

Cover Page

Order ID : Q2921

Project ID : 120 Petro NJ

Client : G Environmental

Lab Sample Number

Q2921-01

Client Sample Number

MW1

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

Signature : _____

Date: 8/29/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

G Environmental

Project Name: 120 Petro

Project # N/A

Order ID # Q2921

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

1 Water sample was received on 08/20/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

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

The %RSD is greater than 20% in the Initial Calibration method (82N082125W.M) for Methylene Chloride passing on Linear regression.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

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

Trip Blank was not provided with this set of samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial



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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2921

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 08/29/2025

LAB CHRONICLE

OrderID:	Q2921	OrderDate:	8/20/2025 3:10:18 PM
Client:	G Environmental	Project:	120 Petro NJ
Contact:	Gary Landis	Location:	D11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2921-01	MW1	Water	VOCMS Group1	8260-Low	08/20/25		08/25/25	08/20/25

Hit Summary Sheet
SW-846

SDG No.: Q2921
Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW1							
Q2921-01	MW1	Water	Acetone	4.50	J	1.50	5.00	ug/L
Q2921-01	MW1	Water	Toluene	1.80		0.14	1.00	ug/L
Q2921-01	MW1	Water	Ethyl Benzene	0.90	J	0.13	1.00	ug/L
Q2921-01	MW1	Water	m/p-Xylenes	3.00		0.24	2.00	ug/L
Q2921-01	MW1	Water	o-Xylene	3.70		0.12	1.00	ug/L
			Total Voc :			13.9		
Q2921-01	MW1	Water	Naphthalene, 1,2,3,4-tetrahydrc *	7.60	J	0	0	ug/L
Q2921-01	MW1	Water	Benzene, 2-ethenyl-1,4-dimethy *	20.7	J	0	0	ug/L
Q2921-01	MW1	Water	Naphthalene, 1,2,3,4-tetrahydrc *	11.9	J	0	0	ug/L
Q2921-01	MW1	Water	Naphthalene, 1,2,3,4-tetrahydrc *	6.30	J	0	0	ug/L
Q2921-01	MW1	Water	1H-Indene, 2,3-dihydro-4,7-din *	5.60	J	0	0	ug/L
Q2921-01	MW1	Water	1H-Indene, 2,3-dihydro-1,2-din *	5.90	J	0	0	ug/L
Q2921-01	MW1	Water	Undecane, 4,7-dimethyl- *	5.20	J	0	0	ug/L
Q2921-01	MW1	Water	2,2-Dimethylindene, 2,3-dihydr *	8.50	J	0	0	ug/L
Q2921-01	MW1	Water	2,3,4,5,6,7-Hexahydro-1H-cycl *	8.70	J	0	0	ug/L
Q2921-01	MW1	Water	n-propylbenzene *	0.36	J	0.13	1.00	ug/L
Q2921-01	MW1	Water	1,3,5-Trimethylbenzene *	2.20	J	0.15	1.00	ug/L
Q2921-01	MW1	Water	1,2,4-Trimethylbenzene *	2.90	J	0.14	1.00	ug/L
			Total Tics :			85.9		
			Total Concentration:			99.8		



QC SUMMARY

Surrogate Summary

SDG No.: Q2921

Client: G Environmental

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2921-01	MW1	1,2-Dichloroethane-d4	50	55.0	110		74	125
		Dibromofluoromethane	50	50.2	100		75	124
		Toluene-d8	50	48.0	96		86	113
		4-Bromofluorobenzene	50	47.8	96		77	121
VN0825WBL01	VN0825WBL01	1,2-Dichloroethane-d4	50	52.3	105		74	125
		Dibromofluoromethane	50	50.0	100		75	124
		Toluene-d8	50	48.2	96		86	113
		4-Bromofluorobenzene	50	46.5	93		77	121
VN0825WBS01	VN0825WBS01	1,2-Dichloroethane-d4	50	46.9	94		74	125
		Dibromofluoromethane	50	46.0	92		75	124
		Toluene-d8	50	45.3	91		86	113
		4-Bromofluorobenzene	50	44.8	90		77	121
VN0825WBSD0	VN0825WBSD01	1,2-Dichloroethane-d4	50	46.4	93		74	125
		Dibromofluoromethane	50	46.9	94		75	124
		Toluene-d8	50	46.2	92		86	113
		4-Bromofluorobenzene	50	46.4	93		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2921</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087650.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0825WBS01	Dichlorodifluoromethane	20	19.6	ug/L	98			69	116	
	Chloromethane	20	19.2	ug/L	96			65	116	
	Vinyl chloride	20	18.6	ug/L	93			65	117	
	Bromomethane	20	19.5	ug/L	98			58	125	
	Chloroethane	20	18.3	ug/L	92			56	128	
	Trichlorofluoromethane	20	18.9	ug/L	95			73	115	
	1,1,2-Trichlorotrifluoroethane	20	17.8	ug/L	89			80	112	
	1,1-Dichloroethene	20	17.9	ug/L	90			74	110	
	Acetone	100	92.7	ug/L	93			60	125	
	Carbon disulfide	20	18.3	ug/L	92			64	112	
	Methyl tert-butyl Ether	20	18.0	ug/L	90			78	114	
	Methyl Acetate	20	18.4	ug/L	92			67	125	
	Methylene Chloride	20	17.7	ug/L	89			72	114	
	trans-1,2-Dichloroethene	20	17.0	ug/L	85			75	108	
	1,1-Dichloroethane	20	17.7	ug/L	89			78	112	
	Cyclohexane	20	18.1	ug/L	91			75	110	
	2-Butanone	100	90.9	ug/L	91			65	122	
	Carbon Tetrachloride	20	18.0	ug/L	90			77	113	
	cis-1,2-Dichloroethene	20	17.3	ug/L	86			77	110	
	Bromochloromethane	20	20.0	ug/L	100			70	124	
	Chloroform	20	17.8	ug/L	89			79	113	
	1,1,1-Trichloroethane	20	18.1	ug/L	91			80	108	
	Methylcyclohexane	20	16.7	ug/L	84			72	115	
	Benzene	20	17.4	ug/L	87			82	109	
	1,2-Dichloroethane	20	17.3	ug/L	86			80	115	
	Trichloroethene	20	17.1	ug/L	86			77	113	
	1,2-Dichloropropane	20	16.6	ug/L	83			83	111	
	Bromodichloromethane	20	17.2	ug/L	86			83	110	
	4-Methyl-2-Pentanone	100	88.3	ug/L	88			74	118	
	Toluene	20	17.4	ug/L	87			82	110	
	t-1,3-Dichloropropene	20	17.3	ug/L	86			79	110	
	cis-1,3-Dichloropropene	20	17.5	ug/L	88			82	110	
	1,1,2-Trichloroethane	20	17.8	ug/L	89			83	112	
	2-Hexanone	100	92.2	ug/L	92			73	117	
	Dibromochloromethane	20	16.6	ug/L	83			82	110	
	1,2-Dibromoethane	20	17.0	ug/L	85			81	110	
	Tetrachloroethene	20	17.0	ug/L	85			67	123	
	Chlorobenzene	20	17.4	ug/L	87			82	109	
	Ethyl Benzene	20	17.8	ug/L	89			83	109	
	m/p-Xylenes	40	36.1	ug/L	90			82	110	
	o-Xylene	20	17.2	ug/L	86			83	109	
	Styrene	20	17.9	ug/L	90			80	111	
	Bromoform	20	18.2	ug/L	91			79	109	
	Isopropylbenzene	20	17.3	ug/L	86			83	112	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/L	91			76	118	
	1,3-Dichlorobenzene	20	17.1	ug/L	86			82	108	
	1,4-Dichlorobenzene	20	17.1	ug/L	86			82	107	
	1,2-Dichlorobenzene	20	17.7	ug/L	89			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2921</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087650.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0825WBS01	1,2-Dibromo-3-Chloropropane	20	17.1	ug/L	86			68	112	
	1,2,4-Trichlorobenzene	20	17.2	ug/L	86			75	113	
	1,2,3-Trichlorobenzene	20	16.9	ug/L	85			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q2921	Analytical Method:	SW8260-Low
Client:	G Environmental	Datafile :	VN087651.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0825WBSD01	Dichlorodifluoromethane	20	21.7	ug/L	109	11		69	116	19
	Chloromethane	20	19.6	ug/L	98	2		65	116	21
	Vinyl chloride	20	19.0	ug/L	95	2		65	117	19
	Bromomethane	20	18.5	ug/L	93	5		58	125	20
	Chloroethane	20	18.0	ug/L	90	2		56	128	20
	Trichlorofluoromethane	20	19.1	ug/L	96	1		73	115	16
	1,1,2-Trichlorotrifluoroethane	20	18.9	ug/L	95	7		80	112	15
	1,1-Dichloroethene	20	18.5	ug/L	93	3		74	110	20
	Acetone	100	85.6	ug/L	86	8		60	125	20
	Carbon disulfide	20	18.1	ug/L	91	1		64	112	20
	Methyl tert-butyl Ether	20	18.5	ug/L	93	3		78	114	20
	Methyl Acetate	20	19.5	ug/L	98	6		67	125	20
	Methylene Chloride	20	18.0	ug/L	90	1		72	114	20
	trans-1,2-Dichloroethene	20	17.2	ug/L	86	1		75	108	16
	1,1-Dichloroethane	20	17.3	ug/L	86	3		78	112	20
	Cyclohexane	20	18.4	ug/L	92	1		75	110	20
	2-Butanone	100	90.5	ug/L	91	0		65	122	26
	Carbon Tetrachloride	20	19.2	ug/L	96	6		77	113	15
	cis-1,2-Dichloroethene	20	17.9	ug/L	90	5		77	110	20
	Bromochloromethane	20	19.8	ug/L	99	1		70	124	20
	Chloroform	20	18.2	ug/L	91	2		79	113	20
	1,1,1-Trichloroethane	20	17.7	ug/L	89	2		80	108	20
	Methylcyclohexane	20	19.2	ug/L	96	13		72	115	20
	Benzene	20	18.4	ug/L	92	6		82	109	15
	1,2-Dichloroethane	20	18.7	ug/L	94	9		80	115	20
	Trichloroethene	20	18.1	ug/L	91	6		77	113	15
	1,2-Dichloropropane	20	18.1	ug/L	91	9		83	111	16
	Bromodichloromethane	20	18.7	ug/L	94	9		83	110	16
	4-Methyl-2-Pentanone	100	98.0	ug/L	98	11		74	118	25
	Toluene	20	18.3	ug/L	92	6		82	110	16
	t-1,3-Dichloropropene	20	19.0	ug/L	95	10		79	110	20
	cis-1,3-Dichloropropene	20	18.4	ug/L	92	4		82	110	16
	1,1,2-Trichloroethane	20	18.7	ug/L	94	5		83	112	20
	2-Hexanone	100	97.4	ug/L	97	5		73	117	25
	Dibromochloromethane	20	18.2	ug/L	91	9		82	110	20
	1,2-Dibromoethane	20	18.4	ug/L	92	8		81	110	20
	Tetrachloroethene	20	16.9	ug/L	85	0		67	123	15
	Chlorobenzene	20	17.7	ug/L	89	2		82	109	15
	Ethyl Benzene	20	18.0	ug/L	90	1		83	109	16
	m/p-Xylenes	40	36.1	ug/L	90	0		82	110	15
	o-Xylene	20	18.2	ug/L	91	6		83	109	20
	Styrene	20	18.5	ug/L	93	3		80	111	17
	Bromoform	20	18.4	ug/L	92	1		79	109	20
	Isopropylbenzene	20	18.1	ug/L	91	6		83	112	29
	1,1,2,2-Tetrachloroethane	20	19.3	ug/L	97	6		76	118	20
	1,3-Dichlorobenzene	20	17.8	ug/L	89	3		82	108	20
	1,4-Dichlorobenzene	20	17.9	ug/L	90	5		82	107	15
	1,2-Dichlorobenzene	20	18.1	ug/L	91	2		82	109	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2921</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087651.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0825WBSD01	1,2-Dibromo-3-Chloropropane	20	19.0	ug/L	95	10		68	112	20
	1,2,4-Trichlorobenzene	20	18.9	ug/L	95	10		75	113	29
	1,2,3-Trichlorobenzene	20	18.0	ug/L	90	6		76	114	29

VOLATILE METHOD BLANK SUMMARY

Client ID

VN0825WBL01

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2921

Lab File ID: VN087649.D

Lab Sample ID: VN0825WBL01

Date Analyzed: 08/25/2025

Time Analyzed: 10:33

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
VN0825WBS01	VN0825WBS01	VN087650.D	08/25/2025
VN0825WBSD01	VN0825WBSD01	VN087651.D	08/25/2025
MW1	Q2921-01	VN087659.D	08/25/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2921

Lab File ID: VN087614.D

BFB Injection Date: 08/21/2025

Instrument ID: MSVOA_N

BFB Injection Time: 09:30

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	25.8
75	30.0 - 60.0% of mass 95	58.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	1.1 (1.6) 1
174	50.0 - 100.0% of mass 95	69
175	5.0 - 9.0% of mass 174	5.6 (8.1) 1
176	95.0 - 101.0% of mass 174	67.7 (98.1) 1
177	5.0 - 9.0% of mass 176	4.8 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN087619.D	08/21/2025	12:09
VSTDIC005	VSTDIC005	VN087620.D	08/21/2025	13:08
VSTDIC020	VSTDIC020	VN087621.D	08/21/2025	13:41
VSTDIC050	VSTDIC050	VN087622.D	08/21/2025	14:02
VSTDIC100	VSTDIC100	VN087623.D	08/21/2025	14:23
VSTDIC150	VSTDIC150	VN087624.D	08/21/2025	14:44



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2921

Lab File ID: VN087646.D

BFB Injection Date: 08/25/2025

Instrument ID: MSVOA_N

BFB Injection Time: 08:15

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	23.8
75	30.0 - 60.0% of mass 95	58.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 100.0% of mass 95	68.5
175	5.0 - 9.0% of mass 174	6.1 (9) 1
176	95.0 - 101.0% of mass 174	66.8 (97.4) 1
177	5.0 - 9.0% of mass 176	4.2 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN087647.D	08/25/2025	09:37
VN0825WBL01	VN0825WBL01	VN087649.D	08/25/2025	10:33
VN0825WBS01	VN0825WBS01	VN087650.D	08/25/2025	12:21
VN0825WBSD01	VN0825WBSD01	VN087651.D	08/25/2025	12:56
MW1	Q2921-01	VN087659.D	08/25/2025	15:43

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG NO.: Q2921
 Lab File ID: VN087647.D Date Analyzed: 08/25/2025
 Instrument ID: MSVOA_N Time Analyzed: 09:37
 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	257927	8.21	497405	9.08	459274	11.85
UPPER LIMIT	515854	8.706	994810	9.583	918548	12.347
LOWER LIMIT	128964	7.706	248703	8.583	229637	11.347
EPA SAMPLE NO.						
MW1	169994	8.21	395366	9.08	375883	11.85
VN0825WBL01	190267	8.21	429125	9.08	403882	11.84
VN0825WBS01	223180	8.21	452330	9.08	403500	11.84
VN0825WBSD01	230804	8.21	442728	9.08	414378	11.85

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG NO.: Q2921
 Lab File ID: VN087647.D Date Analyzed: 08/25/2025
 Instrument ID: MSVOA_N Time Analyzed: 09:37
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	238788	13.771				
UPPER LIMIT	477576	14.271				
LOWER LIMIT	119394	13.271				
EPA SAMPLE NO.						
MW1	178142	13.77				
VN0825WBL01	182604	13.77				
VN0825WBS01	202288	13.77				
VN0825WBSD01	204092	13.77				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	08/20/25
Project:	120 Petro NJ	Date Received:	08/20/25
Client Sample ID:	MW1	SDG No.:	Q2921
Lab Sample ID:	Q2921-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087659.D	1	08/25/25 15:43	VN082525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	4.50	J	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	1.80		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental	Date Collected:	08/20/25
Project:	120 Petro NJ	Date Received:	08/20/25
Client Sample ID:	MW1	SDG No.:	Q2921
Lab Sample ID:	Q2921-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087659.D	1	08/25/25 15:43	VN082525

[illegible]

Report of Analysis

Client:	G Environmental	Date Collected:	08/20/25
Project:	120 Petro NJ	Date Received:	08/20/25
Client Sample ID:	MW1	SDG No.:	Q2921
Lab Sample ID:	Q2921-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087659.D	1	08/25/25 15:43	VN082525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
103-65-1	n-propylbenzene	0.36	J		13.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	2.20	J		13.2	ug/L
95-63-6	1,2,4-Trimethylbenzene	2.90	J		13.5	ug/L
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	20.7	J		15.0	ug/L
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	7.60	J		15.2	ug/L
017057-82-8	1H-Indene, 2,3-dihydro-1,2-dimethy	5.90	J		15.3	ug/L
020836-11-7	2,2-Dimethylindene, 2,3-dihydro-	8.50	J		15.4	ug/L
017301-32-5	Undecane, 4,7-dimethyl-	5.20	J		15.8	ug/L
006682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethy	5.60	J		15.9	ug/L
1010189-31-0	2,3,4,5,6,7-Hexahydro-1H-cyclopent	8.70	J		16.1	ug/L
002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-	11.9	J		16.5	ug/L
004175-54-6	Naphthalene, 1,2,3,4-tetrahydro-1,	6.30	J		16.7	ug/L

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\VN082525\
 Data File : VN087659.D
 Acq On : 25 Aug 2025 15:43
 Operator : JC\MD
 Sample : Q2921-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW1

Quant Time: Aug 26 01:37:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

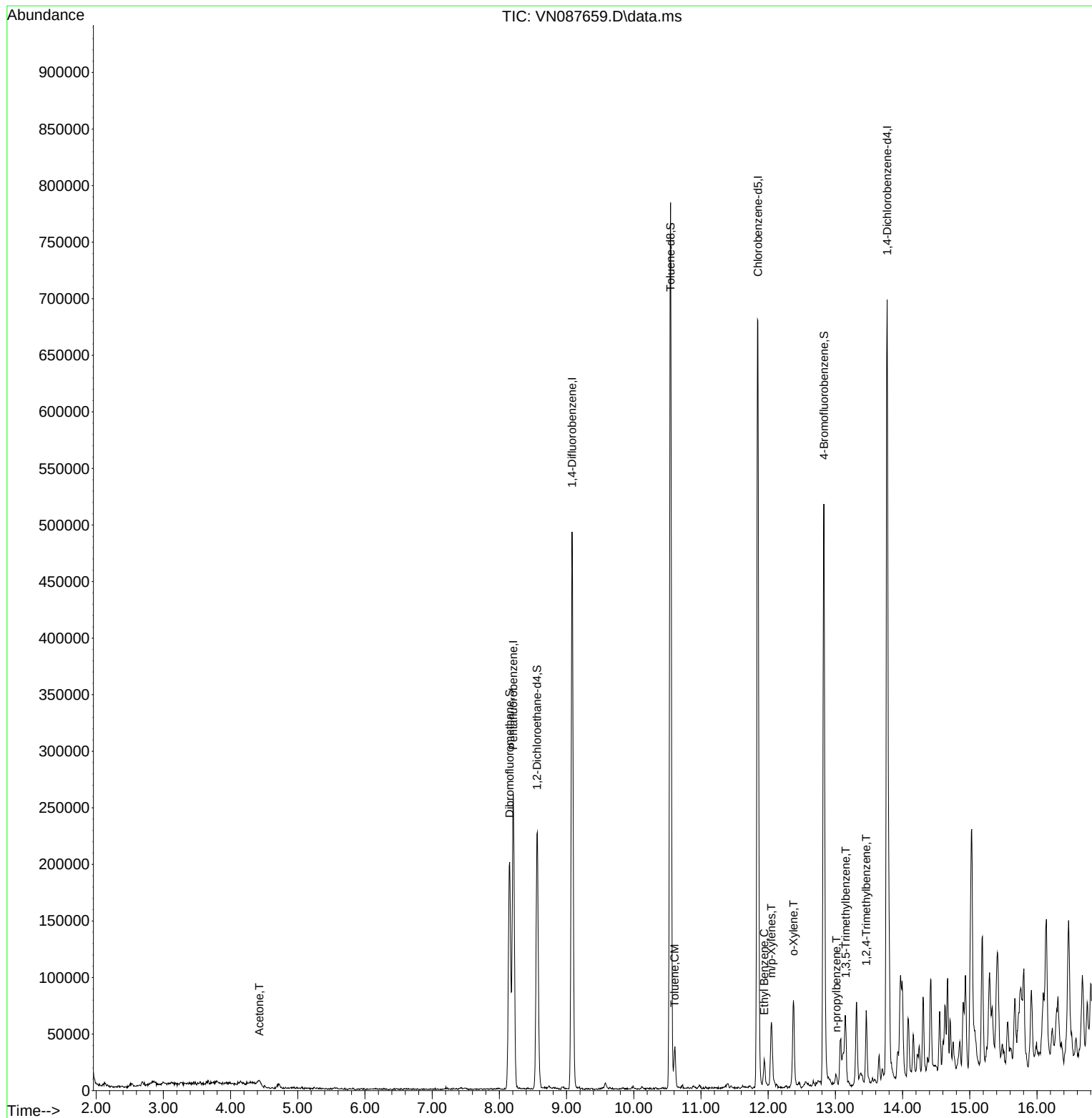
Internal Standards						
1) Pentafluorobenzene	8.206	168	169994	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	395366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	375883	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	178142	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	191473	54.974	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.940%			
35) Dibromofluoromethane	8.153	113	143243	50.181	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.360%			
50) Toluene-d8	10.547	98	512701	47.988	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.980%			
62) 4-Bromofluorobenzene	12.829	95	181471	47.761	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.520%			
Target Compounds					Qvalue	
16) Acetone	4.430	43	8448	4.456	ug/l #	67
52) Toluene	10.606	92	14874	1.786	ug/l	89
67) Ethyl Benzene	11.941	91	14504	0.896	ug/l #	85
68) m/p-Xylenes	12.047	106	17688	2.979	ug/l	99
69) o-Xylene	12.376	106	21756	3.739	ug/l	96
78) n-propylbenzene	13.018	91	6367	0.359	ug/l	100
80) 1,3,5-Trimethylbenzene	13.153	105	26530	2.173	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	35962	2.942	ug/l	100

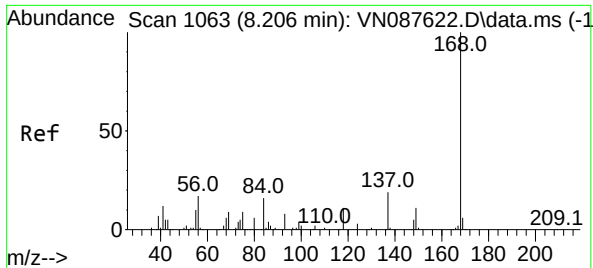
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

Quant Time: Aug 26 01:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

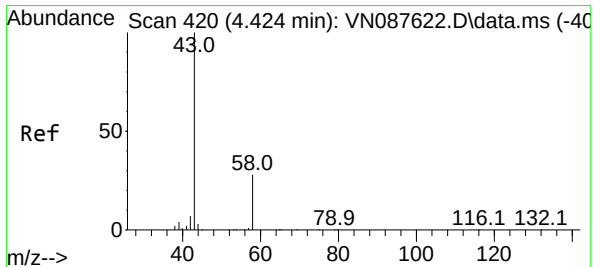
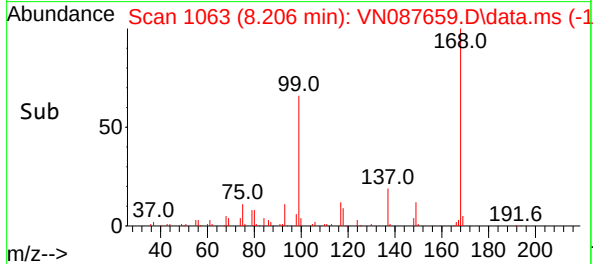
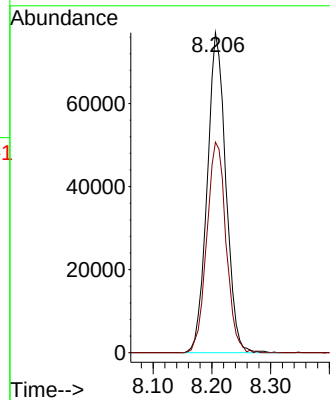
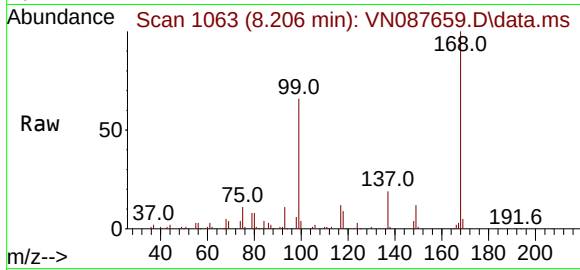




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

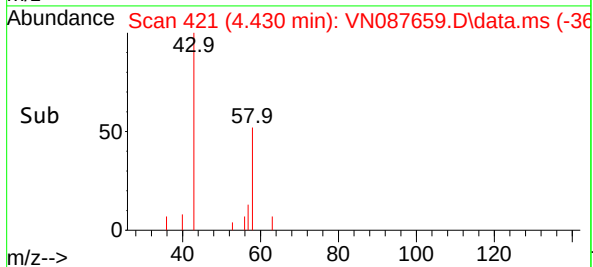
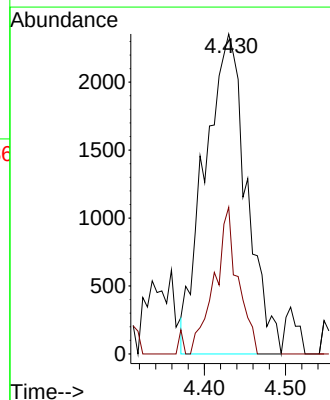
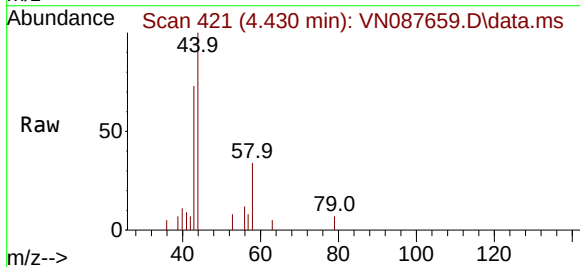
Instrument :
MSVOA_N
ClientSampleId :
MW1

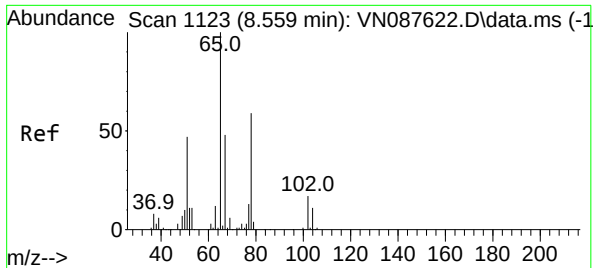
Tgt Ion:168 Resp: 169994
Ion Ratio Lower Upper
168 100
99 65.8 57.2 85.8



#16
Acetone
Concen: 4.456 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 43 Resp: 8448
Ion Ratio Lower Upper
43 100
58 45.9 22.6 33.8#





#33

1,2-Dichloroethane-d4

Concen: 54.974 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087659.D

Acq: 25 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

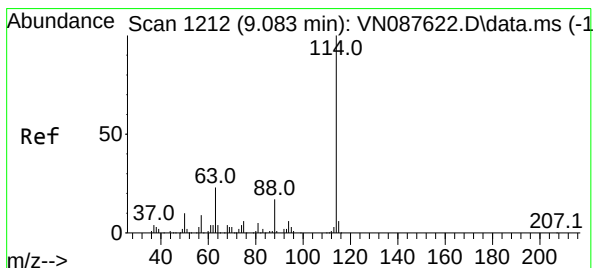
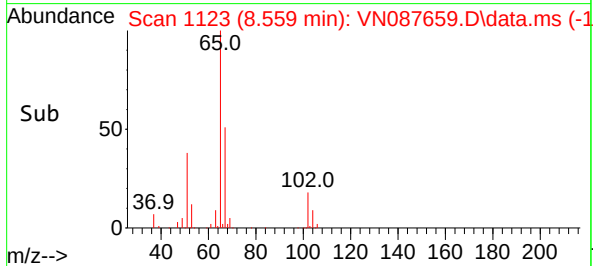
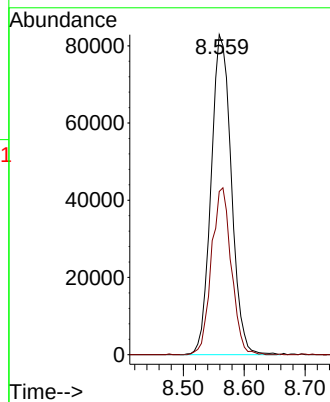
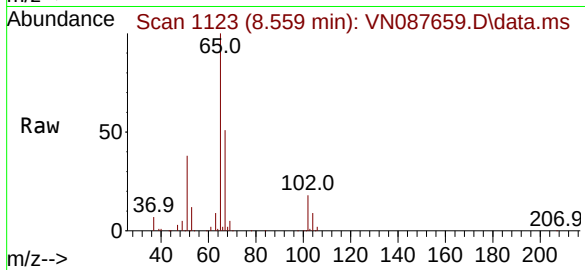
MW1

Tgt Ion: 65 Resp: 191473

Ion Ratio Lower Upper

65 100

67 51.1 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087659.D

Acq: 25 Aug 2025 15:43

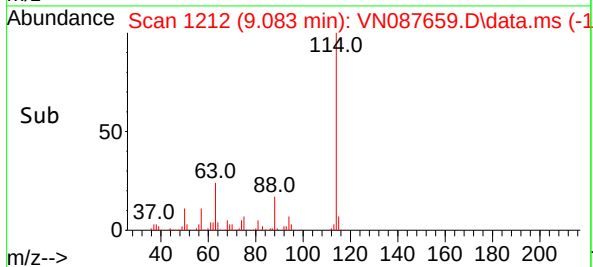
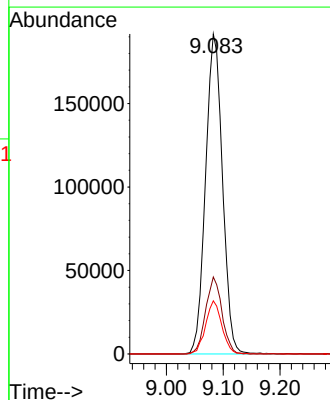
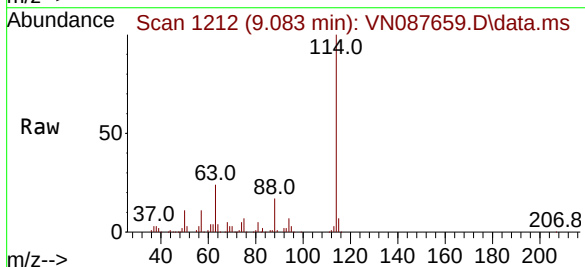
Tgt Ion: 114 Resp: 395366

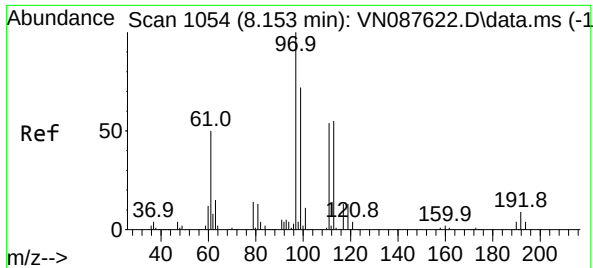
Ion Ratio Lower Upper

114 100

63 24.0 0.0 45.2

88 16.6 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.181 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087659.D

Acq: 25 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

MW1

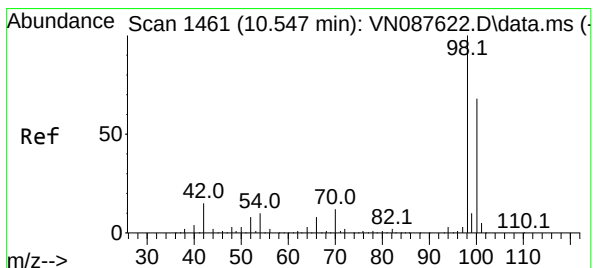
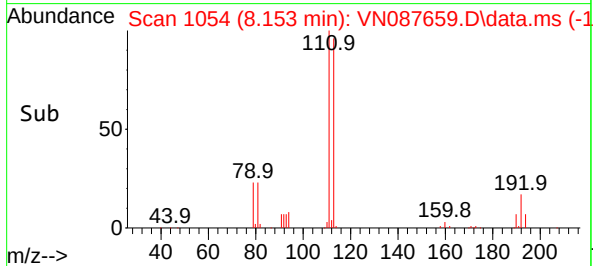
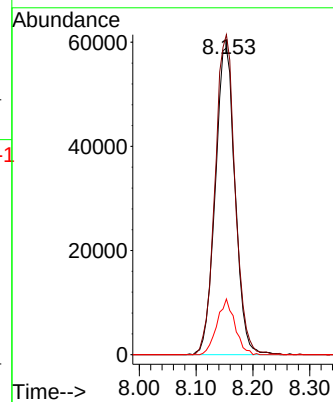
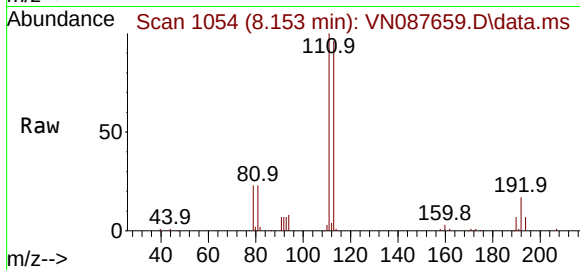
Tgt Ion:113 Resp: 143243

Ion Ratio Lower Upper

113 100

111 104.8 82.8 124.2

192 16.3 12.8 19.2



#50

Toluene-d8

Concen: 47.988 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087659.D

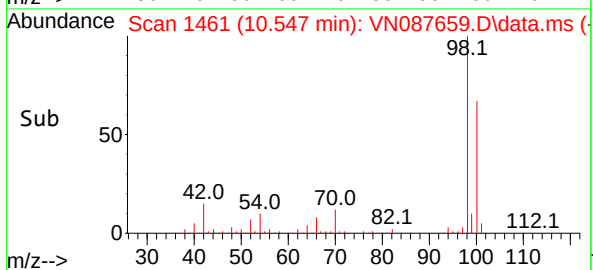
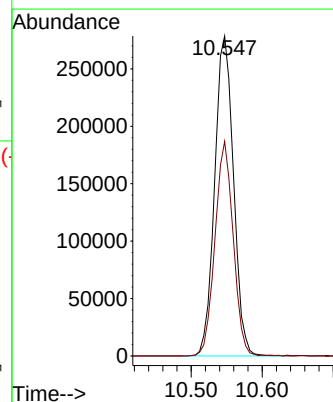
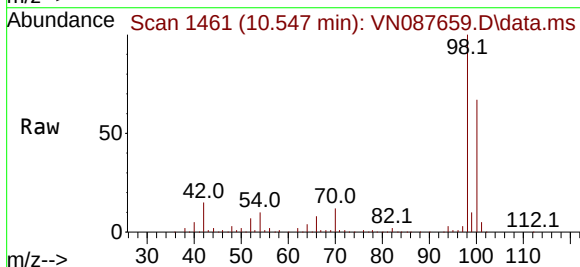
Acq: 25 Aug 2025 15:43

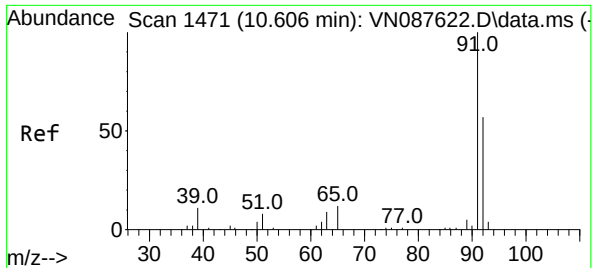
Tgt Ion: 98 Resp: 512701

Ion Ratio Lower Upper

98 100

100 64.9 52.8 79.2

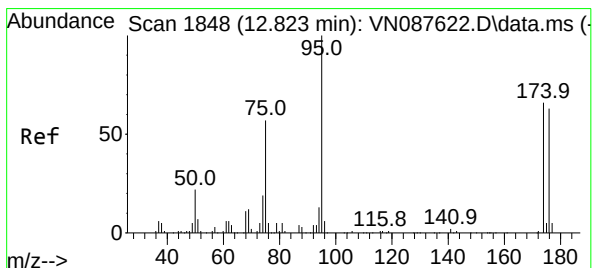
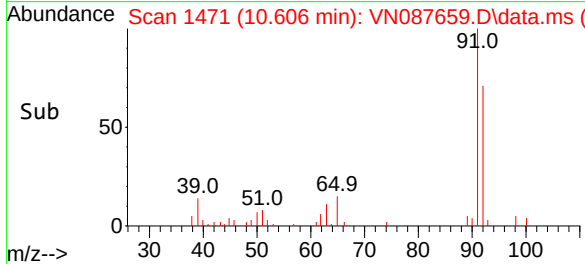
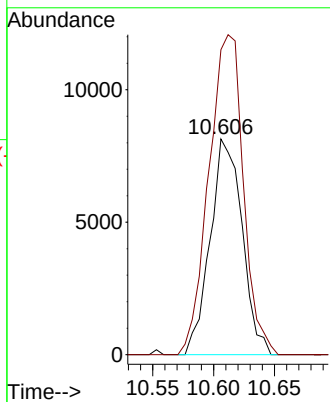
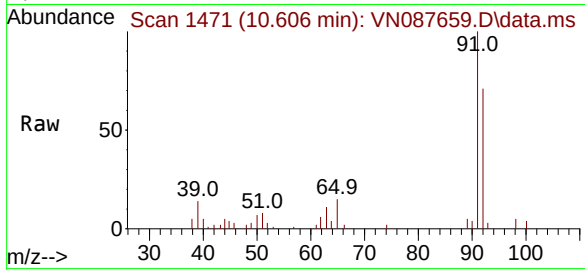




#52
Toluene
Concen: 1.786 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

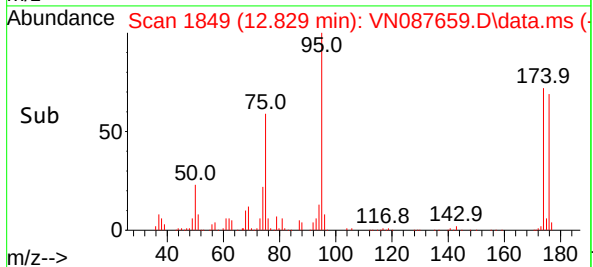
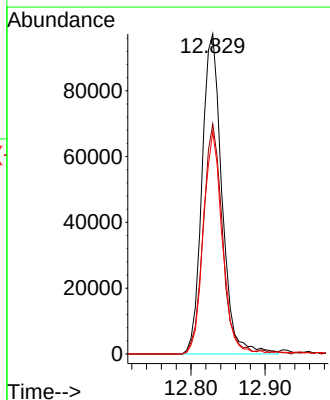
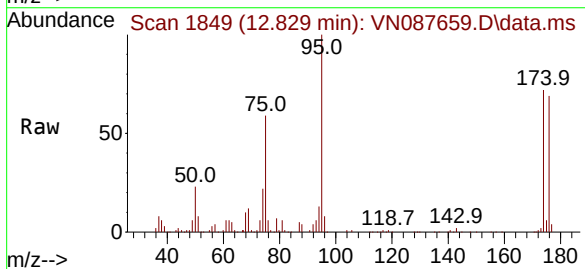
Instrument :
MSVOA_N
ClientSampleId :
MW1

