.0	31.4	94.3

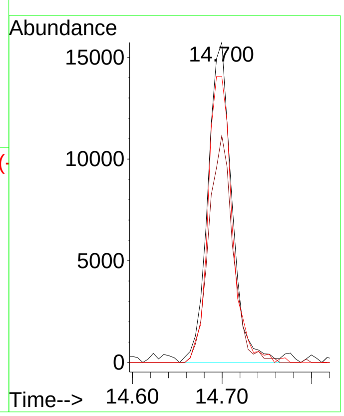


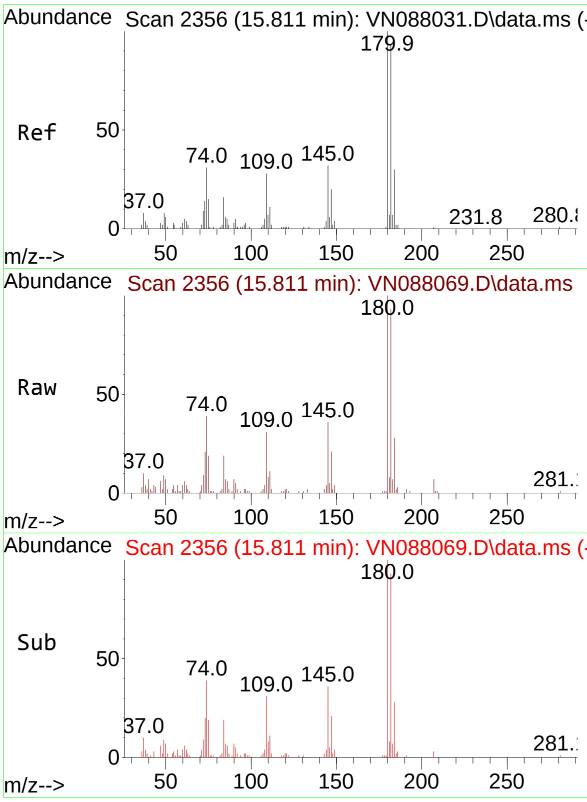


#88
1,2-Dibromo-3-Chloropropane
Concen: 20.509 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion: 75 Resp: 29396

Ion	Ratio	Lower	Upper
75	100		
155	70.3	63.5	95.3
157	89.6	81.7	122.5





#89
1,2,4-Trichlorobenzene
Concen: 17.293 ug/l
RT: 15.811 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

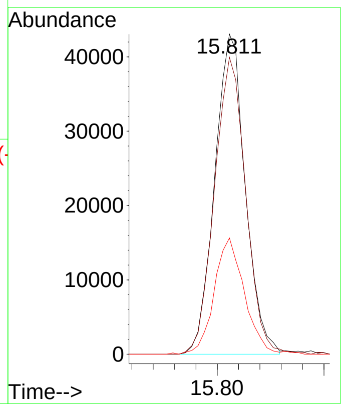
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

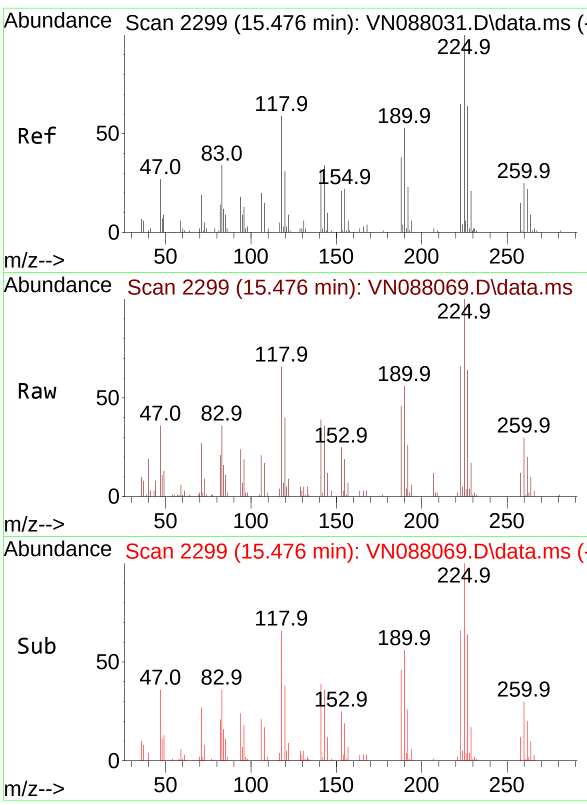
Tgt Ion:180 Resp: 8576

Ion	Ratio	Lower	Upper
180	100		
182	95.0	74.6	112.0
145	35.6	27.2	40.8

Manual Integrations APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025

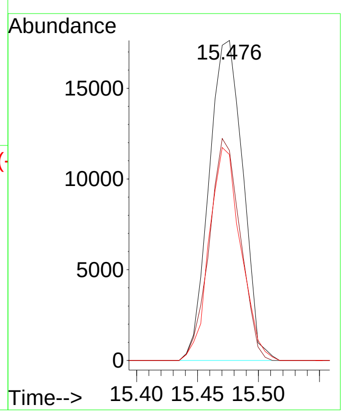


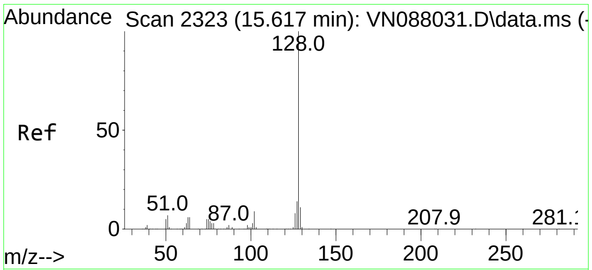


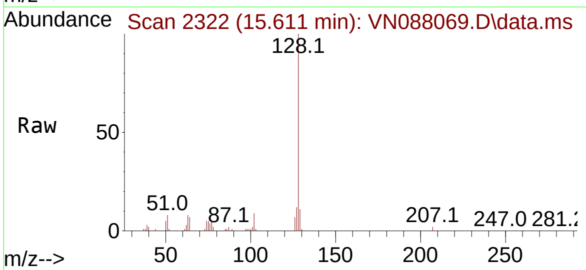
#90
Hexachlorobutadiene
Concen: 19.741 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

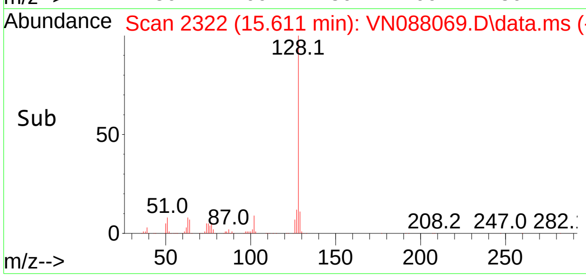
Tgt Ion:225 Resp: 34075

Ion	Ratio	Lower	Upper
225	100		
223	63.7	0.0	129.6
227	62.0	0.0	132.2









#91
Naphthalene
Concen: 17.985 ug/l
RT: 15.611 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

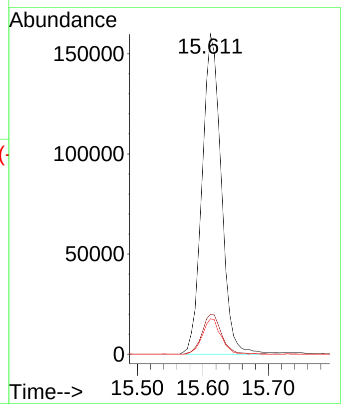
Instrument :
MSVOA_N
ClientSampleId :
EFF-WWMSD

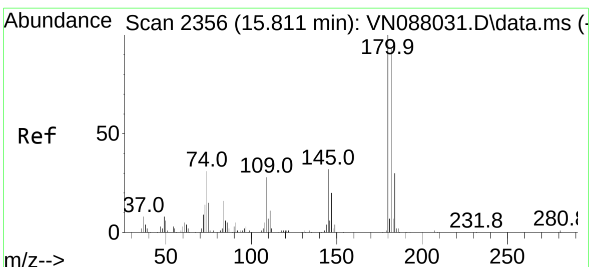
Tgt Ion:128 Resp: 32656

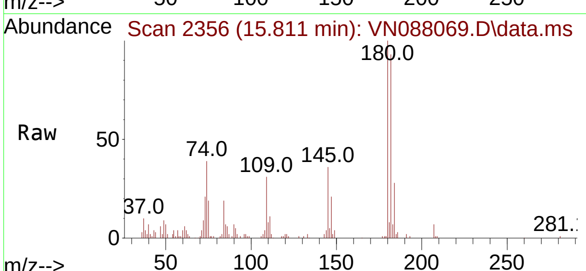
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.6	8.6	13.0

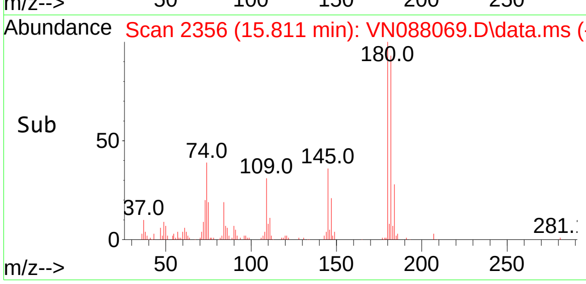
Manual Integrations
APPROVED

Reviewed By :John Carlone 10/20/2025
Supervised By :Mahesh Dadoda 10/20/2025





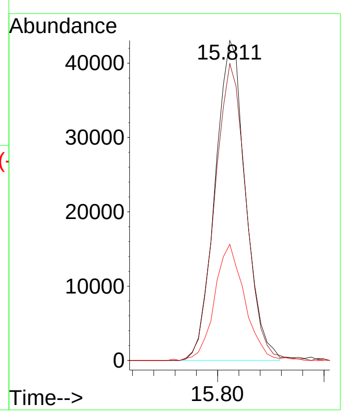




#92
1,2,3-Trichlorobenzene
Concen: 17.293 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088069.D
Acq: 17 Oct 2025 16:00