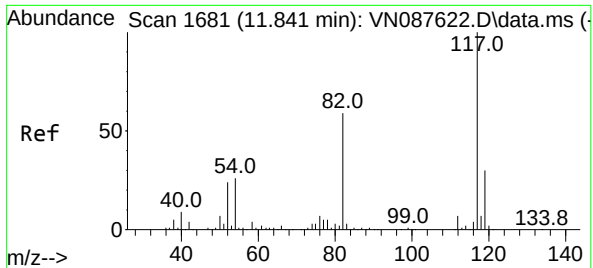
Tgt Ion: 92 Resp: 14874
Ion Ratio Lower Upper
92 100
91 160.2 140.4 210.6



#62
4-Bromofluorobenzene
Concen: 47.761 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 95 Resp: 181471
Ion Ratio Lower Upper
95 100
174 69.0 0.0 138.4
176 66.6 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087659.D

Acq: 25 Aug 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

MW1

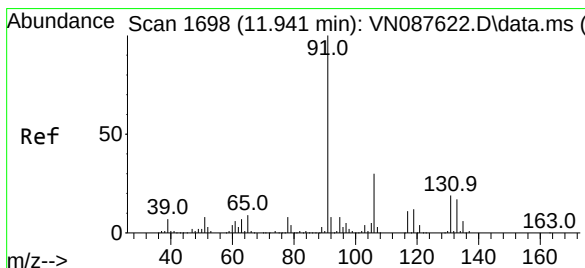
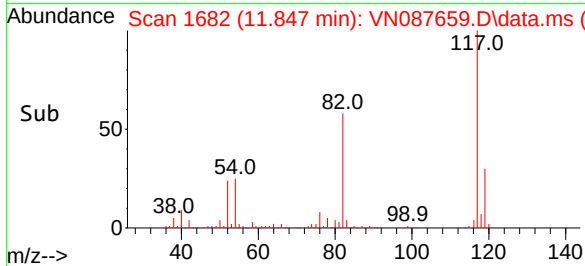
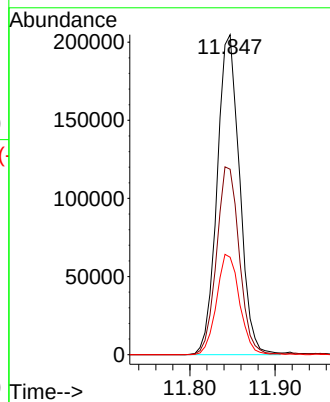
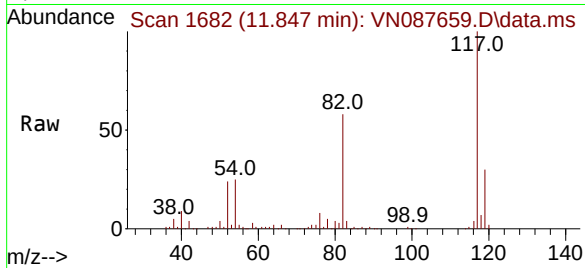
Tgt Ion:117 Resp: 375883

Ion Ratio Lower Upper

117 100

82 57.9 47.4 71.2

119 30.5 24.3 36.5



#67

Ethyl Benzene

Concen: 0.896 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VN087659.D

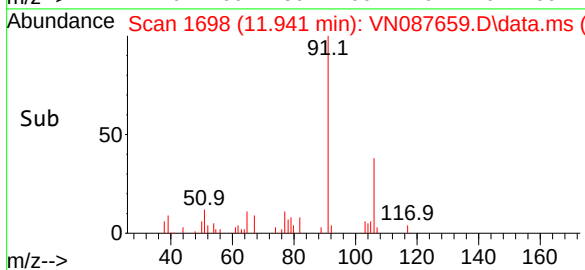
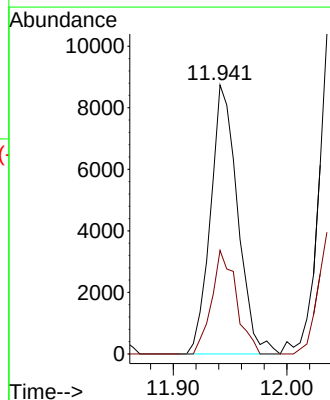
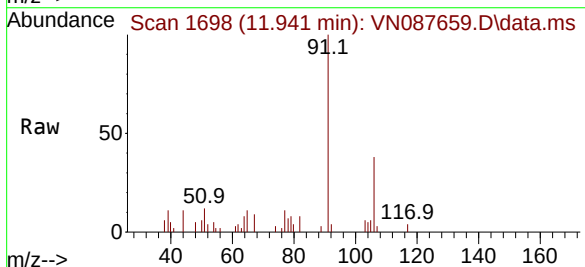
Acq: 25 Aug 2025 15:43

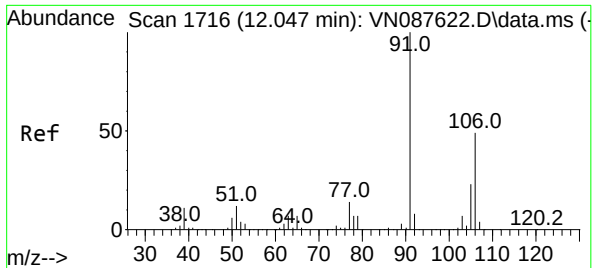
Tgt Ion: 91 Resp: 14504

Ion Ratio Lower Upper

91 100

106 38.5 24.1 36.1#

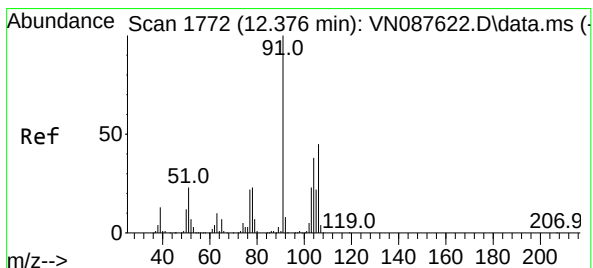
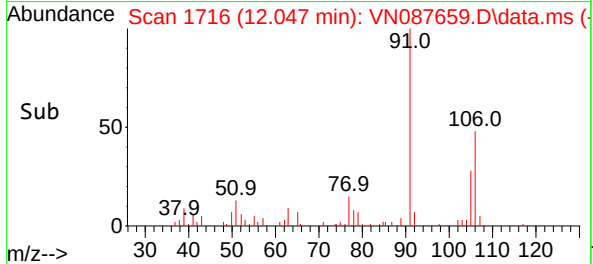
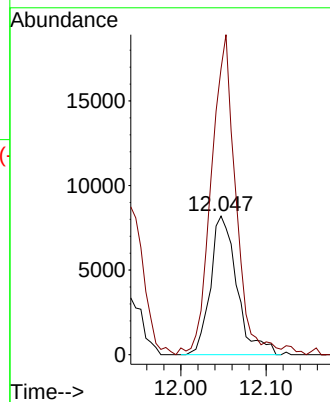
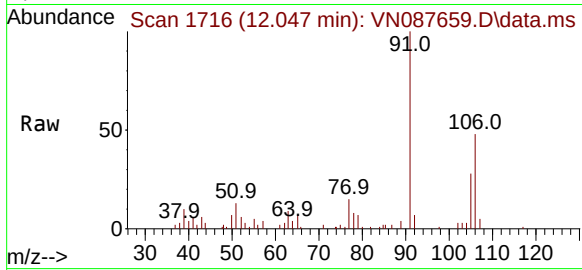




#68
m/p-Xylenes
Concen: 2.979 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

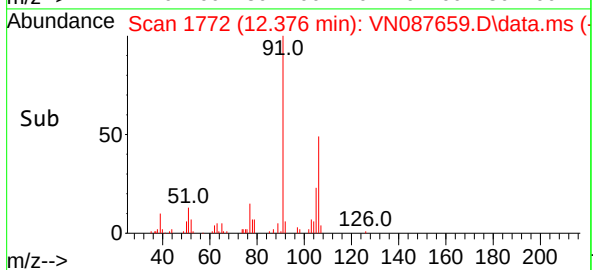
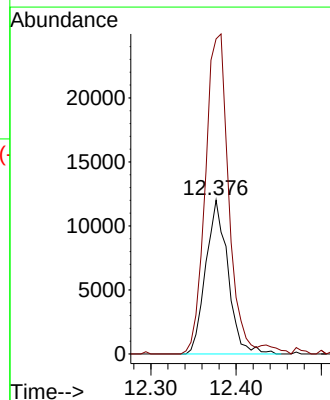
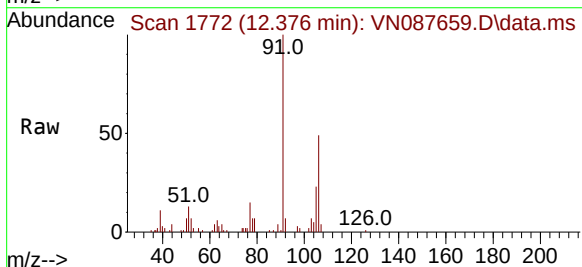
Instrument :
MSVOA_N
ClientSampleId :
MW1

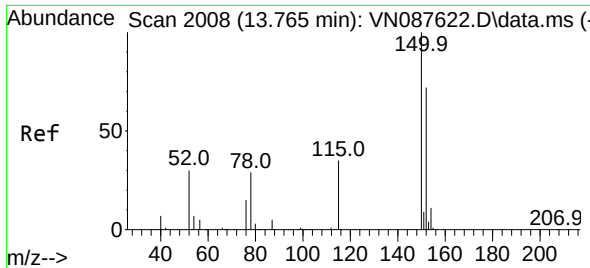
Tgt Ion:106 Resp: 17688
Ion Ratio Lower Upper
106 100
91 213.3 169.3 253.9



#69
o-Xylene
Concen: 3.739 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion:106 Resp: 21756
Ion Ratio Lower Upper
106 100
91 216.7 111.4 334.2

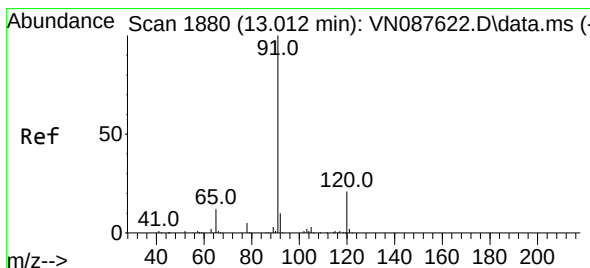
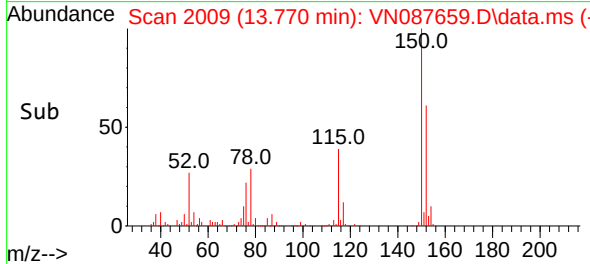
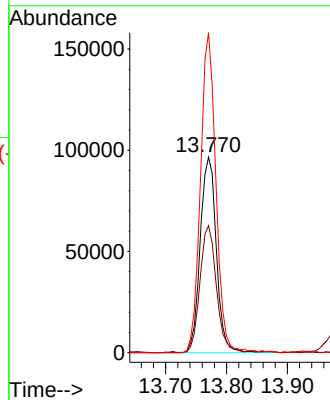
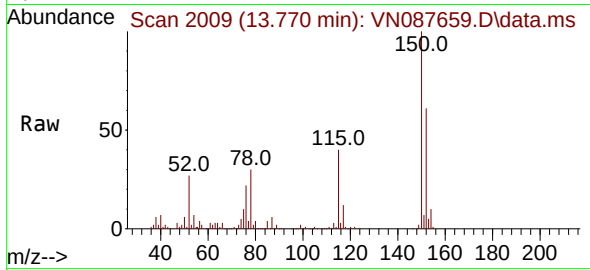




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2008
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

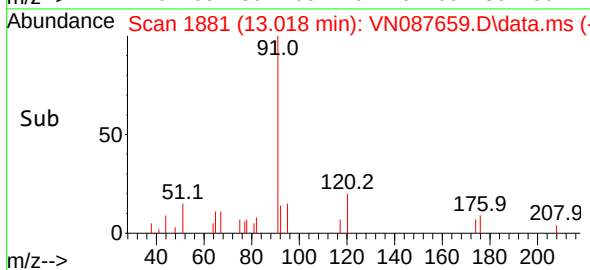
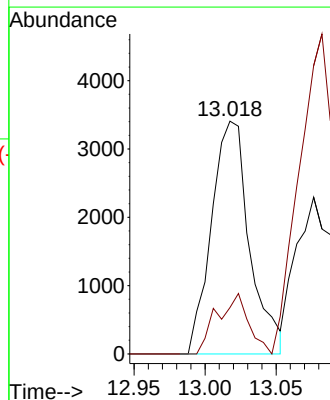
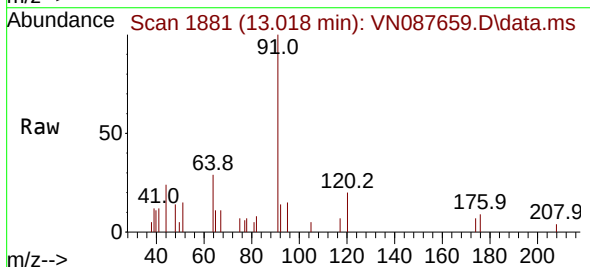
Instrument :
MSVOA_N
ClientSampleId :
MW1

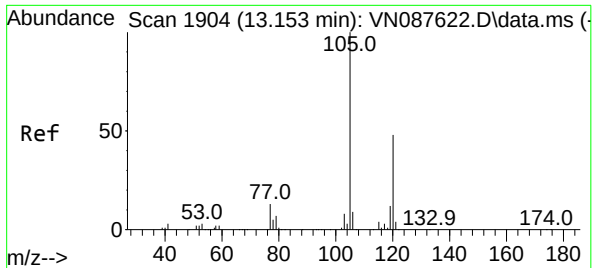
Tgt Ion:152 Resp: 178142
Ion Ratio Lower Upper
152 100
115 65.3 32.3 96.8
150 156.7 0.0 351.0



#78
n-propylbenzene
Concen: 0.359 ug/l
RT: 13.018 min Scan# 1881
Delta R.T. 0.006 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion: 91 Resp: 6367
Ion Ratio Lower Upper
91 100
120 21.5 10.7 32.1

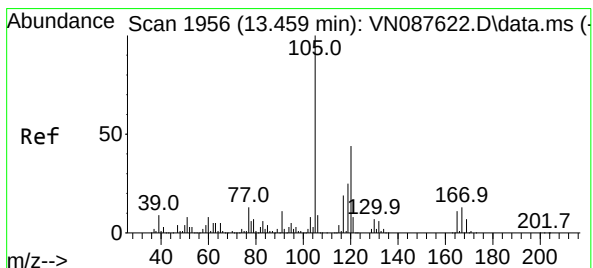
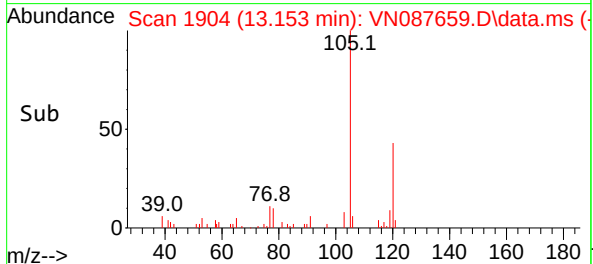
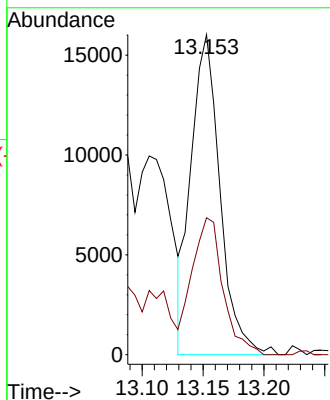
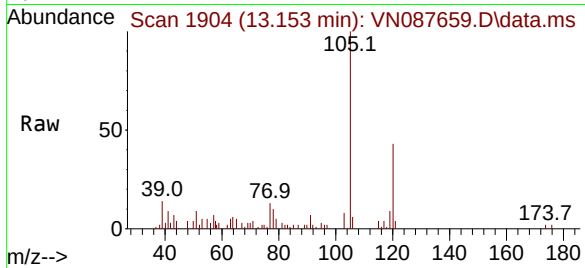




#80
1,3,5-Trimethylbenzene
Concen: 2.173 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

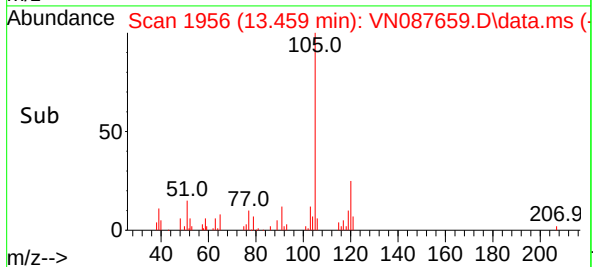
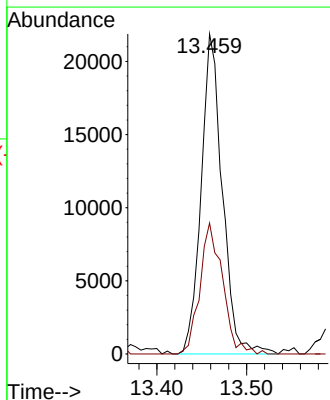
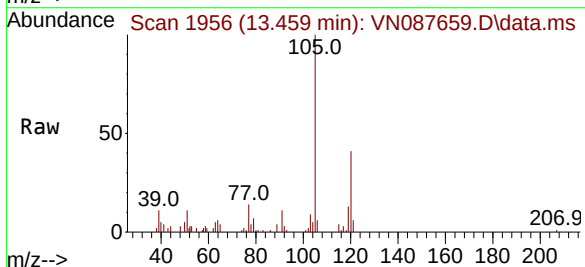
Instrument :
MSVOA_N
ClientSampleId :
MW1

Tgt Ion:105 Resp: 26530
Ion Ratio Lower Upper
105 100
120 45.8 23.2 69.6



#84
1,2,4-Trimethylbenzene
Concen: 2.942 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087659.D
Acq: 25 Aug 2025 15:43

Tgt Ion:105 Resp: 35962
Ion Ratio Lower Upper
105 100
120 43.7 22.0 66.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087659.D
 Acq On : 25 Aug 2025 15:43
 Operator : JC\MD
 Sample : Q2921-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW1

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Title : SW846 8260

Signal : TIC: VN087659.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.153	1043	1054	1058	rBV	200619	479957	33.16%	3.686%
2	8.206	1058	1063	1072	rVB	258964	578210	39.94%	4.441%
3	8.565	1111	1124	1135	rBV	227339	533825	36.88%	4.100%
4	9.083	1204	1212	1225	rBV	492462	1009291	69.72%	7.752%
5	10.547	1450	1461	1468	rBV	783513	1447551	100.00%	11.118%
6	10.612	1468	1472	1478	rVB2	35861	62648	4.33%	0.481%
7	11.841	1673	1681	1693	rBV	679087	1271746	87.86%	9.767%
8	11.941	1693	1698	1707	rVV	24619	49080	3.39%	0.377%
9	12.047	1707	1716	1727	rVB3	56688	126345	8.73%	0.970%
10	12.376	1762	1772	1780	rBV2	77140	155593	10.75%	1.195%
11	12.829	1842	1849	1859	rBV	512729	928885	64.17%	7.134%
12	13.006	1875	1879	1885	rVB6	8967	15399	1.06%	0.118%
13	13.082	1885	1892	1894	rBV2	40195	74414	5.14%	0.572%
14	13.118	1894	1898	1899	rVV3	26532	43644	3.02%	0.335%
15	13.147	1899	1903	1910	rVB4	59228	112083	7.74%	0.861%
16	13.312	1922	1931	1937	rBV	73441	137609	9.51%	1.057%
17	13.459	1951	1956	1968	rVB	64135	107838	7.45%	0.828%
18	13.653	1983	1989	1993	rBV2	24664	39759	2.75%	0.305%
19	13.700	1993	1997	2000	rBV5	9296	14982	1.03%	0.115%
20	13.770	2002	2009	2029	rVB2	688368	1447230	99.98%	11.115%
21	13.929	2031	2036	2038	rBV3	23474	40894	2.83%	0.314%
22	13.970	2038	2043	2046	rBV3	71034	141476	9.77%	1.087%
23	14.082	2058	2062	2071	rBV4	51220	103080	7.12%	0.792%
24	14.159	2071	2075	2081	rVV2	34915	57101	3.94%	0.439%
25	14.217	2082	2085	2088	rVV3	15733	25397	1.75%	0.195%
26	14.247	2088	2090	2094	rVB3	22511	26977	1.86%	0.207%
27	14.306	2095	2100	2107	rVB	65262	107039	7.39%	0.822%
28	14.370	2108	2111	2114	rBV3	10540	14521	1.00%	0.112%
29	14.417	2114	2119	2126	rVB3	76795	134910	9.32%	1.036%
30	14.553	2136	2142	2146	rBV2	52102	84745	5.85%	0.651%
31	14.606	2146	2151	2152	rVV5	22183	29173	2.02%	0.224%
32	14.629	2152	2155	2159	rVV3	51313	87407	6.04%	0.671%
33	14.670	2159	2162	2166	rVV	72660	95965	6.63%	0.737%
34	14.706	2166	2168	2173	rVB4	34438	42035	2.90%	0.323%
35	14.753	2173	2176	2183	rVB6	23769	40846	2.82%	0.314%
36	14.853	2186	2193	2197	rBV8	20822	36066	2.49%	0.277%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Title : SW846 8260

37	14.900	2197	2201	2204	rBV4	55726	96708	6.68%	0.743%
38	14.935	2204	2207	2214	rVB2	81418	132759	9.17%	1.020%
39	15.029	2214	2223	2242	rBV2	210621	597674	41.29%	4.590%
40	15.188	2243	2250	2257	rBV2	112696	218651	15.10%	1.679%
41	15.294	2259	2268	2272	rBV6	74370	171010	11.81%	1.313%
42	15.412	2281	2288	2296	rVB5	92543	244906	16.92%	1.881%
43	15.564	2309	2314	2318	rBV4	36031	71597	4.95%	0.550%
44	15.670	2326	2332	2337	rBV	53296	106917	7.39%	0.821%
45	15.729	2337	2342	2343	rVV5	39868	69632	4.81%	0.535%
46	15.759	2343	2347	2350	rVV4	61367	137714	9.51%	1.058%
47	15.806	2352	2355	2366	rVB3	86744	151381	10.46%	1.163%
48	15.917	2366	2374	2381	rBV3	67833	162420	11.22%	1.247%
49	16.094	2397	2404	2406	rBV4	53916	105368	7.28%	0.809%
50	16.141	2407	2412	2421	rVB2	119371	252756	17.46%	1.941%
51	16.229	2421	2427	2432	rBV5	23394	49060	3.39%	0.377%
52	16.294	2433	2438	2439	rVV4	34163	51898	3.59%	0.399%
53	16.311	2439	2441	2449	rVB2	44635	68155	4.71%	0.523%
54	16.470	2456	2468	2475	rBV3	126317	344834	23.82%	2.648%
55	16.582	2483	2487	2491	rVB6	15785	25143	1.74%	0.193%
56	16.676	2493	2503	2510	rBV4	71725	182788	12.63%	1.404%
57	16.747	2510	2515	2520	rBV3	38576	75322	5.20%	0.578%

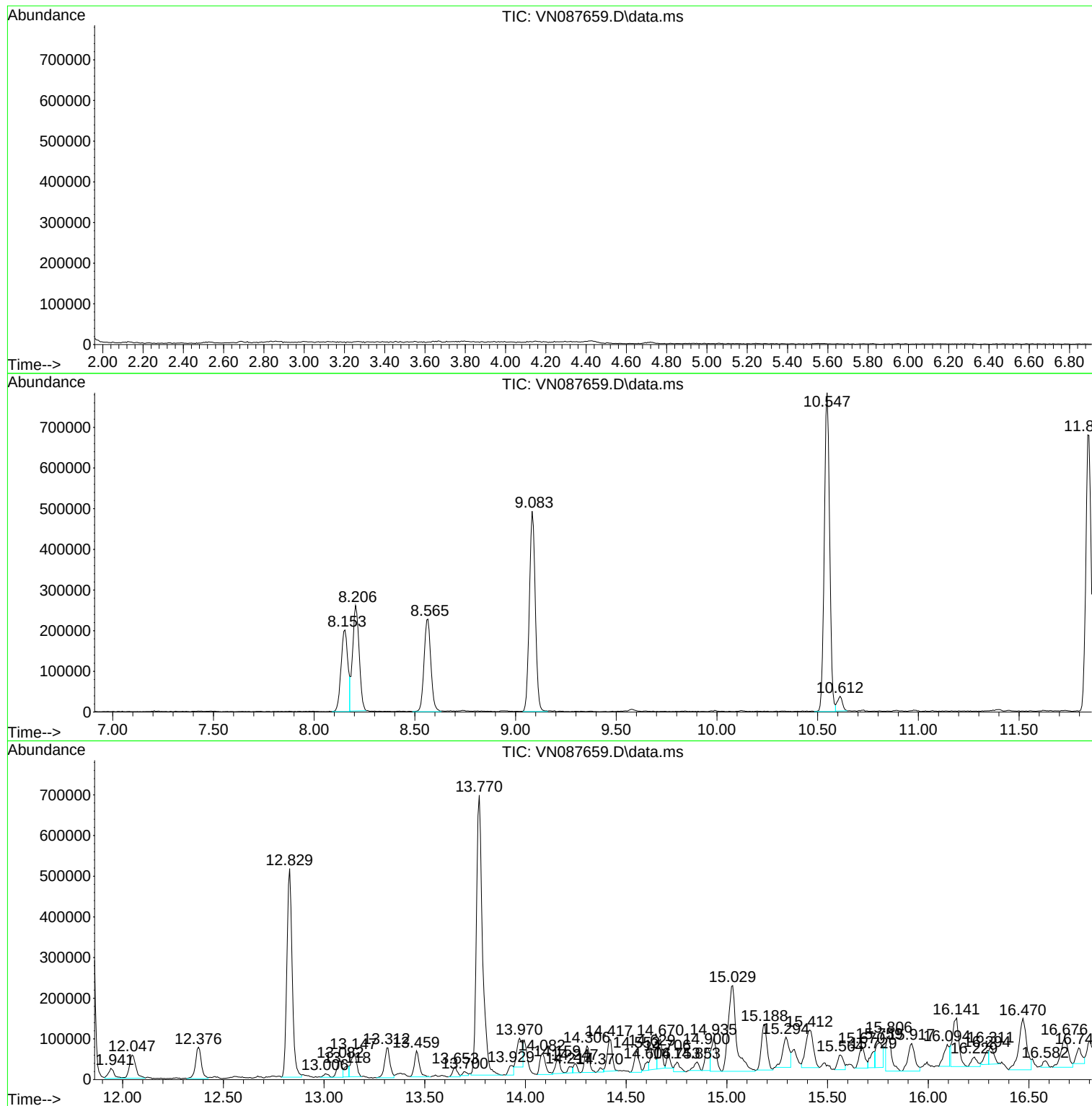
Sum of corrected areas: 13020414

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

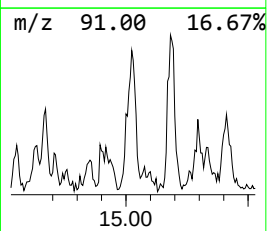
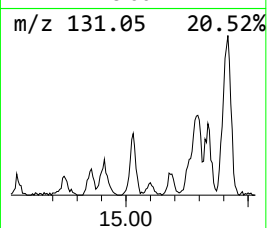
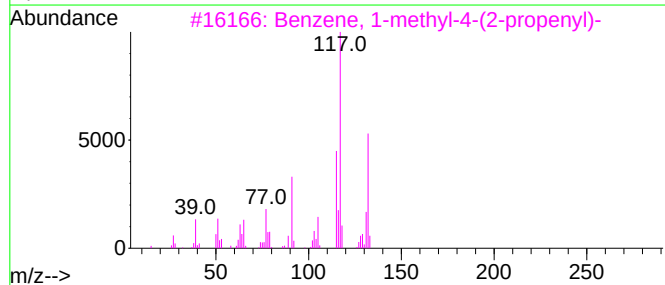
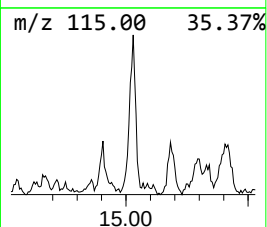
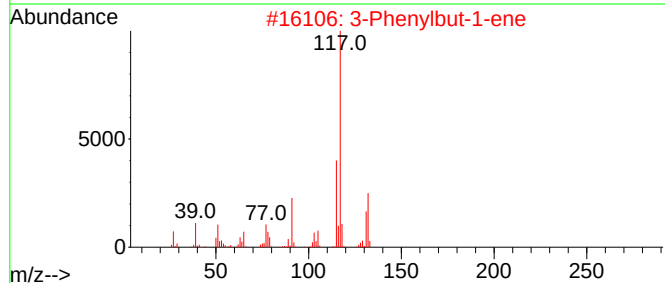
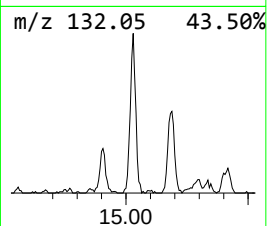
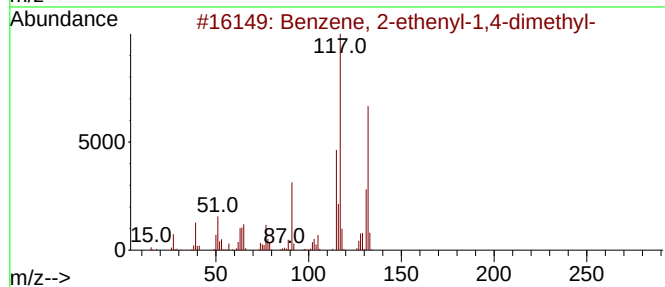
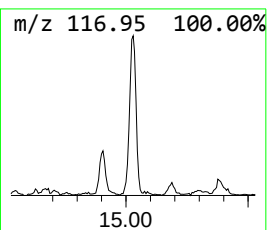
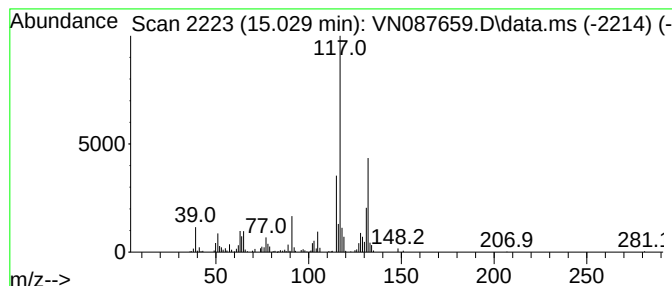
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

Peak Number 1 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.029	20.65 ug/l	597674	1,4-Dichlorobenzene-d4	13.771

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	96
2			3-Phenylbut-1-ene	132	C10H12	000934-10-1	94
3			Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	93
4			Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	91
5			(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

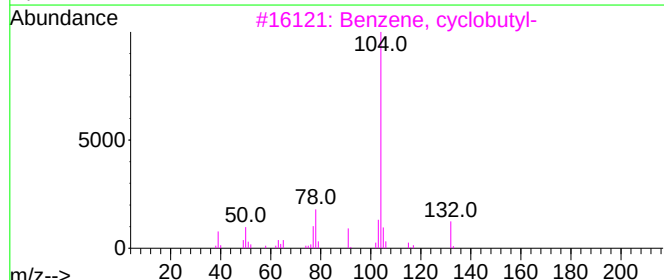
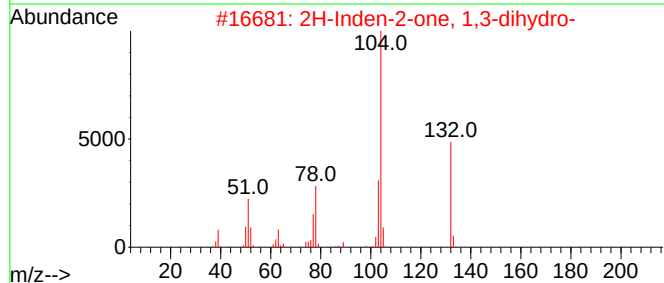
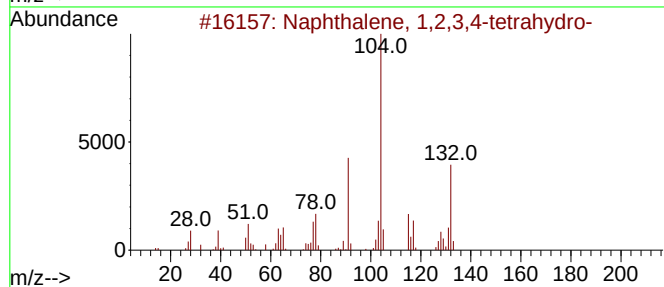
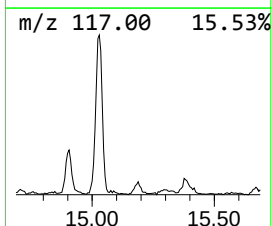
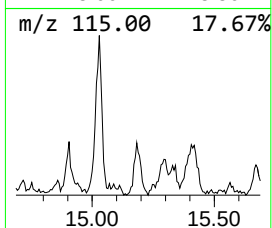
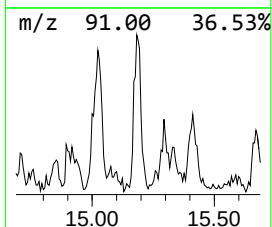
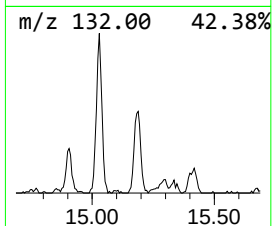
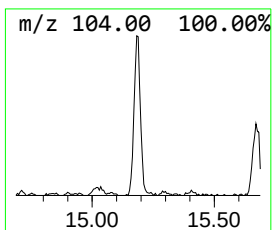
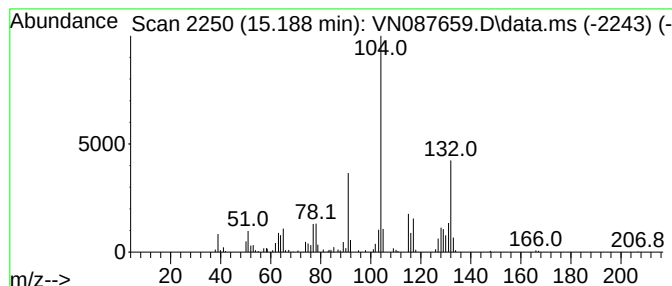
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Quant Title : SW846 8260

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

Peak Number 2 Naphthalene, 1,2,3,4-tetrahydro... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.188	7.55 ug/l	218651	1,4-Dichlorobenzene-d4	13.771

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	97
2			2H-Inden-2-one, 1,3-dihydro-	132	C9H8O	000615-13-4	58
3			Benzene, cyclobutyl-	132	C10H12	004392-30-7	50
4			5,5-Dimethyl-4-phenyldihydrofura...	190	C12H14O2	013133-96-5	43
5			Benzenepropanoic acid, methyl ester	164	C10H12O2	000103-25-3	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

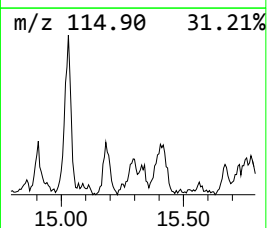
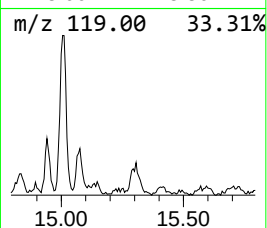
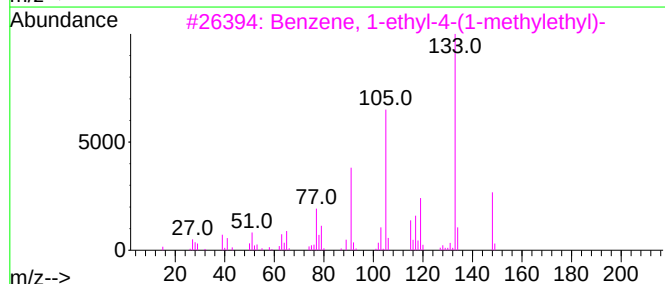
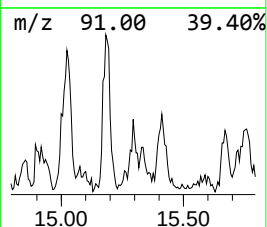
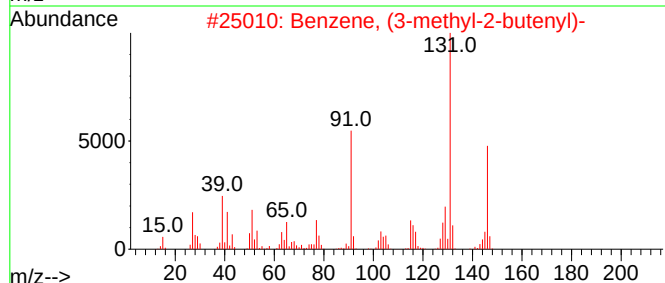
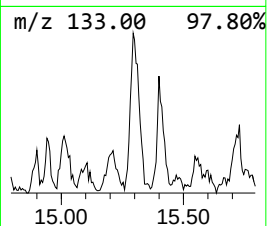
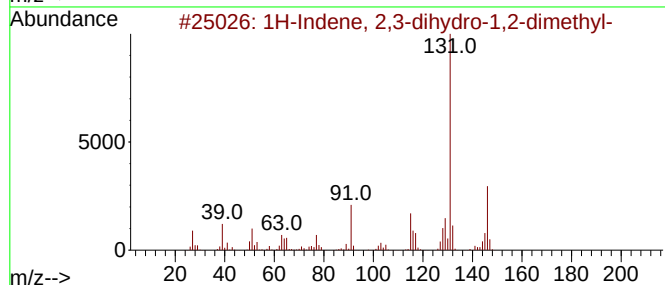
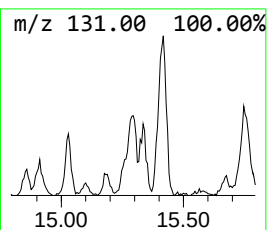
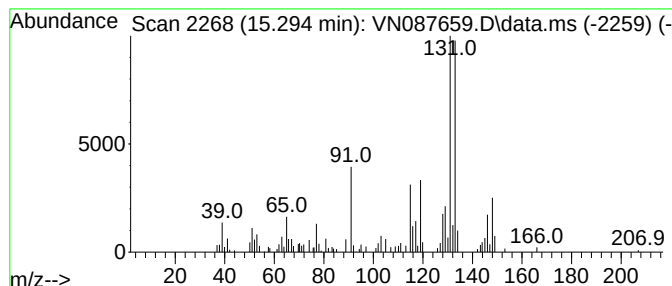
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Quant Title : SW846 8260