Tgt Ion:180 Resp: 85763

Ion	Ratio	Lower	Upper
180	100		
182	95.0	0.0	186.6
145	35.6	0.0	68.0



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

Manual Integration Report

Sequence:	vn100825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VN088030.D	1,2,3-Trichloropropane	JOHN	10/9/2025 12:47:30 PM	MMdadoda	10/10/2025 4:40:11 AM	Peak Integrated by Software
VSTDICC005	VN088030.D	2,2-Dichloropropane	JOHN	10/9/2025 12:47:30 PM	MMdadoda	10/10/2025 4:40:11 AM	Peak Integrated by Software
VSTDICC005	VN088030.D	Acetone	JOHN	10/9/2025 12:47:30 PM	MMdadoda	10/10/2025 4:40:11 AM	Peak Integrated by Software
VSTDICC005	VN088030.D	Allyl chloride	JOHN	10/9/2025 12:47:30 PM	MMdadoda	10/10/2025 4:40:11 AM	Peak Integrated by Software
VSTDICC005	VN088030.D	Methyl Acetate	JOHN	10/9/2025 12:47:30 PM	MMdadoda	10/10/2025 4:40:11 AM	Peak Integrated by Software
VSTDICC005	VN088030.D	Methyl Iodide	JOHN	10/9/2025 12:47:30 PM	MMdadoda	10/10/2025 4:40:11 AM	Peak Integrated by Software
VSTDICC005	VN088030.D	Methylene Chloride	JOHN	10/9/2025 12:47:30 PM	MMdadoda	10/10/2025 4:40:11 AM	Peak Integrated by Software
VSTDICC005	VN088030.D	n-amyl Acetate	JOHN	10/9/2025 12:47:30 PM	MMdadoda	10/10/2025 4:40:11 AM	Peak Integrated by Software
VSTDICC005	VN088030.D	t-1,4-Dichloro-2-butene	JOHN	10/9/2025 12:47:30 PM	MMdadoda	10/10/2025 4:40:11 AM	Peak Integrated by Software
VSTDICCC020	VN088031.D	1,2,3-Trichloropropane	JOHN	10/9/2025 12:47:35 PM	MMdadoda	10/10/2025 4:40:17 AM	Peak Integrated by Software
VSTDICCC020	VN088031.D	n-amyl Acetate	JOHN	10/9/2025 12:47:35 PM	MMdadoda	10/10/2025 4:40:17 AM	Peak Integrated by Software
VSTDICC050	VN088032.D	1,2,3-Trichloropropane	JOHN	10/9/2025 12:47:40 PM	MMdadoda	10/10/2025 4:40:22 AM	Peak Integrated by Software
VSTDICC050	VN088032.D	n-amyl Acetate	JOHN	10/9/2025 12:47:40 PM	MMdadoda	10/10/2025 4:40:22 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn100825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN088033.D	1,2,3-Trichloropropane	JOHN	10/9/2025 12:47:45 PM	MMdadoda	10/10/2025 4:40:26 AM	Peak Integrated by Software
VSTDICC100	VN088033.D	Methyl Acetate	JOHN	10/9/2025 12:47:45 PM	MMdadoda	10/10/2025 4:40:26 AM	Peak Integrated by Software
VSTDICC150	VN088034.D	1,2,3-Trichloropropane	JOHN	10/9/2025 12:47:50 PM	MMdadoda	10/10/2025 4:40:32 AM	Peak Integrated by Software
VSTDICV020	VN088036.D	1,2,3-Trichloropropane	JOHN	10/9/2025 12:47:54 PM	MMdadoda	10/10/2025 4:40:37 AM	Peak Integrated by Software
VSTDICV020	VN088036.D	Acetone	JOHN	10/9/2025 12:47:54 PM	MMdadoda	10/10/2025 4:40:37 AM	Peak Integrated by Software
VSTDICV020	VN088036.D	n-amyl Acetate	JOHN	10/9/2025 12:47:54 PM	MMdadoda	10/10/2025 4:40:37 AM	Peak Integrated by Software
VSTDCCC020	VN088046.D	1,2,3-Trichloropropane	JOHN	10/9/2025 12:48:29 PM	MMdadoda	10/10/2025 4:41:14 AM	Peak Integrated by Software
VSTDCCC020	VN088046.D	n-amyl Acetate	JOHN	10/9/2025 12:48:29 PM	MMdadoda	10/10/2025 4:41:14 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN101725	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN088055.D	1,1,2-Trichlorotrifluoroethane	JOHN	10/20/2025 8:10:50 AM	MMDadoda	10/20/2025 3:55:28 PM	Peak Integrated by Software
VSTDCCC020	VN088055.D	1,2,3-Trichloropropane	JOHN	10/20/2025 8:10:50 AM	MMDadoda	10/20/2025 3:55:28 PM	Peak Integrated by Software
VSTDCCC020	VN088055.D	Ethyl Acetate	JOHN	10/20/2025 8:10:50 AM	MMDadoda	10/20/2025 3:55:28 PM	Peak Integrated by Software
VSTDCCC020	VN088055.D	Methyl methacrylate	JOHN	10/20/2025 8:10:50 AM	MMDadoda	10/20/2025 3:55:28 PM	Peak Integrated by Software
VSTDCCC020	VN088055.D	n-amyl Acetate	JOHN	10/20/2025 8:10:50 AM	MMDadoda	10/20/2025 3:55:28 PM	Peak Integrated by Software
VSTDCCC020	VN088055.D	t-1,4-Dichloro-2-butene	JOHN	10/20/2025 8:10:50 AM	MMDadoda	10/20/2025 3:55:28 PM	Peak Integrated by Software
VN1017WBS01	VN088056.D	1,2,3-Trichloropropane	JOHN	10/20/2025 8:10:54 AM	MMDadoda	10/20/2025 3:55:31 PM	Peak Integrated by Software
VN1017WBS01	VN088056.D	n-amyl Acetate	JOHN	10/20/2025 8:10:54 AM	MMDadoda	10/20/2025 3:55:31 PM	Peak Integrated by Software
VN1017WBS01	VN088056.D	Vinyl Acetate	JOHN	10/20/2025 8:10:54 AM	MMDadoda	10/20/2025 3:55:31 PM	Peak Integrated by Software
Q3385-02MS	VN088068.D	1,2,3-Trichloropropane	JOHN	10/20/2025 8:11:15 AM	MMDadoda	10/20/2025 3:56:24 PM	Peak Integrated by Software
Q3385-02MS	VN088068.D	Methyl Acetate	JOHN	10/20/2025 8:11:15 AM	MMDadoda	10/20/2025 3:56:24 PM	Peak Integrated by Software
Q3385-02MS	VN088068.D	n-amyl Acetate	JOHN	10/20/2025 8:11:15 AM	MMDadoda	10/20/2025 3:56:24 PM	Peak Integrated by Software
Q3385-02MS	VN088068.D	Vinyl Acetate	JOHN	10/20/2025 8:11:15 AM	MMDadoda	10/20/2025 3:56:24 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN101725	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3385-03MSD	VN088069.D	1,2,3-Trichloropropane	JOHN	10/20/2025 8:11:19 AM	MMDadoda	10/20/2025 3:56:27 PM	Peak Integrated by Software
Q3385-03MSD	VN088069.D	n-amyl Acetate	JOHN	10/20/2025 8:11:19 AM	MMDadoda	10/20/2025 3:56:27 PM	Peak Integrated by Software
VSTDCCC020	VN088070.D	1,2,3-Trichloropropane	JOHN	10/20/2025 8:11:23 AM	MMDadoda	10/20/2025 3:56:31 PM	Peak Integrated by Software
VSTDCCC020	VN088070.D	n-amyl Acetate	JOHN	10/20/2025 8:11:23 AM	MMDadoda	10/20/2025 3:56:31 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN102025	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN088072.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:02:32 AM	sam	10/21/2025 10:39:02 AM	Peak Integrated by Software
VSTDCCC020	VN088072.D	n-amyl Acetate	JOHN	10/21/2025 8:02:32 AM	sam	10/21/2025 10:39:02 AM	Peak Integrated by Software
VN1020WBS01	VN088073.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:02:36 AM	sam	10/21/2025 10:39:07 AM	Peak Integrated by Software
VN1020WBS01	VN088073.D	n-amyl Acetate	JOHN	10/21/2025 8:02:36 AM	sam	10/21/2025 10:39:07 AM	Peak Integrated by Software

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN100825

Review By	John Carlone	Review On	10/9/2025 1:01:25 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 4:41:25 AM		
SubDirectory	VN100825	HP Acquire Method		HP Processing Method	624N100825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135778
Initial Calibration Stds	VP135780,VP135781,VP135782,VP135783,VP135784
CCC	VP135779,VP135796,VP135797
Internal Standard/PEM	
ICV/I.BLK	VP135785
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088029.D	08 Oct 2025 09:00	JC\MD	Ok
2	VSTDICC005	VN088030.D	08 Oct 2025 09:34	JC\MD	Ok,M
3	VSTDICCC020	VN088031.D	08 Oct 2025 10:08	JC\MD	Ok,M
4	VSTDICC050	VN088032.D	08 Oct 2025 10:30	JC\MD	Ok,M
5	VSTDICC100	VN088033.D	08 Oct 2025 10:51	JC\MD	Ok,M
6	VSTDICC150	VN088034.D	08 Oct 2025 11:12	JC\MD	Ok,M
7	IBLK	VN088035.D	08 Oct 2025 11:33	JC\MD	Ok
8	VSTDICV020	VN088036.D	08 Oct 2025 12:52	JC\MD	Ok,M
9	VN1008WBS01	VN088037.D	08 Oct 2025 13:25	JC\MD	Ok,M
10	VN1008WBSD01	VN088038.D	08 Oct 2025 13:59	JC\MD	Ok,M
11	VN1008WBL01	VN088039.D	08 Oct 2025 14:20	JC\MD	Ok
12	Q3015-02	VN088040.D	08 Oct 2025 14:59	JC\MD	Ok,NR
13	IBLK	VN088041.D	08 Oct 2025 15:20	JC\MD	Ok
14	Q2893-07 2.5PPB	VN088042.D	08 Oct 2025 15:41	JC\MD	Ok,M
15	Q2893-08 5.0PPB	VN088043.D	08 Oct 2025 16:02	JC\MD	Ok,M
16	Q3281-01	VN088044.D	08 Oct 2025 16:23	JC\MD	Ok,M
17	Q3281-02	VN088045.D	08 Oct 2025 16:44	JC\MD	Ok,M
18	VSTDCCC020	VN088046.D	08 Oct 2025 17:05	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN101725

Review By	John Carlone	Review On	10/20/2025 8:16:05 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/20/2025 3:56:38 PM		
SubDirectory	VN101725	HP Acquire Method		HP Processing Method	624N100825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135826
Initial Calibration Stds	
CCC	VP135827,VP135828
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088054.D	17 Oct 2025 08:56	JC\MD	Ok
2	VSTDCCC020	VN088055.D	17 Oct 2025 09:29	JC\MD	Ok,M
3	VN1017WBS01	VN088056.D	17 Oct 2025 10:03	JC\MD	Ok,M
4	VN1017WBSD01	VN088057.D	17 Oct 2025 10:36	JC\MD	Ok,M
5	VN1017WBL01	VN088058.D	17 Oct 2025 10:56	JC\MD	Ok
6	Q3361-02	VN088059.D	17 Oct 2025 11:32	JC\MD	Ok
7	Q3362-02	VN088060.D	17 Oct 2025 11:53	JC\MD	Ok
8	Q3362-01	VN088061.D	17 Oct 2025 12:14	JC\MD	ReRun
9	Q3361-01	VN088062.D	17 Oct 2025 12:34	JC\MD	Ok,M
10	IBLK	VN088063.D	17 Oct 2025 12:55	JC\MD	Ok
11	IBLK	VN088064.D	17 Oct 2025 13:16	JC\MD	Ok
12	Q3362-01	VN088065.D	17 Oct 2025 13:36	JC\MD	Ok,M
13	IBLK	VN088066.D	17 Oct 2025 14:58	JC\MD	Ok
14	Q3385-01	VN088067.D	17 Oct 2025 15:18	JC\MD	ReRun
15	Q3385-02MS	VN088068.D	17 Oct 2025 15:39	JC\MD	Ok,M
16	Q3385-03MSD	VN088069.D	17 Oct 2025 16:00	JC\MD	Ok,M
17	VSTDCCC020	VN088070.D	17 Oct 2025 16:20	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102025

Review By	John Carlone	Review On	10/21/2025 8:03:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/21/2025 10:39:37 AM		
SubDirectory	VN102025	HP Acquire Method	MSVOA_N	HP Processing Method	624n100825w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135858
Initial Calibration Stds	
CCC	VP135859,VP135860
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088071.D	20 Oct 2025 08:17	JC\MD	Ok
2	VSTDCCC020	VN088072.D	20 Oct 2025 08:52	JC\MD	Ok,M
3	VN1020WBS01	VN088073.D	20 Oct 2025 09:26	JC\MD	Ok,M
4	VN1020WBSD01	VN088074.D	20 Oct 2025 09:59	JC\MD	Ok,M
5	VN1020WBL01	VN088075.D	20 Oct 2025 10:55	JC\MD	Ok
6	Q3385-01	VN088076.D	20 Oct 2025 11:31	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN100825

Review By	John Carlone	Review On	10/9/2025 1:01:25 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 4:41:25 AM		
SubDirectory	VN100825	HP Acquire Method		HP Processing Method	624N100825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135778
Initial Calibration Stds	VP135780,VP135781,VP135782,VP135783,VP135784
CCC	VP135779,VP135796,VP135797
Internal Standard/PEM	
ICV/I.BLK	VP135785
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088029.D	08 Oct 2025 09:00		JC\MD	Ok
2	VSTDICC005	VSTDICC005	VN088030.D	08 Oct 2025 09:34		JC\MD	Ok,M
3	VSTDICCC020	VSTDICCC020	VN088031.D	08 Oct 2025 10:08		JC\MD	Ok,M
4	VSTDICC050	VSTDICC050	VN088032.D	08 Oct 2025 10:30		JC\MD	Ok,M
5	VSTDICC100	VSTDICC100	VN088033.D	08 Oct 2025 10:51		JC\MD	Ok,M
6	VSTDICC150	VSTDICC150	VN088034.D	08 Oct 2025 11:12		JC\MD	Ok,M
7	IBLK	IBLK	VN088035.D	08 Oct 2025 11:33		JC\MD	Ok
8	VSTDICV020	ICVVN100825	VN088036.D	08 Oct 2025 12:52		JC\MD	Ok,M
9	VN1008WBS01	VN1008WBS01	VN088037.D	08 Oct 2025 13:25		JC\MD	Ok,M
10	VN1008WBSD01	VN1008WBSD01	VN088038.D	08 Oct 2025 13:59		JC\MD	Ok,M
11	VN1008WBL01	VN1008WBL01	VN088039.D	08 Oct 2025 14:20		JC\MD	Ok
12	Q3015-02	WP0925-PT-VOA-WP	VN088040.D	08 Oct 2025 14:59		JC\MD	Ok,NR
13	IBLK	IBLK	VN088041.D	08 Oct 2025 15:20		JC\MD	Ok
14	Q2893-07 2.5PPB	LOD-MDL-WATER-01-(	VN088042.D	08 Oct 2025 15:41		JC\MD	Ok,M
15	Q2893-08 5.0PPB	LOQ-WATER-02-QT3-2	VN088043.D	08 Oct 2025 16:02		JC\MD	Ok,M
16	Q3281-01	001-WILLETS-PT-BLVI	VN088044.D	08 Oct 2025 16:23	vial A pH<2	JC\MD	Ok,M
17	Q3281-02	002-35TH-AVE(OCT)	VN088045.D	08 Oct 2025 16:44	vial A pH<2	JC\MD	Ok,M
18	VSTDCCC020	VSTDCCC020EC	VN088046.D	08 Oct 2025 17:05		JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN100825

Review By	John Carlone	Review On	10/9/2025 1:01:25 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 4:41:25 AM		
SubDirectory	VN100825	HP Acquire Method		HP Processing Method	624N100825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135778
Initial Calibration Stds	VP135780,VP135781,VP135782,VP135783,VP135784
CCC	VP135779,VP135796,VP135797
Internal Standard/PEM	
ICV/I.BLK	VP135785
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN101725

Review By	John Carlone	Review On	10/20/2025 8:16:05 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/20/2025 3:56:38 PM		
SubDirectory	VN101725	HP Acquire Method		HP Processing Method	624N100825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135826
Initial Calibration Stds	
CCC	VP135827,VP135828
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088054.D	17 Oct 2025 08:56		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN088055.D	17 Oct 2025 09:29	pH#Lot#V12668	JC\MD	Ok,M
3	VN1017WBS01	VN1017WBS01	VN088056.D	17 Oct 2025 10:03		JC\MD	Ok,M
4	VN1017WBSD01	VN1017WBSD01	VN088057.D	17 Oct 2025 10:36		JC\MD	Ok,M
5	VN1017WBL01	VN1017WBL01	VN088058.D	17 Oct 2025 10:56		JC\MD	Ok
6	Q3361-02	Trip blank 251015076-0	VN088059.D	17 Oct 2025 11:32	vial A pH#6.0 TB	JC\MD	Ok
7	Q3362-02	Trip blank 251015076-0	VN088060.D	17 Oct 2025 11:53	vial A pH#6.0 TB	JC\MD	Ok
8	Q3362-01	VOA 251015085-01	VN088061.D	17 Oct 2025 12:14	vial A pH#6.0 Surrogate Fail	JC\MD	ReRun
9	Q3361-01	VOA 251015111-01	VN088062.D	17 Oct 2025 12:34	vial A pH#6.0	JC\MD	Ok,M
10	IBLK	IBLK	VN088063.D	17 Oct 2025 12:55		JC\MD	Ok
11	IBLK	IBLK	VN088064.D	17 Oct 2025 13:16		JC\MD	Ok
12	Q3362-01	VOA 251015085-01	VN088065.D	17 Oct 2025 13:36	vial B pH#6.0	JC\MD	Ok,M
13	IBLK	IBLK	VN088066.D	17 Oct 2025 14:58		JC\MD	Ok
14	Q3385-01	EFF-WW	VN088067.D	17 Oct 2025 15:18	vial A pH<2 Surrogate Fail	JC\MD	ReRun
15	Q3385-02MS	EFF-WWMS	VN088068.D	17 Oct 2025 15:39	vial A pH<2	JC\MD	Ok,M
16	Q3385-03MSD	EFF-WWMSD	VN088069.D	17 Oct 2025 16:00	vial A pH<2	JC\MD	Ok,M
17	VSTDCCC020	VSTDCCC020EC	VN088070.D	17 Oct 2025 16:20		JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102025

Review By	John Carlone	Review On	10/21/2025 8:03:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/21/2025 10:39:37 AM		
SubDirectory	VN102025	HP Acquire Method	MSVOA_N	HP Processing Method	624n100825w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135858
Initial Calibration Stds	
CCC	VP135859,VP135860
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088071.D	20 Oct 2025 08:17		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN088072.D	20 Oct 2025 08:52	pH#Lot#V12668	JC\MD	Ok,M
3	VN1020WBS01	VN1020WBS01	VN088073.D	20 Oct 2025 09:26		JC\MD	Ok,M
4	VN1020WBSD01	VN1020WBSD01	VN088074.D	20 Oct 2025 09:59		JC\MD	Ok,M
5	VN1020WBL01	VN1020WBL01	VN088075.D	20 Oct 2025 10:55		JC\MD	Ok
6	Q3385-01	EFF-WW	VN088076.D	20 Oct 2025 11:31	vial B pH<2	JC\MD	Ok

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Prep Standard - Chemical Standard Summary

Order ID : Q3385

Test : VOC-PP

Prepbatch ID :

Sequence ID/Qc Batch ID: VN101725,VN102025,

Standard ID :
VP134149,VP134691,VP134957,VP135552,VP135826,VP135827,VP135828,VP135834,VP135858,VP135859,VP135860,

Chemical ID :
V13391,V14200,V14204,V14205,V14509,V14510,V14531,V14532,V14580,V14625,V14629,V14636,V14637,V14638,V14639,V14727,V14728,V14803,V14815,V14844,V14885,V14928,V14929,V14951,V14952,V15073,V15074,V15075,W3112,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
466	624 Internal Standard and Surrogate Mix, 150PPM	VP134691	07/09/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/15/2025

FROM 0.15000ml of V14580 + 0.15000ml of V14885 + 24.70000ml of V14629 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135552	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025

FROM 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135826	10/17/2025	10/18/2025	John Carlone	None	None	Mahesh Dadoda 10/17/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
645	20 PPB CCC, 624	VP135827	10/17/2025	10/18/2025	John Carlone	None	None	Mahesh Dadoda 10/17/2025

FROM 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135552 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
645	20 PPB CCC, 624	VP135828	10/17/2025	10/18/2025	John Carlone	None	None	Mahesh Dadoda 10/17/2025

FROM 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135552 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135834	10/17/2025	11/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/17/2025

FROM 1.00000ml of V15073 + 1.50000ml of V15074 + 1.50000ml of V15075 + 21.00000ml of V14928 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135858	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
645	20 PPB CCC, 624	VP135859	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135552 + 0.00500ml of VP135834 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
645	20 PPB CCC, 624	VP135860	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

FROM 39.97000ml of W3112 + 0.00500ml of VP134149 + 0.00500ml of VP135552 + 0.00500ml of VP135834 + 0.00800ml of VP134691 = Final Quantity: 40.000 ml

Alliance TECHNICAL GROUP

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14205

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	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14509

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	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14510

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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.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14531

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	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555584 / Custom Standard, CLP VOA SurrogateStd [CS 5179-4]	A0219012	01/02/2026	01/02/2025 / SAM	11/18/2024 / SAM	V14580

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	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/09/2026	07/07/2025 / SAM	11/26/2024 / SAM	V14629

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

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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.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14727

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	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14728

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14803

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	03/22/2026	09/22/2025 / sam	01/21/2025 / SAM	V14844

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555583 / Custom Standard, CLP VOA Internal Std [CS 5179-3]	A0223136	03/12/2026	03/12/2025 / SAM	03/12/2025 / SAM	V14885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14951

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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	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15073

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15075

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

6 Vial Baker

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

6 Vial Bx 1a1

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
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Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
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Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Absolute Standards, Inc.

800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 03/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

Solvent(s): Methanol | Lot#: EG359-USQ12

Formulated By: Prashant Chauhan | 021624 | DATE
Reviewed By: Pedro L. Rentas | 021624 | DATE

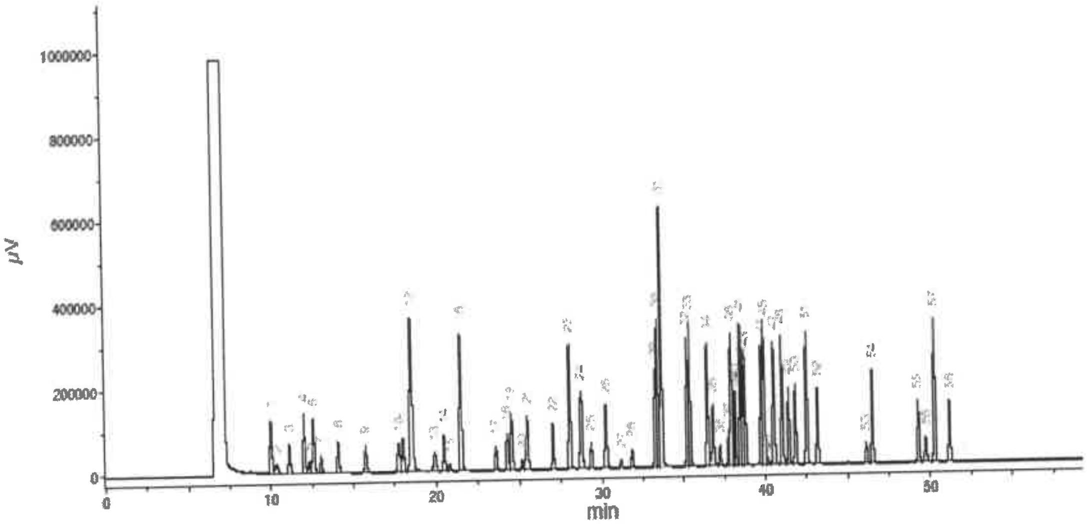
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	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)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.8	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 (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.6	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.6	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.8mg/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	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening 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).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.34
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.88
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.03
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.33
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Solvent(s):	Lot#
Methanol	EG359-USQ12