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

Peak Number 3 1H-Indene, 2,3-dihydro-1,2-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.294	5.91 ug/l	171010	1,4-Dichlorobenzene-d4	13.771

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	64
2			Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	64
3			Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	46
4			Benzene, (2-chloro-2-butenyl)-	166	C10H11Cl	054411-12-0	46
5			1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	46



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

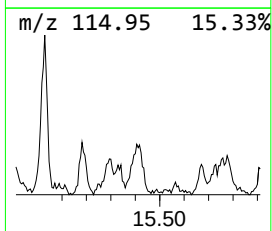
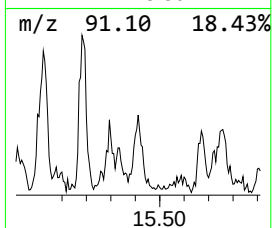
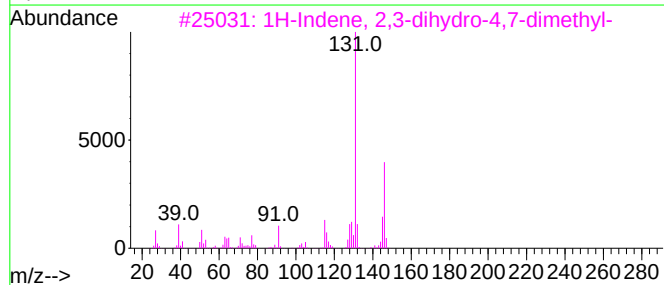
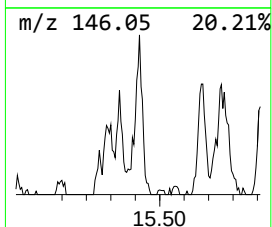
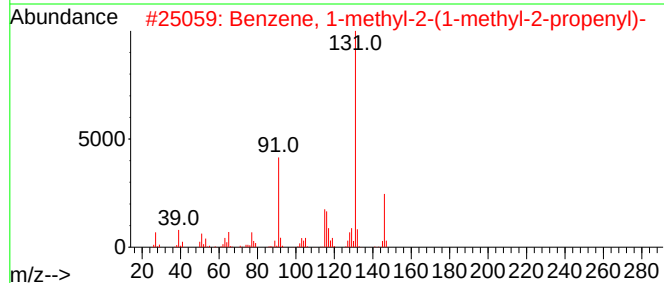
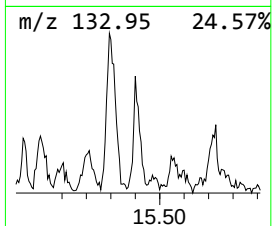
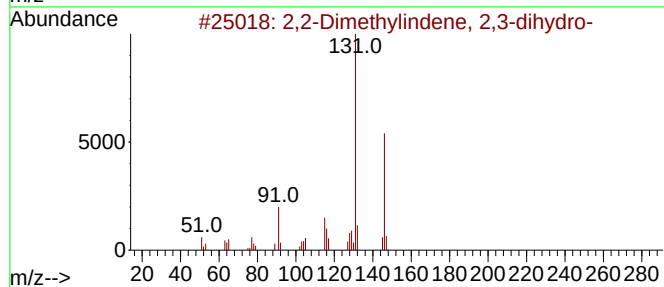
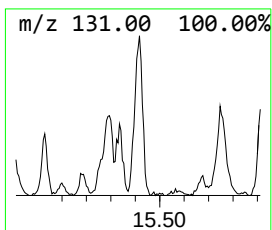
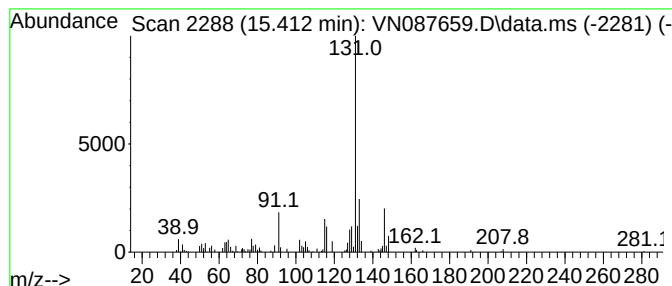
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Quant Title : SW846 8260

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

Peak Number 4 2,2-Dimethylindene, 2,3-dih... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.412	8.46 ug/l	244906	1,4-Dichlorobenzene-d4	13.771

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	90
2			Benzene, 1-methyl-2-(1-methyl-2-...	146	C11H14	097664-19-2	90
3			1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	81
4			1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	81
5			1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

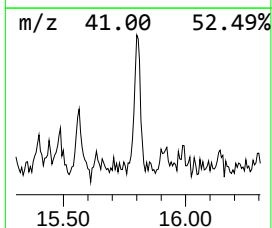
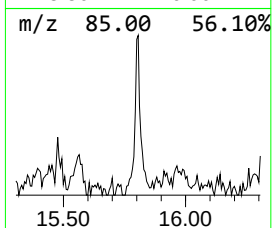
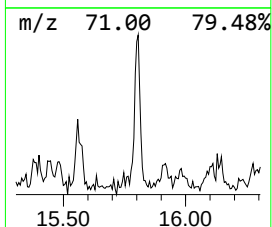
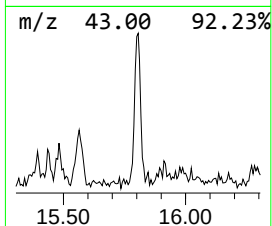
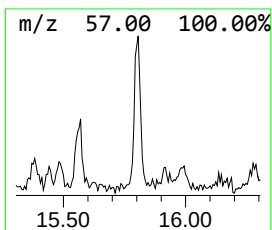
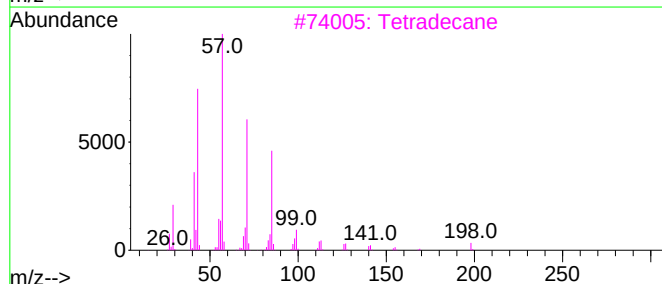
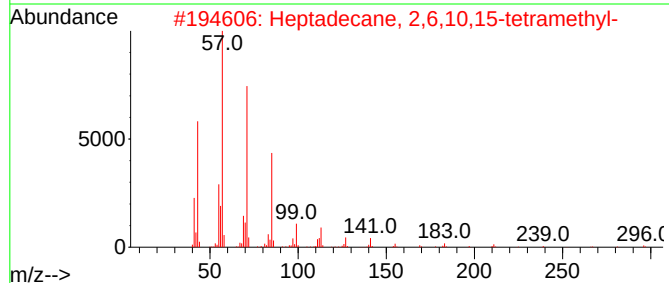
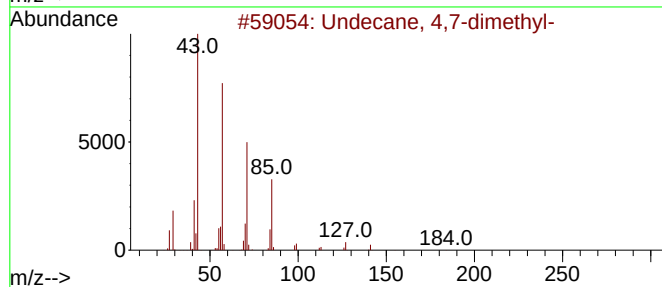
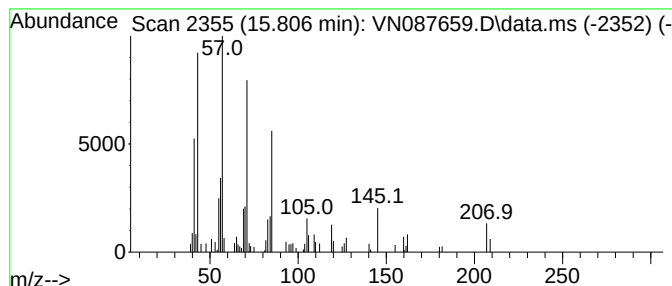
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Quant Title : SW846 8260

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

Peak Number 5 Undecane, 4,7-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.806	5.23 ug/l	151381	1,4-Dichlorobenzene-d4	13.771

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Undecane, 4,7-dimethyl-	184	C13H28	017301-32-5	59
2			Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	53
3			Tetradecane	198	C14H30	000629-59-4	53
4			Ether, hexyl pentyl	172	C11H24O	032357-83-8	50
5			Sulfurous acid, butyl nonyl ester	264	C13H28O3S	1000309-17-6	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

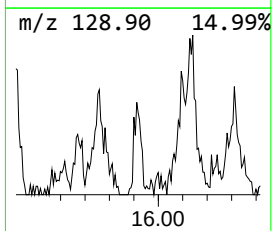
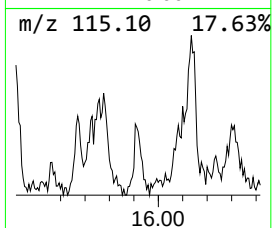
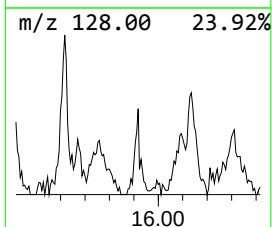
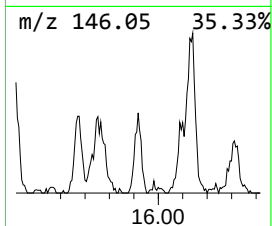
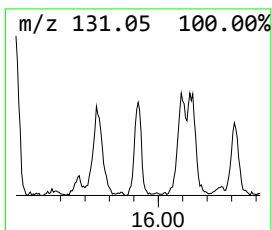
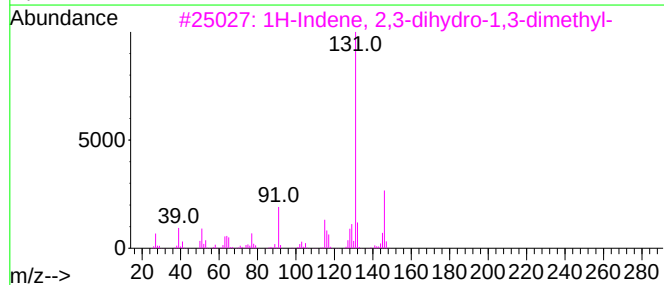
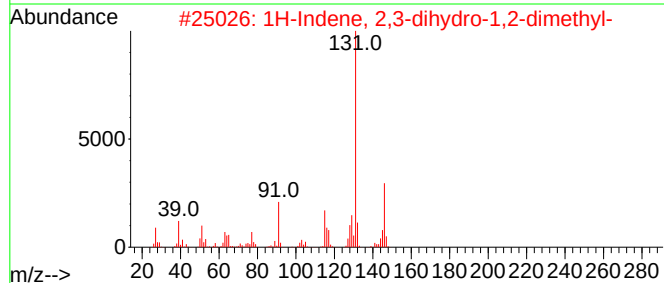
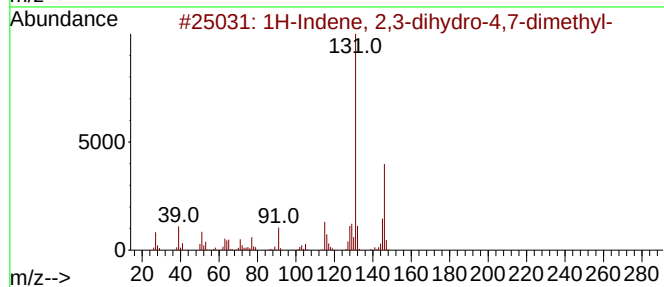
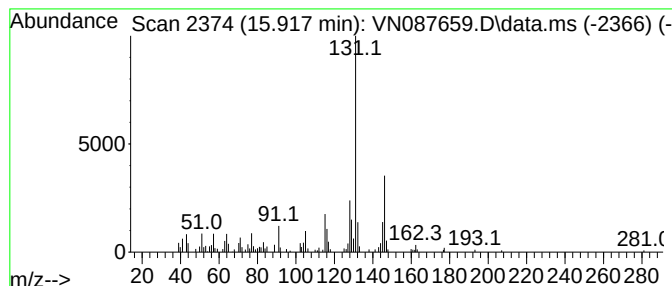
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Quant Title : SW846 8260

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

Peak Number 6 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.917	5.61 ug/l	162420	1,4-Dichlorobenzene-d4	13.771

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	95
2			1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	93
3			1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	91
4			1H-Indene, 2,3-dihydro-5,6-dimet...	146	C11H14	001075-22-5	87
5			1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
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ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

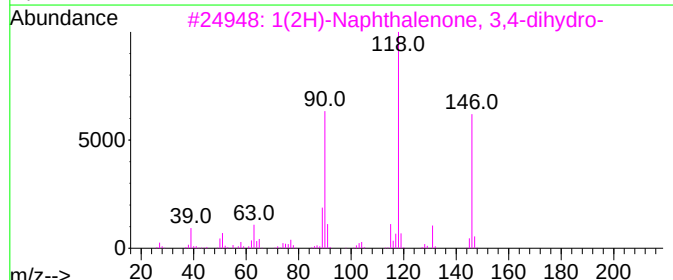
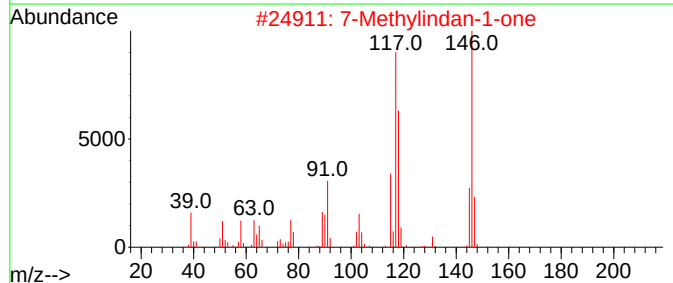
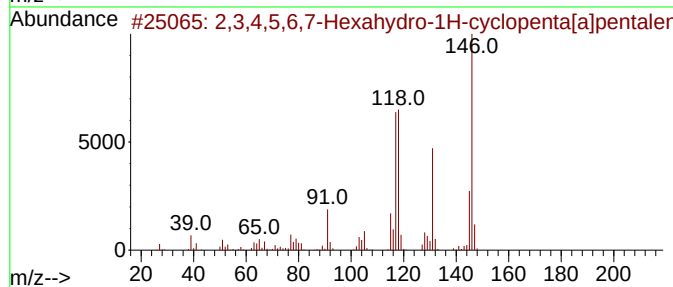
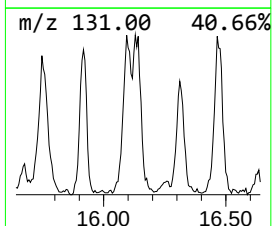
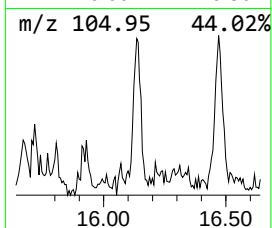
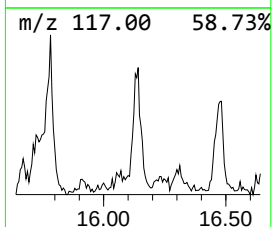
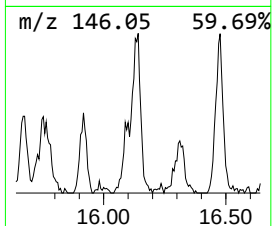
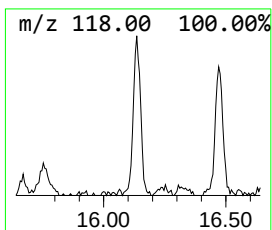
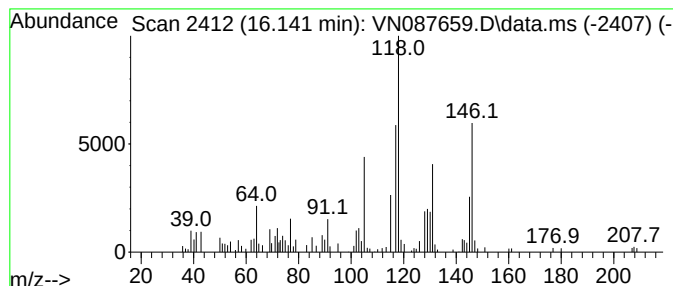
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Quant Title : SW846 8260

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

Peak Number 7 2,3,4,5,6,7-Hexahydro-1H-cy... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.141	8.73 ug/l	252756	1,4-Dichlorobenzene-d4	13.771

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3,4,5,6,7-Hexahydro-1H-cyclope...	146	C11H14	1010189-31-0	50		
2	7-Methylindan-1-one	146	C10H10O	039627-61-7	38		
3	1(2H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000529-34-0	35		
4	Coumarin	146	C9H6O2	000091-64-5	27		
5	1H-Indene-4-carboxaldehyde, 2,3-...	146	C10H10O	051932-70-8	25		



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

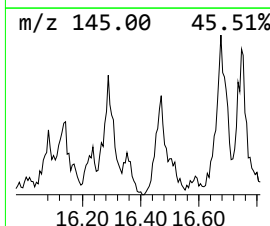
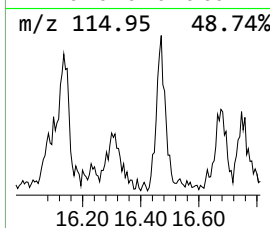
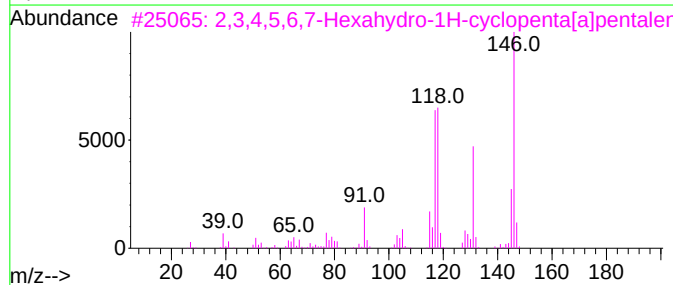
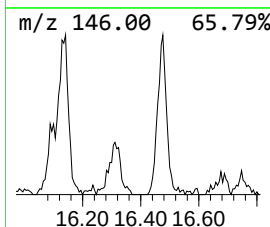
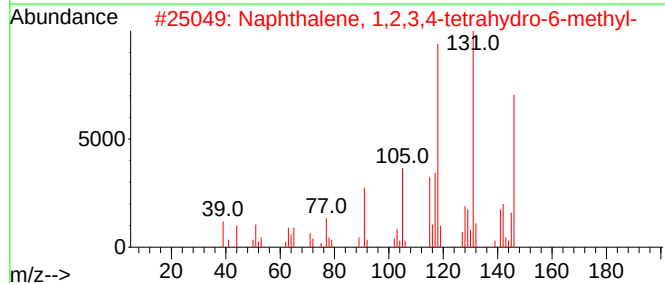
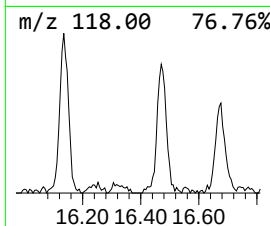
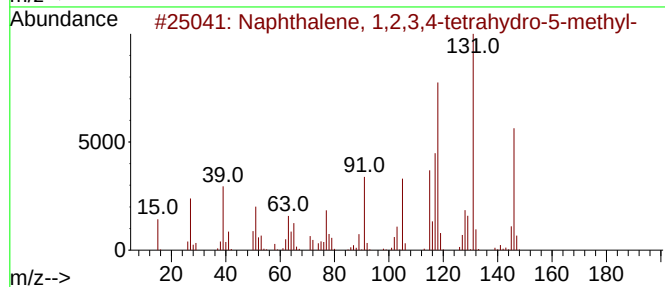
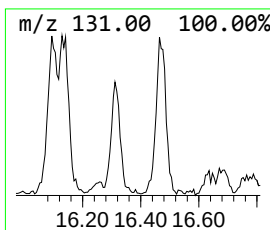
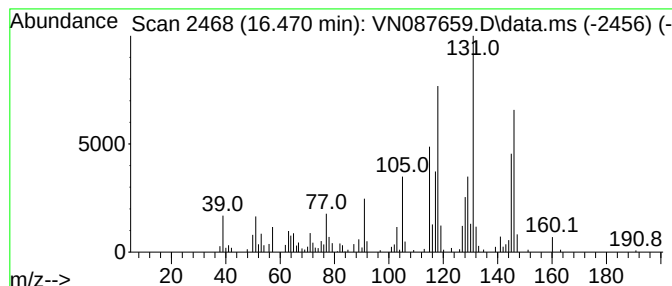
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Quant Title : SW846 8260

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

Peak Number 8 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.470	11.91 ug/l	344834	1,4-Dichlorobenzene-d4	13.771

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	94
2			Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	94
3			2,3,4,5,6,7-Hexahydro-1H-cyclope...	146	C11H14	1010189-31-0	68
4			1H-1,3,2-Benzodiazaborole, 2-eth...	146	C8H11BN2	074663-81-3	62
5			Benzene, 2-ethenyl-1,3,5-trimethyl-	146	C11H14	000769-25-5	60



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

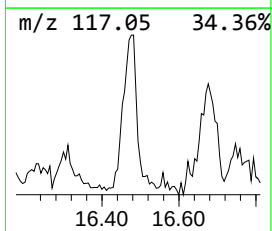
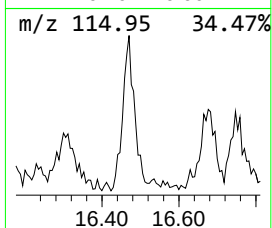
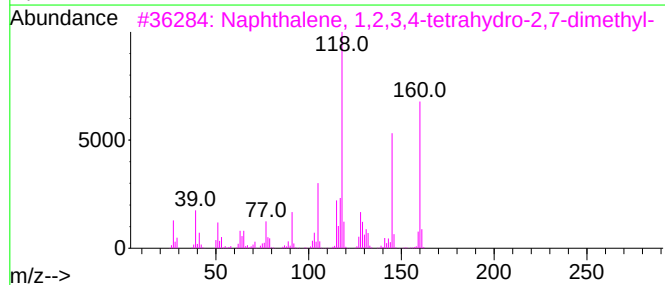
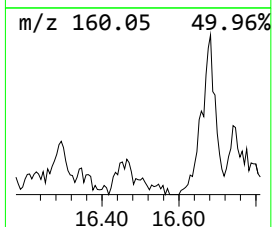
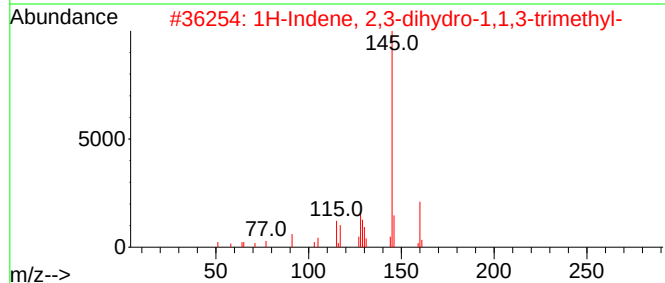
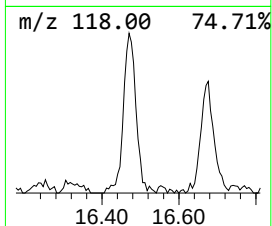
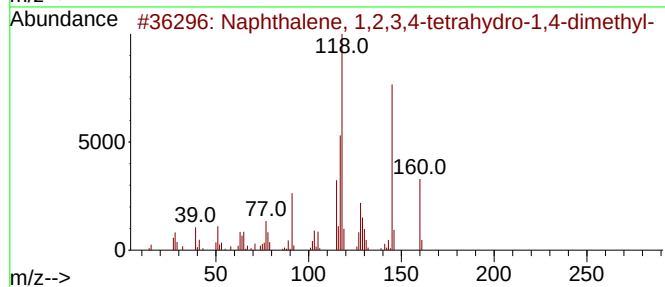
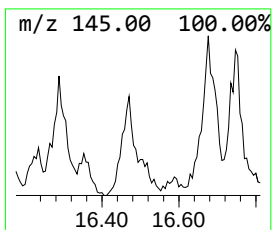
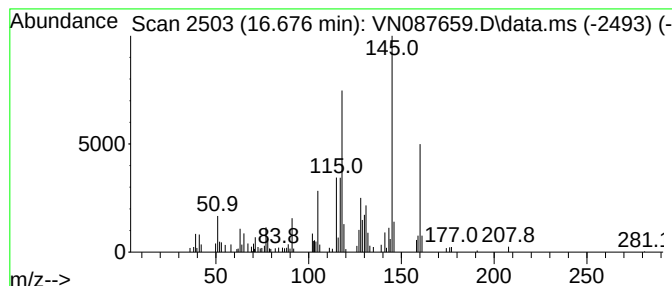
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

Peak Number 9 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.676	6.32 ug/l	182788	1,4-Dichlorobenzene-d4	13.771

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	004175-54-6	93
2			1H-Indene, 2,3-dihydro-1,1,3-tri...	160	C12H16	002613-76-5	91
3			Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	013065-07-1	70
4			Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	021564-91-0	70
5			Benzene, 4-(2-butenyl)-1,2-dimet...	160	C12H16	054340-86-2	70



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087659.D
Acq On : 25 Aug 2025 15:43
Operator : JC\MD
Sample : Q2921-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Benzene, 2-ethe...	15.029	20.6	ug/l	597674	4	13.771	1447230	50.0
Naphthalene, 1,...	15.188	7.5	ug/l	218651	4	13.771	1447230	50.0
1H-Indene, 2,3-...	15.294	5.9	ug/l	171010	4	13.771	1447230	50.0
2,2-Dimethylind...	15.412	8.5	ug/l	244906	4	13.771	1447230	50.0
Undecane, 4,7-d...	15.806	5.2	ug/l	151381	4	13.771	1447230	50.0
1H-Indene, 2,3-...	15.917	5.6	ug/l	162420	4	13.771	1447230	50.0
2,3,4,5,6,7-Hex...	16.141	8.7	ug/l	252756	4	13.771	1447230	50.0
Naphthalene, 1,...	16.470	11.9	ug/l	344834	4	13.771	1447230	50.0
Naphthalene, 1,...	16.676	6.3	ug/l	182788	4	13.771	1447230	50.0



CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG No.: Q2921
 Instrument ID: MSVOA_N Calibration Date(s): 08/21/2025 08/21/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:09 14:44
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF001 = VN087619.D	RRF005 = VN087620.D	RRF020 = VN087621.D	RRF050 = VN087622.D	RRF100 = VN087623.D	RRF150 = VN087624.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.707	0.579	0.606	0.810	0.777	0.782	0.710	13.7
Chloromethane	0.739	0.637	0.710	0.795	0.752	0.747	0.730	7.3
Vinyl Chloride	0.909	0.739	0.832	0.903	0.847	0.846	0.846	7.3
Bromomethane		0.388	0.393	0.448	0.466	0.488	0.437	10.2
Chloroethane	0.727	0.528	0.599	0.603	0.558	0.554	0.595	11.9
Trichlorofluoromethane	1.323	1.139	1.242	1.274	1.227	1.233	1.240	4.9
1,1,2-Trichlorotrifluoroethane	0.879	0.648	0.677	0.695	0.654	0.656	0.701	12.6
1,1-Dichloroethene	0.892	0.649	0.730	0.700	0.667	0.687	0.721	12.3
Acetone	0.633	0.634	0.584	0.522	0.484	0.489	0.558	12.3
Carbon Disulfide	2.272	1.746	1.970	2.003	1.937	1.979	1.985	8.5
Methyl tert-butyl Ether	2.859	2.508	2.740	2.733	2.643	2.742	2.704	4.4
Methyl Acetate	1.450	1.043	1.097	1.157	1.117	1.141	1.168	12.3
Methylene Chloride	1.494	0.916	0.875	0.823	0.779	0.799	0.948	28.8
trans-1,2-Dichloroethene	0.952	0.734	0.768	0.750	0.737	0.745	0.781	10.8
1,1-Dichloroethane	1.798	1.500	1.549	1.501	1.454	1.471	1.546	8.3
Cyclohexane		1.490	1.310	1.234	1.201	1.207	1.289	9.4
2-Butanone	0.783	0.722	0.757	0.732	0.700	0.707	0.734	4.3
Carbon Tetrachloride	0.571	0.509	0.568	0.542	0.549	0.542	0.547	4.1
cis-1,2-Dichloroethene	0.997	0.916	0.937	0.941	0.908	0.905	0.934	3.7
Bromochloromethane	0.800	0.781	0.722	0.701	0.748	0.731	0.747	5
Chloroform	1.677	1.535	1.629	1.579	1.519	1.528	1.578	4
1,1,1-Trichloroethane	1.510	1.297	1.359	1.303	1.265	1.288	1.337	6.8
Methylcyclohexane	0.686	0.580	0.610	0.590	0.597	0.596	0.610	6.3
Benzene	1.853	1.637	1.727	1.684	1.639	1.652	1.699	4.9
1,2-Dichloroethane	0.714	0.627	0.675	0.650	0.624	0.626	0.653	5.5
Trichloroethene	0.435	0.387	0.390	0.377	0.367	0.370	0.388	6.5
1,2-Dichloropropane	0.544	0.435	0.447	0.433	0.415	0.412	0.448	11
Bromodichloromethane	0.686	0.649	0.667	0.638	0.638	0.639	0.653	3
4-Methyl-2-Pentanone	0.701	0.675	0.744	0.736	0.718	0.704	0.713	3.5
Toluene	1.148	0.987	1.062	1.050	1.037	1.033	1.053	5

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG No.: Q2921
 Instrument ID: MSVOA_N Calibration Date(s): 08/21/2025 08/21/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:09 14:44
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF001 = VN087619.D		RRF005 = VN087620.D		RRF020 = VN087621.D			
		RRF050 = VN087622.D		RRF100 = VN087623.D		RRF150 = VN087624.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.620	0.628	0.691	0.703	0.699	0.715	0.676	6.1	
cis-1,3-Dichloropropene	0.717	0.640	0.712	0.718	0.714	0.710	0.702	4.3	
1,1,2-Trichloroethane	0.439	0.383	0.417	0.408	0.400	0.397	0.407	4.7	
2-Hexanone	0.295	0.390	0.493	0.510	0.508	0.507	0.451	19.8	
Dibromochloromethane	0.535	0.440	0.458	0.466	0.465	0.468	0.472	6.8	
1,2-Dibromoethane	0.412	0.433	0.444	0.432	0.429	0.427	0.430	2.4	
Tetrachloroethene	0.447	0.353	0.340	0.313	0.315	0.313	0.347	14.9	
Chlorobenzene	1.408	1.164	1.253	1.210	1.216	1.212	1.244	6.9	
Ethyl Benzene	2.232	1.993	2.224	2.144	2.152	2.178	2.154	4	
m/p-Xylenes	0.759	0.735	0.811	0.812	0.808	0.814	0.790	4.3	
o-Xylene	0.777	0.707	0.794	0.796	0.788	0.784	0.774	4.3	
Styrene	1.142	1.086	1.391	1.382	1.386	1.393	1.297	11	
Bromoform	0.303	0.285	0.320	0.320	0.336	0.336	0.317	6.3	
Isopropylbenzene	4.328	3.674	4.096	4.026	3.998	4.120	4.040	5.3	
1,1,2,2-Tetrachloroethane	1.488	1.381	1.421	1.363	1.322	1.371	1.391	4.1	
1,3-Dichlorobenzene	2.087	1.770	1.940	1.827	1.806	1.826	1.876	6.3	
1,4-Dichlorobenzene	2.348	1.884	1.956	1.867	1.818	1.841	1.952	10.2	
1,2-Dichlorobenzene	1.942	1.662	1.853	1.755	1.723	1.743	1.780	5.7	
1,2-Dibromo-3-Chloropropane	0.370	0.323	0.329	0.317	0.313	0.330	0.330	6.2	
1,2,4-Trichlorobenzene	1.192	0.995	1.081	1.026	1.040	1.079	1.069	6.4	
1,2,3-Trichlorobenzene	1.140	0.972	1.059	1.006	1.019	1.072	1.045	5.7	
1,2-Dichloroethane-d4		1.025	1.016	0.959	1.035	1.089	1.024	4.5	
Dibromofluoromethane		0.369	0.344	0.334	0.373	0.386	0.361	6	
Toluene-d8		1.384	1.266	1.223	1.408	1.475	1.351	7.7	
4-Bromofluorobenzene		0.446	0.454	0.450	0.514	0.540	0.481	9	

* 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 : 82N082125W.M
 Title : SW846 8260
 Last Update : Fri Aug 22 02:55:42 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN087619.D 5 =VN087620.D 20 =VN087621.D 50 =VN087622.D 100 =VN087623.D 150 =VN087624.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.707	0.579	0.606	0.810	0.777	0.782	0.710	13.74
3) P	Chloromethane	0.739	0.637	0.710	0.795	0.752	0.747	0.730	7.27
4) C	Vinyl Chloride	0.909	0.739	0.832	0.903	0.847	0.846	0.846	7.29#
5) T	Bromomethane		0.388	0.393	0.448	0.466	0.488	0.437	10.17
6) T	Chloroethane	0.727	0.528	0.599	0.603	0.558	0.554	0.595	11.88
7) T	Trichlorofluor...	1.323	1.139	1.242	1.274	1.227	1.233	1.240	4.91
8) T	Diethyl Ether	0.637	0.501	0.544	0.529	0.510	0.519	0.540	9.22
9) T	1,1,2-Trichlor...	0.879	0.648	0.677	0.695	0.654	0.656	0.701	12.62
10) T	Methyl Iodide		0.265	0.355	0.481	0.562	0.586	0.450	30.46
11) T	Tert butyl alc...		0.170	0.187	0.184	0.174	0.174	0.178	4.02
12) CM	1,1-Dichloroet...	0.892	0.649	0.730	0.700	0.667	0.687	0.721	12.28#
13) T	Acrolein		0.251	0.198	0.215	0.196	0.233	0.219	10.78
14) T	Allyl chloride	1.577	1.184	1.254	1.240	1.208	1.376	1.306	11.34
15) T	Acrylonitrile	0.555	0.466	0.510	0.498	0.487	0.493	0.502	6.00
16) T	Acetone	0.633	0.634	0.584	0.522	0.484	0.489	0.558	12.34
17) T	Carbon Disulfide	2.272	1.746	1.970	2.003	1.937	1.979	1.985	8.51
18) T	Methyl Acetate	1.450	1.043	1.097	1.157	1.117	1.141	1.168	12.33
19) T	Methyl tert-bu...	2.859	2.508	2.740	2.733	2.643	2.742	2.704	4.37
20) T	Methylene Chlo...	1.494	0.916	0.875	0.823	0.779	0.799	0.948	28.76
21) T	trans-1,2-Dich...	0.952	0.734	0.768	0.750	0.737	0.745	0.781	10.83
22) T	Diisopropyl ether	2.977	2.591	2.903	2.870	2.766	2.807	2.819	4.74
23) T	Vinyl Acetate	2.629	2.379	2.484	2.692	2.576	2.629	2.565	4.46
24) P	1,1-Dichloroet...	1.798	1.500	1.549	1.501	1.454	1.471	1.546	8.28
25) T	2-Butanone	0.783	0.722	0.757	0.732	0.700	0.707	0.734	4.31
26) T	2,2-Dichloropr...	1.500	1.243	1.326	1.317	1.277	1.296	1.327	6.78
27) T	cis-1,2-Dichlo...	0.997	0.916	0.937	0.941	0.908	0.905	0.934	3.67
28) T	Bromochloromet...	0.800	0.781	0.722	0.701	0.748	0.731	0.747	4.95
29) T	Tetrahydrofuran	0.520	0.432	0.479	0.474	0.461	0.468	0.472	6.01
30) C	Chloroform	1.677	1.535	1.629	1.579	1.519	1.528	1.578	4.03#
31) T	Cyclohexane		1.490	1.310	1.234	1.201	1.207	1.289	9.38
32) T	1,1,1-Trichlor...	1.510	1.297	1.359	1.303	1.265	1.288	1.337	6.75
33) S	1,2-Dichloroet...		1.025	1.016	0.959	1.035	1.089	1.024	4.53
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.369	0.344	0.334	0.373	0.386	0.361	5.97
36) T	1,1-Dichloropr...	0.700	0.508	0.550	0.528	0.522	0.514	0.554	13.21
37) T	Ethyl Acetate	0.877	0.700	0.761	0.742	0.731	0.731	0.757	8.20
38) T	Carbon Tetrach...	0.571	0.509	0.568	0.542	0.549	0.542	0.547	4.12
39) T	Methylcyclohexane	0.686	0.580	0.610	0.590	0.597	0.596	0.610	6.33
40) TM	Benzene	1.853	1.637	1.727	1.684	1.639	1.652	1.699	4.88
41) T	Methacrylonitrile	0.466	0.346	0.388	0.389	0.384	0.379	0.392	10.06
42) TM	1,2-Dichloroet...	0.714	0.627	0.675	0.650	0.624	0.626	0.653	5.48
43) T	Isopropyl Acetate	1.236	1.076	1.215	1.198	1.187	1.178	1.182	4.71
44) TM	Trichloroethene	0.435	0.387	0.390	0.377	0.367	0.370	0.388	6.46
45) C	1,2-Dichloropr...	0.544	0.435	0.447	0.433	0.415	0.412	0.448	10.96#
46) T	Dibromomethane	0.351	0.294	0.327	0.318	0.310	0.312	0.319	6.06
47) T	Bromodichlorom...	0.686	0.649	0.667	0.638	0.638	0.639	0.653	3.01
48) T	Methyl methacr...	0.598	0.493	0.572	0.558	0.565	0.567	0.559	6.26
49) T	1,4-Dioxane	0.006	0.007	0.008	0.008	0.008	0.007	0.007	11.46
50) S	Toluene-d8		1.384	1.266	1.223	1.408	1.475	1.351	7.68
51) T	4-Methyl-2-Pen...	0.701	0.675	0.744	0.736	0.718	0.704	0.713	3.55
52) CM	Toluene	1.148	0.987	1.062	1.050	1.037	1.033	1.053	5.03#
53) T	t-1,3-Dichloro...	0.620	0.628	0.691	0.703	0.699	0.715	0.676	6.08
54) T	cis-1,3-Dichlo...	0.717	0.640	0.712	0.718	0.714	0.710	0.702	4.32
55) T	1,1,2-Trichlor...	0.439	0.383	0.417	0.408	0.400	0.397	0.407	4.69
56) T	Ethyl methacry...	0.532	0.546	0.681	0.705	0.715	0.727	0.651	13.55

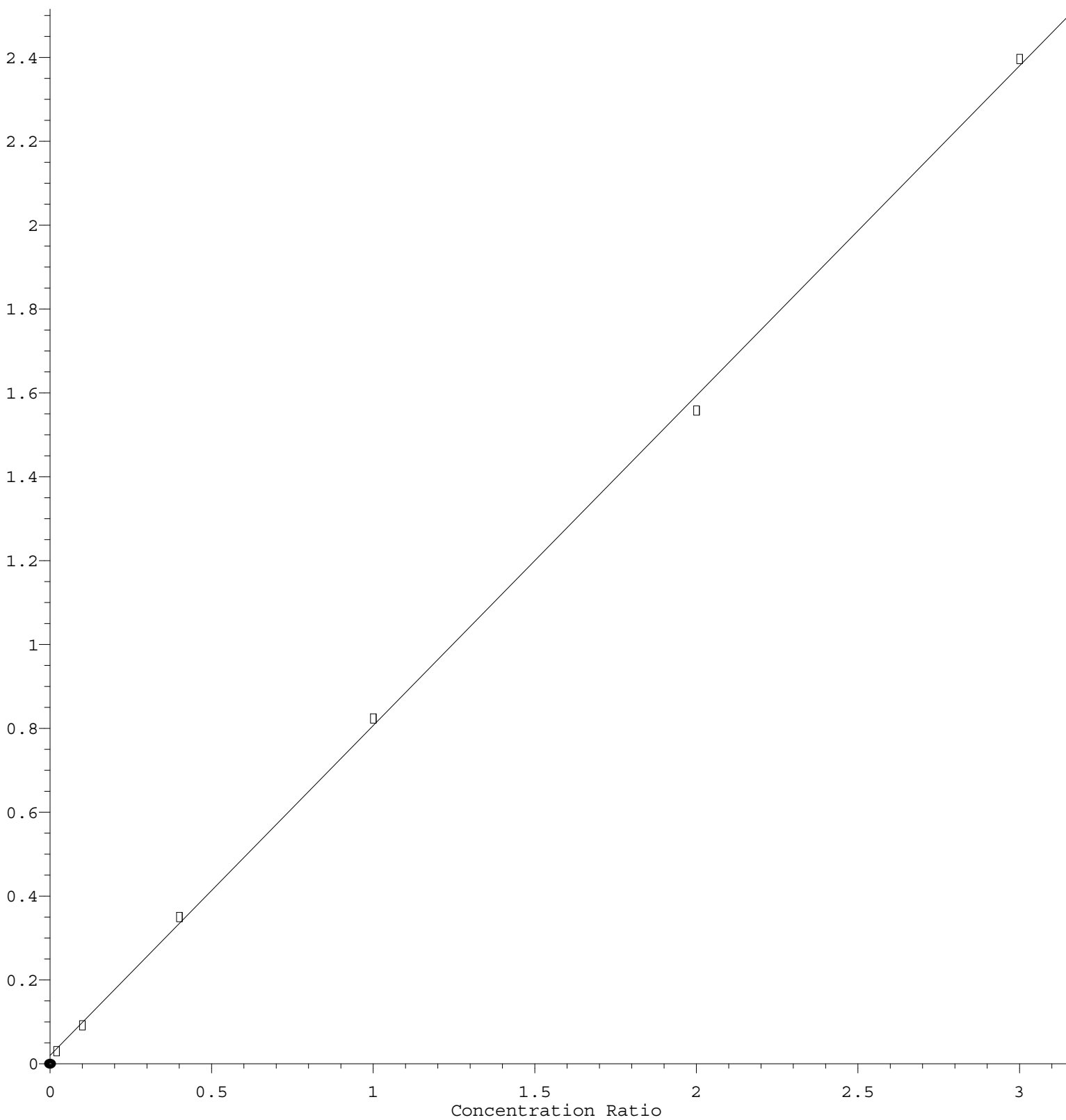
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N082125W.M

57)	T	1,3-Dichloropr...	0.781	0.656	0.743	0.731	0.708	0.706	0.721	5.80
58)	T	2-Chloroethyl ...	0.360	0.333	0.305	0.354	0.374	0.388	0.352	8.40
59)	T	2-Hexanone	0.295	0.390	0.493	0.510	0.508	0.507	0.451	19.77
60)	T	Dibromochlorom...	0.535	0.440	0.458	0.466	0.465	0.468	0.472	6.85
61)	T	1,2-Dibromoethane	0.412	0.433	0.444	0.432	0.429	0.427	0.430	2.44
62)	S	4-Bromofluorob...	0.446	0.454	0.450	0.514	0.540	0.481		8.99
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.447	0.353	0.340	0.313	0.315	0.313	0.347	14.89
65)	PM	Chlorobenzene	1.408	1.164	1.253	1.210	1.216	1.212	1.244	6.85
66)	T	1,1,1,2-Tetrac...	0.391	0.404	0.427	0.421	0.416	0.418	0.413	3.14
67)	C	Ethyl Benzene	2.232	1.993	2.224	2.144	2.152	2.178	2.154	4.03#
68)	T	m/p-Xylenes	0.759	0.735	0.811	0.812	0.808	0.814	0.790	4.33
69)	T	o-Xylene	0.777	0.707	0.794	0.796	0.788	0.784	0.774	4.35
70)	T	Styrene	1.142	1.086	1.391	1.382	1.386	1.393	1.297	10.99
71)	P	Bromoform	0.303	0.285	0.320	0.320	0.336	0.336	0.317	6.27
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.328	3.674	4.096	4.026	3.998	4.120	4.040	5.29
74)	T	N-amyl acetate	1.569	1.538	1.265	1.555	1.527	1.733	1.531	9.86
75)	P	1,1,2,2-Tetrac...	1.488	1.381	1.421	1.363	1.322	1.371	1.391	4.12
76)	T	1,2,3-Trichlor...	1.274	1.171	1.188	1.073	1.074	1.256	1.173	7.36
77)	T	Bromobenzene	1.019	0.901	0.988	0.941	0.929	0.938	0.953	4.51
78)	T	n-propylbenzene	5.137	4.545	5.125	5.024	4.965	5.064	4.977	4.44
79)	T	2-Chlorotoluene	2.911	2.953	3.116	2.976	2.975	3.037	2.995	2.41
80)	T	1,3,5-Trimethy...	3.586	3.159	3.498	3.471	3.398	3.452	3.428	4.24
81)	T	trans-1,4-Dich...	0.332	0.416	0.451	0.493	0.523	0.443		16.70
82)	T	4-Chlorotoluene	3.352	3.001	3.225	3.153	3.069	3.093	3.149	3.98
83)	T	tert-Butylbenzene	2.913	2.674	2.899	2.911	2.857	2.884	2.856	3.22
84)	T	1,2,4-Trimethy...	3.502	3.091	3.551	3.496	3.471	3.476	3.431	4.93
85)	T	sec-Butylbenzene	4.464	4.019	4.367	4.225	4.163	4.194	4.239	3.71
86)	T	p-Isopropyltol...	3.656	3.249	3.550	3.530	3.502	3.512	3.500	3.85
87)	T	1,3-Dichlorobe...	2.087	1.770	1.940	1.827	1.806	1.826	1.876	6.29
88)	T	1,4-Dichlorobe...	2.348	1.884	1.956	1.867	1.818	1.841	1.952	10.22
89)	T	n-Butylbenzene	3.764	3.208	3.589	3.461	3.398	3.435	3.476	5.40
90)	T	Hexachloroethane	0.742	0.606	0.680	0.655	0.649	0.669	0.667	6.69
91)	T	1,2-Dichlorobe...	1.942	1.662	1.853	1.755	1.723	1.743	1.780	5.66
92)	T	1,2-Dibromo-3-...	0.370	0.323	0.329	0.317	0.313	0.330	0.330	6.21
93)	T	1,2,4-Trichlor...	1.192	0.995	1.081	1.026	1.040	1.079	1.069	6.43
94)	T	Hexachlorobuta...	0.469	0.371	0.385	0.355	0.346	0.361	0.381	11.80
95)	T	Naphthalene	3.989	3.240	3.724	3.754	3.917	4.089	3.786	7.95
96)	T	1,2,3-Trichlor...	1.140	0.972	1.059	1.006	1.019	1.072	1.045	5.68

(#) = Out of Range

Methylene Chloride

Response Ratio



$$\text{Response} = 7.866\text{e-}001 * \text{Amt} + 2.003\text{e-}002$$

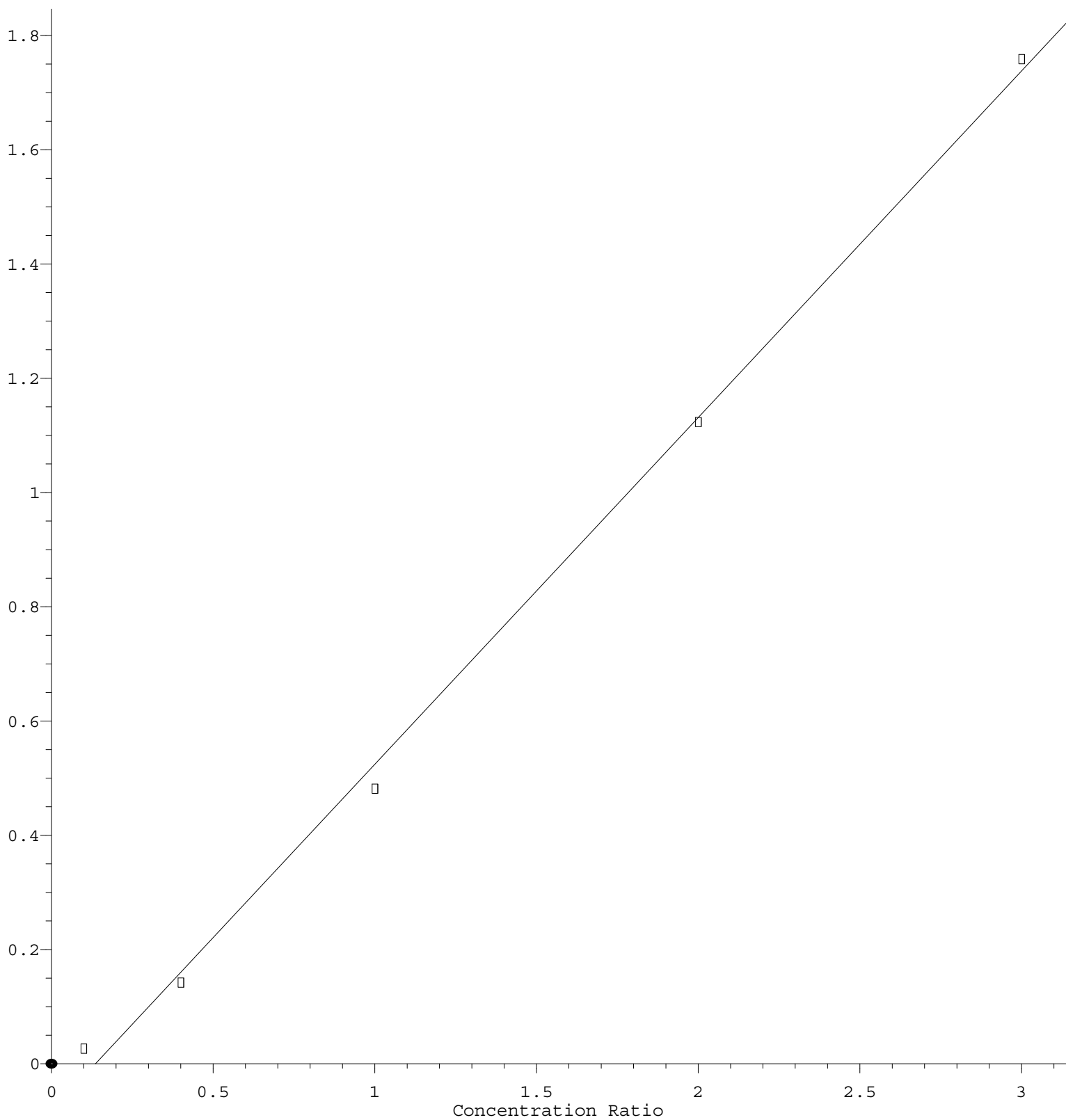
Coef of Det (r^2) = 0.999518 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N082125W.M

Calibration Table Last Updated: Fri Aug 22 02:55:42 2025

Methyl Iodide

Response Ratio



$$\text{Response} = 6.069\text{e-}001 * \text{Amt} - 8.267\text{e-}002$$

Coef of Det (r^2) = 0.997633 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N082125W.M

Calibration Table Last Updated: Fri Aug 22 02:55:42 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087619.D
 Acq On : 21 Aug 2025 12:09
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:28:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	214194	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	425894	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	384310	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	174637	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	3030	0.996	ug/l	75
3) Chloromethane	2.389	50	3165	1.012	ug/l #	87
4) Vinyl Chloride	2.542	62	3896	1.075	ug/l	98
6) Chloroethane	3.142	64	3113	1.222	ug/l	89
7) Trichlorofluoromethane	3.518	101	5667	1.067	ug/l	88
8) Diethyl Ether	3.977	74	2728m	1.179	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.371	101	3764	1.253	ug/l #	68
12) 1,1-Dichloroethene	4.353	96	3823	1.238	ug/l #	55
14) Allyl chloride	5.024	41	6754	1.207	ug/l #	70
15) Acrylonitrile	5.706	53	11893	5.535	ug/l #	90
16) Acetone	4.424	43	13568	5.679	ug/l #	75
17) Carbon Disulfide	4.700	76	9734	1.145	ug/l #	90
18) Methyl Acetate	5.012	43	6213m	1.242	ug/l	
19) Methyl tert-butyl Ether	5.794	73	12249	1.057	ug/l	91
20) Methylene Chloride	5.277	84	6402	0.627	ug/l #	57
21) trans-1,2-Dichloroethene	5.777	96	4079	1.219	ug/l	93
22) Diisopropyl ether	6.665	45	12751	1.056	ug/l #	76
23) Vinyl Acetate	6.588	43	56320	5.126	ug/l #	90
24) 1,1-Dichloroethane	6.541	63	7704	1.163	ug/l #	94
25) 2-Butanone	7.471	43	16779	5.338	ug/l	95
26) 2,2-Dichloropropane	7.477	77	6425	1.131	ug/l	77
27) cis-1,2-Dichloroethene	7.477	96	4272	1.068	ug/l	94
28) Bromochloromethane	7.794	49	3426	1.070	ug/l #	91
29) Tetrahydrofuran	7.830	42	11129	5.502	ug/l	98
30) Chloroform	7.953	83	7183	1.063	ug/l	97
32) 1,1,1-Trichloroethane	8.159	97	6468	1.129	ug/l #	52
36) 1,1-Dichloropropene	8.353	75	5965	1.264	ug/l	90
37) Ethyl Acetate	7.547	43	7468m	1.159	ug/l	
38) Carbon Tetrachloride	8.347	117	4866	1.045	ug/l	90
39) Methylcyclohexane	9.582	83	5843	1.125	ug/l #	87
40) Benzene	8.588	78	15783	1.091	ug/l	100
41) Methacrylonitrile	7.771	41	3967	1.188	ug/l #	71
42) 1,2-Dichloroethane	8.659	62	6078	1.093	ug/l	95
43) Isopropyl Acetate	8.677	43	10524	1.046	ug/l #	64
44) Trichloroethene	9.329	130	3709	1.123	ug/l	96
45) 1,2-Dichloropropane	9.594	63	4636	1.216	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087619.D
 Acq On : 21 Aug 2025 12:09
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:28:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.694	93	2989	1.101	ug/l	96
47) Bromodichloromethane	9.871	83	5845	1.051	ug/l #	90
48) Methyl methacrylate	9.671	41	5091	1.069	ug/l	94
49) 1,4-Dioxane	9.700	88	1008	16.337	ug/l #	13
51) 4-Methyl-2-Pentanone	10.423	43	29834	4.913	ug/l	99
52) Toluene	10.606	92	9776	1.090	ug/l	92
53) t-1,3-Dichloropropene	10.818	75	5278	0.917	ug/l #	80
54) cis-1,3-Dichloropropene	10.300	75	6105	1.021	ug/l #	80
55) 1,1,2-Trichloroethane	10.994	97	3739	1.078	ug/l #	87
56) Ethyl methacrylate	10.865	69	4529	0.817	ug/l #	89
57) 1,3-Dichloropropane	11.141	76	6652	1.083	ug/l	90
58) 2-Chloroethyl Vinyl ether	10.141	63	15333	5.109	ug/l	100
59) 2-Hexanone	11.200	43	12564	3.274	ug/l	94
60) Dibromochloromethane	11.347	129	4554	1.133	ug/l	93
61) 1,2-Dibromoethane	11.447	107	3511	0.960	ug/l	93
64) Tetrachloroethene	11.076	164	3433	1.288	ug/l #	84
65) Chlorobenzene	11.876	112	10823	1.132	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.941	131	3009	0.948	ug/l #	64
67) Ethyl Benzene	11.941	91	17159	1.037	ug/l	92
68) m/p-Xylenes	12.047	106	11663	1.921	ug/l	90
69) o-Xylene	12.376	106	5970	1.003	ug/l	100
70) Styrene	12.394	104	8781	0.881	ug/l	97
71) Bromoform	12.559	173	2328	0.956	ug/l #	84
73) Isopropylbenzene	12.676	105	15118	1.071	ug/l	92
74) N-amyl acetate	13.012	43	5481m	1.010	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	5198	1.070	ug/l	95
76) 1,2,3-Trichloropropane	12.970	75	4451m	1.084	ug/l	
77) Bromobenzene	12.970	156	3560	1.070	ug/l	96
78) n-propylbenzene	13.017	91	17943	1.032	ug/l	98
79) 2-Chlorotoluene	13.112	91	10167	0.972	ug/l	85
80) 1,3,5-Trimethylbenzene	13.147	105	12525	1.046	ug/l	92
82) 4-Chlorotoluene	13.200	91	11708	1.065	ug/l	96
83) tert-Butylbenzene	13.417	119	10175	1.020	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	12231	1.021	ug/l	99
85) sec-Butylbenzene	13.588	105	15591	1.053	ug/l	95
86) p-Isopropyltoluene	13.706	119	12768	1.044	ug/l	98
87) 1,3-Dichlorobenzene	13.717	146	7290	1.113	ug/l	89
88) 1,4-Dichlorobenzene	13.782	146	8201m	1.203	ug/l	
89) n-Butylbenzene	14.029	91	13148	1.083	ug/l	96
90) Hexachloroethane	14.311	117	2591	1.113	ug/l	100
91) 1,2-Dichlorobenzene	14.094	146	6783	1.091	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.694	75	1293	1.120	ug/l	83
93) 1,2,4-Trichlorobenzene	15.376	180	4163	1.115	ug/l	88
94) Hexachlorobutadiene	15.470	225	1637	1.230	ug/l	97
95) Naphthalene	15.617	128	13934	1.054	ug/l	98
96) 1,2,3-Trichlorobenzene	15.811	180	3983	1.091	ug/l	89

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

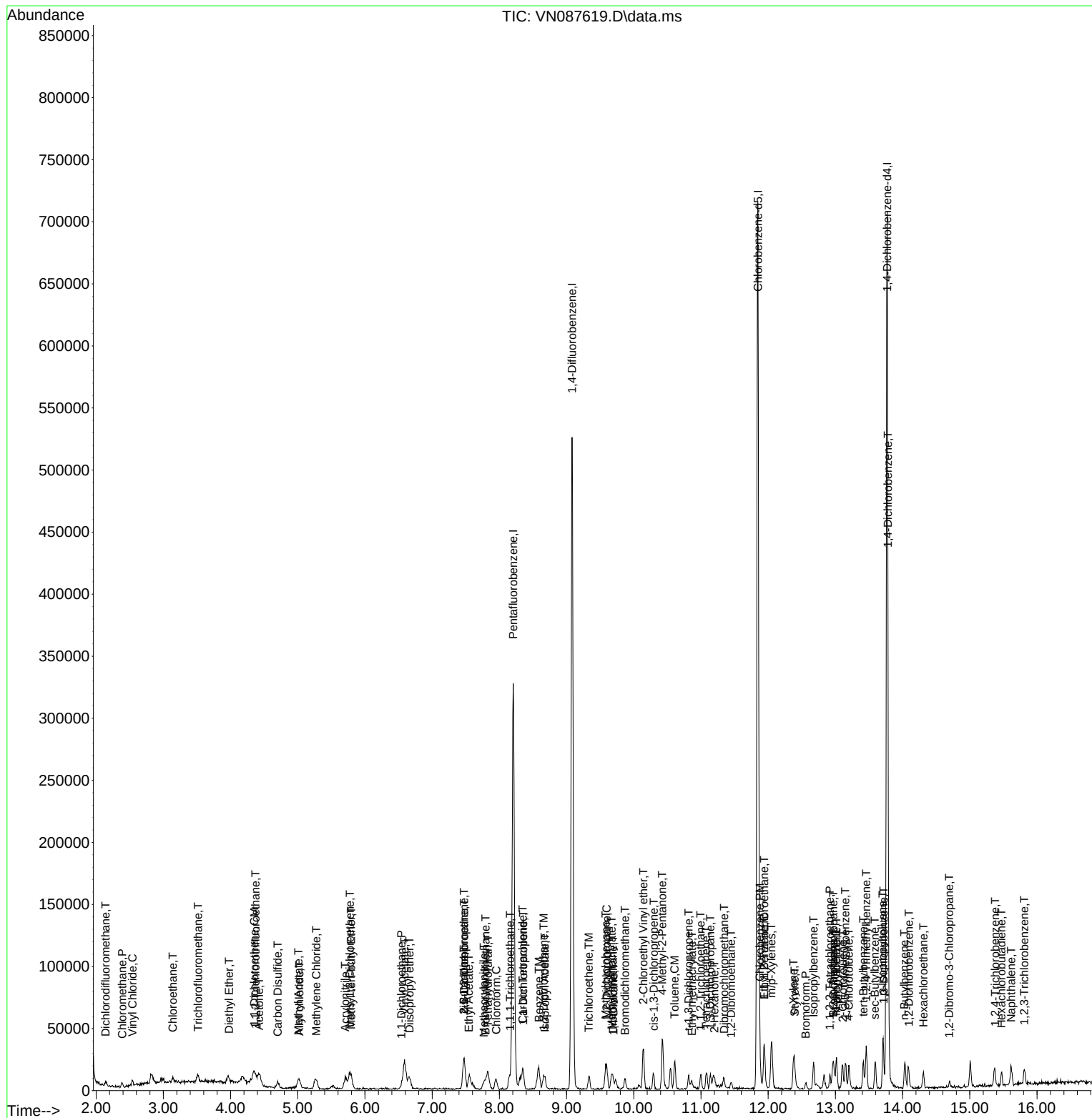
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087619.D  
Acq On    : 21 Aug 2025  12:09  
Operator  : JC\MD  
Sample    : VSTDIC001  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6      Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:28:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087620.D
 Acq On : 21 Aug 2025 13:08
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:29:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	230389	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	446380	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	411161	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	194457	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	23607	5.001	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.000%	#	
35) Dibromofluoromethane	8.141	113	16452	5.105	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.200%	#	
50) Toluene-d8	10.547	98	61777	5.121	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.240%	#	
62) 4-Bromofluorobenzene	12.829	95	19896	4.638	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.280%	#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	13341	4.077	ug/l	91
3) Chloromethane	2.383	50	14670	4.363	ug/l #	87
4) Vinyl Chloride	2.542	62	17021	4.366	ug/l	96
5) Bromomethane	2.971	94	8950	4.449	ug/l #	67
6) Chloroethane	3.130	64	12160	4.437	ug/l	99
7) Trichlorofluoromethane	3.512	101	26231	4.592	ug/l #	69
8) Diethyl Ether	3.959	74	11532	4.635	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	14929	4.619	ug/l #	85
10) Methyl Iodide	4.583	142	6109	8.995	ug/l	90
11) Tert butyl alcohol	5.530	59	19630	23.954	ug/l #	71
12) 1,1-Dichloroethene	4.336	96	14950	4.501	ug/l	89
13) Acrolein	4.183	56	28918	28.704	ug/l	96
14) Allyl chloride	5.012	41	27277	4.532	ug/l	94
15) Acrylonitrile	5.706	53	53640	23.209	ug/l	99
16) Acetone	4.418	43	73025	28.418	ug/l	97
17) Carbon Disulfide	4.694	76	40223	4.399	ug/l #	94
18) Methyl Acetate	5.012	43	24038	4.468	ug/l #	61
19) Methyl tert-butyl Ether	5.783	73	57783	4.637	ug/l	98
20) Methylene Chloride	5.253	84	21101	4.549	ug/l #	80
21) trans-1,2-Dichloroethene	5.777	96	16922	4.701	ug/l	96
22) Diisopropyl ether	6.653	45	59705	4.596	ug/l	99
23) Vinyl Acetate	6.588	43	274045	23.189	ug/l	98
24) 1,1-Dichloroethane	6.565	63	34563	4.853	ug/l	98
25) 2-Butanone	7.477	43	83189	24.607	ug/l	93
26) 2,2-Dichloropropane	7.482	77	28641	4.685	ug/l	97
27) cis-1,2-Dichloroethene	7.465	96	21105	4.904	ug/l	95
28) Bromochloromethane	7.788	49	17986	5.224	ug/l #	98
29) Tetrahydrofuran	7.830	42	49801	22.890	ug/l	97
30) Chloroform	7.953	83	35366	4.865	ug/l	89
31) Cyclohexane	8.241	56	34337	5.783	ug/l #	96
32) 1,1,1-Trichloroethane	8.147	97	29878	4.850	ug/l	90
36) 1,1-Dichloropropene	8.353	75	22697	4.591	ug/l	96
37) Ethyl Acetate	7.547	43	31230m	4.622	ug/l	
38) Carbon Tetrachloride	8.341	117	22716	4.653	ug/l #	84
39) Methylcyclohexane	9.576	83	25902	4.758	ug/l	91
40) Benzene	8.582	78	73071	4.818	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087620.D
 Acq On : 21 Aug 2025 13:08
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/22/2025

Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:29:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M

Quant Title : SW846 8260

QLast Update : Fri Aug 22 02:09:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	15464	4.419	ug/l #	95
42) 1,2-Dichloroethane	8.653	62	27989	4.803	ug/l	95
43) Isopropyl Acetate	8.671	43	48032	4.554	ug/l	99
44) Trichloroethene	9.329	130	17267	4.987	ug/l	91
45) 1,2-Dichloropropane	9.606	63	19397	4.853	ug/l	95
46) Dibromomethane	9.694	93	13115	4.611	ug/l	91
47) Bromodichloromethane	9.865	83	28992	4.973	ug/l	99
48) Methyl methacrylate	9.659	41	22006	4.411	ug/l	94
49) 1,4-Dioxane	9.682	88	6079	94.002	ug/l #	89
51) 4-Methyl-2-Pentanone	10.423	43	150608	23.665	ug/l	97
52) Toluene	10.606	92	44071	4.688	ug/l	98
53) t-1,3-Dichloropropene	10.812	75	28043	4.647	ug/l	92
54) cis-1,3-Dichloropropene	10.288	75	28580	4.561	ug/l	95
55) 1,1,2-Trichloroethane	10.994	97	17105	4.703	ug/l	96
56) Ethyl methacrylate	10.853	69	24379	4.194	ug/l #	92
57) 1,3-Dichloropropane	11.141	76	29300	4.552	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.141	63	74236	23.598	ug/l	100
59) 2-Hexanone	11.182	43	87097	21.654	ug/l	98
60) Dibromochloromethane	11.335	129	19653	4.664	ug/l	100
61) 1,2-Dibromoethane	11.447	107	19347	5.045	ug/l	93
64) Tetrachloroethene	11.082	164	14530	5.094	ug/l #	82
65) Chlorobenzene	11.870	112	47879	4.681	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.935	131	16599	4.888	ug/l	88
67) Ethyl Benzene	11.941	91	81935	4.626	ug/l	98
68) m/p-Xylenes	12.053	106	60444	9.306	ug/l	96
69) o-Xylene	12.376	106	29064	4.566	ug/l	98
70) Styrene	12.388	104	44658	4.188	ug/l	93
71) Bromoform	12.559	173	11710	4.496	ug/l #	92
73) Isopropylbenzene	12.670	105	71448	4.547	ug/l	98
74) N-amyl acetate	12.670	43	29903m	4.946	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	26850	4.963	ug/l	95
76) 1,2,3-Trichloropropane	12.976	75	22762m	4.980	ug/l	
77) Bromobenzene	12.959	156	17527	4.731	ug/l	97
78) n-propylbenzene	13.012	91	88388	4.567	ug/l	99
79) 2-Chlorotoluene	13.100	91	57432	4.931	ug/l	94
80) 1,3,5-Trimethylbenzene	13.153	105	61434	4.609	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.717	75	6458	3.749	ug/l	87
82) 4-Chlorotoluene	13.200	91	58355	4.765	ug/l	96
83) tert-Butylbenzene	13.417	119	51989	4.680	ug/l	98
84) 1,2,4-Trimethylbenzene	13.464	105	60099	4.504	ug/l	98
85) sec-Butylbenzene	13.594	105	78154	4.741	ug/l	98
86) p-Isopropyltoluene	13.706	119	63187	4.642	ug/l	98
87) 1,3-Dichlorobenzene	13.711	146	34424	4.718	ug/l	100
88) 1,4-Dichlorobenzene	13.788	146	36629	4.824	ug/l	95
89) n-Butylbenzene	14.035	91	62374	4.614	ug/l	99
90) Hexachloroethane	14.306	117	11787	4.545	ug/l	98
91) 1,2-Dichlorobenzene	14.088	146	32320	4.669	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	6280	4.887	ug/l	86
93) 1,2,4-Trichlorobenzene	15.364	180	19345	4.654	ug/l	97
94) Hexachlorobutadiene	15.470	225	7207	4.864	ug/l	96
95) Naphthalene	15.611	128	63009	4.280	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	18896	4.650	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087620.D
Acq On : 21 Aug 2025 13:08
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:29:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration

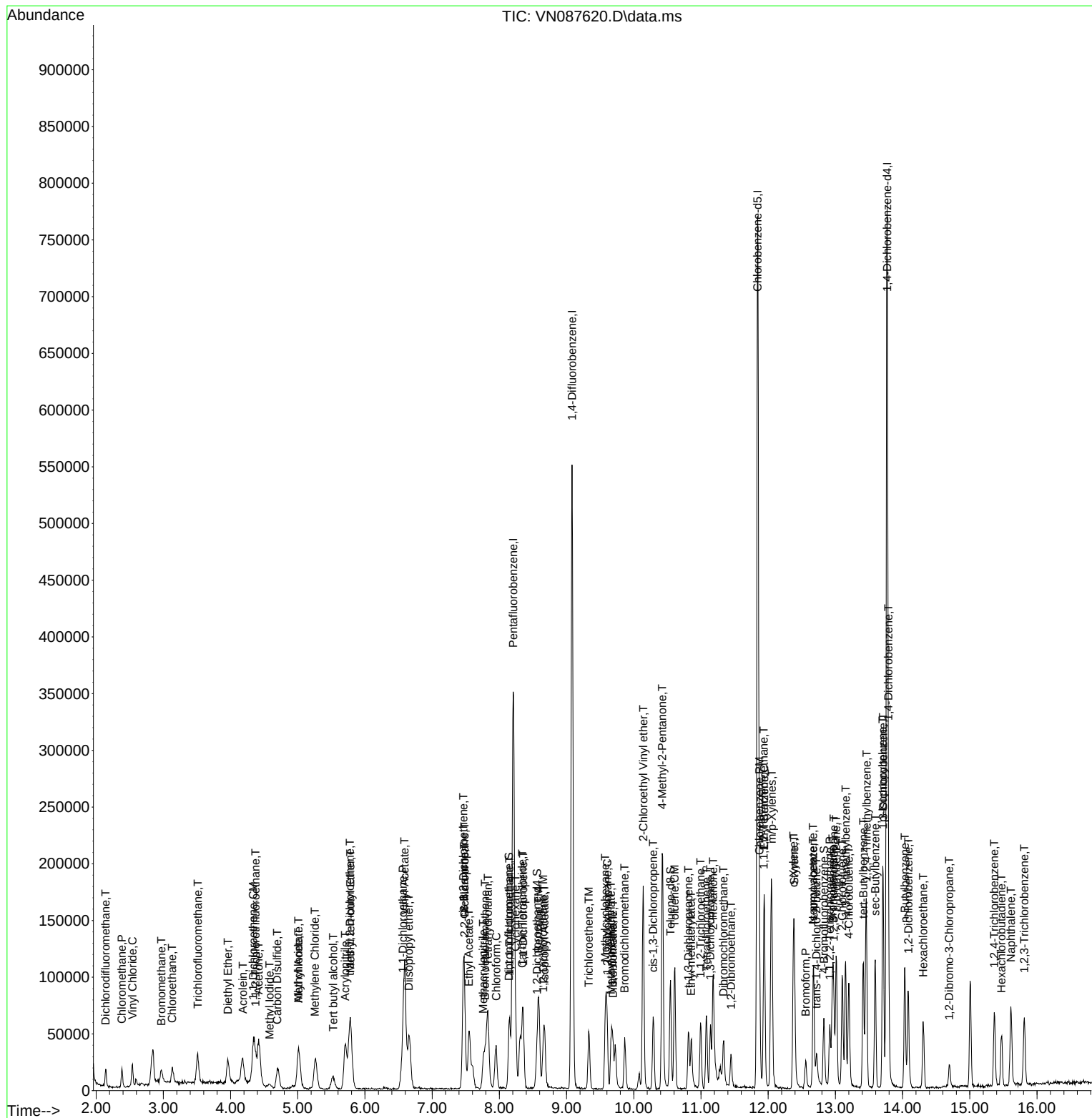
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087621.D
 Acq On : 21 Aug 2025 13:41
 Operator : JC\MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:30:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	225514	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	446006	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	409187	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	204594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	91607	19.826	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.660%#		
35) Dibromofluoromethane	8.153	113	61315	19.041	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.080%#		
50) Toluene-d8	10.547	98	225931	18.746	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	37.500%#		
62) 4-Bromofluorobenzene	12.829	95	80936	18.883	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	37.760%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	54651	17.063	ug/l	96
3) Chloromethane	2.383	50	64072	19.466	ug/l	95
4) Vinyl Chloride	2.536	62	75059	19.667	ug/l	99
5) Bromomethane	2.971	94	35415	17.984	ug/l	90
6) Chloroethane	3.136	64	54039	20.146	ug/l	98
7) Trichlorofluoromethane	3.506	101	112067	20.042	ug/l	92
8) Diethyl Ether	3.954	74	49068	20.150	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	61080	19.305	ug/l	96
10) Methyl Iodide	4.583	142	32047	18.518	ug/l #	97
11) Tert butyl alcohol	5.524	59	84156	104.914	ug/l	98
12) 1,1-Dichloroethene	4.336	96	65870	20.259	ug/l	93
13) Acrolein	4.171	56	89266	90.522	ug/l	99
14) Allyl chloride	5.012	41	113139	19.202	ug/l	96
15) Acrylonitrile	5.706	53	230008	101.673	ug/l	99
16) Acetone	4.418	43	263348	104.700	ug/l	97
17) Carbon Disulfide	4.701	76	177734	19.857	ug/l	100
18) Methyl Acetate	5.012	43	98949	18.789	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	247157	20.264	ug/l	99
20) Methylene Chloride	5.265	84	78920	20.972	ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	69321	19.672	ug/l	95
22) Diisopropyl ether	6.653	45	261888	20.597	ug/l	97
23) Vinyl Acetate	6.589	43	1120284	96.845	ug/l	99
24) 1,1-Dichloroethane	6.553	63	139765	20.048	ug/l	99
25) 2-Butanone	7.465	43	341538	103.210	ug/l	99
26) 2,2-Dichloropropane	7.477	77	119616	19.991	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	84502	20.059	ug/l	97
28) Bromochloromethane	7.800	49	65173	19.338	ug/l	97
29) Tetrahydrofuran	7.830	42	215847	101.354	ug/l	98
30) Chloroform	7.947	83	146915	20.647	ug/l	99
31) Cyclohexane	8.241	56	118194	20.337	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	122634	20.336	ug/l	99
36) 1,1-Dichloropropene	8.353	75	98127	19.863	ug/l	98
37) Ethyl Acetate	7.547	43	135691	20.101	ug/l	97
38) Carbon Tetrachloride	8.341	117	101311	20.771	ug/l	92
39) Methylcyclohexane	9.577	83	108801	20.005	ug/l	97
40) Benzene	8.588	78	308160	20.338	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087621.D
 Acq On : 21 Aug 2025 13:41
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/22/2025

Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:30:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M

Quant Title : SW846 8260

QLast Update : Fri Aug 22 02:09:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	69274	19.811	ug/l	98
42) 1,2-Dichloroethane	8.653	62	120495	20.694	ug/l	98
43) Isopropyl Acetate	8.671	43	216674	20.559	ug/l	99
44) Trichloroethene	9.336	130	69650	20.134	ug/l	92
45) 1,2-Dichloropropane	9.600	63	79779	19.975	ug/l	99
46) Dibromomethane	9.688	93	58410	20.551	ug/l	99
47) Bromodichloromethane	9.871	83	118959	20.423	ug/l	90
48) Methyl methacrylate	9.665	41	101988	20.458	ug/l	99
49) 1,4-Dioxane	9.688	88	29266	452.929	ug/l #	99
51) 4-Methyl-2-Pentanone	10.424	43	663566	104.353	ug/l	100
52) Toluene	10.612	92	189511	20.175	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	123317	20.453	ug/l	98
54) cis-1,3-Dichloropropene	10.294	75	127086	20.300	ug/l	97
55) 1,1,2-Trichloroethane	10.994	97	74360	20.463	ug/l	96
56) Ethyl methacrylate	10.859	69	121534	20.928	ug/l	97
57) 1,3-Dichloropropane	11.141	76	132575	20.615	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	272481	86.689	ug/l	100
59) 2-Hexanone	11.177	43	439624	109.392	ug/l	99
60) Dibromochloromethane	11.335	129	81730	19.411	ug/l	99
61) 1,2-Dibromoethane	11.447	107	79247	20.682	ug/l	97
64) Tetrachloroethene	11.082	164	55688	19.616	ug/l	97
65) Chlorobenzene	11.871	112	205088	20.146	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.935	131	69837	20.664	ug/l	99
67) Ethyl Benzene	11.941	91	364023	20.653	ug/l	98
68) m/p-Xylenes	12.053	106	265461	41.067	ug/l	99
69) o-Xylene	12.377	106	129958	20.515	ug/l	99
70) Styrene	12.388	104	227729	21.458	ug/l	100
71) Bromoform	12.559	173	52443	20.233	ug/l #	98
73) Isopropylbenzene	12.676	105	335219	20.276	ug/l	99
74) N-amyl acetate	12.547	43	103508m	16.273	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	116302	20.433	ug/l	99
76) 1,2,3-Trichloropropane	12.976	75	97260m	20.223	ug/l	
77) Bromobenzene	12.959	156	80835	20.737	ug/l	98
78) n-propylbenzene	13.012	91	419422	20.596	ug/l	99
79) 2-Chlorotoluene	13.106	91	255043	20.812	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	286272	20.412	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.718	75	34072	18.801	ug/l	88
82) 4-Chlorotoluene	13.200	91	263916	20.483	ug/l	99
83) tert-Butylbenzene	13.418	119	237268	20.302	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	290636	20.701	ug/l	99
85) sec-Butylbenzene	13.594	105	357394	20.607	ug/l	99
86) p-Isopropyltoluene	13.706	119	290561	20.288	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	158749	20.680	ug/l	97
88) 1,4-Dichlorobenzene	13.788	146	160067	20.037	ug/l	98
89) n-Butylbenzene	14.035	91	293738	20.652	ug/l	99
90) Hexachloroethane	14.312	117	55637	20.391	ug/l	98
91) 1,2-Dichlorobenzene	14.082	146	151644	20.823	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	26895	19.891	ug/l	96
93) 1,2,4-Trichlorobenzene	15.365	180	88494	20.236	ug/l	97
94) Hexachlorobutadiene	15.476	225	31498	20.203	ug/l	97
95) Naphthalene	15.612	128	304789	19.677	ug/l	99
96) 1,2,3-Trichlorobenzene	15.812	180	86694	20.278	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087621.D
Acq On : 21 Aug 2025 13:41
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:30:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration

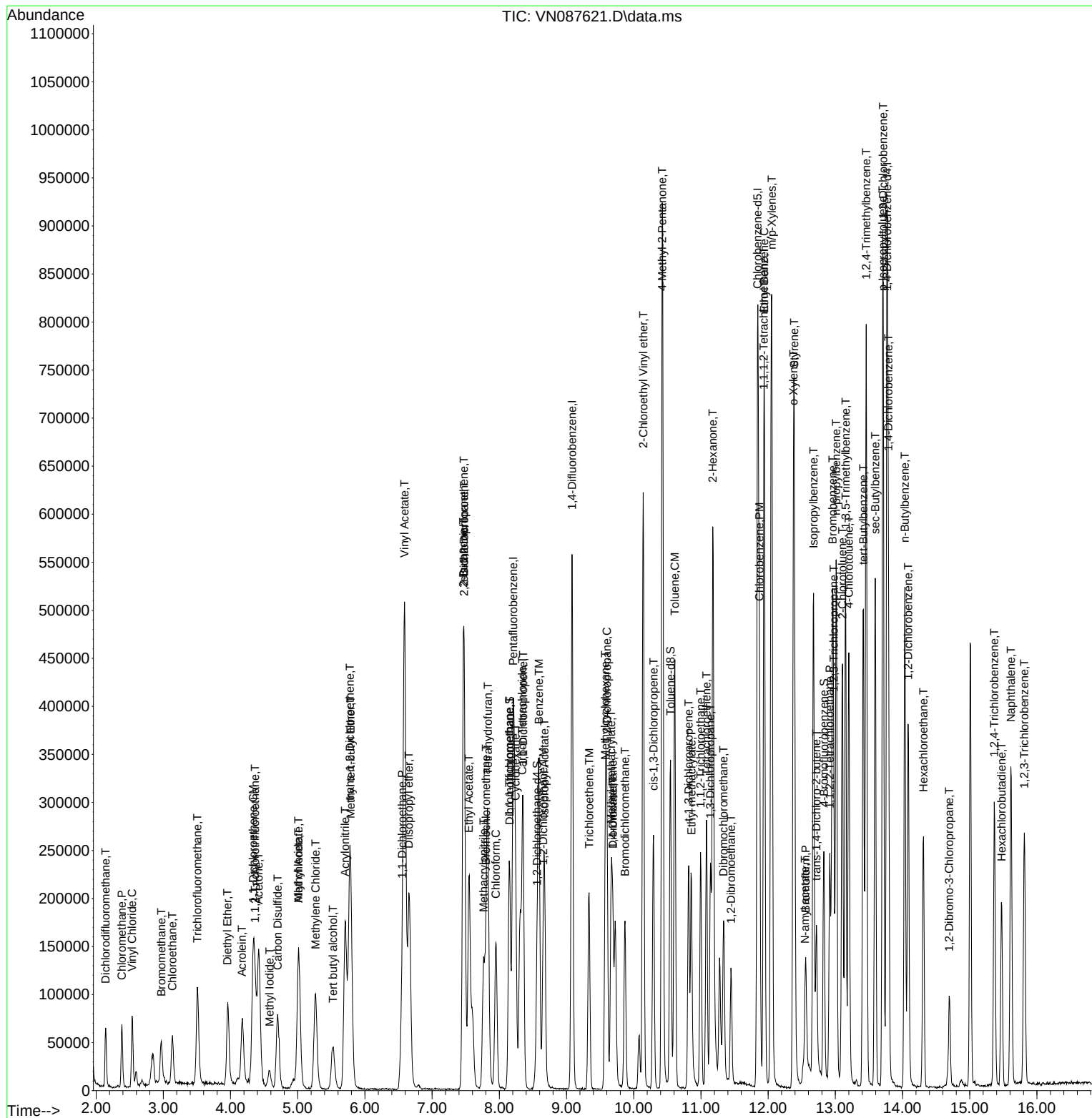
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087622.D
 Acq On : 21 Aug 2025 14:02
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:32:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	234546	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	468145	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	438262	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	220862	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	224856	46.791	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.580%		
35) Dibromofluoromethane	8.153	113	156332	46.252	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.500%		
50) Toluene-d8	10.547	98	572648	45.266	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.540%		
62) 4-Bromofluorobenzene	12.823	95	210592	46.809	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	93.620%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	189901	57.007	ug/l	100
3) Chloromethane	2.383	50	186373	54.441	ug/l	100
4) Vinyl Chloride	2.542	62	211909	53.387	ug/l	100
5) Bromomethane	2.971	94	105105	51.318	ug/l	100
6) Chloroethane	3.136	64	141335	50.661	ug/l	100
7) Trichlorofluoromethane	3.512	101	298853	51.389	ug/l	100
8) Diethyl Ether	3.953	74	124074	48.989	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	162971	49.526	ug/l	100
10) Methyl Iodide	4.577	142	112901	46.467	ug/l	100
11) Tert butyl alcohol	5.518	59	216189	259.137	ug/l	100
12) 1,1-Dichloroethene	4.336	96	164165	48.547	ug/l	100
13) Acrolein	4.171	56	251949	245.655	ug/l	100
14) Allyl chloride	5.006	41	290757	47.448	ug/l	100
15) Acrylonitrile	5.706	53	584519	248.432	ug/l	100
16) Acetone	4.424	43	612147	234.001	ug/l	100
17) Carbon Disulfide	4.700	76	469891	50.475	ug/l	100
18) Methyl Acetate	5.012	43	271363	49.542	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	641051	50.534	ug/l	100
20) Methylene Chloride	5.265	84	193144	51.071	ug/l	100
21) trans-1,2-Dichloroethene	5.777	96	175989	48.020	ug/l	100
22) Diisopropyl ether	6.659	45	673069	50.897	ug/l	100
23) Vinyl Acetate	6.589	43	3156445	262.358	ug/l	100
24) 1,1-Dichloroethane	6.547	63	352088	48.560	ug/l	100
25) 2-Butanone	7.465	43	858584	249.467	ug/l	100
26) 2,2-Dichloropropane	7.477	77	308944	49.645	ug/l	100
27) cis-1,2-Dichloroethene	7.465	96	220668	50.366	ug/l	100
28) Bromochloromethane	7.800	49	164506	46.931	ug/l	100
29) Tetrahydrofuran	7.824	42	555506	250.802	ug/l	100
30) Chloroform	7.947	83	370301	50.036	ug/l	100
31) Cyclohexane	8.236	56	289400	47.878	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	305533	48.715	ug/l	100
36) 1,1-Dichloropropene	8.353	75	247135	47.660	ug/l	100
37) Ethyl Acetate	7.547	43	347439	49.034	ug/l	100
38) Carbon Tetrachloride	8.341	117	253643	49.543	ug/l	100
39) Methylcyclohexane	9.583	83	276006	48.348	ug/l	100
40) Benzene	8.588	78	788238	49.562	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087622.D
 Acq On : 21 Aug 2025 14:02
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:32:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	182028	49.594	ug/l	100
42) 1,2-Dichloroethane	8.653	62	304323	49.794	ug/l	100
43) Isopropyl Acetate	8.671	43	560899	50.703	ug/l	100
44) Trichloroethene	9.330	130	176493	48.607	ug/l	100
45) 1,2-Dichloropropane	9.600	63	202893	48.398	ug/l	100
46) Dibromomethane	9.688	93	148909	49.915	ug/l	100
47) Bromodichloromethane	9.871	83	298888	48.886	ug/l	100
48) Methyl methacrylate	9.665	41	261445	49.964	ug/l	100
49) 1,4-Dioxane	9.683	88	72780	1073.097	ug/l #	100
51) 4-Methyl-2-Pentanone	10.424	43	1722397	258.056	ug/l	100
52) Toluene	10.606	92	491725	49.872	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	329003	51.987	ug/l	100
54) cis-1,3-Dichloropropene	10.288	75	335961	51.127	ug/l	100
55) 1,1,2-Trichloroethane	10.994	97	190842	50.035	ug/l	100
56) Ethyl methacrylate	10.853	69	330271	54.182	ug/l	100
57) 1,3-Dichloropropane	11.141	76	342170	50.690	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	829191	251.329	ug/l	100
59) 2-Hexanone	11.177	43	1194193	283.100	ug/l	100
60) Dibromochloromethane	11.335	129	218275	49.389	ug/l	100
61) 1,2-Dibromoethane	11.447	107	202283	50.296	ug/l	100
64) Tetrachloroethene	11.082	164	137281	45.149	ug/l	100
65) Chlorobenzene	11.871	112	530421	48.648	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.941	131	184496	50.970	ug/l	100
67) Ethyl Benzene	11.941	91	939520	49.767	ug/l	100
68) m/p-Xylenes	12.047	106	711871	102.820	ug/l	100
69) o-Xylene	12.376	106	348655	51.386	ug/l	100
70) Styrene	12.388	104	605599	53.277	ug/l	100
71) Bromoform	12.559	173	140399	50.575	ug/l	100
73) Isopropylbenzene	12.671	105	889165	49.821	ug/l	100
74) N-amyl acetate	12.500	43	343435m	50.016	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	301018	48.990	ug/l	100
76) 1,2,3-Trichloropropane	12.971	75	236877m	45.626	ug/l	
77) Bromobenzene	12.959	156	207789	49.379	ug/l	100
78) n-propylbenzene	13.012	91	1109533	50.472	ug/l	100
79) 2-Chlorotoluene	13.100	91	657210	49.679	ug/l	100
80) 1,3,5-Trimethylbenzene	13.153	105	766722	50.642	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.718	75	99551	50.885	ug/l	100
82) 4-Chlorotoluene	13.200	91	696270	50.059	ug/l	100
83) tert-Butylbenzene	13.418	119	642869	50.955	ug/l	100
84) 1,2,4-Trimethylbenzene	13.459	105	772176	50.948	ug/l	100
85) sec-Butylbenzene	13.594	105	933105	49.838	ug/l	100
86) p-Isopropyltoluene	13.706	119	779657	50.430	ug/l	100
87) 1,3-Dichlorobenzene	13.712	146	403466	48.688	ug/l	100
88) 1,4-Dichlorobenzene	13.788	146	412346	47.815	ug/l	100
89) n-Butylbenzene	14.029	91	764482	49.789	ug/l	100
90) Hexachloroethane	14.312	117	144635	49.105	ug/l	100
91) 1,2-Dichlorobenzene	14.082	146	387612	49.303	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.700	75	70059	47.997	ug/l	100
93) 1,2,4-Trichlorobenzene	15.365	180	226580	47.995	ug/l	100
94) Hexachlorobutadiene	15.476	225	78424	46.597	ug/l	100
95) Naphthalene	15.612	128	829102	49.583	ug/l	100
96) 1,2,3-Trichlorobenzene	15.812	180	222211	48.148	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087622.D
Acq On : 21 Aug 2025 14:02
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:32:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration

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

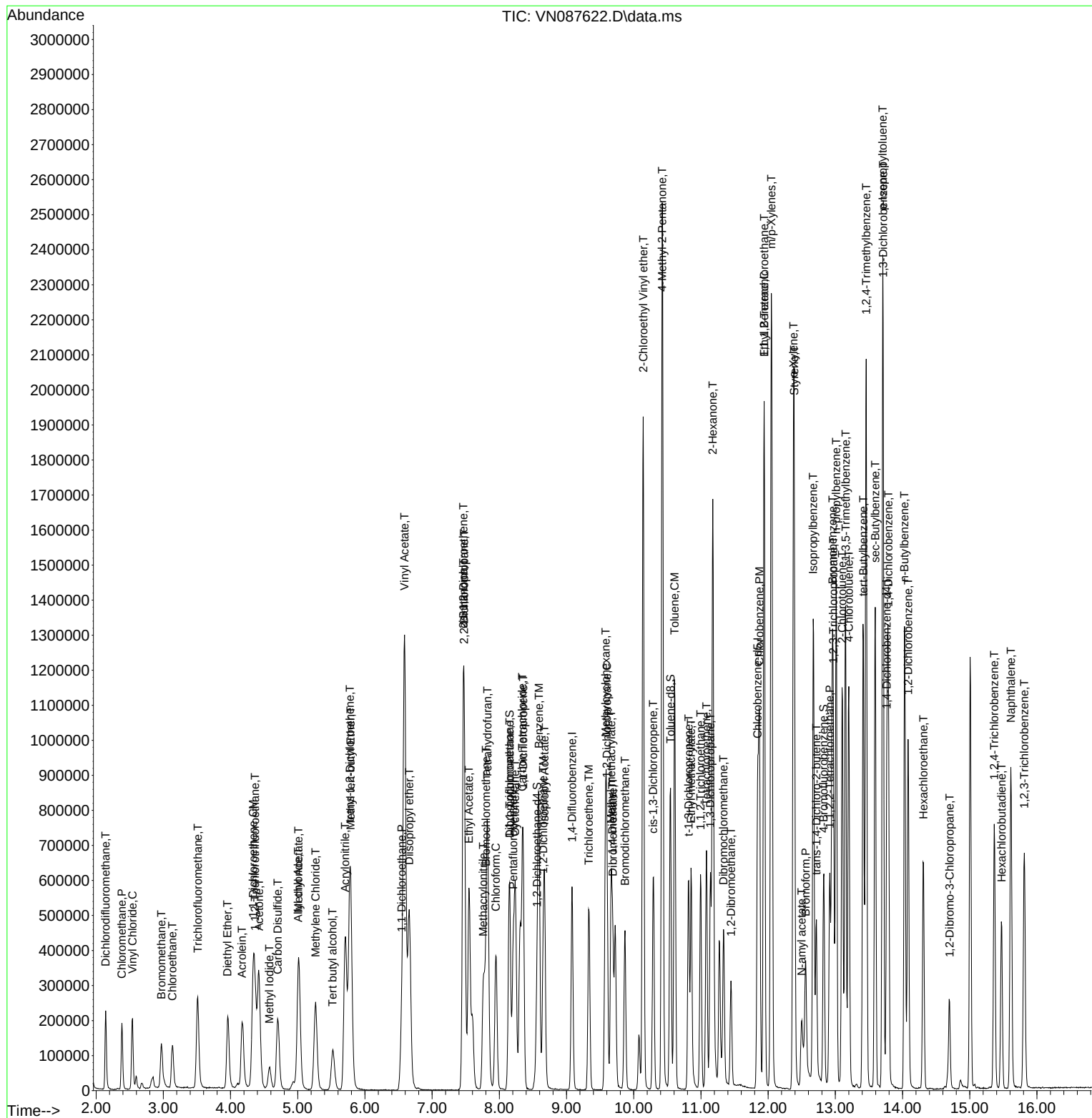
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087622.D  
Acq On    : 21 Aug 2025  14:02  
Operator  : JC\MD  
Sample    : VSTDICCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 10   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:32:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087623.D
 Acq On : 21 Aug 2025 14:23
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Aug 22 02:33:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	247255	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	481199	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	447994	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	226864	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	511669	101.001	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 202.000%#			
35) Dibromofluoromethane	8.147	113	358663	103.235	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 206.460%#			
50) Toluene-d8	10.547	98	1354664	104.177	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 208.360%#			
62) 4-Bromofluorobenzene	12.829	95	494494	106.930	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 213.860%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.142	85	384461	109.480	ug/l	97
3) Chloromethane	2.383	50	371688	102.992	ug/l	99
4) Vinyl Chloride	2.536	62	418975	100.128	ug/l	97
5) Bromomethane	2.959	94	230328	106.679	ug/l	97
6) Chloroethane	3.124	64	276071	93.871	ug/l	99
7) Trichlorofluoromethane	3.506	101	606894	98.995	ug/l	100
8) Diethyl Ether	3.959	74	252092	94.419	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	323480	93.250	ug/l	99
10) Methyl Iodide	4.577	142	277692	99.335	ug/l	96
11) Tert butyl alcohol	5.530	59	430345	489.322	ug/l	99
12) 1,1-Dichloroethene	4.330	96	329881	92.539	ug/l	95
13) Acrolein	4.171	56	484654	448.258	ug/l	100
14) Allyl chloride	5.012	41	597335	92.467	ug/l	99
15) Acrylonitrile	5.706	53	1204622	485.671	ug/l	99
16) Acetone	4.424	43	1195609	433.545	ug/l	99
17) Carbon Disulfide	4.700	76	957812	97.598	ug/l	98
18) Methyl Acetate	5.012	43	552409	95.669	ug/l	98
19) Methyl tert-butyl Ether	5.783	73	1306892	97.726	ug/l	98
20) Methylene Chloride	5.259	84	385191	97.752	ug/l	97
21) trans-1,2-Dichloroethene	5.777	96	364392	94.317	ug/l	95
22) Diisopropyl ether	6.659	45	1368059	98.135	ug/l	98
23) Vinyl Acetate	6.588	43	6369332	502.195	ug/l	98
24) 1,1-Dichloroethane	6.553	63	719127	94.084	ug/l	98
25) 2-Butanone	7.471	43	1730205	476.881	ug/l	98
26) 2,2-Dichloropropane	7.471	77	631604	96.278	ug/l	98
27) cis-1,2-Dichloroethene	7.471	96	449130	97.241	ug/l	100
28) Bromochloromethane	7.794	49	369878	100.097	ug/l	99
29) Tetrahydrofuran	7.824	42	1140137	488.295	ug/l	100
30) Chloroform	7.947	83	751186	96.286	ug/l	97
31) Cyclohexane	8.235	56	593829	93.193	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	625473	94.602	ug/l	98
36) 1,1-Dichloropropene	8.353	75	502476	94.275	ug/l	99
37) Ethyl Acetate	7.547	43	703230	96.555	ug/l	99
38) Carbon Tetrachloride	8.341	117	528406	100.412	ug/l	93
39) Methylcyclohexane	9.582	83	574374	97.883	ug/l	98
40) Benzene	8.588	78	1577387	96.490	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087623.D
 Acq On : 21 Aug 2025 14:23
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:33:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	369145	97.845	ug/l	99
42) 1,2-Dichloroethane	8.653	62	600726	95.625	ug/l	99
43) Isopropyl Acetate	8.671	43	1142494	100.474	ug/l	99
44) Trichloroethene	9.329	130	353426	94.694	ug/l	99
45) 1,2-Dichloropropane	9.600	63	399209	92.644	ug/l	99
46) Dibromomethane	9.688	93	298076	97.207	ug/l	99
47) Bromodichloromethane	9.871	83	613683	97.651	ug/l	95
48) Methyl methacrylate	9.665	41	543991	101.141	ug/l	99
49) 1,4-Dioxane	9.682	88	148991	2137.188	ug/l #	99
51) 4-Methyl-2-Pentanone	10.423	43	3455510	503.673	ug/l	99
52) Toluene	10.612	92	998331	98.507	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	672690	103.410	ug/l	99
54) cis-1,3-Dichloropropene	10.294	75	686982	101.709	ug/l	98
55) 1,1,2-Trichloroethane	10.994	97	385129	98.234	ug/l	96
56) Ethyl methacrylate	10.853	69	688119	109.827	ug/l	99
57) 1,3-Dichloropropane	11.141	76	681646	98.241	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	1799387	530.602	ug/l	99
59) 2-Hexanone	11.176	43	2445031	563.903	ug/l	100
60) Dibromochloromethane	11.335	129	447781	98.572	ug/l	100
61) 1,2-Dibromoethane	11.447	107	412721	99.836	ug/l	98
64) Tetrachloroethene	11.082	164	282055	90.747	ug/l	95
65) Chlorobenzene	11.870	112	1089532	97.756	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.935	131	373160	100.851	ug/l	99
67) Ethyl Benzene	11.941	91	1928084	99.914	ug/l	99
68) m/p-Xylenes	12.047	106	1448543	204.677	ug/l	100
69) o-Xylene	12.376	106	705872	101.775	ug/l	99
70) Styrene	12.388	104	1242271	106.913	ug/l	99
71) Bromoform	12.559	173	300919	106.042	ug/l #	98
73) Isopropylbenzene	12.670	105	1813905	98.947	ug/l	99
74) N-amyl acetate	12.488	43	692783	98.225	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.917	83	599955	95.058	ug/l	100
76) 1,2,3-Trichloropropane	12.970	75	487205m	91.360	ug/l	
77) Bromobenzene	12.959	156	421382	97.488	ug/l	100
78) n-propylbenzene	13.011	91	2252725	99.764	ug/l	100
79) 2-Chlorotoluene	13.100	91	1350026	99.349	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	1541753	99.138	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.717	75	223478	111.207	ug/l	85
82) 4-Chlorotoluene	13.200	91	1392464	97.464	ug/l	98
83) tert-Butylbenzene	13.417	119	1296218	100.022	ug/l	100
84) 1,2,4-Trimethylbenzene	13.459	105	1574771	101.155	ug/l	100
85) sec-Butylbenzene	13.594	105	1888785	98.213	ug/l	100
86) p-Isopropyltoluene	13.706	119	1589055	100.064	ug/l	99
87) 1,3-Dichlorobenzene	13.711	146	819384	96.262	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	824944	93.128	ug/l	99
89) n-Butylbenzene	14.029	91	1541853	97.761	ug/l	99
90) Hexachloroethane	14.306	117	294494	97.338	ug/l	97
91) 1,2-Dichlorobenzene	14.082	146	781928	96.828	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	142185	94.833	ug/l	96
93) 1,2,4-Trichlorobenzene	15.364	180	471693	97.272	ug/l	99
94) Hexachlorobutadiene	15.476	225	157139	90.896	ug/l	99
95) Naphthalene	15.611	128	1777069	103.462	ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	462335	97.526	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087623.D
Acq On : 21 Aug 2025 14:23
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:33:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration

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

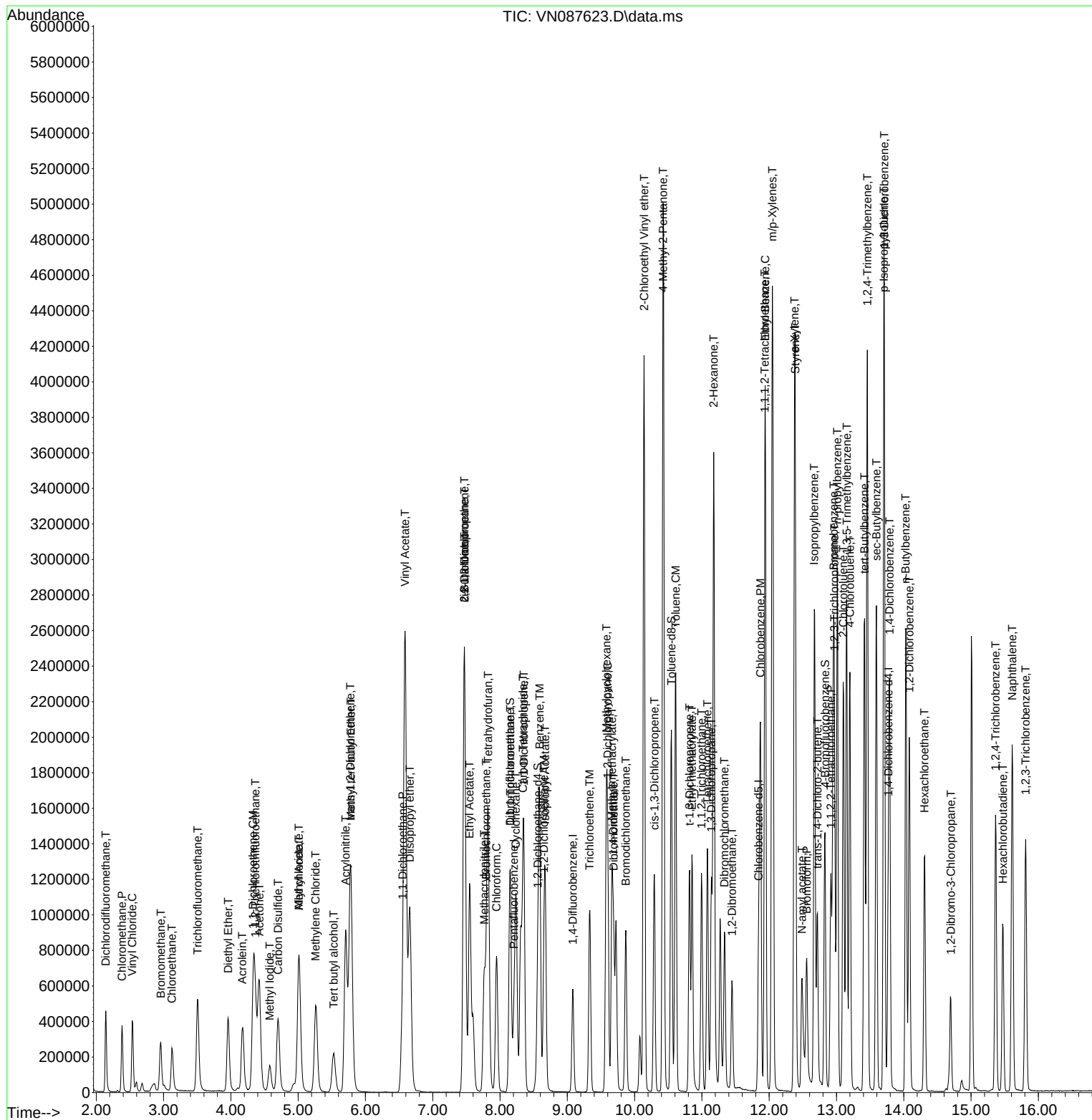
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087623.D  
Acq On    : 21 Aug 2025   14:23  
Operator  : JC\MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 11   Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:33:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087624.D
 Acq On : 21 Aug 2025 14:44
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Aug 22 02:36:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	245979	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	485482	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	448278	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	220585	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.559	65	803343	159.399	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 318.800%#	
35) Dibromofluoromethane	8.147	113	562370	160.440	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 320.880%#	
50) Toluene-d8	10.547	98	2147647	163.702	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 327.400%#	
62) 4-Bromofluorobenzene	12.823	95	785776	168.419	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 336.840%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.142	85	576704	165.075	ug/l	97
3) Chloromethane	2.383	50	550985	153.466	ug/l	98
4) Vinyl Chloride	2.536	62	624259	149.961	ug/l	96
5) Bromomethane	2.942	94	360172	167.683	ug/l	96
6) Chloroethane	3.124	64	408766	139.711	ug/l	99
7) Trichlorofluoromethane	3.506	101	909991	149.205	ug/l	94
8) Diethyl Ether	3.959	74	383278	144.299	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	484239	140.317	ug/l	98
10) Methyl Iodide	4.577	142	432564	151.685	ug/l	97
11) Tert butyl alcohol	5.530	59	641433	733.123	ug/l	98
12) 1,1-Dichloroethene	4.336	96	506728	142.886	ug/l	97
13) Acrolein	4.171	56	861137	800.600	ug/l	99
14) Allyl chloride	5.012	41	1015124	157.956	ug/l	93
15) Acrylonitrile	5.706	53	1818844	737.113	ug/l	99
16) Acetone	4.424	43	1805178	657.978	ug/l	98
17) Carbon Disulfide	4.700	76	1460081	149.550	ug/l	100
18) Methyl Acetate	5.012	43	842183	146.610	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	2023752	152.117	ug/l	97
20) Methylene Chloride	5.259	84	589373	151.029	ug/l	99
21) trans-1,2-Dichloroethene	5.771	96	549970	143.089	ug/l	98
22) Diisopropyl ether	6.659	45	2071435	149.361	ug/l	99
23) Vinyl Acetate	6.589	43	9699326	768.719	ug/l	100
24) 1,1-Dichloroethane	6.553	63	1085255	142.721	ug/l	98
25) 2-Butanone	7.471	43	2610414	723.217	ug/l	99
26) 2,2-Dichloropropane	7.471	77	956513	146.562	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	667748	145.324	ug/l	98
28) Bromochloromethane	7.794	49	539576	146.779	ug/l	99
29) Tetrahydrofuran	7.824	42	1725889	742.994	ug/l	100
30) Chloroform	7.947	83	1127250	145.239	ug/l	98
31) Cyclohexane	8.241	56	890974	140.551	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	950731	144.543	ug/l	97
36) 1,1-Dichloropropene	8.353	75	748756	139.242	ug/l	99
37) Ethyl Acetate	7.547	43	1064446	144.861	ug/l	98
38) Carbon Tetrachloride	8.341	117	789246	148.656	ug/l	98
39) Methylcyclohexane	9.583	83	867837	146.589	ug/l	98
40) Benzene	8.588	78	2405823	145.868	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087624.D
 Acq On : 21 Aug 2025 14:44
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:36:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	552329	145.108	ug/l	97
42) 1,2-Dichloroethane	8.653	62	912127	143.914	ug/l	99
43) Isopropyl Acetate	8.671	43	1715458	149.531	ug/l	98
44) Trichloroethene	9.335	130	538839	143.098	ug/l	99
45) 1,2-Dichloropropane	9.600	63	600437	138.113	ug/l	100
46) Dibromomethane	9.688	93	454128	146.791	ug/l	99
47) Bromodichloromethane	9.865	83	931257	146.876	ug/l	96
48) Methyl methacrylate	9.665	41	826047	152.226	ug/l	99
49) 1,4-Dioxane	9.683	88	204489	2907.396	ug/l #	99
51) 4-Methyl-2-Pentanone	10.424	43	5127143	740.736	ug/l	99
52) Toluene	10.612	92	1505069	147.197	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	1040899	158.602	ug/l	99
54) cis-1,3-Dichloropropene	10.294	75	1034308	151.780	ug/l	99
55) 1,1,2-Trichloroethane	10.994	97	578828	146.338	ug/l	97
56) Ethyl methacrylate	10.853	69	1058252	167.411	ug/l	99
57) 1,3-Dichloropropane	11.141	76	1028391	146.908	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	2825105	825.716	ug/l	99
59) 2-Hexanone	11.177	43	3690702	843.686	ug/l	100
60) Dibromochloromethane	11.335	129	680951	148.578	ug/l	100
61) 1,2-Dibromoethane	11.447	107	621238	148.950	ug/l	98
64) Tetrachloroethene	11.082	164	421013	135.369	ug/l	96
65) Chlorobenzene	11.871	112	1629434	146.105	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.941	131	562761	151.997	ug/l	99
67) Ethyl Benzene	11.941	91	2928525	151.661	ug/l	98
68) m/p-Xylenes	12.047	106	2189611	309.193	ug/l	99
69) o-Xylene	12.376	106	1053696	151.829	ug/l	99
70) Styrene	12.388	104	1873074	161.099	ug/l	99
71) Bromoform	12.559	173	451851	159.129	ug/l #	98
73) Isopropylbenzene	12.671	105	2726116	152.940	ug/l	100
74) N-amyl acetate	12.482	43	1146975	167.250	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	12.918	83	907151	147.822	ug/l	100
76) 1,2,3-Trichloropropane	12.971	75	830843m	160.233	ug/l	
77) Bromobenzene	12.959	156	620711	147.691	ug/l	98
78) n-propylbenzene	13.012	91	3351021	152.627	ug/l	100
79) 2-Chlorotoluene	13.100	91	2010067	152.133	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	2284564	151.084	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.712	75	345953	177.054	ug/l	84
82) 4-Chlorotoluene	13.200	91	2047130	147.365	ug/l	98
83) tert-Butylbenzene	13.418	119	1908253	151.441	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	2300224	151.960	ug/l	100
85) sec-Butylbenzene	13.594	105	2775113	148.408	ug/l	100
86) p-Isopropyltoluene	13.706	119	2324153	150.520	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	1208472	146.014	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	1218359	141.456	ug/l	99
89) n-Butylbenzene	14.035	91	2273344	148.244	ug/l	99
90) Hexachloroethane	14.312	117	442763	150.511	ug/l	97
91) 1,2-Dichlorobenzene	14.082	146	1153653	146.927	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	218577	149.934	ug/l	97
93) 1,2,4-Trichlorobenzene	15.365	180	714001	151.432	ug/l	99
94) Hexachlorobutadiene	15.476	225	238563	141.923	ug/l	99
95) Naphthalene	15.612	128	2705715	162.013	ug/l	100
96) 1,2,3-Trichlorobenzene	15.812	180	709644	153.956	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087624.D
Acq On : 21 Aug 2025 14:44
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:36:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087624.D
 Acq On : 21 Aug 2025 14:44
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDICC150

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/22/2025

Supervised By : Mahesh Dadoda 08/25/2025

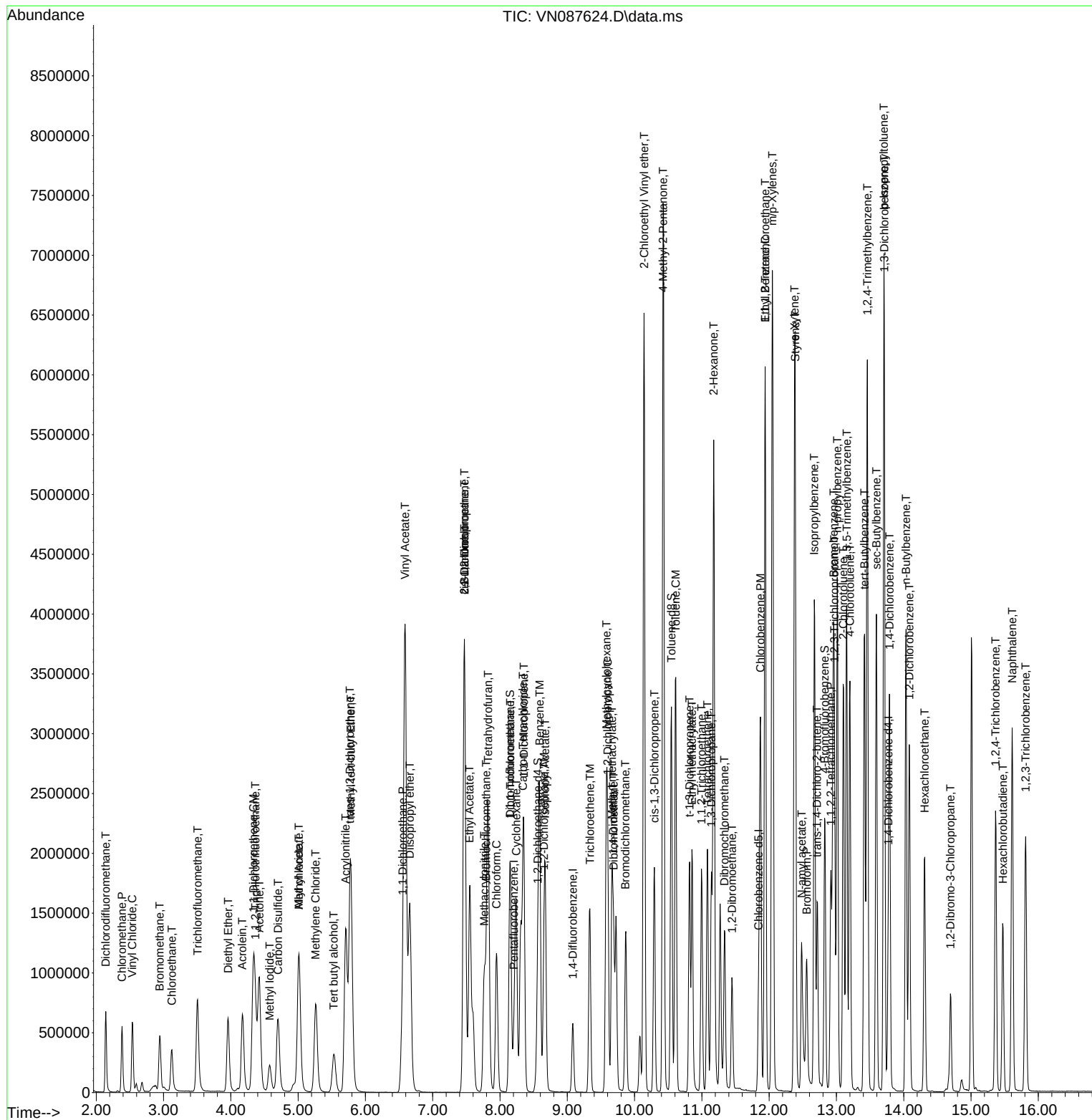
Quant Time: Aug 22 02:36:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M

Quant Title : SW846 8260

QLast Update : Fri Aug 22 02:09:28 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082125

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	236538	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	462145	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	426678	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	215492	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	211874	43.718	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.440%		
35) Dibromofluoromethane	8.153	113	144206	43.218	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	86.440%		
50) Toluene-d8	10.547	98	538430	43.114	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	86.220%		
62) 4-Bromofluorobenzene	12.829	95	197985	44.578	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	89.160%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	166005	49.414	ug/l	98
3) Chloromethane	2.383	50	164410	47.621	ug/l	99
4) Vinyl Chloride	2.536	62	181981	45.461	ug/l	97
5) Bromomethane	2.971	94	104036	50.369	ug/l	90
6) Chloroethane	3.136	64	119563	42.496	ug/l	99
7) Trichlorofluoromethane	3.512	101	258055	44.000	ug/l	99
8) Diethyl Ether	3.959	74	106479	41.688	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	138202	41.645	ug/l	99
10) Methyl Iodide	4.577	142	101477	42.154	ug/l	96
11) Tert butyl alcohol	5.518	59	188337	223.850	ug/l	99
12) 1,1-Dichloroethene	4.342	96	143630	42.117	ug/l	94
13) Acrolein	4.177	56	214366	207.251	ug/l	99
14) Allyl chloride	5.012	41	251818	40.748	ug/l	98
15) Acrylonitrile	5.712	53	512416	215.953	ug/l	98
16) Acetone	4.424	43	534765	202.699	ug/l	100
17) Carbon Disulfide	4.700	76	403340	42.961	ug/l	99
18) Methyl Acetate	5.012	43	239686	43.391	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	554938	43.377	ug/l	95
20) Methylene Chloride	5.259	84	171230	44.741	ug/l	99
21) trans-1,2-Dichloroethene	5.771	96	155031	41.945	ug/l	95
22) Diisopropyl ether	6.659	45	570242	42.758	ug/l	98
23) Vinyl Acetate	6.588	43	2684129	221.221	ug/l	100
24) 1,1-Dichloroethane	6.553	63	308870	42.240	ug/l	97
25) 2-Butanone	7.471	43	748996	215.792	ug/l	98
26) 2,2-Dichloropropane	7.471	77	266418	42.451	ug/l	98
27) cis-1,2-Dichloroethene	7.477	96	187583	42.454	ug/l	98
28) Bromochloromethane	7.794	49	162438	45.951	ug/l	98
29) Tetrahydrofuran	7.824	42	468943	209.937	ug/l	99
30) Chloroform	7.947	83	321565	43.085	ug/l	99
31) Cyclohexane	8.241	56	255575	41.926	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	268667	42.477	ug/l	98
36) 1,1-Dichloropropene	8.353	75	213398	41.688	ug/l	99
37) Ethyl Acetate	7.547	43	286649	40.980	ug/l	97
38) Carbon Tetrachloride	8.341	117	220428	43.614	ug/l	96
39) Methylcyclohexane	9.582	83	234965	41.693	ug/l	99
40) Benzene	8.588	78	677138	43.129	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082125