Formulated By:	Prashant Chauhan	021624 DATE
Reviewed By:	Pedro L. Rentas	021624 DATE

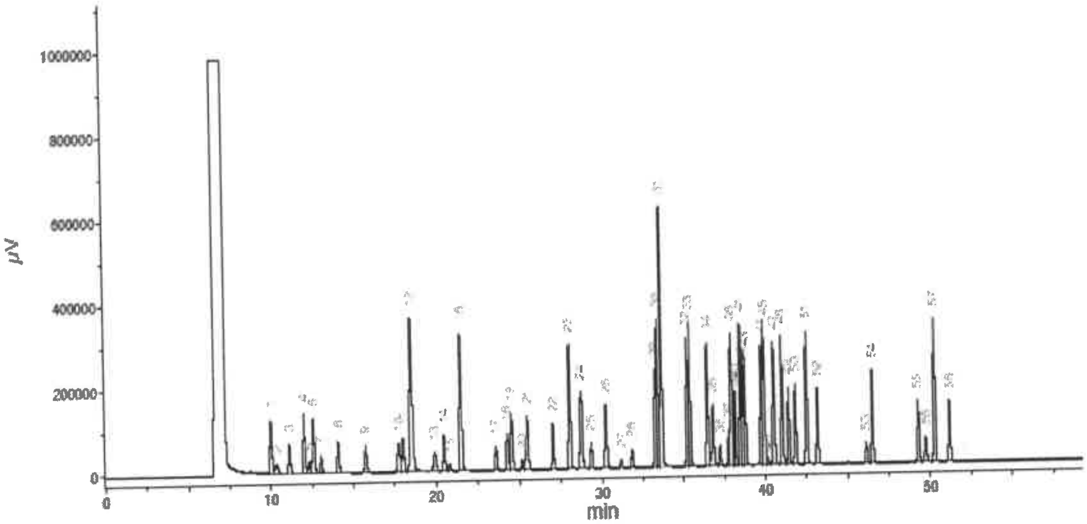
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(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)	orl-rat 720mg/kg
15. Pentachloroethane	(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 (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	60 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.6	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.6	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/9H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.8mg/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	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 5040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty 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).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.88
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.03
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.86
32	o-Xylene	35.23
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	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 sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	91980
Lot Number:	091424
Description:	Acrolein
Expiration Date:	101424
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water — Lot# 072324Q

Formulated By:	Justin Dippold	091424 DATE
Reviewed By:	Pedro L. Rentas	091424 DATE

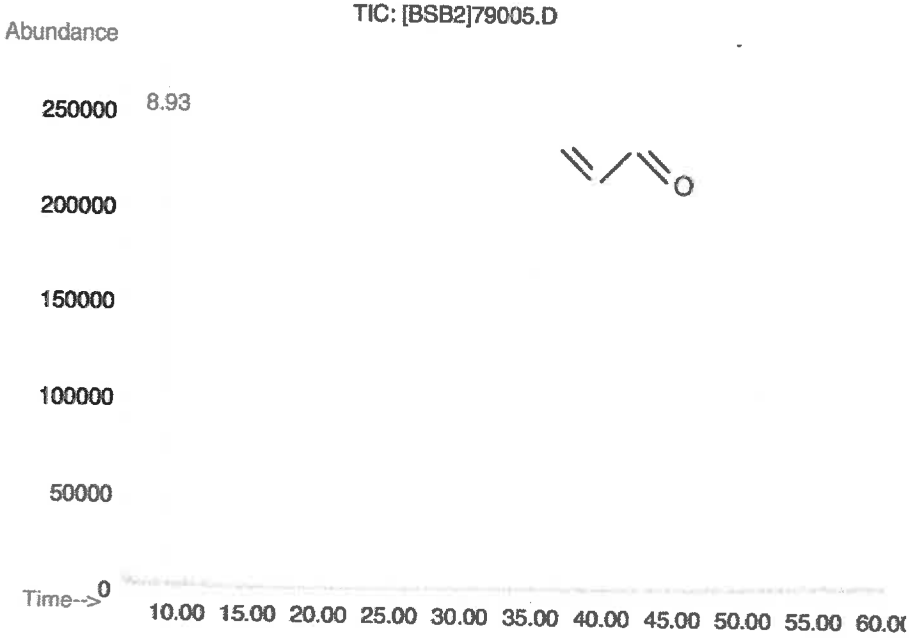
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

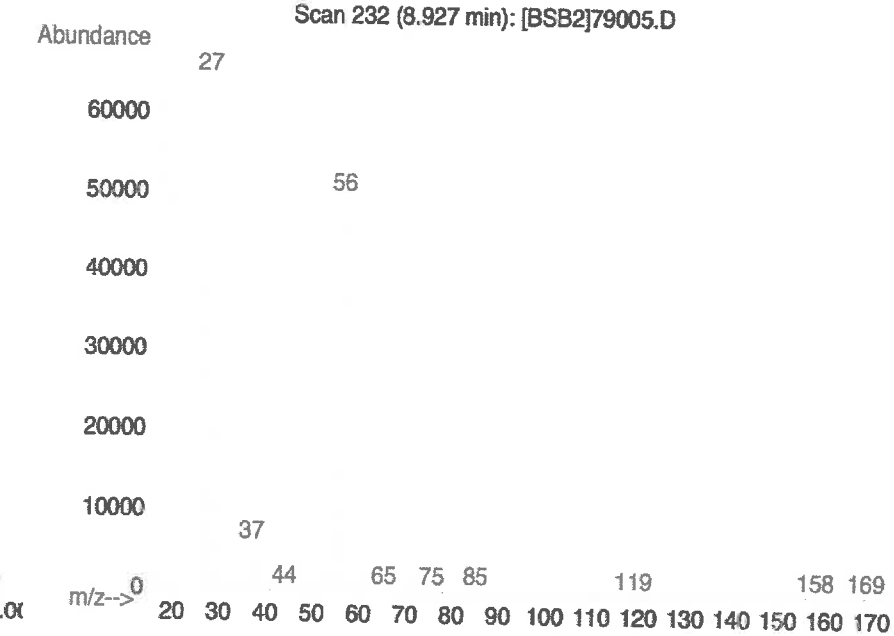
Weight(s) shown below were combined and diluted to (mL): 10.0

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	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	orl-rat 46mg/kg

SDS Information (Solvent Safety Info. On Attached pg.)

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.





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- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2ULof

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	91980
Lot Number:	091424
Description:	Acrolein
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

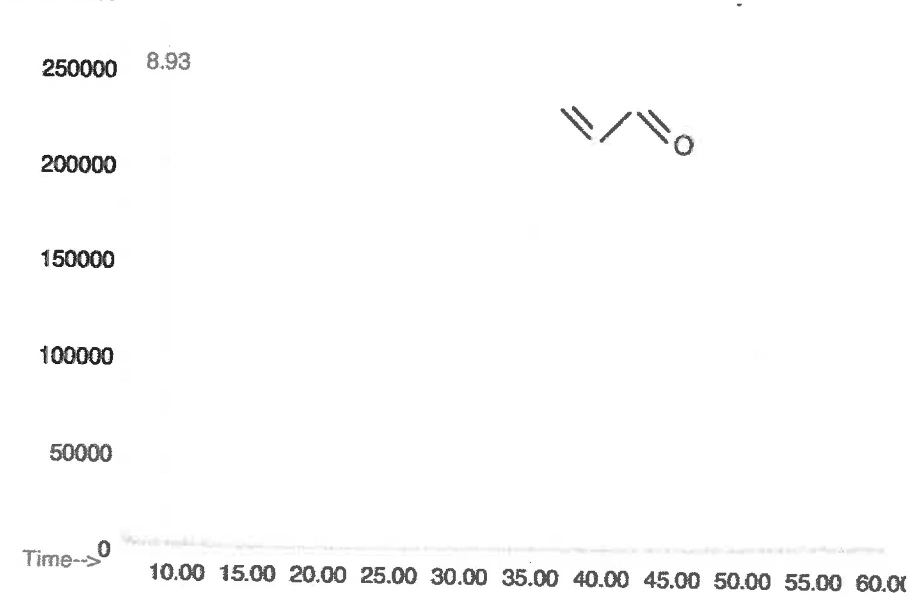
Solvent(s):	**Lot#**
Water	072324Q

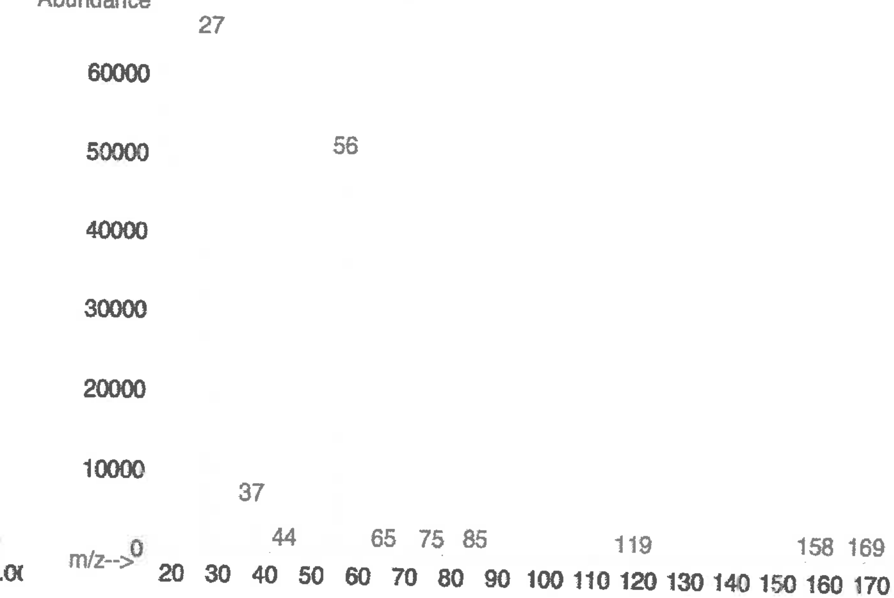
Formulated By:	Justin Dippold	091424 DATE
Reviewed By:	Pedro L. Rentas	091424 DATE

SDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	95318
Lot Number:	120524
Description:	2-Chloroethyl vinyl ether
Expiration Date:	120527
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	10000
NIST Test ID#:	6UTB