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	154175	42.550	ug/l	97
42) 1,2-Dichloroethane	8.653	62	260576	43.189	ug/l	98
43) Isopropyl Acetate	8.671	43	475910	43.578	ug/l	98
44) Trichloroethene	9.329	130	150412	41.962	ug/l	98
45) 1,2-Dichloropropane	9.600	63	170592	41.221	ug/l	97
46) Dibromomethane	9.688	93	127636	43.340	ug/l	99
47) Bromodichloromethane	9.871	83	260671	43.189	ug/l	95
48) Methyl methacrylate	9.665	41	224953	43.548	ug/l	99
49) 1,4-Dioxane	9.682	88	62435	932.518	ug/l #	98
51) 4-Methyl-2-Pentanone	10.423	43	1463763	222.154	ug/l	100
52) Toluene	10.612	92	421282	43.282	ug/l	99
53) t-1,3-Dichloropropene	10.818	75	278049	44.506	ug/l	95
54) cis-1,3-Dichloropropene	10.294	75	284560	43.867	ug/l	96
55) 1,1,2-Trichloroethane	10.994	97	165061	43.838	ug/l	99
56) Ethyl methacrylate	10.853	69	283473	47.109	ug/l	98
57) 1,3-Dichloropropane	11.141	76	287664	43.169	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	842734	258.751	ug/l	100
59) 2-Hexanone	11.176	43	1001252	240.442	ug/l	100
60) Dibromochloromethane	11.335	129	187315	42.934	ug/l	98
61) 1,2-Dibromoethane	11.447	107	173643	43.736	ug/l	99
64) Tetrachloroethene	11.082	164	117611	39.730	ug/l	94
65) Chlorobenzene	11.870	112	449967	42.389	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.941	131	156161	44.313	ug/l	100
67) Ethyl Benzene	11.941	91	803704	43.729	ug/l	100
68) m/p-Xylenes	12.047	106	605035	89.762	ug/l	100
69) o-Xylene	12.376	106	289138	43.771	ug/l	96
70) Styrene	12.388	104	506439	45.763	ug/l	99
71) Bromoform	12.559	173	121336	44.894	ug/l #	98
73) Isopropylbenzene	12.670	105	761746	43.745	ug/l	98
74) N-amyl acetate	12.500	43	294763m	44.668	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	264712	44.155	ug/l	99
76) 1,2,3-Trichloropropane	12.970	75	246217m	48.723	ug/l	
77) Bromobenzene	12.959	156	177807	43.307	ug/l	98
78) n-propylbenzene	13.012	91	946175	44.113	ug/l	99
79) 2-Chlorotoluene	13.100	91	559855	43.374	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	645684	43.710	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.717	75	85496	44.790	ug/l	86
82) 4-Chlorotoluene	13.200	91	598781	44.123	ug/l	99
83) tert-Butylbenzene	13.417	119	547166	44.450	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	666050	45.041	ug/l	98
85) sec-Butylbenzene	13.594	105	802373	43.924	ug/l	99
86) p-Isopropyltoluene	13.706	119	658963	43.685	ug/l	99
87) 1,3-Dichlorobenzene	13.711	146	346038	42.798	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	359327	42.705	ug/l	99
89) n-Butylbenzene	14.035	91	654734	43.704	ug/l	100
90) Hexachloroethane	14.311	117	119987	41.752	ug/l	96
91) 1,2-Dichlorobenzene	14.082	146	329254	42.924	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.694	75	60532	42.504	ug/l	98
93) 1,2,4-Trichlorobenzene	15.364	180	197383	42.852	ug/l	99
94) Hexachlorobutadiene	15.476	225	67769	41.269	ug/l	99
95) Naphthalene	15.611	128	706917	43.329	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	191126	42.444	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087626.D
Acq On : 21 Aug 2025 15:47
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082125

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:59:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:54:13 2025
Response via : Initial Calibration

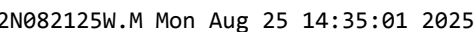
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082125

Manual Integrations APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082125

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	0.710	0.702	1.1	87	0.00
3 P	Chloromethane	0.730	0.695	4.8	88	0.00
4 C	Vinyl Chloride	0.846	0.769	9.1#	86	0.00
5 T	Bromomethane	0.437	0.440	-0.7	99	0.00
6 T	Chloroethane	0.595	0.505	15.1	85	0.00
7 T	Trichlorofluoromethane	1.240	1.091	12.0	86	0.00
8 T	Diethyl Ether	0.540	0.450	16.7	86	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.701	0.584	16.7	85	0.00
10 T	Methyl Iodide	0.450	0.429	4.7	90	0.00
11 T	Tert butyl alcohol	0.178	0.159	10.7	87	0.00
12 CM	1,1-Dichloroethene	0.721	0.607	15.8#	87	0.00
13 T	Acrolein	0.219	0.181	17.4	85	0.00
14 T	Allyl chloride	1.306	1.065	18.5	87	0.00
15 T	Acrylonitrile	0.502	0.433	13.7	88	0.00
16 T	Acetone	0.558	0.452	19.0	87	0.00
17 T	Carbon Disulfide	1.985	1.705	14.1	86	0.00
18 T	Methyl Acetate	1.168	1.013	13.3	88	0.00
19 T	Methyl tert-butyl Ether	2.704	2.346	13.2	87	0.00
20 T	Methylene Chloride	0.948	0.724	23.6	89	0.00
21 T	trans-1,2-Dichloroethene	0.781	0.655	16.1	88	0.00
22 T	Diisopropyl ether	2.819	2.411	14.5	85	0.00
23 T	Vinyl Acetate	2.565	2.270	11.5	85	0.00
24 P	1,1-Dichloroethane	1.546	1.306	15.5	88	0.00
25 T	2-Butanone	0.734	0.633	13.8	87	0.00
26 T	2,2-Dichloropropane	1.327	1.126	15.1	86	0.00
27 T	cis-1,2-Dichloroethene	0.934	0.793	15.1	85	0.01
28 T	Bromochloromethane	0.747	0.687	8.0	99	0.00
29 T	Tetrahydrofuran	0.472	0.397	15.9	84	0.00
30 C	Chloroform	1.578	1.359	13.9#	87	0.00
31 T	Cyclohexane	1.289	1.080	16.2	88	0.00
32 T	1,1,1-Trichloroethane	1.337	1.136	15.0	88	0.00
33 S	1,2-Dichloroethane-d4	1.024	0.896	12.5	94	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35 S	Dibromofluoromethane	0.361	0.312	13.6	92	0.00
36 T	1,1-Dichloropropene	0.554	0.462	16.6	86	0.00
37 T	Ethyl Acetate	0.757	0.620	18.1	83	0.00
38 T	Carbon Tetrachloride	0.547	0.477	12.8	87	0.00
39 T	Methylcyclohexane	0.610	0.508	16.7	85	0.00
40 TM	Benzene	1.699	1.465	13.8	86	0.00
41 T	Methacrylonitrile	0.392	0.334	14.8	85	0.00
42 TM	1,2-Dichloroethane	0.653	0.564	13.6	86	0.00
43 T	Isopropyl Acetate	1.182	1.030	12.9	85	0.00
44 TM	Trichloroethene	0.388	0.325	16.2	85	0.00
45 C	1,2-Dichloropropane	0.448	0.369	17.6#	84	0.00
46 T	Dibromomethane	0.319	0.276	13.5	86	0.00
47 T	Bromodichloromethane	0.653	0.564	13.6	87	0.00
48 T	Methyl methacrylate	0.559	0.487	12.9	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN082125

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.007	0.007	0.0	86	0.00
50 S	Toluene-d8	1.351	1.165	13.8	94	0.00
51 T	4-Methyl-2-Pentanone	0.713	0.633	11.2	85	0.00
52 CM	Toluene	1.053	0.912	13.4#	86	0.00
53 T	t-1,3-Dichloropropene	0.676	0.602	10.9	85	0.00
54 T	cis-1,3-Dichloropropene	0.702	0.616	12.3	85	0.00
55 T	1,1,2-Trichloroethane	0.407	0.357	12.3	86	0.00
56 T	Ethyl methacrylate	0.651	0.613	5.8	86	0.00
57 T	1,3-Dichloropropane	0.721	0.622	13.7	84	0.00
58 T	2-Chloroethyl Vinyl ether	0.352	0.365	-3.7	102	0.00
59 T	2-Hexanone	0.451	0.433	4.0	84	0.00
60 T	Dibromochloromethane	0.472	0.405	14.2	86	0.00
61 T	1,2-Dibromoethane	0.430	0.376	12.6	86	0.00
62 S	4-Bromofluorobenzene	0.481	0.428	11.0	94	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64 T	Tetrachloroethene	0.347	0.276	20.5	86	0.00
65 PM	Chlorobenzene	1.244	1.055	15.2	85	0.00
66 T	1,1,1,2-Tetrachloroethane	0.413	0.366	11.4	85	0.00
67 C	Ethyl Benzene	2.154	1.884	12.5#	86	0.00
68 T	m/p-Xylenes	0.790	0.709	10.3	85	0.00
69 T	o-Xylene	0.774	0.678	12.4	83	0.00
70 T	Styrene	1.297	1.187	8.5	84	0.00
71 P	Bromoform	0.317	0.284	10.4	86	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	4.040	3.535	12.5	86	0.00
74 T	N-amyl acetate	1.531	1.368	10.6	86	0.00
75 P	1,1,2,2-Tetrachloroethane	1.391	1.228	11.7	88	0.00
76 T	1,2,3-Trichloropropane	1.173	1.143	2.6	104	0.00
77 T	Bromobenzene	0.953	0.825	13.4	86	0.00
78 T	n-propylbenzene	4.977	4.391	11.8	85	0.00
79 T	2-Chlorotoluene	2.995	2.598	13.3	85	0.00
80 T	1,3,5-Trimethylbenzene	3.428	2.996	12.6	84	0.00
81 T	trans-1,4-Dichloro-2-butene	0.443	0.397	10.4	86	0.00
82 T	4-Chlorotoluene	3.149	2.779	11.7	86	0.00
83 T	tert-Butylbenzene	2.856	2.539	11.1	85	0.00
84 T	1,2,4-Trimethylbenzene	3.431	3.091	9.9	86	0.00
85 T	sec-Butylbenzene	4.239	3.723	12.2	86	0.00
86 T	p-Isopropyltoluene	3.500	3.058	12.6	85	0.00
87 T	1,3-Dichlorobenzene	1.876	1.606	14.4	86	0.00
88 T	1,4-Dichlorobenzene	1.952	1.667	14.6	87	0.00
89 T	n-Butylbenzene	3.476	3.038	12.6	86	0.00
90 T	Hexachloroethane	0.667	0.557	16.5	83	0.00
91 T	1,2-Dichlorobenzene	1.780	1.528	14.2	85	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.281	14.8	86	0.00
93 T	1,2,4-Trichlorobenzene	1.069	0.916	14.3	87	0.00
94 T	Hexachlorobutadiene	0.381	0.314	17.6	86	0.00
95 T	Naphthalene	3.786	3.280	13.4	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087626.D
Acq On : 21 Aug 2025 15:47
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082125

Quant Time: Aug 22 02:59:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:54:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.045	0.887	15.1	86	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082125

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	50.000	49.414	1.2	87	0.00
3 P	Chloromethane	50.000	47.621	4.8	88	0.00
4 C	Vinyl Chloride	50.000	45.461	9.1#	86	0.00
5 T	Bromomethane	50.000	50.369	-0.7	99	0.00
6 T	Chloroethane	50.000	42.496	15.0	85	0.00
7 T	Trichlorofluoromethane	50.000	44.000	12.0	86	0.00
8 T	Diethyl Ether	50.000	41.688	16.6	86	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	41.645	16.7	85	0.00
10 T	Methyl Iodide	50.000	42.154	15.7	90	0.00
11 T	Tert butyl alcohol	250.000	223.850	10.5	87	0.00
12 CM	1,1-Dichloroethene	50.000	42.117	15.8#	87	0.00
13 T	Acrolein	250.000	207.251	17.1	85	0.00
14 T	Allyl chloride	50.000	40.748	18.5	87	0.00
15 T	Acrylonitrile	250.000	215.953	13.6	88	0.00
16 T	Acetone	250.000	202.699	18.9	87	0.00
17 T	Carbon Disulfide	50.000	42.961	14.1	86	0.00
18 T	Methyl Acetate	50.000	43.391	13.2	88	0.00
19 T	Methyl tert-butyl Ether	50.000	43.377	13.2	87	0.00
20 T	Methylene Chloride	50.000	44.741	10.5	89	0.00
21 T	trans-1,2-Dichloroethene	50.000	41.945	16.1	88	0.00
22 T	Diisopropyl ether	50.000	42.758	14.5	85	0.00
23 T	Vinyl Acetate	250.000	221.221	11.5	85	0.00
24 P	1,1-Dichloroethane	50.000	42.240	15.5	88	0.00
25 T	2-Butanone	250.000	215.792	13.7	87	0.00
26 T	2,2-Dichloropropane	50.000	42.451	15.1	86	0.00
27 T	cis-1,2-Dichloroethene	50.000	42.454	15.1	85	0.01
28 T	Bromochloromethane	50.000	45.951	8.1	99	0.00
29 T	Tetrahydrofuran	250.000	209.937	16.0	84	0.00
30 C	Chloroform	50.000	43.085	13.8#	87	0.00
31 T	Cyclohexane	50.000	41.926	16.1	88	0.00
32 T	1,1,1-Trichloroethane	50.000	42.477	15.0	88	0.00
33 S	1,2-Dichloroethane-d4	50.000	43.718	12.6	94	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35 S	Dibromofluoromethane	50.000	43.218	13.6	92	0.00
36 T	1,1-Dichloropropene	50.000	41.688	16.6	86	0.00
37 T	Ethyl Acetate	50.000	40.980	18.0	83	0.00
38 T	Carbon Tetrachloride	50.000	43.614	12.8	87	0.00
39 T	Methylcyclohexane	50.000	41.693	16.6	85	0.00
40 TM	Benzene	50.000	43.129	13.7	86	0.00
41 T	Methacrylonitrile	50.000	42.550	14.9	85	0.00
42 TM	1,2-Dichloroethane	50.000	43.189	13.6	86	0.00
43 T	Isopropyl Acetate	50.000	43.578	12.8	85	0.00
44 TM	Trichloroethene	50.000	41.962	16.1	85	0.00
45 C	1,2-Dichloropropane	50.000	41.221	17.6#	84	0.00
46 T	Dibromomethane	50.000	43.340	13.3	86	0.00
47 T	Bromodichloromethane	50.000	43.189	13.6	87	0.00
48 T	Methyl methacrylate	50.000	43.548	12.9	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN082125

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	932.518	6.7	86	0.00
50 S	Toluene-d8	50.000	43.114	13.8	94	0.00
51 T	4-Methyl-2-Pentanone	250.000	222.154	11.1	85	0.00
52 CM	Toluene	50.000	43.282	13.4#	86	0.00
53 T	t-1,3-Dichloropropene	50.000	44.506	11.0	85	0.00
54 T	cis-1,3-Dichloropropene	50.000	43.867	12.3	85	0.00
55 T	1,1,2-Trichloroethane	50.000	43.838	12.3	86	0.00
56 T	Ethyl methacrylate	50.000	47.109	5.8	86	0.00
57 T	1,3-Dichloropropane	50.000	43.169	13.7	84	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	258.751	-3.5	102	0.00
59 T	2-Hexanone	250.000	240.442	3.8	84	0.00
60 T	Dibromochloromethane	50.000	42.934	14.1	86	0.00
61 T	1,2-Dibromoethane	50.000	43.736	12.5	86	0.00
62 S	4-Bromofluorobenzene	50.000	44.578	10.8	94	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64 T	Tetrachloroethene	50.000	39.730	20.5	86	0.00
65 PM	Chlorobenzene	50.000	42.389	15.2	85	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	44.313	11.4	85	0.00
67 C	Ethyl Benzene	50.000	43.729	12.5#	86	0.00
68 T	m/p-Xylenes	100.000	89.762	10.2	85	0.00
69 T	o-Xylene	50.000	43.771	12.5	83	0.00
70 T	Styrene	50.000	45.763	8.5	84	0.00
71 P	Bromoform	50.000	44.894	10.2	86	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	43.745	12.5	86	0.00
74 T	N-amyl acetate	50.000	44.668	10.7	86	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	44.155	11.7	88	0.00
76 T	1,2,3-Trichloropropane	50.000	48.723	2.6	104	0.00
77 T	Bromobenzene	50.000	43.307	13.4	86	0.00
78 T	n-propylbenzene	50.000	44.113	11.8	85	0.00
79 T	2-Chlorotoluene	50.000	43.374	13.3	85	0.00
80 T	1,3,5-Trimethylbenzene	50.000	43.710	12.6	84	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	44.790	10.4	86	0.00
82 T	4-Chlorotoluene	50.000	44.123	11.8	86	0.00
83 T	tert-Butylbenzene	50.000	44.450	11.1	85	0.00
84 T	1,2,4-Trimethylbenzene	50.000	45.041	9.9	86	0.00
85 T	sec-Butylbenzene	50.000	43.924	12.2	86	0.00
86 T	p-Isopropyltoluene	50.000	43.685	12.6	85	0.00
87 T	1,3-Dichlorobenzene	50.000	42.798	14.4	86	0.00
88 T	1,4-Dichlorobenzene	50.000	42.705	14.6	87	0.00
89 T	n-Butylbenzene	50.000	43.704	12.6	86	0.00
90 T	Hexachloroethane	50.000	41.752	16.5	83	0.00
91 T	1,2-Dichlorobenzene	50.000	42.924	14.2	85	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	42.504	15.0	86	0.00
93 T	1,2,4-Trichlorobenzene	50.000	42.852	14.3	87	0.00
94 T	Hexachlorobutadiene	50.000	41.269	17.5	86	0.00
95 T	Naphthalene	50.000	43.329	13.3	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087626.D
Acq On : 21 Aug 2025 15:47
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082125

Quant Time: Aug 22 02:59:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:54:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	42.444	15.1	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2921</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>08/25/2025 09:37</u>
Lab File ID:	<u>VN087647.D</u>	Init. Calib. Date(s):	<u>08/21/2025 08/21/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:09 14:44</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.710	0.739		4.09	20
Chloromethane	0.730	0.705	0.1	-3.42	20
Vinyl Chloride	0.846	0.778		-8.04	20
Bromomethane	0.437	0.430		-1.6	20
Chloroethane	0.595	0.545		-8.4	20
Trichlorofluoromethane	1.240	1.160		-6.45	20
1,1,2-Trichlorotrifluoroethane	0.701	0.637		-9.13	20
1,1-Dichloroethene	0.721	0.637		-11.65	20
Acetone	0.558	0.579		3.76	20
Carbon Disulfide	1.985	1.818		-8.41	20
Methyl tert-butyl Ether	2.704	2.628		-2.81	20
Methyl Acetate	1.168	1.177		0.77	20
Methylene Chloride	0.948	0.767		-19.09	20
trans-1,2-Dichloroethene	0.781	0.689		-11.78	20
1,1-Dichloroethane	1.546	1.366	0.1	-11.64	20
Cyclohexane	1.289	1.137		-11.79	20
2-Butanone	0.734	0.754		2.72	20
Carbon Tetrachloride	0.547	0.522		-4.57	20
cis-1,2-Dichloroethene	0.934	0.847		-9.31	20
Bromochloromethane	0.747	0.632		-15.4	20
Chloroform	1.578	1.444		-8.49	20
1,1,1-Trichloroethane	1.337	1.225		-8.38	20
Methylcyclohexane	0.610	0.578		-5.25	20
Benzene	1.699	1.596		-6.06	20
1,2-Dichloroethane	0.653	0.611		-6.43	20
Trichloroethene	0.388	0.345		-11.08	20
1,2-Dichloropropane	0.448	0.413		-7.81	20
Bromodichloromethane	0.653	0.623		-4.59	20
4-Methyl-2-Pentanone	0.713	0.738		3.51	20
Toluene	1.053	0.966		-8.26	20
t-1,3-Dichloropropene	0.676	0.666		-1.48	20
cis-1,3-Dichloropropene	0.702	0.693		-1.28	20
1,1,2-Trichloroethane	0.407	0.405		-0.49	20
2-Hexanone	0.451	0.505		11.97	20
Dibromochloromethane	0.472	0.454		-3.81	20
1,2-Dibromoethane	0.430	0.421		-2.09	20
Tetrachloroethene	0.347	0.307		-11.53	20
Chlorobenzene	1.244	1.143	0.3	-8.12	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2921</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>08/25/2025</u> <u>09:37</u>
Lab File ID:	<u>VN087647.D</u>	Init. Calib. Date(s):	<u>08/21/2025</u> <u>08/21/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:09</u> <u>14:44</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.154	2.040		-5.29	20
m/p-Xylenes	0.790	0.773		-2.15	20
o-Xylene	0.774	0.738		-4.65	20
Styrene	1.297	1.307		0.77	20
Bromoform	0.317	0.327	0.1	3.15	20
Isopropylbenzene	4.040	3.706		-8.27	20
1,1,2,2-Tetrachloroethane	1.391	1.318	0.3	-5.25	20
1,3-Dichlorobenzene	1.876	1.729		-7.84	20
1,4-Dichlorobenzene	1.952	1.749		-10.4	20
1,2-Dichlorobenzene	1.780	1.675		-5.9	20
1,2-Dibromo-3-Chloropropane	0.330	0.330		0	20
1,2,4-Trichlorobenzene	1.069	1.006		-5.89	20
1,2,3-Trichlorobenzene	1.045	0.985		-5.74	20
1,2-Dichloroethane-d4	1.024	0.883		-13.77	20
Dibromofluoromethane	0.361	0.318		-11.91	20
Toluene-d8	1.351	1.167		-13.62	20
4-Bromofluorobenzene	0.481	0.422		-12.27	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087647.D
 Acq On : 25 Aug 2025 09:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/26/2025
 Supervised By : Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:30:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	257927	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	497405	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	459274	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	238788	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	227657	43.079	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.160%		
35) Dibromofluoromethane	8.147	113	158040	44.007	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	88.020%		
50) Toluene-d8	10.547	98	580370	43.178	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	86.360%		
62) 4-Bromofluorobenzene	12.829	95	209913	43.913	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	87.820%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	190539	52.013	ug/l	99
3) Chloromethane	2.383	50	181773	48.284	ug/l	99
4) Vinyl Chloride	2.536	62	200711	45.982	ug/l	95
5) Bromomethane	2.959	94	110879	49.230	ug/l	99
6) Chloroethane	3.130	64	140578	45.822	ug/l	96
7) Trichlorofluoromethane	3.506	101	299086	46.767	ug/l	91
8) Diethyl Ether	3.959	74	129638	46.546	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	164216	45.380	ug/l	99
10) Methyl Iodide	4.577	142	110018	41.951	ug/l	99
11) Tert butyl alcohol	5.524	59	249610	272.075	ug/l	98
12) 1,1-Dichloroethene	4.330	96	164383	44.205	ug/l	97
13) Acrolein	4.177	56	380166	337.068	ug/l	97
14) Allyl chloride	5.006	41	291237	43.218	ug/l	99
15) Acrylonitrile	5.706	53	640415	247.515	ug/l	99
16) Acetone	4.424	43	746179	259.380	ug/l	94
17) Carbon Disulfide	4.701	76	468979	45.810	ug/l	97
18) Methyl Acetate	5.018	43	303456	50.380	ug/l	100
19) Methyl tert-butyl Ether	5.783	73	677791	48.587	ug/l	98
20) Methylene Chloride	5.259	84	197897	47.497	ug/l	94
21) trans-1,2-Dichloroethene	5.771	96	177674	44.085	ug/l	98
22) Diisopropyl ether	6.653	45	691207	47.531	ug/l	98
23) Vinyl Acetate	6.589	43	3247498	245.457	ug/l	98
24) 1,1-Dichloroethane	6.553	63	352404	44.198	ug/l	98
25) 2-Butanone	7.471	43	972341	256.909	ug/l	99
26) 2,2-Dichloropropane	7.471	77	307817	44.980	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	218414	45.332	ug/l	96
28) Bromochloromethane	7.794	49	163107	42.314	ug/l	99
29) Tetrahydrofuran	7.824	42	608322	249.751	ug/l	99
30) Chloroform	7.947	83	372430	45.762	ug/l	98
31) Cyclohexane	8.236	56	293315	44.127	ug/l	97
32) 1,1,1-Trichloroethane	8.147	97	315914	45.805	ug/l	97
36) 1,1-Dichloropropene	8.353	75	244912	44.453	ug/l	99
37) Ethyl Acetate	7.553	43	350352	46.537	ug/l	96
38) Carbon Tetrachloride	8.341	117	259829	47.766	ug/l	96
39) Methylcyclohexane	9.583	83	287729	47.436	ug/l	96
40) Benzene	8.588	78	793712	46.970	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087647.D
 Acq On : 25 Aug 2025 09:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/26/2025
 Supervised By : Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:30:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	190959	48.966	ug/l	96
42) 1,2-Dichloroethane	8.653	62	303758	46.778	ug/l	100
43) Isopropyl Acetate	8.671	43	597985	50.875	ug/l	100
44) Trichloroethene	9.335	130	171566	44.470	ug/l	93
45) 1,2-Dichloropropane	9.600	63	205195	46.068	ug/l	96
46) Dibromomethane	9.688	93	151314	47.738	ug/l	99
47) Bromodichloromethane	9.871	83	310093	47.735	ug/l	97
48) Methyl methacrylate	9.665	41	279845	50.334	ug/l	98
49) 1,4-Dioxane	9.677	88	84226	1168.809	ug/l #	99
51) 4-Methyl-2-Pentanone	10.424	43	1835312	258.798	ug/l	100
52) Toluene	10.612	92	480342	45.852	ug/l	99
53) t-1,3-Dichloropropene	10.818	75	331242	49.262	ug/l	98
54) cis-1,3-Dichloropropene	10.294	75	344631	49.361	ug/l	98
55) 1,1,2-Trichloroethane	10.994	97	201664	49.762	ug/l	99
56) Ethyl methacrylate	10.859	69	339203	52.374	ug/l	98
57) 1,3-Dichloropropane	11.141	76	343765	47.931	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	862865	246.151	ug/l	100
59) 2-Hexanone	11.177	43	1255932	280.221	ug/l	99
60) Dibromochloromethane	11.341	129	225900	48.108	ug/l	100
61) 1,2-Dibromoethane	11.447	107	209416	49.007	ug/l	99
64) Tetrachloroethene	11.082	164	141116	44.287	ug/l	96
65) Chlorobenzene	11.871	112	525177	45.963	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.941	131	185245	48.835	ug/l	99
67) Ethyl Benzene	11.941	91	937027	47.365	ug/l	100
68) m/p-Xylenes	12.047	106	709585	97.801	ug/l	98
69) o-Xylene	12.376	106	338958	47.672	ug/l	100
70) Styrene	12.394	104	600428	50.405	ug/l	99
71) Bromoform	12.559	173	150357	51.684	ug/l #	98
73) Isopropylbenzene	12.676	105	885054	45.868	ug/l	100
74) N-amyl acetate	12.500	43	357775m	48.927	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	314676	47.368	ug/l	99
76) 1,2,3-Trichloropropane	12.971	75	270134m	48.241	ug/l	
77) Bromobenzene	12.959	156	207080	45.516	ug/l	97
78) n-propylbenzene	13.012	91	1117639	47.024	ug/l	100
79) 2-Chlorotoluene	13.106	91	670903	46.907	ug/l	98
80) 1,3,5-Trimethylbenzene	13.153	105	752309	45.959	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.718	75	102807	48.604	ug/l	88
82) 4-Chlorotoluene	13.200	91	689983	45.883	ug/l	98
83) tert-Butylbenzene	13.418	119	644441	47.245	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	779645	47.579	ug/l	98
85) sec-Butylbenzene	13.594	105	955236	47.190	ug/l	100
86) p-Isopropyltoluene	13.706	119	796740	47.666	ug/l	100
87) 1,3-Dichlorobenzene	13.712	146	412959	46.092	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	417746	44.805	ug/l	100
89) n-Butylbenzene	14.035	91	777751	46.851	ug/l	99
90) Hexachloroethane	14.312	117	149995	47.102	ug/l	96
91) 1,2-Dichlorobenzene	14.082	146	400026	47.063	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.700	75	78738	49.894	ug/l	95
93) 1,2,4-Trichlorobenzene	15.365	180	240229	47.066	ug/l	98
94) Hexachlorobutadiene	15.476	225	85184	46.813	ug/l	99
95) Naphthalene	15.612	128	897935	49.668	ug/l	99
96) 1,2,3-Trichlorobenzene	15.812	180	235260	47.148	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087647.D
Acq On : 25 Aug 2025 09:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/26/2025
Supervised By :Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