Solvent(s):	Lot#
Methanol	EJ143-US

V14630 to
V14649

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

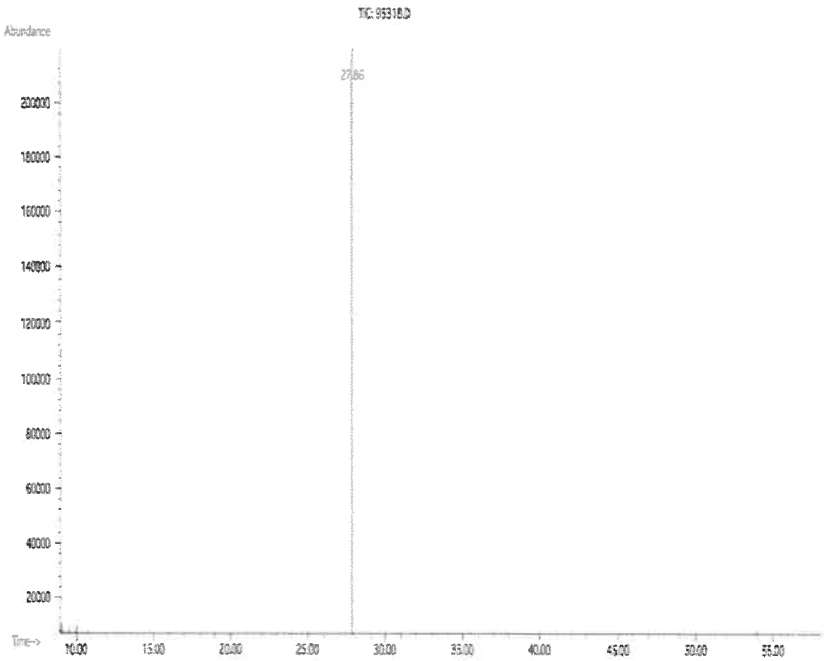
5E-05 Balance Uncertainty

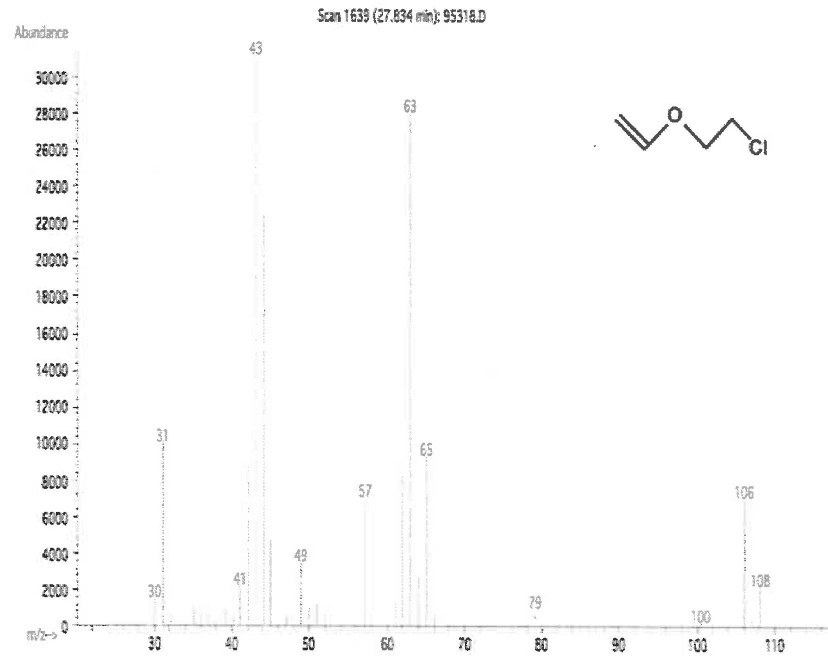
Weight(s) shown below were combined and diluted to (mL): 50.0 | 0.001 Flask Uncertainty

SDS Information (Solvent Safety Info. On Attached pg.)

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1.	2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	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 sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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Certified Reference Material CRM

Rec 12/6/24
20 vial

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	95318
Lot Number:	120524
Description:	2-Chloroethyl vinyl ether
Expiration Date:	120527
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	10000
NIST Test ID#:	6UTB

Solvent(s):	Lot#
Methanol	EJ143-US

V14630 to U14649

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

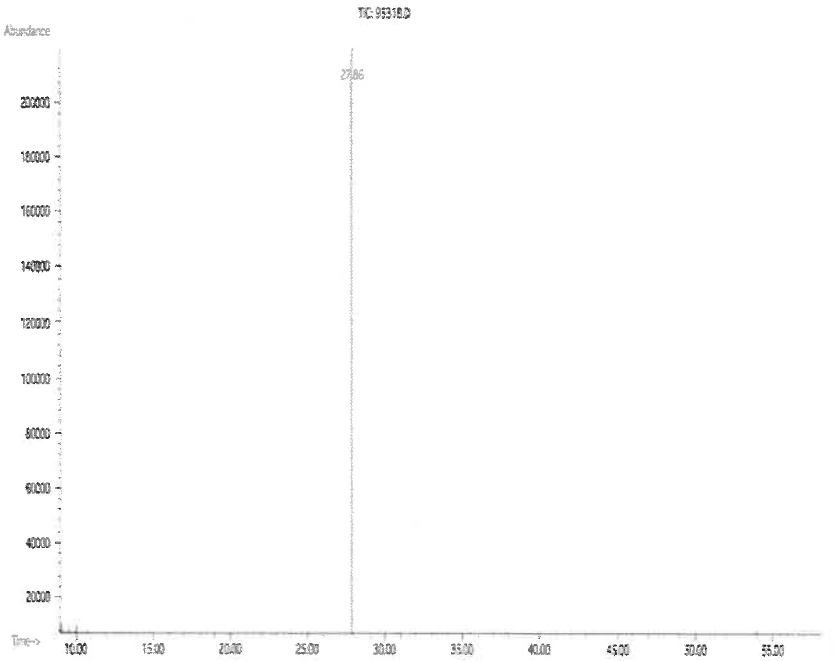
Weight(s) shown below were combined and diluted to (mL): 50.0

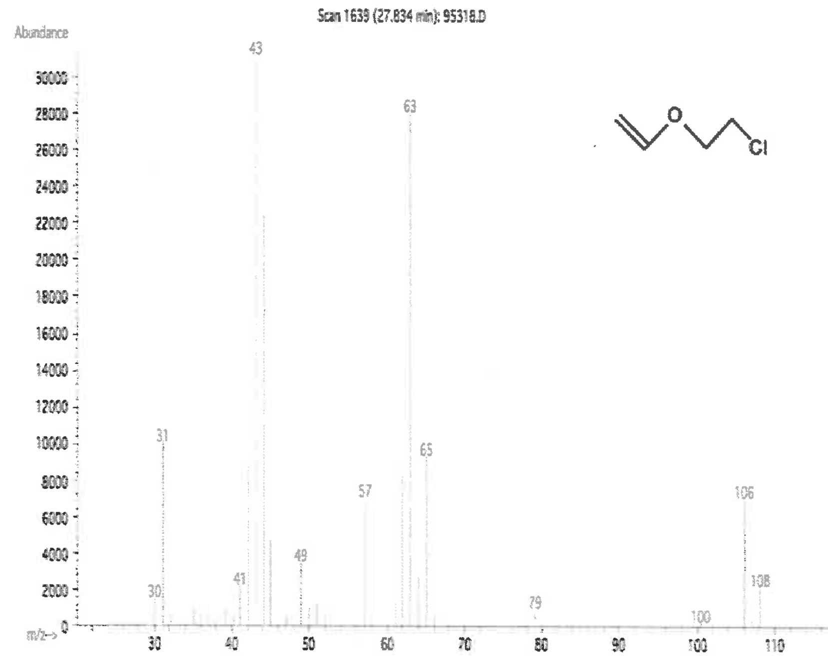
Prashant Chauhan (signature)		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas (signature)		120524
Reviewed By:	Pedro L. Rentas	DATE

SDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Safety Data Sheet (SDS) GHS/OSHA Compliant

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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 sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

   **Signal Word: DANGER**

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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CERTIFIED WEIGHT REPORT

Part Number:	95318
Lot Number:	120524
Description:	2-Chloroethyl vinyl ether
Expiration Date:	120527
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	10000
NIST Test ID#:	6UTB

Solvent(s):	Lot#
Methanol	EJ143-US

V14630 to V14649

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

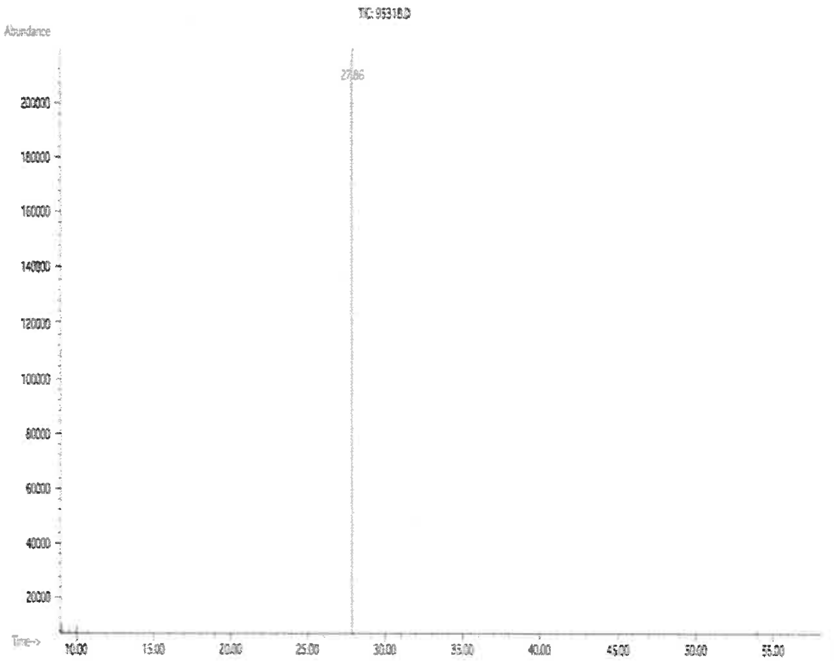
5E-05 Balance Uncertainty

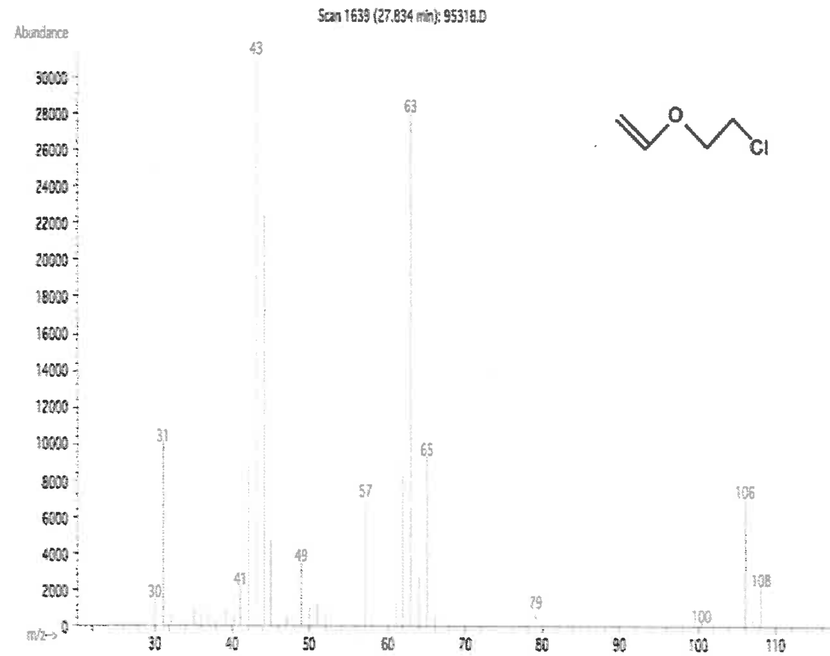
Weight(s) shown below were combined and diluted to (mL): 50.0   0.001 Flask Uncertainty

SDS Information (Solvent Safety Info. On Attached pg.)

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1.	2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Signal Word: DANGER

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Components (Specific Chemical Identity; Common Name(s))			% (optional)
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Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

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Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	95318
Lot Number:	120524
Description:	2-Chloroethyl vinyl ether
Expiration Date:	120527
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	10000
NIST Test ID#:	6UTB

Solvent(s):	Lot#
Methanol	EJ143-US

V14630 to U14649

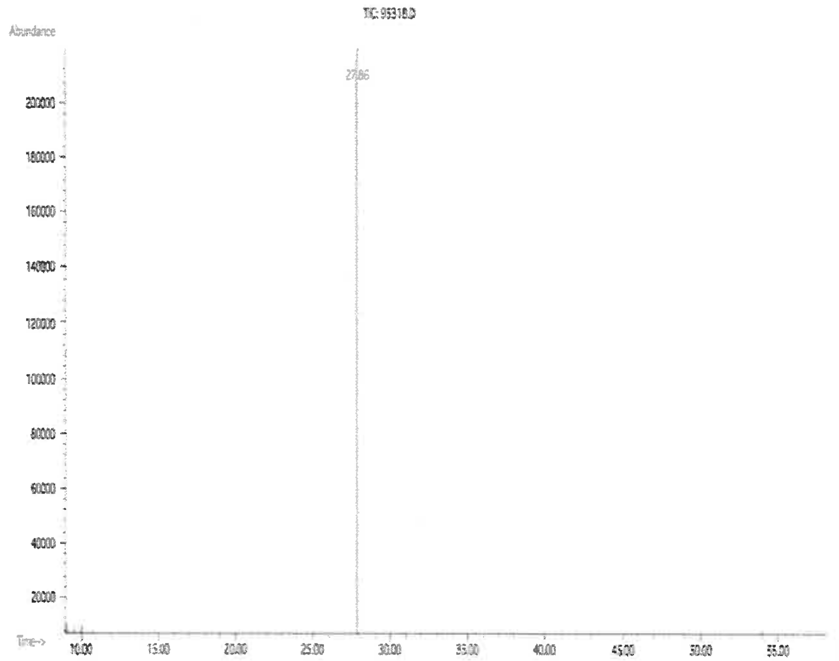
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

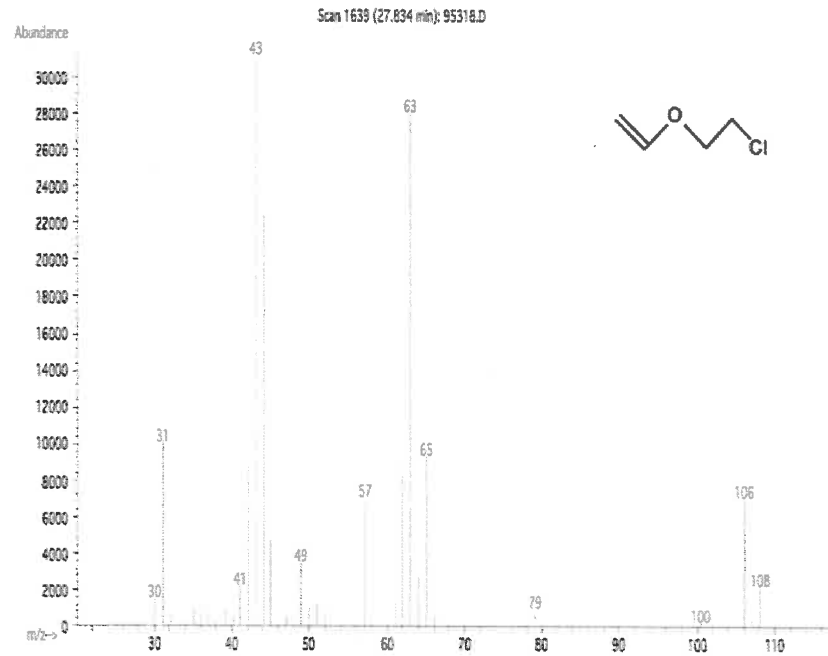
Weight(s) shown below were combined and diluted to (mL): 50.0

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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 sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm

Skin notation TWA 200 ppm

Potential for skin absorption , ingestion and inhalation.

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.

Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

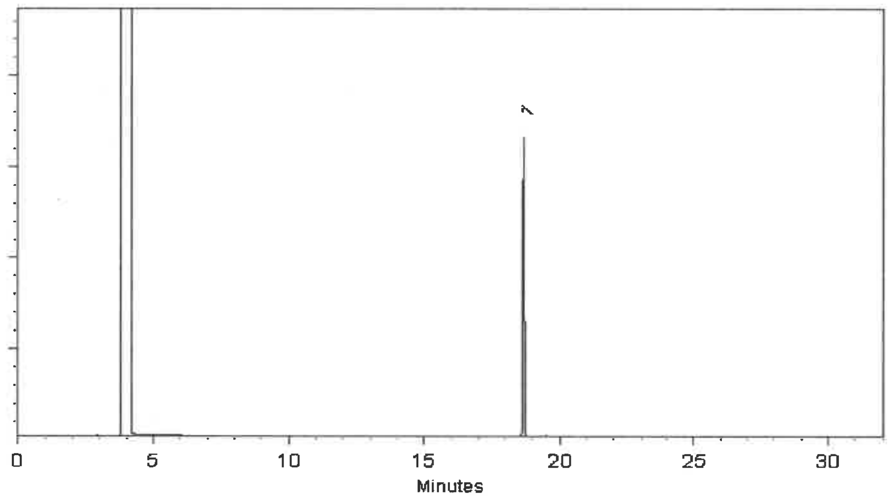
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I | **Date Mixed:** 17-Nov-2022 | **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC | **Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

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CERTIFIED REFERENCE MATERIAL

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ilac-MRA

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

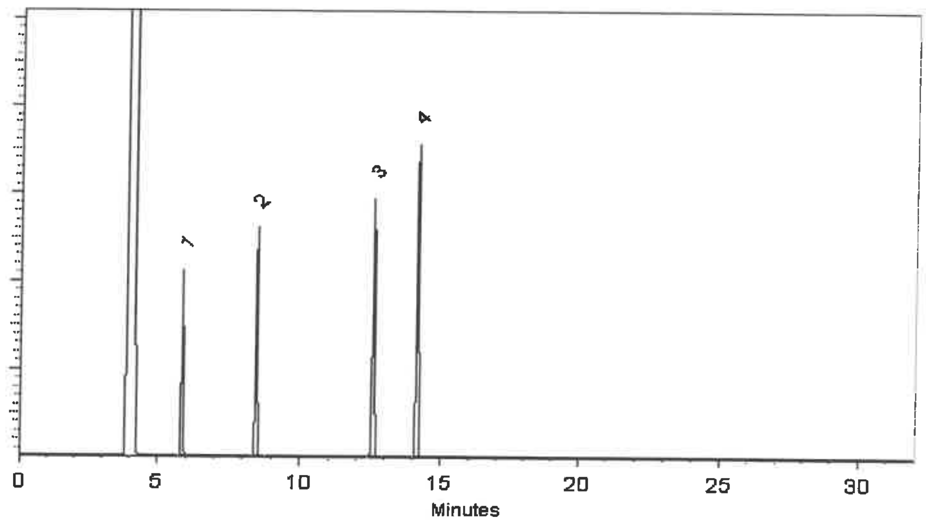
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA | A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA | A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

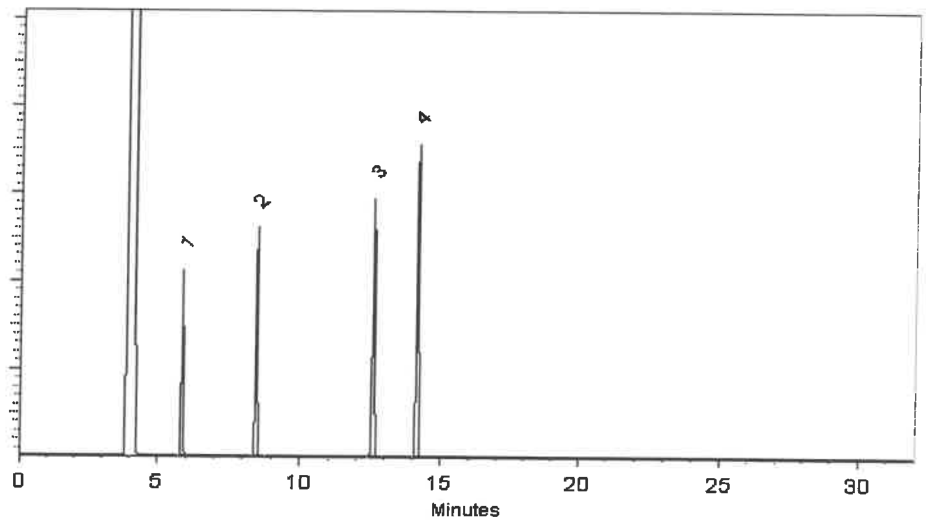
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I — **Date Mixed:** 09-Aug-2023 — **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC — **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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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:

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Handling Notes:

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Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

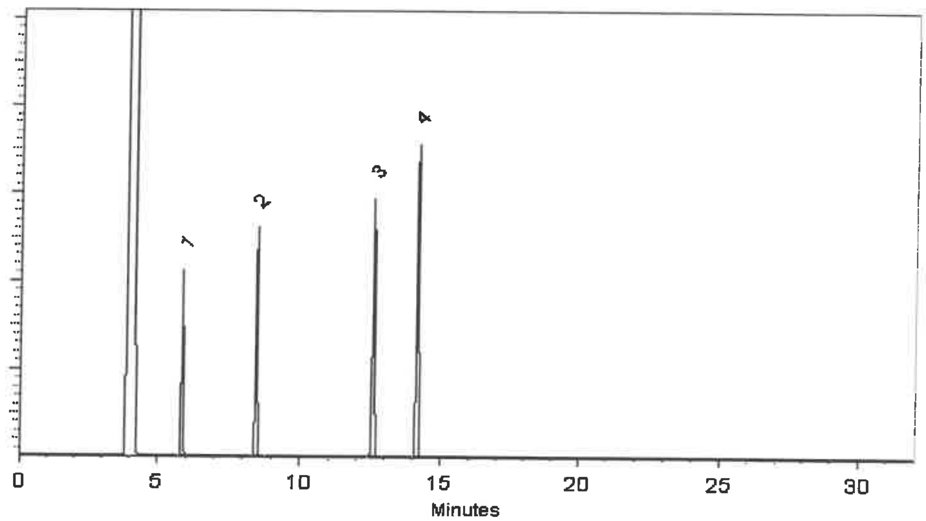
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.:** 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.

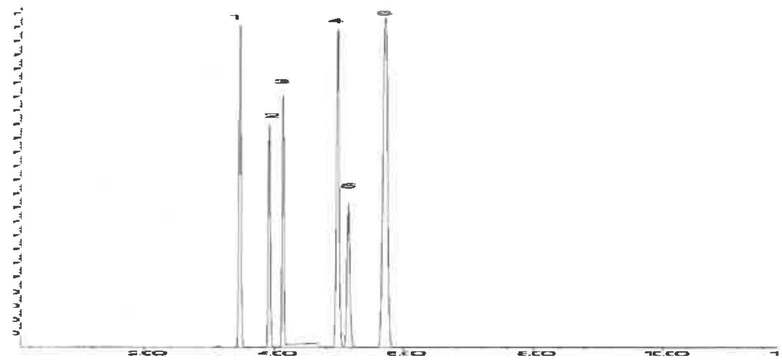
Inj. Temp:
200°C

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 Suckar - 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:

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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.
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** 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
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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.