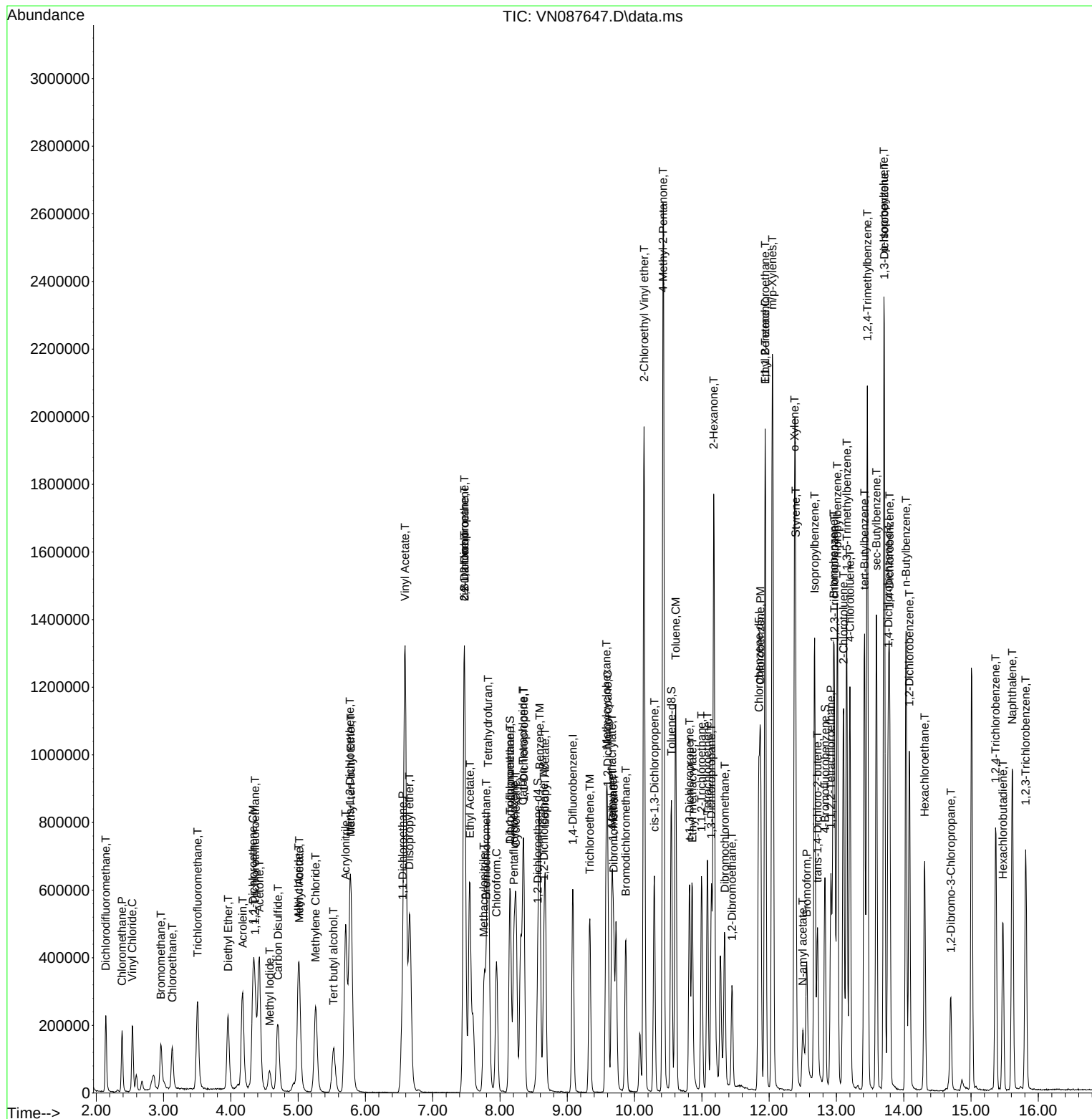
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\  
Data File : VN087647.D  
Acq On    : 25 Aug 2025   09:37  
Operator  : JC\MD  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 2      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/26/2025
Supervised By :Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087647.D
 Acq On : 25 Aug 2025 09:37
 Operator : JC\MD
 Sample : VSTDCCC050
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Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 26 01:30:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	110	0.00
2 T	Dichlorodifluoromethane	0.710	0.739	-4.1	100	0.00
3 P	Chloromethane	0.730	0.705	3.4	98	0.00
4 C	Vinyl Chloride	0.846	0.778	8.0#	95	0.00
5 T	Bromomethane	0.437	0.430	1.6	105	-0.01
6 T	Chloroethane	0.595	0.545	8.4	99	0.00
7 T	Trichlorofluoromethane	1.240	1.160	6.5	100	0.00
8 T	Diethyl Ether	0.540	0.503	6.9	104	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.701	0.637	9.1	101	0.00
10 T	Methyl Iodide	0.450	0.427	5.1	97	0.00
11 T	Tert butyl alcohol	0.178	0.194	-9.0	115	0.00
12 CM	1,1-Dichloroethene	0.721	0.637	11.7#	100	0.00
13 T	Acrolein	0.219	0.295	-34.7#	151#	0.00
14 T	Allyl chloride	1.306	1.129	13.6	100	0.00
15 T	Acrylonitrile	0.502	0.497	1.0	110	0.00
16 T	Acetone	0.558	0.579	-3.8	122	0.00
17 T	Carbon Disulfide	1.985	1.818	8.4	100	0.00
18 T	Methyl Acetate	1.168	1.177	-0.8	112	0.00
19 T	Methyl tert-butyl Ether	2.704	2.628	2.8	106	0.00
20 T	Methylene Chloride	0.948	0.767	19.1	102	0.00
21 T	trans-1,2-Dichloroethene	0.781	0.689	11.8	101	0.00
22 T	Diisopropyl ether	2.819	2.680	4.9	103	0.00
23 T	Vinyl Acetate	2.565	2.518	1.8	103	0.00
24 P	1,1-Dichloroethane	1.546	1.366	11.6	100	0.00
25 T	2-Butanone	0.734	0.754	-2.7	113	0.00
26 T	2,2-Dichloropropane	1.327	1.193	10.1	100	0.00
27 T	cis-1,2-Dichloroethene	0.934	0.847	9.3	99	0.00
28 T	Bromochloromethane	0.747	0.632	15.4	99	0.00
29 T	Tetrahydrofuran	0.472	0.472	0.0	110	0.00
30 C	Chloroform	1.578	1.444	8.5#	101	0.00
31 T	Cyclohexane	1.289	1.137	11.8	101	0.00
32 T	1,1,1-Trichloroethane	1.337	1.225	8.4	103	0.00
33 S	1,2-Dichloroethane-d4	1.024	0.883	13.8	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	106	0.00
35 S	Dibromofluoromethane	0.361	0.318	11.9	101	0.00
36 T	1,1-Dichloropropene	0.554	0.492	11.2	99	0.00
37 T	Ethyl Acetate	0.757	0.704	7.0	101	0.00
38 T	Carbon Tetrachloride	0.547	0.522	4.6	102	0.00
39 T	Methylcyclohexane	0.610	0.578	5.2	104	0.00
40 TM	Benzene	1.699	1.596	6.1	101	0.00
41 T	Methacrylonitrile	0.392	0.384	2.0	105	0.00
42 TM	1,2-Dichloroethane	0.653	0.611	6.4	100	0.00
43 T	Isopropyl Acetate	1.182	1.202	-1.7	107	0.00
44 TM	Trichloroethene	0.388	0.345	11.1	97	0.00
45 C	1,2-Dichloropropane	0.448	0.413	7.8#	101	0.00
46 T	Dibromomethane	0.319	0.304	4.7	102	0.00
47 T	Bromodichloromethane	0.653	0.623	4.6	104	0.00
48 T	Methyl methacrylate	0.559	0.563	-0.7	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087647.D
 Acq On : 25 Aug 2025 09:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 26 01:30:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.007	0.008	-14.3	116	0.00
50 S	Toluene-d8	1.351	1.167	13.6	101	0.00
51 T	4-Methyl-2-Pentanone	0.713	0.738	-3.5	107	0.00
52 CM	Toluene	1.053	0.966	8.3#	98	0.00
53 T	t-1,3-Dichloropropene	0.676	0.666	1.5	101	0.00
54 T	cis-1,3-Dichloropropene	0.702	0.693	1.3	103	0.00
55 T	1,1,2-Trichloroethane	0.407	0.405	0.5	106	0.00
56 T	Ethyl methacrylate	0.651	0.682	-4.8	103	0.00
57 T	1,3-Dichloropropane	0.721	0.691	4.2	100	0.00
58 T	2-Chloroethyl Vinyl ether	0.352	0.347	1.4	104	0.00
59 T	2-Hexanone	0.451	0.505	-12.0	105	0.00
60 T	Dibromochloromethane	0.472	0.454	3.8	103	0.00
61 T	1,2-Dibromoethane	0.430	0.421	2.1	104	0.00
62 S	4-Bromofluorobenzene	0.481	0.422	12.3	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64 T	Tetrachloroethene	0.347	0.307	11.5	103	0.00
65 PM	Chlorobenzene	1.244	1.143	8.1	99	0.00
66 T	1,1,1,2-Tetrachloroethane	0.413	0.403	2.4	100	0.00
67 C	Ethyl Benzene	2.154	2.040	5.3#	100	0.00
68 T	m/p-Xylenes	0.790	0.773	2.2	100	0.00
69 T	o-Xylene	0.774	0.738	4.7	97	0.00
70 T	Styrene	1.297	1.307	-0.8	99	0.00
71 P	Bromoform	0.317	0.327	-3.2	107	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
73 T	Isopropylbenzene	4.040	3.706	8.3	100	0.00
74 T	N-amyl acetate	1.531	1.498	2.2	104	0.00
75 P	1,1,2,2-Tetrachloroethane	1.391	1.318	5.2	105	0.00
76 T	1,2,3-Trichloropropane	1.173	1.131	3.6	114	0.00
77 T	Bromobenzene	0.953	0.867	9.0	100	0.00
78 T	n-propylbenzene	4.977	4.680	6.0	101	0.00
79 T	2-Chlorotoluene	2.995	2.810	6.2	102	0.00
80 T	1,3,5-Trimethylbenzene	3.428	3.151	8.1	98	0.00
81 T	trans-1,4-Dichloro-2-butene	0.443	0.431	2.7	103	0.00
82 T	4-Chlorotoluene	3.149	2.890	8.2	99	0.00
83 T	tert-Butylbenzene	2.856	2.699	5.5	100	0.00
84 T	1,2,4-Trimethylbenzene	3.431	3.265	4.8	101	0.00
85 T	sec-Butylbenzene	4.239	4.000	5.6	102	0.00
86 T	p-Isopropyltoluene	3.500	3.337	4.7	102	0.00
87 T	1,3-Dichlorobenzene	1.876	1.729	7.8	102	0.00
88 T	1,4-Dichlorobenzene	1.952	1.749	10.4	101	0.00
89 T	n-Butylbenzene	3.476	3.257	6.3	102	0.00
90 T	Hexachloroethane	0.667	0.628	5.8	104	0.00
91 T	1,2-Dichlorobenzene	1.780	1.675	5.9	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.330	0.0	112	0.00
93 T	1,2,4-Trichlorobenzene	1.069	1.006	5.9	106	0.00
94 T	Hexachlorobutadiene	0.381	0.357	6.3	109	0.00
95 T	Naphthalene	3.786	3.760	0.7	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087647.D
Acq On : 25 Aug 2025 09:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 26 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.045	0.985	5.7	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087647.D
 Acq On : 25 Aug 2025 09:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 26 01:30:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	110	0.00
2 T	Dichlorodifluoromethane	50.000	52.013	-4.0	100	0.00
3 P	Chloromethane	50.000	48.284	3.4	98	0.00
4 C	Vinyl Chloride	50.000	45.982	8.0#	95	0.00
5 T	Bromomethane	50.000	49.230	1.5	105	-0.01
6 T	Chloroethane	50.000	45.822	8.4	99	0.00
7 T	Trichlorofluoromethane	50.000	46.767	6.5	100	0.00
8 T	Diethyl Ether	50.000	46.546	6.9	104	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	45.380	9.2	101	0.00
10 T	Methyl Iodide	50.000	41.951	16.1	97	0.00
11 T	Tert butyl alcohol	250.000	272.075	-8.8	115	0.00
12 CM	1,1-Dichloroethene	50.000	44.205	11.6#	100	0.00
13 T	Acrolein	250.000	337.068	-34.8#	151	0.00
14 T	Allyl chloride	50.000	43.218	13.6	100	0.00
15 T	Acrylonitrile	250.000	247.515	1.0	110	0.00
16 T	Acetone	250.000	259.380	-3.8	122	0.00
17 T	Carbon Disulfide	50.000	45.810	8.4	100	0.00
18 T	Methyl Acetate	50.000	50.380	-0.8	112	0.00
19 T	Methyl tert-butyl Ether	50.000	48.587	2.8	106	0.00
20 T	Methylene Chloride	50.000	47.497	5.0	102	0.00
21 T	trans-1,2-Dichloroethene	50.000	44.085	11.8	101	0.00
22 T	Diisopropyl ether	50.000	47.531	4.9	103	0.00
23 T	Vinyl Acetate	250.000	245.457	1.8	103	0.00
24 P	1,1-Dichloroethane	50.000	44.198	11.6	100	0.00
25 T	2-Butanone	250.000	256.909	-2.8	113	0.00
26 T	2,2-Dichloropropane	50.000	44.980	10.0	100	0.00
27 T	cis-1,2-Dichloroethene	50.000	45.332	9.3	99	0.00
28 T	Bromochloromethane	50.000	42.314	15.4	99	0.00
29 T	Tetrahydrofuran	250.000	249.751	0.1	110	0.00
30 C	Chloroform	50.000	45.762	8.5#	101	0.00
31 T	Cyclohexane	50.000	44.127	11.7	101	0.00
32 T	1,1,1-Trichloroethane	50.000	45.805	8.4	103	0.00
33 S	1,2-Dichloroethane-d4	50.000	43.079	13.8	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	106	0.00
35 S	Dibromofluoromethane	50.000	44.007	12.0	101	0.00
36 T	1,1-Dichloropropene	50.000	44.453	11.1	99	0.00
37 T	Ethyl Acetate	50.000	46.537	6.9	101	0.00
38 T	Carbon Tetrachloride	50.000	47.766	4.5	102	0.00
39 T	Methylcyclohexane	50.000	47.436	5.1	104	0.00
40 TM	Benzene	50.000	46.970	6.1	101	0.00
41 T	Methacrylonitrile	50.000	48.966	2.1	105	0.00
42 TM	1,2-Dichloroethane	50.000	46.778	6.4	100	0.00
43 T	Isopropyl Acetate	50.000	50.875	-1.8	107	0.00
44 TM	Trichloroethene	50.000	44.470	11.1	97	0.00
45 C	1,2-Dichloropropane	50.000	46.068	7.9#	101	0.00
46 T	Dibromomethane	50.000	47.738	4.5	102	0.00
47 T	Bromodichloromethane	50.000	47.735	4.5	104	0.00
48 T	Methyl methacrylate	50.000	50.334	-0.7	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087647.D
 Acq On : 25 Aug 2025 09:37
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 26 01:30:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1168.809	-16.9	116	0.00
50 S	Toluene-d8	50.000	43.178	13.6	101	0.00
51 T	4-Methyl-2-Pentanone	250.000	258.798	-3.5	107	0.00
52 CM	Toluene	50.000	45.852	8.3#	98	0.00
53 T	t-1,3-Dichloropropene	50.000	49.262	1.5	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.361	1.3	103	0.00
55 T	1,1,2-Trichloroethane	50.000	49.762	0.5	106	0.00
56 T	Ethyl methacrylate	50.000	52.374	-4.7	103	0.00
57 T	1,3-Dichloropropane	50.000	47.931	4.1	100	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	246.151	1.5	104	0.00
59 T	2-Hexanone	250.000	280.221	-12.1	105	0.00
60 T	Dibromochloromethane	50.000	48.108	3.8	103	0.00
61 T	1,2-Dibromoethane	50.000	49.007	2.0	104	0.00
62 S	4-Bromofluorobenzene	50.000	43.913	12.2	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64 T	Tetrachloroethene	50.000	44.287	11.4	103	0.00
65 PM	Chlorobenzene	50.000	45.963	8.1	99	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	48.835	2.3	100	0.00
67 C	Ethyl Benzene	50.000	47.365	5.3#	100	0.00
68 T	m/p-Xylenes	100.000	97.801	2.2	100	0.00
69 T	o-Xylene	50.000	47.672	4.7	97	0.00
70 T	Styrene	50.000	50.405	-0.8	99	0.00
71 P	Bromoform	50.000	51.684	-3.4	107	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	108	0.00
73 T	Isopropylbenzene	50.000	45.868	8.3	100	0.00
74 T	N-amyl acetate	50.000	48.927	2.1	104	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	47.368	5.3	105	0.00
76 T	1,2,3-Trichloropropane	50.000	48.241	3.5	114	0.00
77 T	Bromobenzene	50.000	45.516	9.0	100	0.00
78 T	n-propylbenzene	50.000	47.024	6.0	101	0.00
79 T	2-Chlorotoluene	50.000	46.907	6.2	102	0.00
80 T	1,3,5-Trimethylbenzene	50.000	45.959	8.1	98	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	48.604	2.8	103	0.00
82 T	4-Chlorotoluene	50.000	45.883	8.2	99	0.00
83 T	tert-Butylbenzene	50.000	47.245	5.5	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	47.579	4.8	101	0.00
85 T	sec-Butylbenzene	50.000	47.190	5.6	102	0.00
86 T	p-Isopropyltoluene	50.000	47.666	4.7	102	0.00
87 T	1,3-Dichlorobenzene	50.000	46.092	7.8	102	0.00
88 T	1,4-Dichlorobenzene	50.000	44.805	10.4	101	0.00
89 T	n-Butylbenzene	50.000	46.851	6.3	102	0.00
90 T	Hexachloroethane	50.000	47.102	5.8	104	0.00
91 T	1,2-Dichlorobenzene	50.000	47.063	5.9	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.894	0.2	112	0.00
93 T	1,2,4-Trichlorobenzene	50.000	47.066	5.9	106	0.00
94 T	Hexachlorobutadiene	50.000	46.813	6.4	109	0.00
95 T	Naphthalene	50.000	49.668	0.7	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087647.D
Acq On : 25 Aug 2025 09:37
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 26 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.148	5.7	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



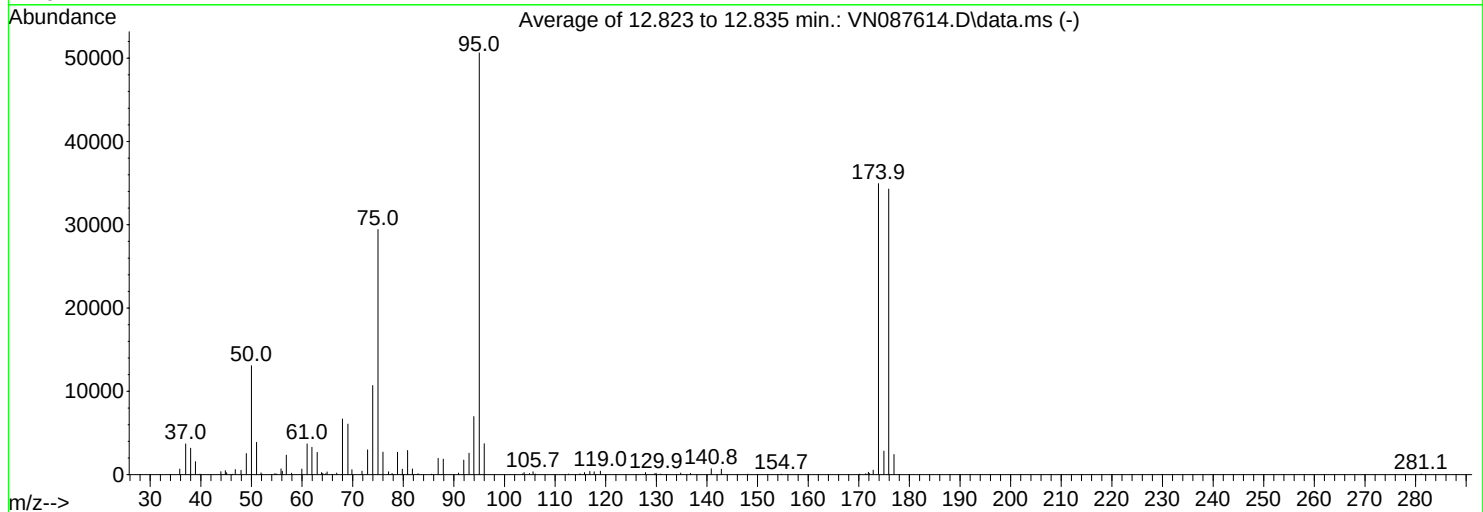
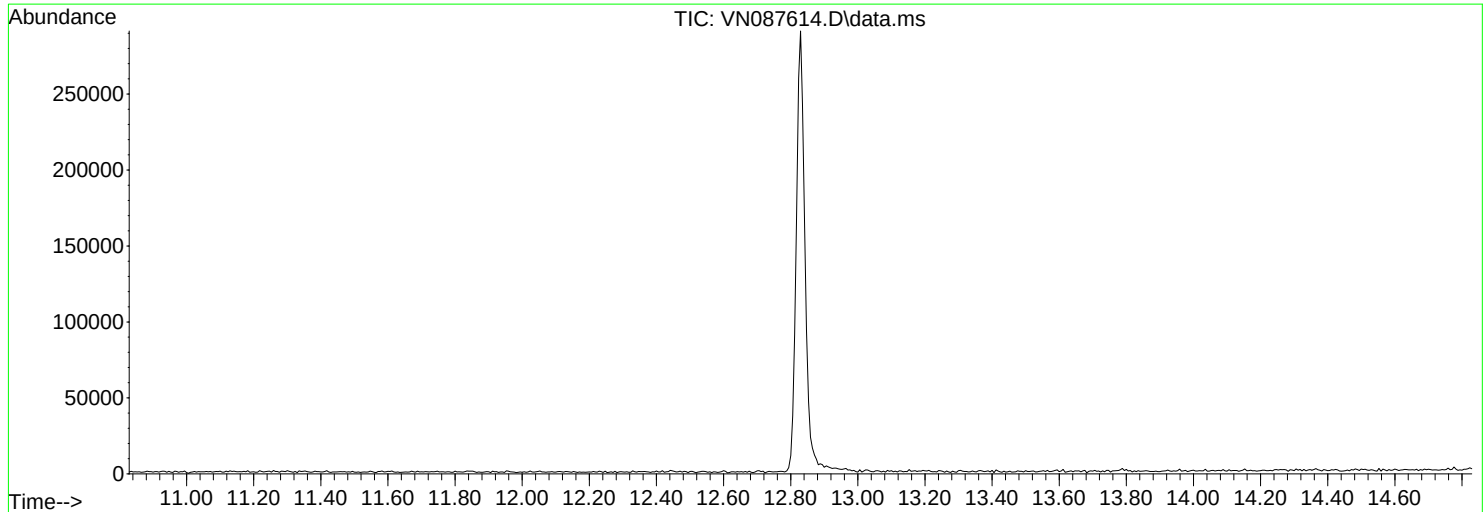
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087614.D
Acq On : 21 Aug 2025 09:30
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Title : SW846 8260
Last Update : Fri Aug 22 02:55:42 2025



AutoFind: Scans 1848, 1849, 1850; Background Corrected with Scan 1840

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.8	13089	PASS
75	95	30	60	58.1	29435	PASS
95	95	100	100	100.0	50640	PASS
96	95	5	9	7.3	3712	PASS
173	174	0.00	2	1.6	548	PASS
174	95	50	100	69.0	34952	PASS
175	174	5	9	8.1	2829	PASS
176	174	95	101	98.1	34291	PASS
177	176	5	9	7.1	2426	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	675	49.00	2529	59.95	672	69.85	591
37.00	3688	50.00	13089	61.00	3695	71.85	411
38.00	3178	51.00	3882	61.95	3294	72.95	297
38.95	1555	51.90	219	63.00	2681	73.95	1069
39.85	60	52.10	64	63.85	251	75.00	29435
43.95	374	54.65	128	64.10	153	76.00	2714
44.85	476	55.00	70	64.70	121	77.10	352
45.10	237	55.85	685	64.95	324	77.80	133
46.20	55	56.10	397	66.85	193	78.85	2691
46.80	616	56.90	2340	68.00	6681	79.80	662
47.95	526	57.95	176	69.05	6065	80.85	2901

Average of 12.823 to 12.835 min.: VN087614.D\data.ms

BFB

Modified:subtracted

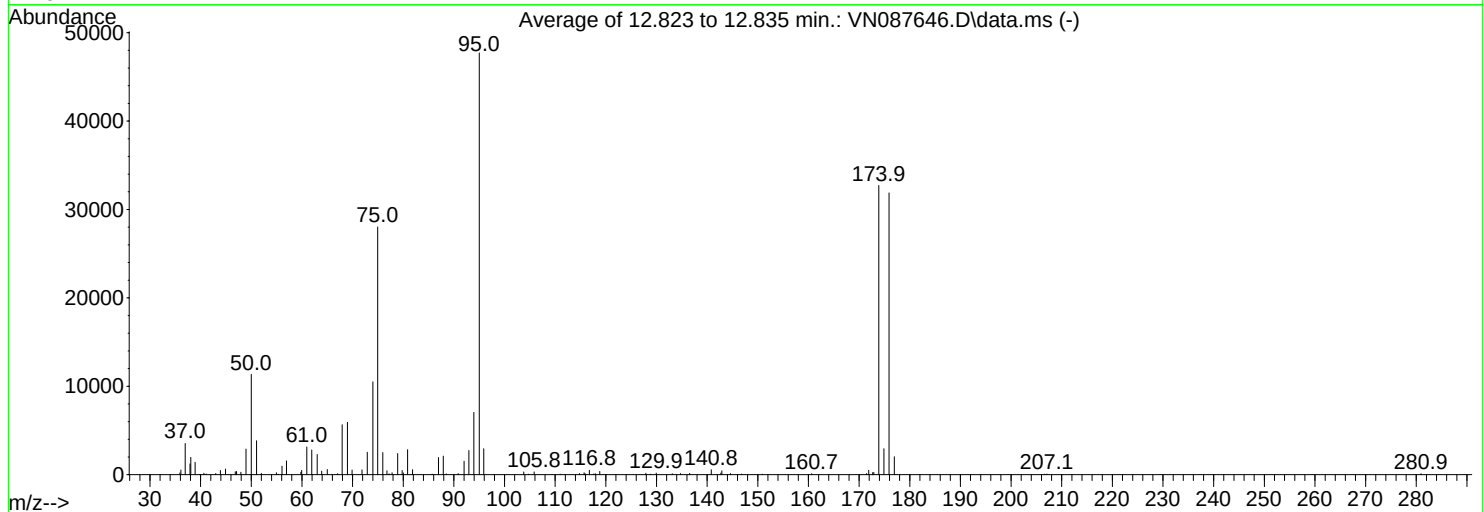
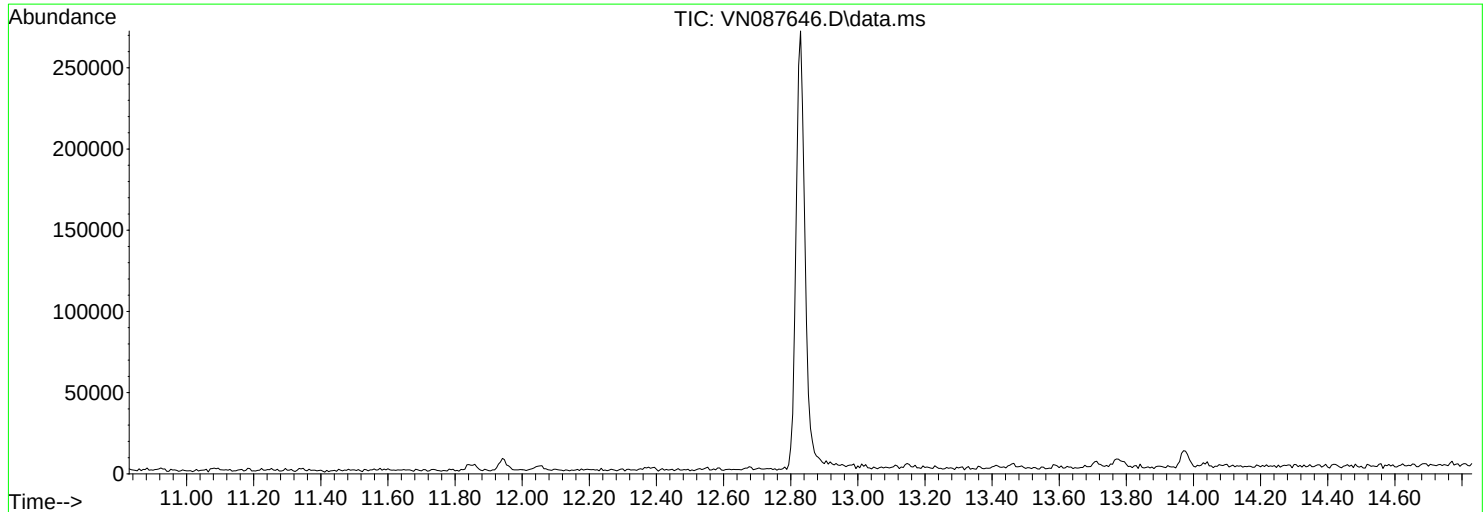
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.80	684	103.60	98	127.85	257	171.40	114
82.90	109	103.85	252	129.70	113	171.90	297
85.60	55	104.95	136	129.95	176	172.10	131
86.90	1959	105.65	343	130.90	79	172.85	548
87.90	1858	106.10	71	134.80	197	173.90	34952
90.90	194	112.70	85	136.75	152	174.95	2829
91.95	1755	114.90	88	140.85	705	175.90	34291
93.00	2573	115.80	249	142.85	649	176.95	2426
93.95	6967	116.85	391	148.10	51	281.10	79
95.00	50640	117.70	342	154.70	64		
96.00	3712	118.95	421	170.20	52		

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087646.D
Acq On : 25 Aug 2025 08:15
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Title : SW846 8260
Last Update : Fri Aug 22 02:55:42 2025



AutoFind: Scans 1848, 1849, 1850; Background Corrected with Scan 1840

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	11343	PASS
75	95	30	60	58.7	28016	PASS
95	95	100	100	100.0	47715	PASS
96	95	5	9	6.1	2933	PASS
173	174	0.00	2	0.8	254	PASS
174	95	50	100	68.5	32707	PASS
175	174	5	9	9.0	2932	PASS
176	174	95	101	97.4	31869	PASS
177	176	5	9	6.4	2024	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	209	44.90	640	56.95	1567	69.90	520
36.10	532	46.85	329	59.80	260	71.85	549
36.95	3536	47.10	355	59.95	485	72.90	253
37.90	1208	47.95	278	60.95	3137	74.00	1049
38.05	1949	48.95	2894	61.95	2781	74.95	28016
38.90	1396	50.00	11343	63.00	2291	75.95	2507
39.80	10	51.05	3842	63.90	399	76.80	427
40.65	170	52.00	139	65.00	572	77.20	94
41.10	79	54.95	218	67.05	112	77.80	211
43.00	129	55.30	57	67.95	5649	78.90	2397
43.90	472	56.05	967	69.00	5915	79.80	471

Average of 12.823 to 12.835 min.: VN087646.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	198	95.00	47715	117.90	107	144.60	124
80.85	2817	95.90	2933	118.80	368	146.80	66
81.85	566	103.80	315	127.90	159	150.90	51
85.70	52	104.70	52	128.80	58	160.65	112
86.95	1931	105.85	311	129.95	181	171.50	137
87.90	2103	111.00	53	133.10	106	171.90	489
88.50	86	114.80	136	134.75	131	172.70	235
90.85	133	115.70	223	136.55	146	172.90	254
92.00	1516	115.90	137	140.80	555	173.90	32707
92.95	2730	116.75	497	142.70	181	174.90	2932
93.95	7050	117.60	64	142.90	445	175.90	31869

Average of 12.823 to 12.835 min.: VN087646.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.95	2024						
206.60	60						
207.10	71						
280.95	112						

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	120 Petro NJ	Date Received:	
Client Sample ID:	VN0825WBL01	SDG No.:	Q2921
Lab Sample ID:	VN0825WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087649.D	1	08/25/25 10:33	VN082525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	120 Petro NJ		Date Received:	
Client Sample ID:	VN0825WBL01		SDG No.:	Q2921
Lab Sample ID:	VN0825WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087649.D	1	08/25/25 10:33	VN082525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.3		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	48.2		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.5		77 - 121	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	190000	8.212			
540-36-3	1,4-Difluorobenzene	429000	9.082			
3114-55-4	Chlorobenzene-d5	404000	11.841			
3855-82-1	1,4-Dichlorobenzene-d4	183000	13.77			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	120 Petro NJ	Date Received:	
Client Sample ID:	VN0825WBL01	SDG No.:	Q2921
Lab Sample ID:	VN0825WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087649.D	1	08/25/25 10:33	VN082525

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087649.D
 Acq On : 25 Aug 2025 10:33
 Operator : JC\MD
 Sample : VN0825WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0825WBL01

Quant Time: Aug 26 01:31:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	190267	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	429125	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	403882	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	182604	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	203967	52.321	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	104.640%
35) Dibromofluoromethane	8.147	113	154869	49.986	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.980%
50) Toluene-d8	10.547	98	558872	48.194	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.380%
62) 4-Bromofluorobenzene	12.829	95	191876	46.527	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	93.060%

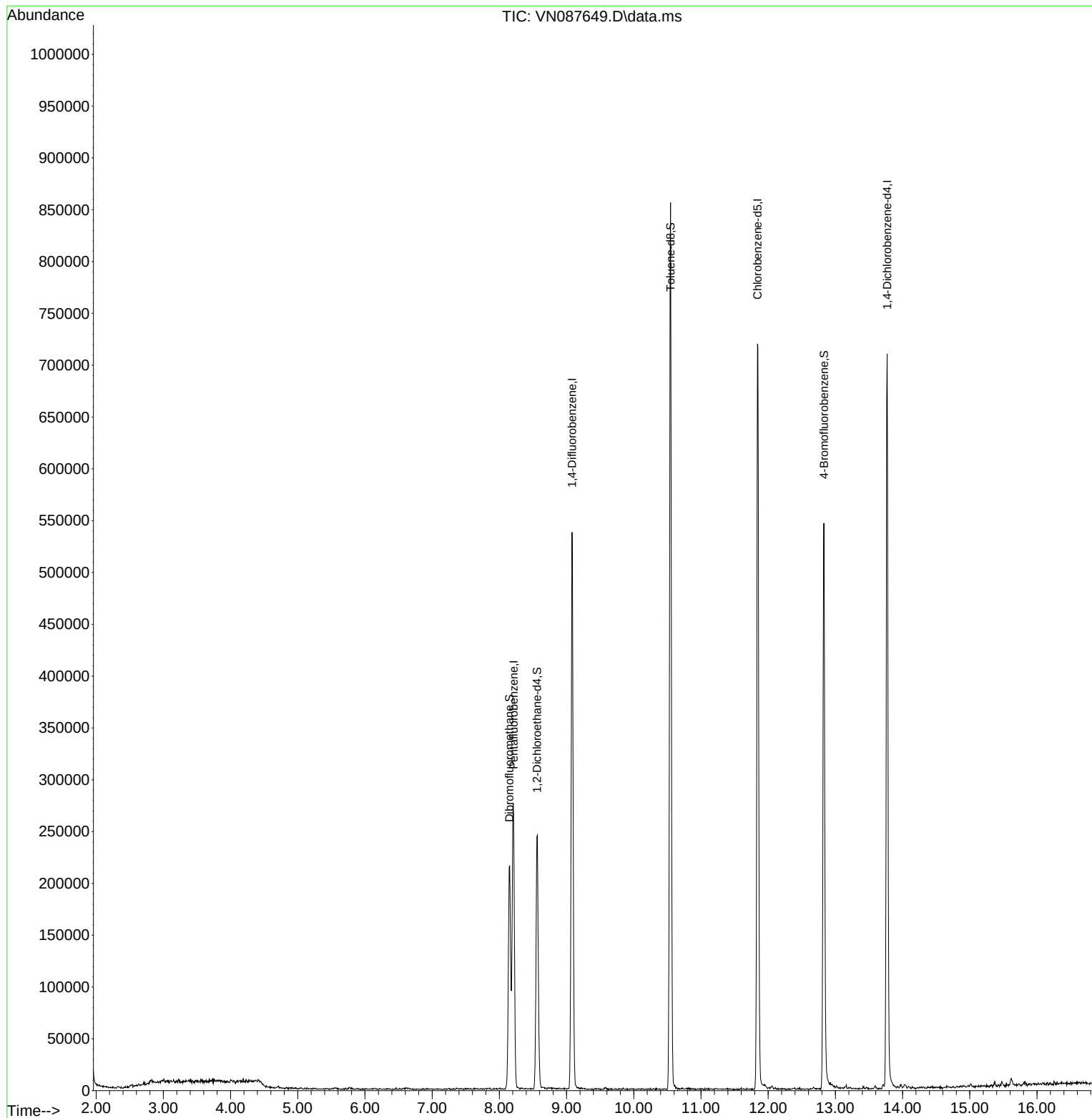
Target Compounds	Qvalue

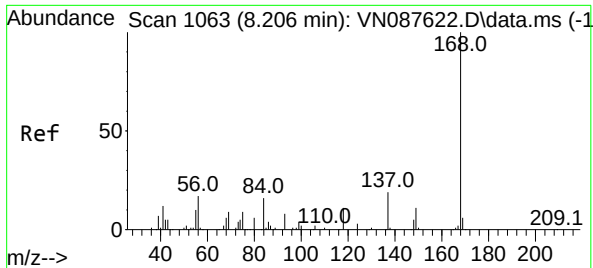
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087649.D
Acq On : 25 Aug 2025 10:33
Operator : JC\MD
Sample : VN0825WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0825WBL01

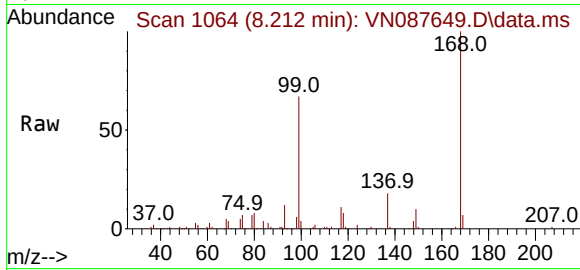
Quant Time: Aug 26 01:31:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



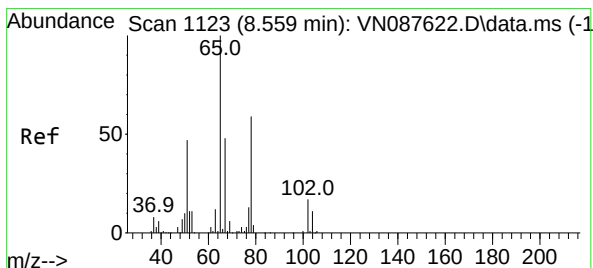
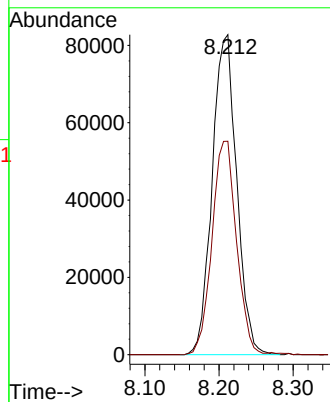
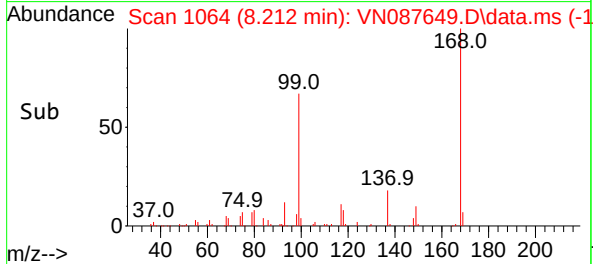


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VN087649.D
Acq: 25 Aug 2025 10:33

Instrument :
MSVOA_N
ClientSampleId :
VN0825WBL01

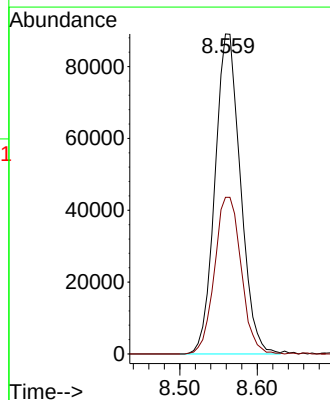
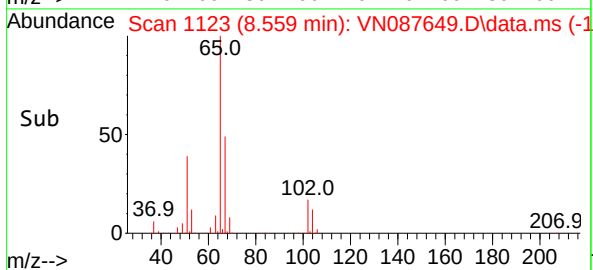
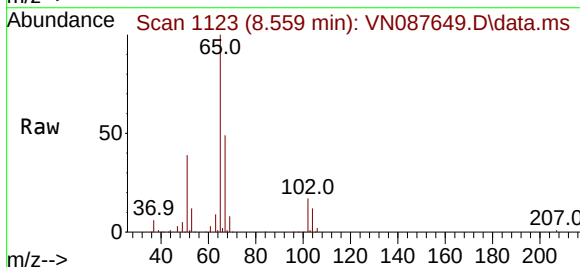


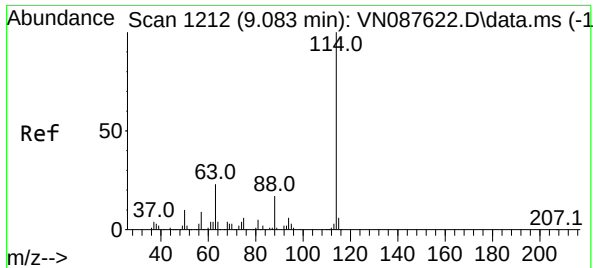
Tgt Ion:168 Resp: 190267
Ion Ratio Lower Upper
168 100
99 66.7 57.2 85.8



#33
1,2-Dichloroethane-d4
Concen: 52.321 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087649.D
Acq: 25 Aug 2025 10:33

Tgt Ion: 65 Resp: 203967
Ion Ratio Lower Upper
65 100
67 51.0 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087649.D

Acq: 25 Aug 2025 10:33

Instrument :

MSVOA_N

ClientSampleId :

VN0825WBL01

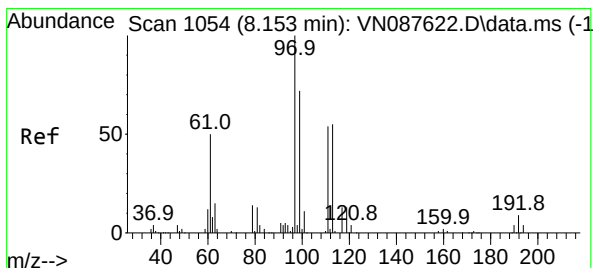
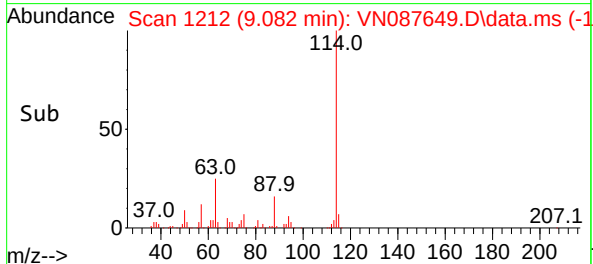
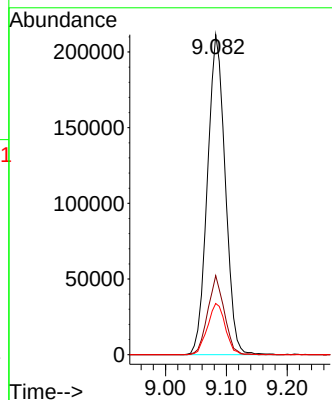
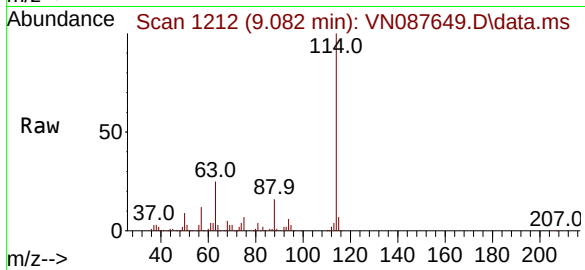
Tgt Ion:114 Resp: 429125

Ion Ratio Lower Upper

114 100

63 24.7 0.0 45.2

88 16.0 0.0 33.4



#35

Dibromofluoromethane

Concen: 49.986 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087649.D

Acq: 25 Aug 2025 10:33

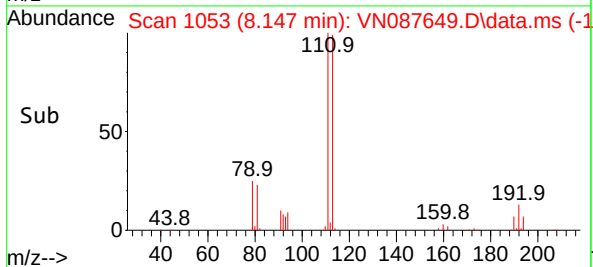
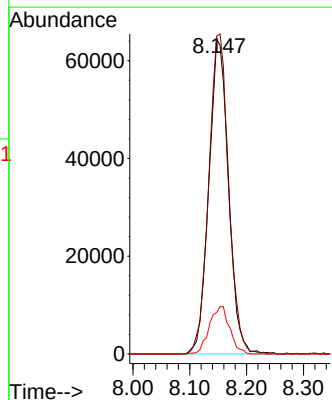
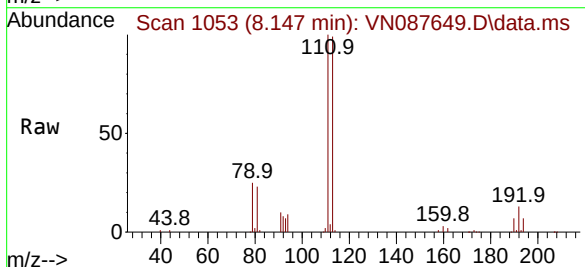
Tgt Ion:113 Resp: 154869

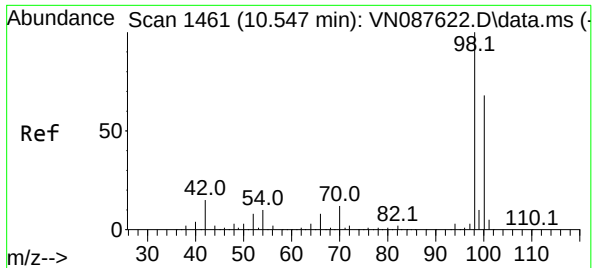
Ion Ratio Lower Upper

113 100

111 102.1 82.8 124.2

192 15.5 12.8 19.2

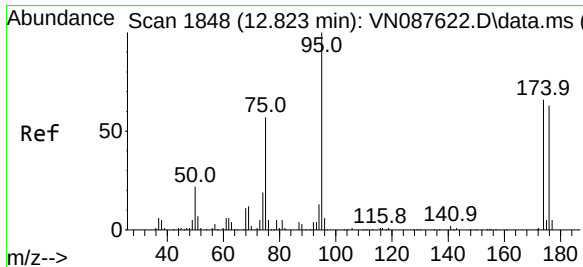
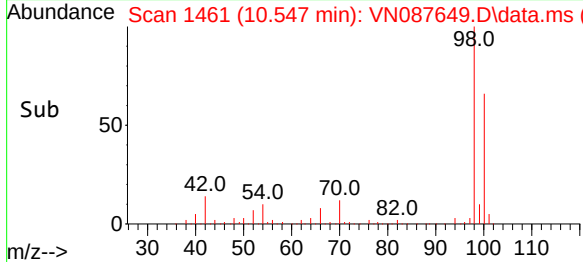
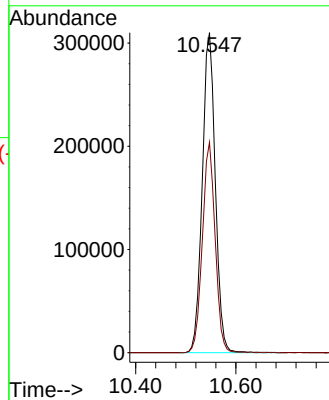
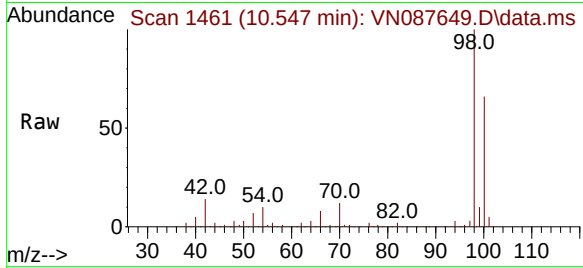