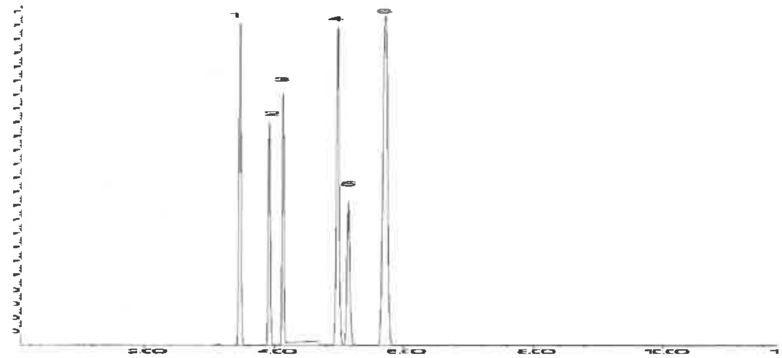
Inj. Temp:
200°C

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 Suckar - Mix Technician | **Date Mixed:** 23-Sep-2024 | **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC | **Date Passed:** 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

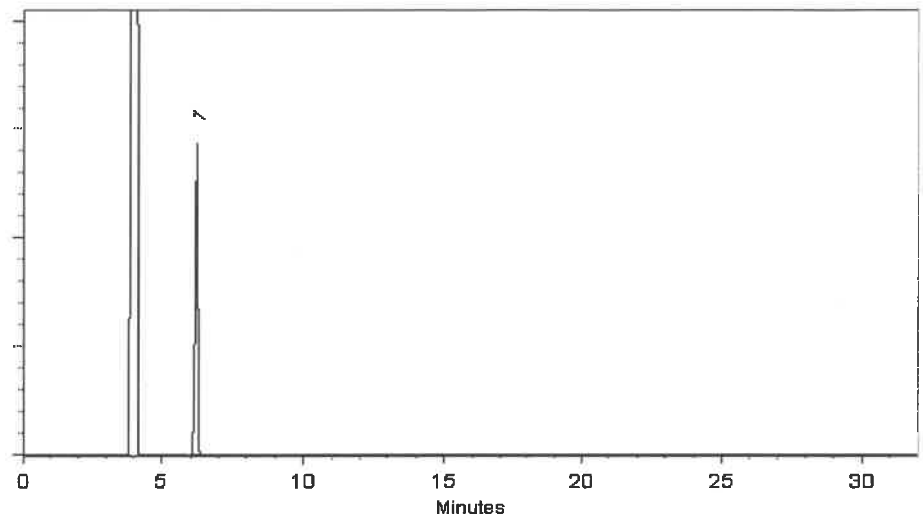
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

AW 0.24

Aaron Enyart - Operations Tech I | Date Mixed: 07-Oct-2024 | Balance Serial # B251644995

Brittany Federinko

Brittany Federinko - Operations Tech I | Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
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Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555584 **Lot No.:** A0219012

Description : Custom CLP VOA Surrogate Standard Mix

Custom CLP VOA Surrogate Standard Mix 25,000µg/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

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,228.0 µg/mL	+/- 1,428.7919
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,196.0 µg/mL	+/- 1,426.9795
3	Toluene-d8	2037-26-5	PR-34141	99%	25,228.0 µg/mL	+/- 1,428.7919

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Jess Hoy - Operations Tech I

Date Mixed: 12-Nov-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

- 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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Manufacturing Notes:

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20 Viny Rec 01/08/25

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** 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.)

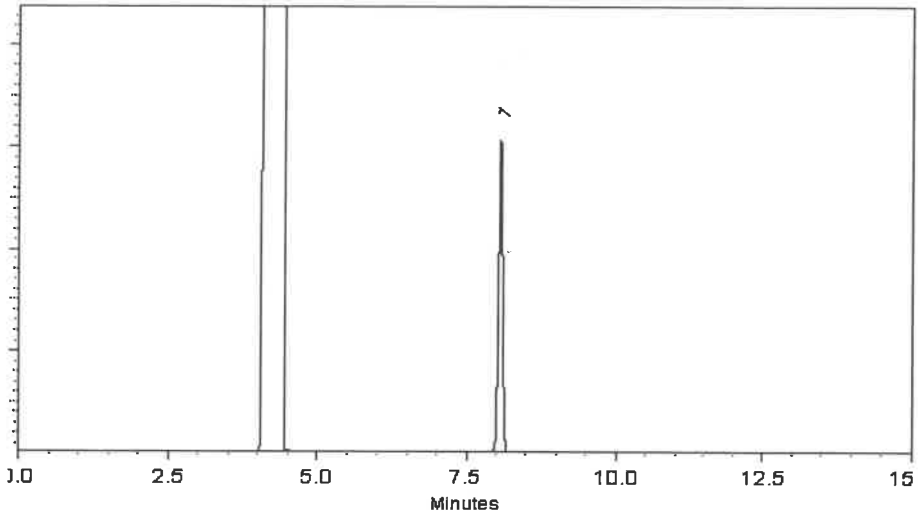
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Ethan Winiarski - Operations Tech I | Date Mixed: 24-Dec-2024 | Balance Serial # 1127510105

Dillan Murphy - Operations Technician I | Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- 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:

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Handling Notes:

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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** 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.)

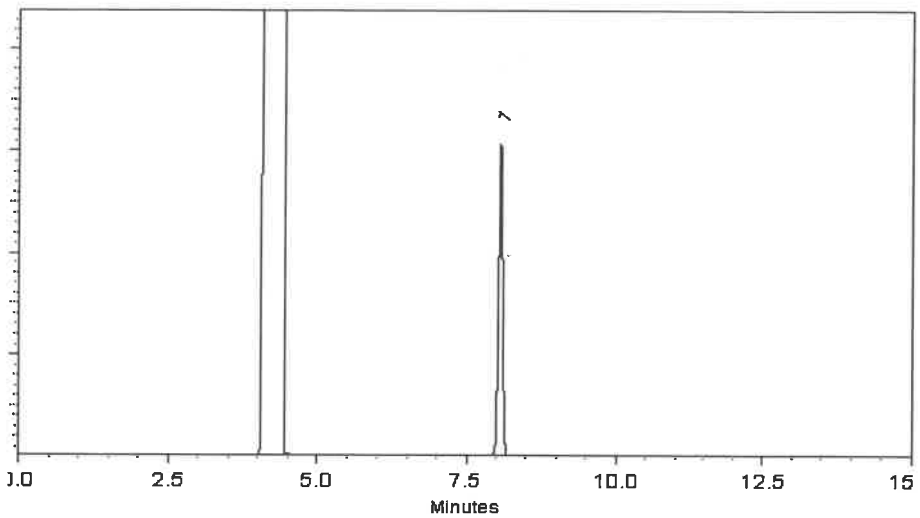
Inj. Temp:
200°C

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	

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Rec 03/12/25

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

10 vials

Certificate of Analysis

gravimetric

V14885-to-V14894

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555583 **Lot No.:** A0223136

Description : Custom CLP VOA Internal Standard Mix

Custom CLP VOA Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°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-Difluorobenzene	540-36-3	MKCS8657	99%	25,024.0 µg/mL	+/- 1,417.2383
2	Bromochloromethane	74-97-5	S241017RSR	99%	25,060.0 µg/mL	+/- 1,419.2772
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,048.4 µg/mL	+/- 1,418.6202

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Penelope S. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 10-Mar-2025 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak
Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak
Jamie Croak
Director Quality Operations, Bioscience Production

Ree 05/19/25

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

20 vial

Certificate of Analysis

chromatographic plus

J14951 to J14970

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0222076

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 : August 31, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* 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

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Rec 05/19/25

CERTIFIED REFERENCE MATERIAL

20 vial

Certificate of Analysis

chromatographic plus

J14951 to J14970

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0222076

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 : August 31, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* 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

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Certified Reference Material CRM

Rec 10/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	91980	Solvent(s):	Lot#
Lot Number:	101625	Water	041725Q
Description:	Acrolein		
Expiration Date:	111625		
Recommended Storage:	Refrigerate (2°C to 8°C)		
Nominal Concentration (µg/mL):	5000		
NIST Test ID#:	6UTB	5E-05	Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL):	10.0	0.001	Flask Uncertainty

V15071 – V15075

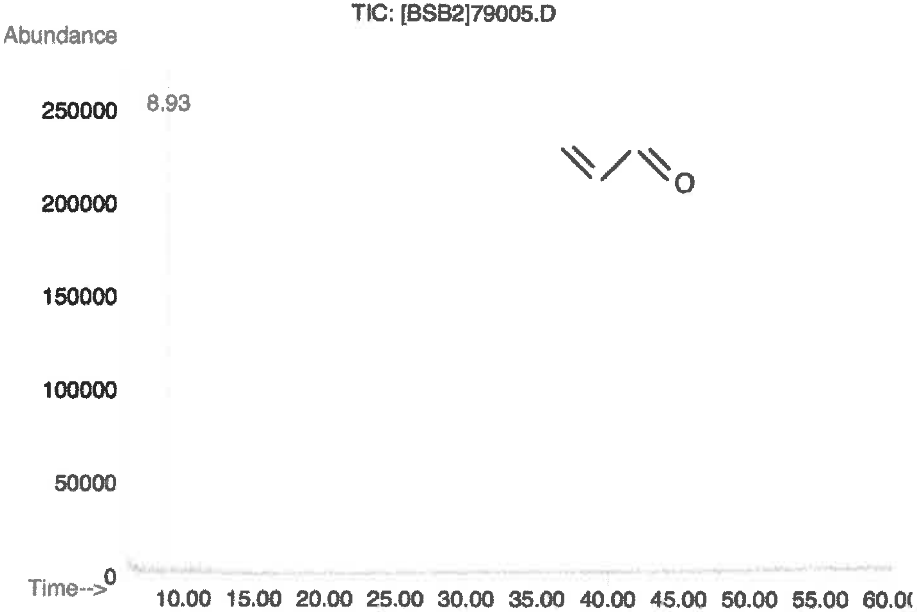
Prashant Chauhan		101625
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		101625
Reviewed By:	Pedro L. Rentas	DATE

SDS Information
(Solvent Safety Info. On Attached pg.)

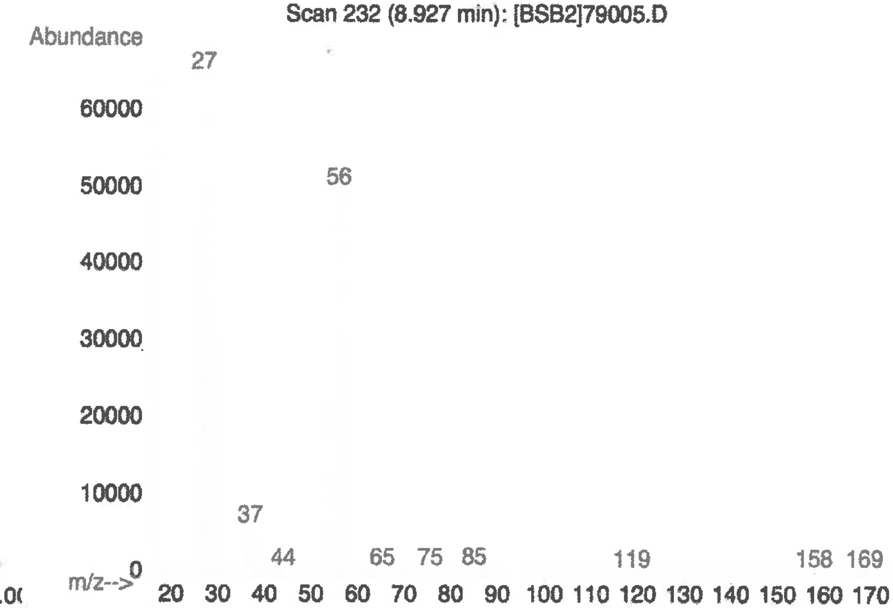
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D



Scan 232 (8.927 min): [BSB2]79005.D



- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization wtih weights traceable through NIST to the SI kilogram (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

Rec 10/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	91980		Solvent(s):	Lot#
Lot Number:	101625		Water	041725Q
Description:	Acrolein			
Expiration Date:	111625			
Recommended Storage:	Refrigerate (2°C to 8°C)			
Nominal Concentration (µg/mL):	5000			
NIST Test ID#:	6UTB	5E-05 Balance Uncertainty		
Weight(s) shown below were combined and diluted to (mL):	10.0	0.001 Flask Uncertainty		

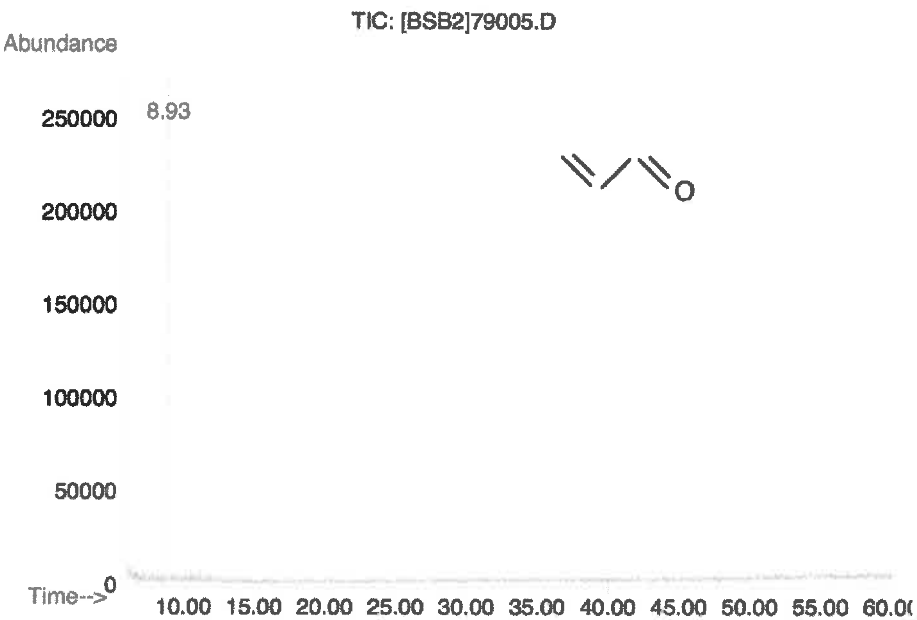
V15071 – V15075

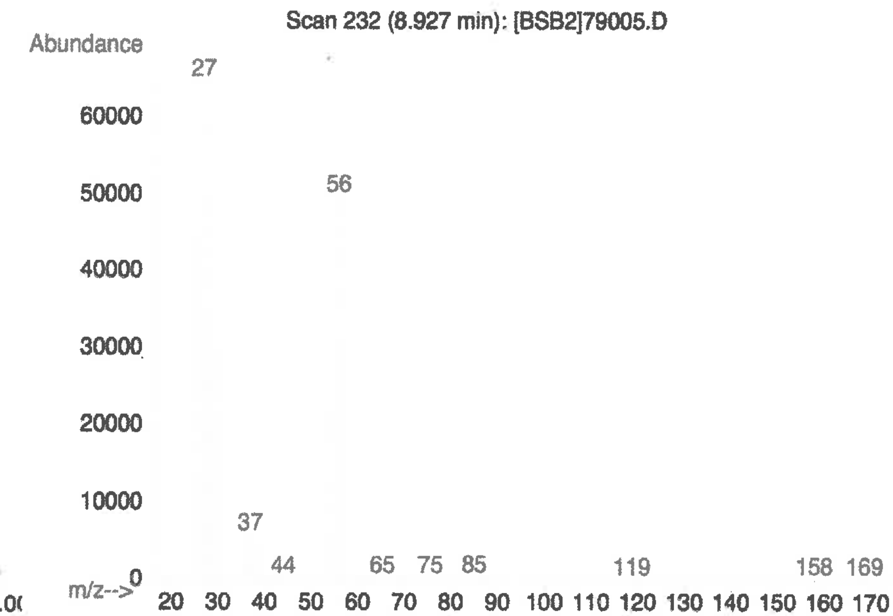
Prashant Chauhan		101625
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		101625
Reviewed By:	Pedro L. Rentas	DATE

SDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization wtih weights traceable through NIST to the SI kilogram (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**
  Rev 1.0, 2/25/2025

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

Rec 10/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	91980	**Solvent(s):**	**Lot#**
Lot Number:	101625	Water	041725Q
Description:	Acrolein		
Expiration Date:	111625		
Recommended Storage:	Refrigerate (2°C to 8°C)		
Nominal Concentration (µg/mL):	5000		
NIST Test ID#:	6UTB	5E-05	Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL):	10.0	0.001	Flask Uncertainty

V15071 – V15075

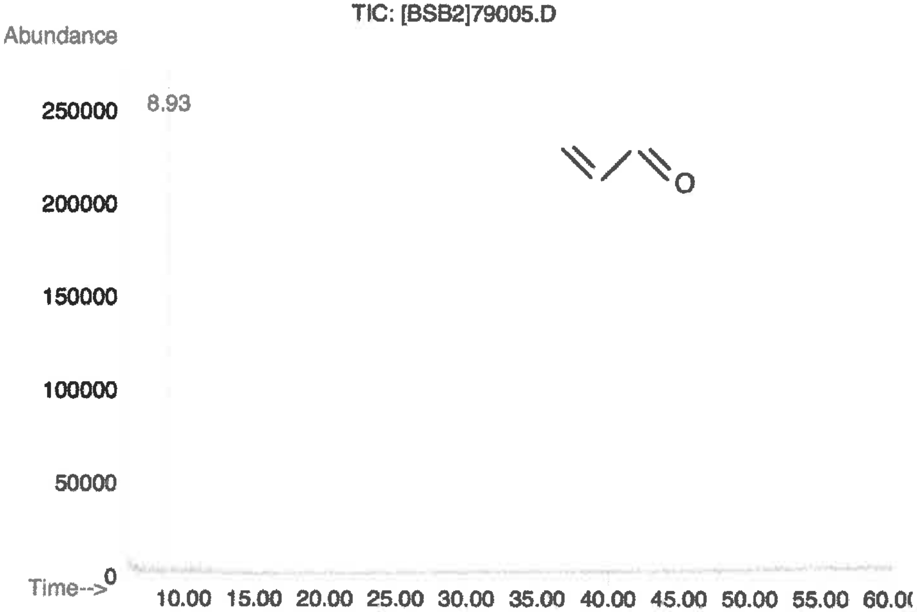
Prashant Chauhan		101625
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		101625
Reviewed By:	Pedro L. Rentas	DATE

SDS Information
(Solvent Safety Info. On Attached pg.)

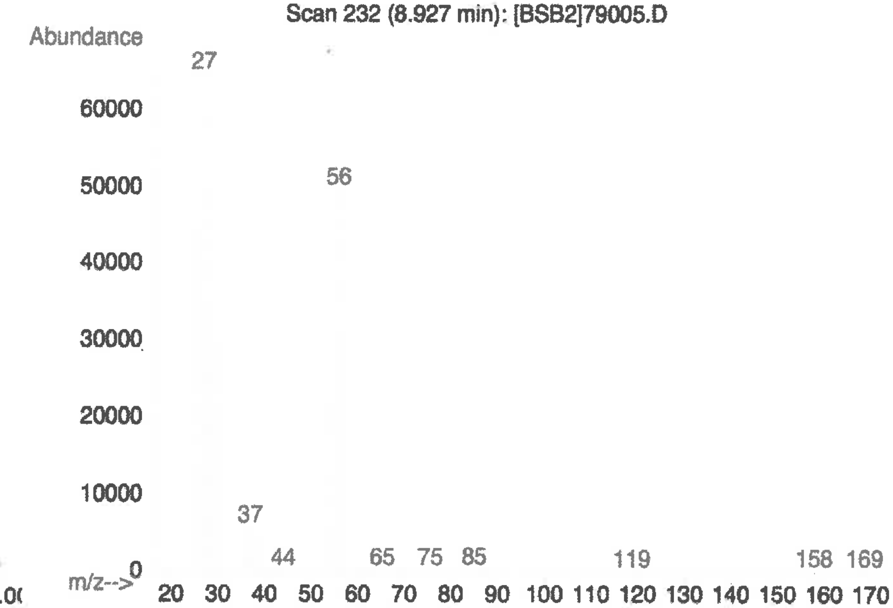
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D



Scan 232 (8.927 min): [BSB2]79005.D



- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Rev 1.0, 2/25/2025

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q3388
COC Number 2045121

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: ARDMORE INC
ADDRESS: 29 RiversideAve Bldg 14
CITY NEWARK STATE: NJ ZIP: 07104
ATTENTION: Michael Sharphowe
PHONE: 973 481 2406 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: PUSC - MONTHLY
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) ____ DAYS*
HARDCOPY (DATA PACKAGE): ____ DAYS*
EDD: STANDAR DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ❑ Level 1 (Results Only)
- ❑ Level 2 (Results + QC)
- ❑ Level 3 (Results + QC + Raw Data)
- ❑ EDD FORMAT
- ❑ Level 4 (QC + Full Raw Data)
- ❑ NJ Reduced ❑ US EPA CLP
- ❑ NYS ASP A ❑ NYS ASP B
- ❑ Other

ANALYSIS

1 VOC, 2 CN, 3 SVOC PP BN4, 4 BOD/TSS, 5 METALS, 6, 7, 8, 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS ← Specify Preservatives A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER
1.	EFF WASTE WATER			X	10/17	12:00PM		X	X								
2.	EFF WASTE WATER		X		10/17	12:00PM				X	X	X					
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Albert Sharphowe	10/17/25 12:00	1. [signature] 1400 10-17-25
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 3.9 °C
Comments: METALS ~~[illegible]~~
LEAD ZINC

Page ____ of
CLIENT: ❑ Hand Delivered ❑ Other
Shipment Complete ❑ YES ❑ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	Q3385 ARDM01	**Order Date :**	10/17/2025 2:02:00 PM	**Project Mgr :**	
Client Name :	Ardmore Chemical	**Project Name :**	PVSC Monthly 2025	**Report Type :**	Level 1
Client Contact :	Michael Sharphouse	**Receive DateTime :**	10/17/2025 2:00:00 PM	**EDD Type :**	NONE
Invoice Name :	Ardmore Chemical	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Michael Sharphouse			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q3385-01	EFF-WW	Water	10/17/2025	12:00						
					VOC-PP		624.1	10 Bus. Days		
Q3385-02	Q3385-01MS	Water	10/17/2025	12:00						
					VOC-PP		624.1	10 Bus. Days		
Q3385-03	Q3385-01MSD	Water	10/17/2025	12:00						
					VOC-PP		624.1	10 Bus. Days		

Relinguished By : [signature]
Date / Time : 10/17/25 14:40

Received By : [signature]
Date / Time : 10/17/25 14:40 DgH 5

Storage Area : **VOA Refridgerator Room**