#50
Toluene-d8
Concen: 48.194 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087649.D
Acq: 25 Aug 2025 10:33

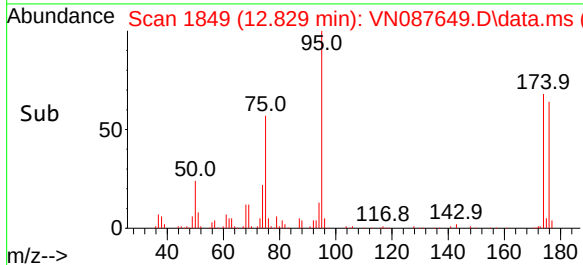
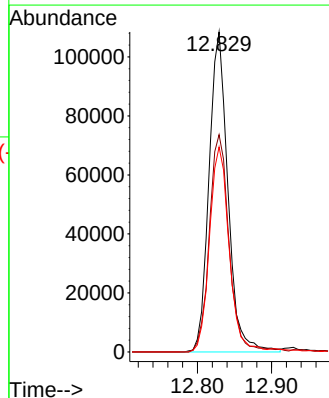
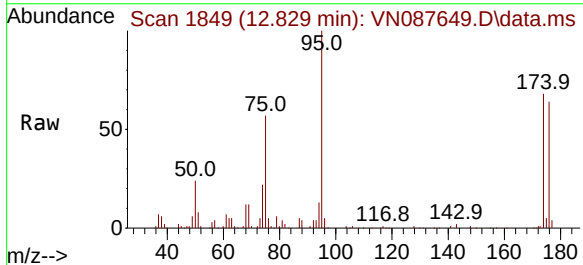
Instrument :
MSVOA_N
ClientSampleId :
VN0825WBL01

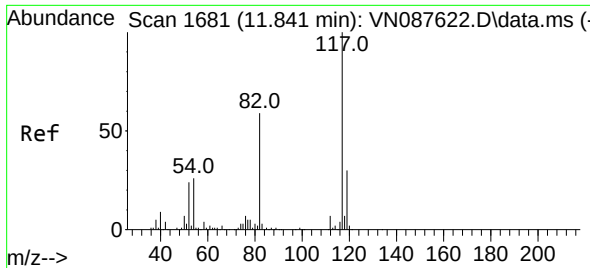
Tgt Ion: 98 Resp: 558872
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 46.527 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087649.D
Acq: 25 Aug 2025 10:33

Tgt Ion: 95 Resp: 191876
Ion Ratio Lower Upper
95 100
174 71.2 0.0 138.4
176 66.4 0.0 132.6

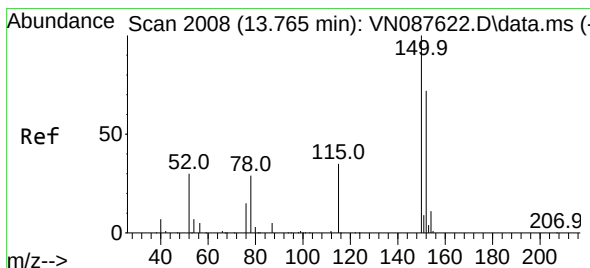
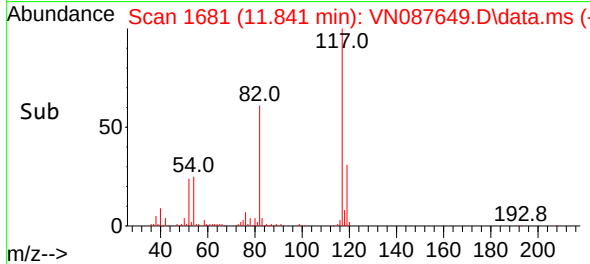
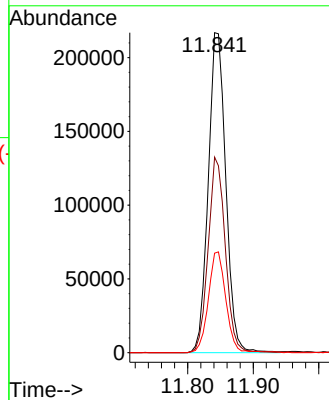
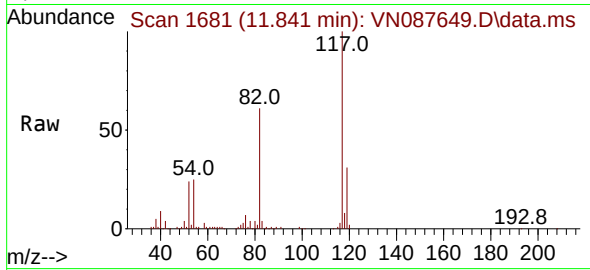




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087649.D
Acq: 25 Aug 2025 10:33

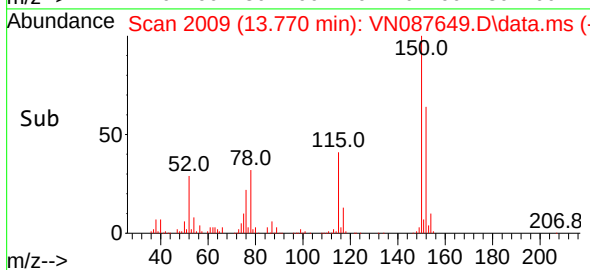
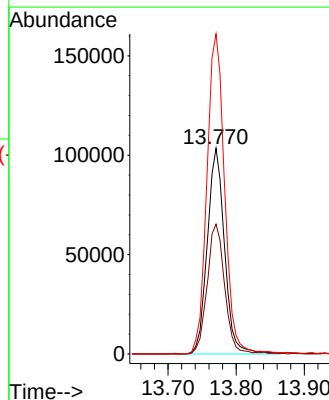
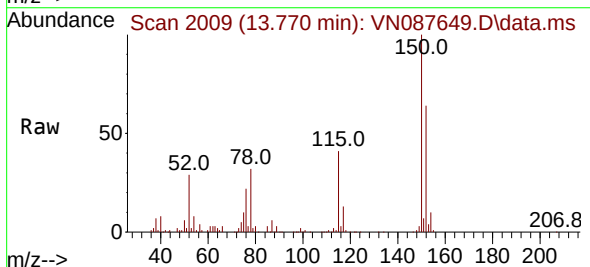
Instrument :
MSVOA_N
ClientSampleId :
VN0825WBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.1	47.4	71.2
119	31.1	24.3	36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087649.D
Acq: 25 Aug 2025 10:33

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.0	32.3	96.8
150	159.0	0.0	351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087649.D
Acq On : 25 Aug 2025 10:33
Operator : JC\MD
Sample : VN0825WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0825WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M

Title : SW846 8260

Signal : TIC: VN087649.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.153	1043	1054	1058	rBV2	215335	519404	33.41%	6.471%
2	8.206	1058	1063	1073	rVB	274623	634961	40.84%	7.911%
3	8.565	1114	1124	1134	rBV	244740	566707	36.45%	7.061%
4	9.082	1203	1212	1224	rBV	536965	1094355	70.39%	13.635%
5	10.547	1452	1461	1471	rBV	855948	1554670	100.00%	19.370%
6	11.841	1673	1681	1697	rBV	719128	1365693	87.84%	17.016%
7	12.829	1841	1849	1863	rBV	546663	1006244	64.72%	12.537%
8	13.770	2001	2009	2032	rVB	708333	1284132	82.60%	15.999%

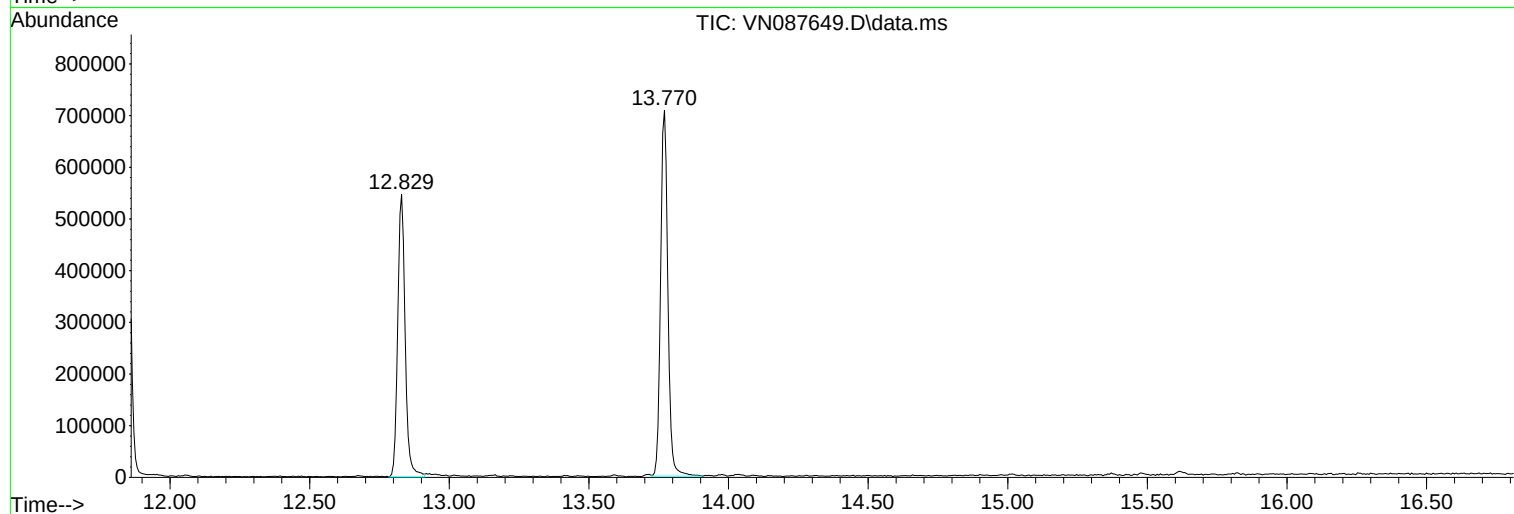
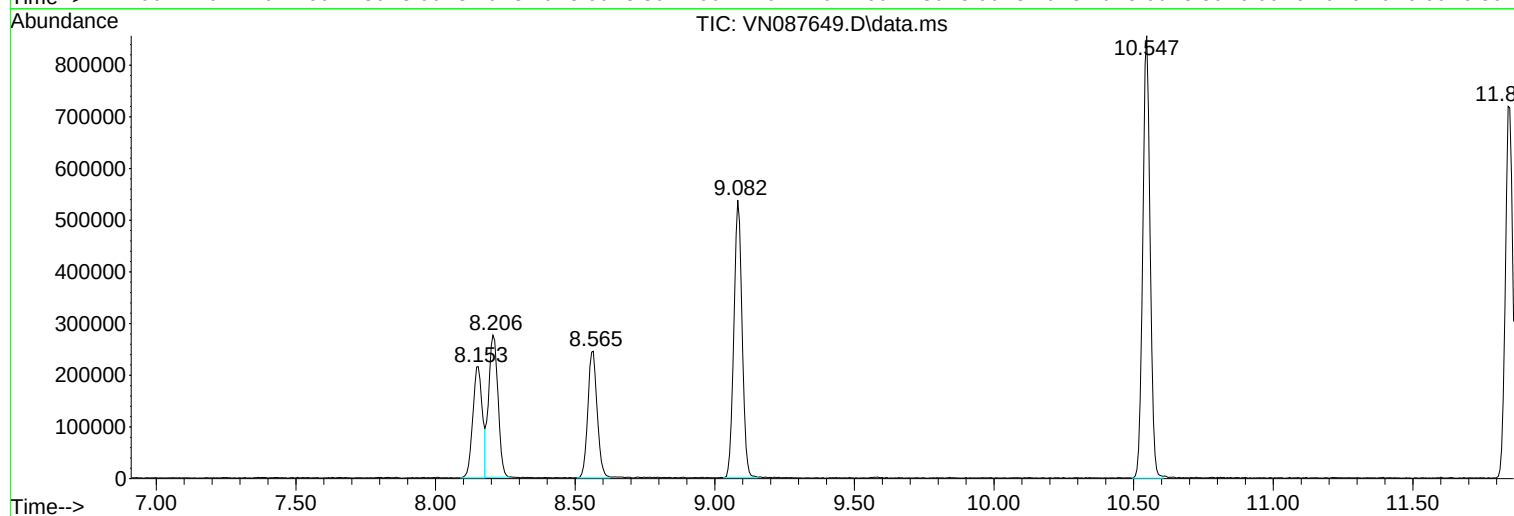
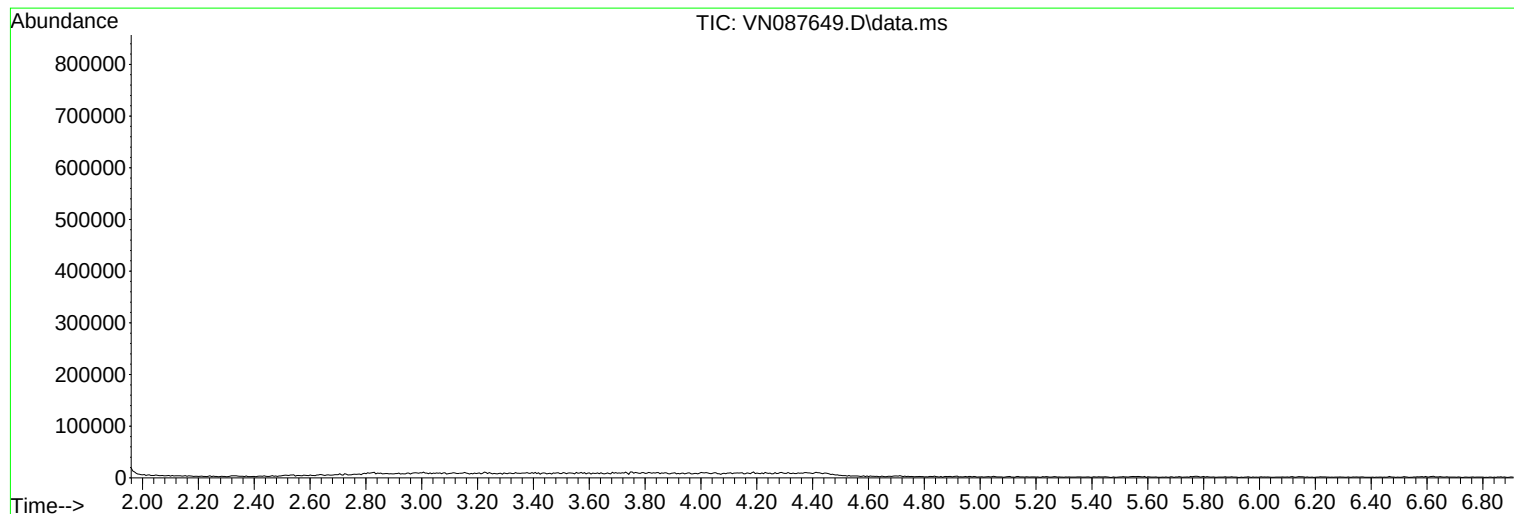
Sum of corrected areas: 8026166

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087649.D
Acq On : 25 Aug 2025 10:33
Operator : JC\MD
Sample : VN0825WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0825WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087649.D
Acq On : 25 Aug 2025 10:33
Operator : JC\MD
Sample : VN0825WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0825WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087649.D
Acq On : 25 Aug 2025 10:33
Operator : JC\MD
Sample : VN0825WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0825WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	120 Petro NJ			Date Received:	
Client Sample ID:	VN0825WBS01			SDG No.:	Q2921
Lab Sample ID:	VN0825WBS01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087650.D	1	08/25/25 12:21	VN082525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		0.22	1.00	ug/L
74-87-3	Chloromethane	19.2		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.26	1.00	ug/L
74-83-9	Bromomethane	19.5		1.40	5.00	ug/L
75-00-3	Chloroethane	18.3		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.9		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.23	1.00	ug/L
67-64-1	Acetone	92.7		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	18.3		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.0		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.4		0.27	1.00	ug/L
75-09-2	Methylene Chloride	17.7		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.0		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.7		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.1		1.50	5.00	ug/L
78-93-3	2-Butanone	90.9		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.3		0.19	1.00	ug/L
74-97-5	Bromochloromethane	20.0		0.22	1.00	ug/L
67-66-3	Chloroform	17.8		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.1		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	16.7		0.16	1.00	ug/L
71-43-2	Benzene	17.4		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	17.1		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	16.6		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	17.2		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	88.3		0.68	5.00	ug/L
108-88-3	Toluene	17.4		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	120 Petro NJ		Date Received:	
Client Sample ID:	VN0825WBS01		SDG No.:	Q2921
Lab Sample ID:	VN0825WBS01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087650.D	1	08/25/25 12:21	VN082525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.3		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.5		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.8		0.21	1.00	ug/L
591-78-6	2-Hexanone	92.2		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	16.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	17.0		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	17.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	17.4		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	17.8		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	36.1		0.24	2.00	ug/L
95-47-6	o-Xylene	17.2		0.12	1.00	ug/L
100-42-5	Styrene	17.9		0.15	1.00	ug/L
75-25-2	Bromoform	18.2		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	17.3		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.2		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.1		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.1		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.7		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.1		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.2		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.9		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		74 - 125	94%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		75 - 124	92%	SPK: 50
2037-26-5	Toluene-d8	45.3		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.8		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	223000	8.206			
540-36-3	1,4-Difluorobenzene	452000	9.082			
3114-55-4	Chlorobenzene-d5	404000	11.841			
3855-82-1	1,4-Dichlorobenzene-d4	202000	13.77			

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	120 Petro NJ			Date Received:	
Client Sample ID:	VN0825WBS01			SDG No.:	Q2921
Lab Sample ID:	VN0825WBS01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087650.D	1	08/25/25 12:21	VN082525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087650.D
 Acq On : 25 Aug 2025 12:21
 Operator : JC\MD
 Sample : VN0825WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0825WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/26/2025
 Supervised By : Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:32:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	223180	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	452330	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	403500	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	202288	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	214419	46.891	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.780%		
35) Dibromofluoromethane	8.153	113	150066	45.951	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.900%		
50) Toluene-d8	10.547	98	554082	45.330	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.660%		
62) 4-Bromofluorobenzene	12.829	95	194883	44.832	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	89.660%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	62067	19.581	ug/l	97
3) Chloromethane	2.383	50	62455	19.173	ug/l	95
4) Vinyl Chloride	2.536	62	70142	18.571	ug/l	98
5) Bromomethane	2.983	94	37956	19.476	ug/l	97
6) Chloroethane	3.136	64	48637	18.322	ug/l	97
7) Trichlorofluoromethane	3.512	101	104346	18.857	ug/l	97
8) Diethyl Ether	3.965	74	44292	18.379	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	55637	17.769	ug/l	98
10) Methyl Iodide	4.589	142	32544	18.824	ug/l	97
11) Tert butyl alcohol	5.530	59	74733	94.141	ug/l	99
12) 1,1-Dichloroethene	4.341	96	57619	17.907	ug/l	83
13) Acrolein	4.177	56	103430	105.982	ug/l	98
14) Allyl chloride	5.006	41	109090	18.709	ug/l	98
15) Acrylonitrile	5.706	53	198506	88.666	ug/l	99
16) Acetone	4.424	43	230719	92.687	ug/l	96
17) Carbon Disulfide	4.700	76	162082	18.297	ug/l	99
18) Methyl Acetate	5.024	43	96014	18.422	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	217356	18.007	ug/l	100
20) Methylene Chloride	5.265	84	66445	17.651	ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	59125	16.954	ug/l	95
22) Diisopropyl ether	6.665	45	229975	18.276	ug/l #	97
23) Vinyl Acetate	6.588	43	1037528	90.629	ug/l	99
24) 1,1-Dichloroethane	6.553	63	122293	17.726	ug/l	95
25) 2-Butanone	7.471	43	297574	90.865	ug/l	99
26) 2,2-Dichloropropane	7.477	77	107942	18.229	ug/l	97
27) cis-1,2-Dichloroethene	7.471	96	71989	17.268	ug/l	95
28) Bromochloromethane	7.794	49	66584	19.963	ug/l	99
29) Tetrahydrofuran	7.824	42	185567	88.047	ug/l	99
30) Chloroform	7.947	83	125444	17.814	ug/l	98
31) Cyclohexane	8.235	56	104300	18.134	ug/l	95
32) 1,1,1-Trichloroethane	8.153	97	107771	18.059	ug/l	93
36) 1,1-Dichloropropene	8.353	75	82214	16.409	ug/l	97
37) Ethyl Acetate	7.547	43	112045	16.366	ug/l	98
38) Carbon Tetrachloride	8.347	117	89068	18.006	ug/l	95
39) Methylcyclohexane	9.582	83	92389	16.749	ug/l	96
40) Benzene	8.588	78	267561	17.412	ug/l	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087650.D
 Acq On : 25 Aug 2025 12:21
 Operator : JC\MD
 Sample : VN0825WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0825WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/26/2025
 Supervised By : Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:32:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	58984	16.632	ug/l	97
42) 1,2-Dichloroethane	8.653	62	102076	17.286	ug/l	100
43) Isopropyl Acetate	8.671	43	186641	17.461	ug/l	99
44) Trichloroethene	9.329	130	60129	17.139	ug/l	100
45) 1,2-Dichloropropane	9.600	63	67419	16.644	ug/l	96
46) Dibromomethane	9.688	93	52335	18.156	ug/l	99
47) Bromodichloromethane	9.871	83	101851	17.241	ug/l #	98
48) Methyl methacrylate	9.665	41	81785	16.176	ug/l	94
49) 1,4-Dioxane	9.682	88	25351	386.854	ug/l #	95
51) 4-Methyl-2-Pentanone	10.429	43	569141	88.252	ug/l	99
52) Toluene	10.612	92	165573	17.380	ug/l	97
53) t-1,3-Dichloropropene	10.818	75	106076	17.347	ug/l	97
54) cis-1,3-Dichloropropene	10.294	75	110849	17.459	ug/l	96
55) 1,1,2-Trichloroethane	11.000	97	65727	17.835	ug/l	97
56) Ethyl methacrylate	10.859	69	102199	17.352	ug/l	95
57) 1,3-Dichloropropane	11.141	76	116080	17.798	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.141	63	313174	98.243	ug/l	99
59) 2-Hexanone	11.182	43	375717	92.183	ug/l	96
60) Dibromochloromethane	11.341	129	71077	16.645	ug/l	99
61) 1,2-Dibromoethane	11.447	107	66188	17.033	ug/l	98
64) Tetrachloroethene	11.082	164	47516	16.973	ug/l	98
65) Chlorobenzene	11.870	112	174339	17.367	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.941	131	62197	18.663	ug/l	98
67) Ethyl Benzene	11.941	91	309756	17.822	ug/l	94
68) m/p-Xylenes	12.053	106	229940	36.073	ug/l	99
69) o-Xylene	12.376	106	107145	17.152	ug/l	93
70) Styrene	12.394	104	187825	17.947	ug/l	97
71) Bromoform	12.559	173	46548	18.212	ug/l #	97
73) Isopropylbenzene	12.676	105	282717	17.296	ug/l	99
74) N-amyl acetate	12.535	43	124550m	20.106	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	102489	18.211	ug/l	99
76) 1,2,3-Trichloropropane	12.976	75	99469m	20.968	ug/l	
77) Bromobenzene	12.959	156	68300	17.721	ug/l	99
78) n-propylbenzene	13.012	91	357820	17.772	ug/l	100
79) 2-Chlorotoluene	13.100	91	212124	17.507	ug/l	100
80) 1,3,5-Trimethylbenzene	13.153	105	243662	17.572	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.717	75	31638	17.656	ug/l	85
82) 4-Chlorotoluene	13.200	91	221660	17.400	ug/l	98
83) tert-Butylbenzene	13.417	119	202379	17.514	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	249103	17.945	ug/l	97
85) sec-Butylbenzene	13.594	105	304307	17.746	ug/l	100
86) p-Isopropyltoluene	13.706	119	247840	17.503	ug/l	99
87) 1,3-Dichlorobenzene	13.711	146	129407	17.050	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	134736	17.058	ug/l	99
89) n-Butylbenzene	14.035	91	245432	17.452	ug/l	99
90) Hexachloroethane	14.306	117	46243	17.141	ug/l	96
91) 1,2-Dichlorobenzene	14.082	146	127220	17.668	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	22816	17.066	ug/l	94
93) 1,2,4-Trichlorobenzene	15.370	180	74556	17.243	ug/l	99
94) Hexachlorobutadiene	15.476	225	26329	17.080	ug/l	99
95) Naphthalene	15.617	128	262337	17.129	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	71418	16.895	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087650.D
Acq On : 25 Aug 2025 12:21
Operator : JC\MD
Sample : VN0825WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0825WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/26/2025
Supervised By :Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:32:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

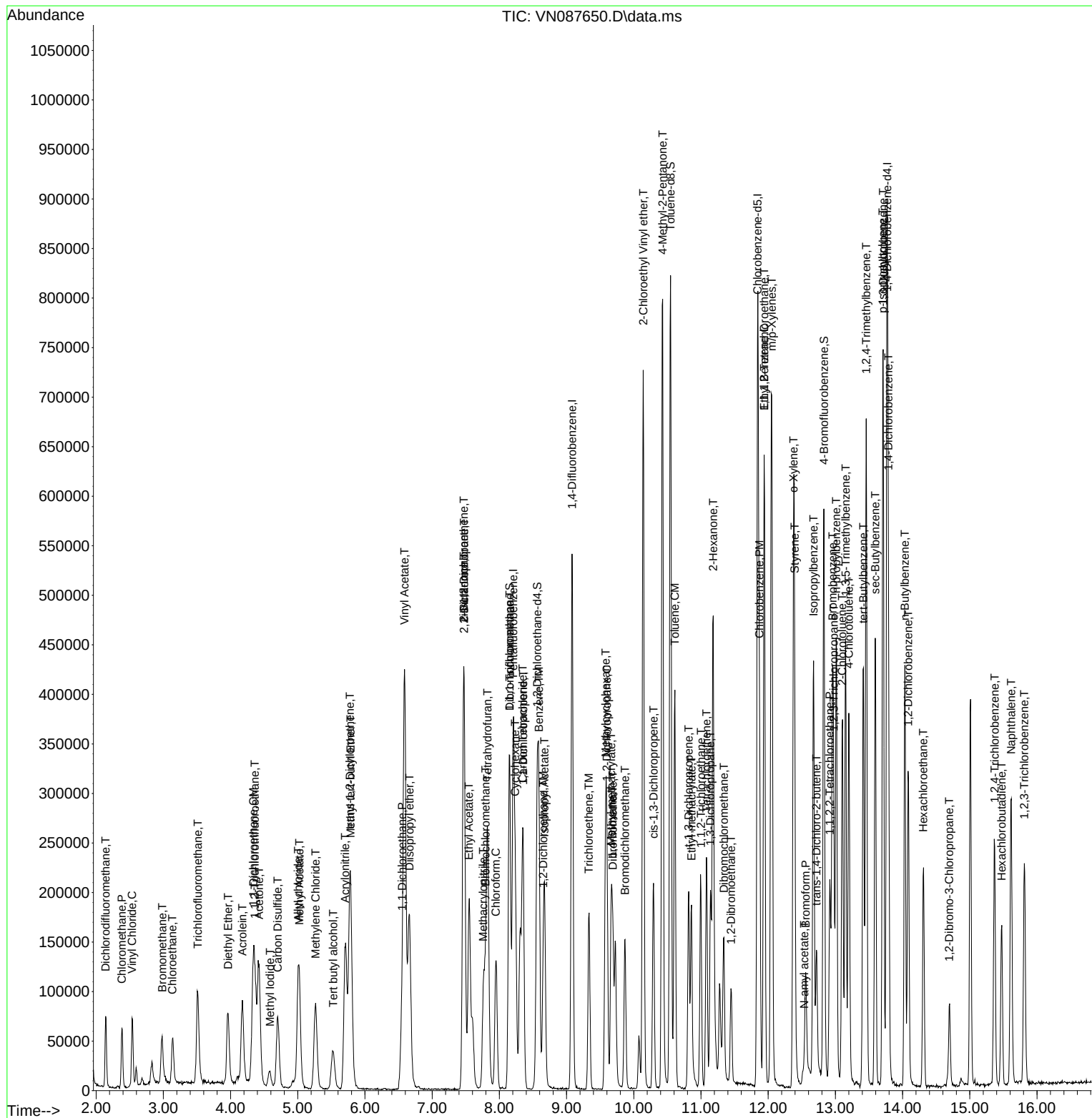
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\  
Data File : VN087650.D  
Acq On    : 25 Aug 2025 12:21  
Operator  : JC\MD  
Sample    : VN0825WBS01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN0825WBS01

Manual Integrations

Reviewed By :John Carlone 08/26/2025
Supervised By :Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:32:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	120 Petro NJ			Date Received:	
Client Sample ID:	VN0825WBSD01			SDG No.:	Q2921
Lab Sample ID:	VN0825WBSD01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087651.D	1	08/25/25 12:56	VN082525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	21.7		0.22	1.00	ug/L
74-87-3	Chloromethane	19.6		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	19.0		0.26	1.00	ug/L
74-83-9	Bromomethane	18.5		1.40	5.00	ug/L
75-00-3	Chloroethane	18.0		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.1		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	1.00	ug/L
67-64-1	Acetone	85.6		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	18.1		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.5		0.16	1.00	ug/L
79-20-9	Methyl Acetate	19.5		0.27	1.00	ug/L
75-09-2	Methylene Chloride	18.0		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.2		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.4		1.50	5.00	ug/L
78-93-3	2-Butanone	90.5		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.9		0.19	1.00	ug/L
74-97-5	Bromochloromethane	19.8		0.22	1.00	ug/L
67-66-3	Chloroform	18.2		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.7		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.2		0.16	1.00	ug/L
71-43-2	Benzene	18.4		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.1		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.1		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.7		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	98.0		0.68	5.00	ug/L
108-88-3	Toluene	18.3		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	120 Petro NJ	Date Received:	
Client Sample ID:	VN0825WBSD01	SDG No.:	Q2921
Lab Sample ID:	VN0825WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087651.D	1	08/25/25 12:56	VN082525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.0		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.4		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.7		0.21	1.00	ug/L
591-78-6	2-Hexanone	97.4		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.4		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	16.9		0.23	1.00	ug/L
108-90-7	Chlorobenzene	17.7		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.0		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	36.1		0.24	2.00	ug/L
95-47-6	o-Xylene	18.2		0.12	1.00	ug/L
100-42-5	Styrene	18.5		0.15	1.00	ug/L
75-25-2	Bromoform	18.4		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	18.1		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.3		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.8		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.9		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.1		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.9		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.0		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.4		74 - 125	93%	SPK: 50
1868-53-7	Dibromofluoromethane	46.8		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	46.2		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		77 - 121	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	231000	8.206			
540-36-3	1,4-Difluorobenzene	443000	9.083			
3114-55-4	Chlorobenzene-d5	414000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	204000	13.771			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	120 Petro NJ	Date Received:	
Client Sample ID:	VN0825WBSD01	SDG No.:	Q2921
Lab Sample ID:	VN0825WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087651.D	1	08/25/25 12:56	VN082525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087651.D
 Acq On : 25 Aug 2025 12:56
 Operator : JC\MD
 Sample : VN0825WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0825WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 08/26/2025
 Supervised By :Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:33:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	230804	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	442728	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	414378	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	204092	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	219291	46.372	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.740%		
35) Dibromofluoromethane	8.147	113	149745	46.847	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.700%		
50) Toluene-d8	10.547	98	553011	46.223	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.440%		
62) 4-Bromofluorobenzene	12.829	95	197297	46.371	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.740%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	71103	21.691	ug/l	94
3) Chloromethane	2.383	50	66060	19.609	ug/l	89
4) Vinyl Chloride	2.542	62	74382	19.043	ug/l	96
5) Bromomethane	2.977	94	37330	18.522	ug/l	92
6) Chloroethane	3.142	64	49313	17.963	ug/l	93
7) Trichlorofluoromethane	3.512	101	109068	19.059	ug/l	91
8) Diethyl Ether	3.965	74	45216	18.142	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.359	101	61089	18.866	ug/l	97
10) Methyl Iodide	4.589	142	33346	18.713	ug/l	98
11) Tert butyl alcohol	5.518	59	77278	94.132	ug/l	99
12) 1,1-Dichloroethene	4.342	96	61706	18.544	ug/l	90
13) Acrolein	4.177	56	108756	107.758	ug/l	96
14) Allyl chloride	5.012	41	115582m	19.167	ug/l	
15) Acrylonitrile	5.712	53	211379	91.297	ug/l	98
16) Acetone	4.424	43	220266	85.565	ug/l	99
17) Carbon Disulfide	4.700	76	165659	18.083	ug/l	98
18) Methyl Acetate	5.024	43	105083	19.496	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	230313	18.450	ug/l	96
20) Methylene Chloride	5.259	84	69881	17.972	ug/l	96
21) trans-1,2-Dichloroethene	5.771	96	61895	17.162	ug/l #	92
22) Diisopropyl ether	6.659	45	236198	18.151	ug/l	95
23) Vinyl Acetate	6.589	43	1099385	92.860	ug/l	99
24) 1,1-Dichloroethane	6.553	63	123467	17.305	ug/l	96
25) 2-Butanone	7.471	43	306542	90.512	ug/l	98
26) 2,2-Dichloropropane	7.477	77	110994	18.125	ug/l	98
27) cis-1,2-Dichloroethene	7.471	96	77006	17.861	ug/l	99
28) Bromochloromethane	7.794	49	68281	19.795	ug/l	99
29) Tetrahydrofuran	7.824	42	201064	92.249	ug/l	99
30) Chloroform	7.947	83	132333	18.171	ug/l	97
31) Cyclohexane	8.236	56	109362	18.386	ug/l	95
32) 1,1,1-Trichloroethane	8.153	97	109359	17.719	ug/l	99
36) 1,1-Dichloropropene	8.353	75	88273	18.001	ug/l	99
37) Ethyl Acetate	7.547	43	119052	17.766	ug/l	99
38) Carbon Tetrachloride	8.347	117	93009	19.210	ug/l	93
39) Methylcyclohexane	9.583	83	103607	19.191	ug/l	90
40) Benzene	8.588	78	276094	18.356	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087651.D
 Acq On : 25 Aug 2025 12:56
 Operator : JC\MD
 Sample : VN0825WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0825WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/26/2025
 Supervised By : Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:33:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	65630	18.907	ug/l	98
42) 1,2-Dichloroethane	8.653	62	108140	18.710	ug/l	98
43) Isopropyl Acetate	8.677	43	201379	19.249	ug/l	99
44) Trichloroethene	9.335	130	62140	18.096	ug/l	99
45) 1,2-Dichloropropane	9.600	63	71817	18.115	ug/l	96
46) Dibromomethane	9.694	93	52865	18.738	ug/l	97
47) Bromodichloromethane	9.871	83	108120	18.699	ug/l	95
48) Methyl methacrylate	9.665	41	92608	18.714	ug/l	99
49) 1,4-Dioxane	9.683	88	25291	394.309	ug/l #	94
51) 4-Methyl-2-Pentanone	10.424	43	618294	97.953	ug/l	99
52) Toluene	10.612	92	170243	18.258	ug/l	99
53) t-1,3-Dichloropropene	10.818	75	113820	19.018	ug/l	97
54) cis-1,3-Dichloropropene	10.294	75	114391	18.407	ug/l	98
55) 1,1,2-Trichloroethane	10.994	97	67370	18.677	ug/l	94
56) Ethyl methacrylate	10.859	69	110105	19.100	ug/l	100
57) 1,3-Dichloropropane	11.141	76	118896	18.625	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	290377	93.067	ug/l	97
59) 2-Hexanone	11.177	43	388655	97.425	ug/l	100
60) Dibromochloromethane	11.341	129	76263	18.247	ug/l	98
61) 1,2-Dibromoethane	11.447	107	69915	18.382	ug/l	99
64) Tetrachloroethene	11.082	164	48580	16.898	ug/l	92
65) Chlorobenzene	11.871	112	182410	17.694	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.941	131	64906	18.965	ug/l	99
67) Ethyl Benzene	11.941	91	320645	17.964	ug/l	97
68) m/p-Xylenes	12.053	106	236389	36.111	ug/l	100
69) o-Xylene	12.376	106	117070	18.249	ug/l	99
70) Styrene	12.388	104	198670	18.485	ug/l	98
71) Bromoform	12.559	173	48199	18.363	ug/l #	97
73) Isopropylbenzene	12.676	105	297882	18.062	ug/l	100
74) N-amyl acetate	12.547	43	110842m	17.735	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	109740	19.327	ug/l	100
76) 1,2,3-Trichloropropane	12.971	75	88665m	18.526	ug/l	
77) Bromobenzene	12.959	156	68944	17.730	ug/l	95
78) n-propylbenzene	13.012	91	374025	18.412	ug/l	99
79) 2-Chlorotoluene	13.100	91	221341	18.106	ug/l	98
80) 1,3,5-Trimethylbenzene	13.153	105	253186	18.097	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.718	75	31340	17.336	ug/l	91
82) 4-Chlorotoluene	13.200	91	231152	17.984	ug/l	99
83) tert-Butylbenzene	13.418	119	216360	18.558	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	256016	18.280	ug/l	99
85) sec-Butylbenzene	13.594	105	327224	18.914	ug/l	99
86) p-Isopropyltoluene	13.706	119	268502	18.794	ug/l	100
87) 1,3-Dichlorobenzene	13.712	146	136313	17.801	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	142274	17.853	ug/l	99
89) n-Butylbenzene	14.035	91	264177	18.619	ug/l	99
90) Hexachloroethane	14.306	117	49011	18.007	ug/l	95
91) 1,2-Dichlorobenzene	14.082	146	131567	18.110	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	25585	18.968	ug/l	95
93) 1,2,4-Trichlorobenzene	15.370	180	82449	18.900	ug/l	97
94) Hexachlorobutadiene	15.476	225	29874	19.208	ug/l	96
95) Naphthalene	15.617	128	279642	18.098	ug/l	99
96) 1,2,3-Trichlorobenzene	15.812	180	76698	17.984	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087651.D
Acq On : 25 Aug 2025 12:56
Operator : JC\MD
Sample : VN0825WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0825WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/26/2025
Supervised By :Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:33:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

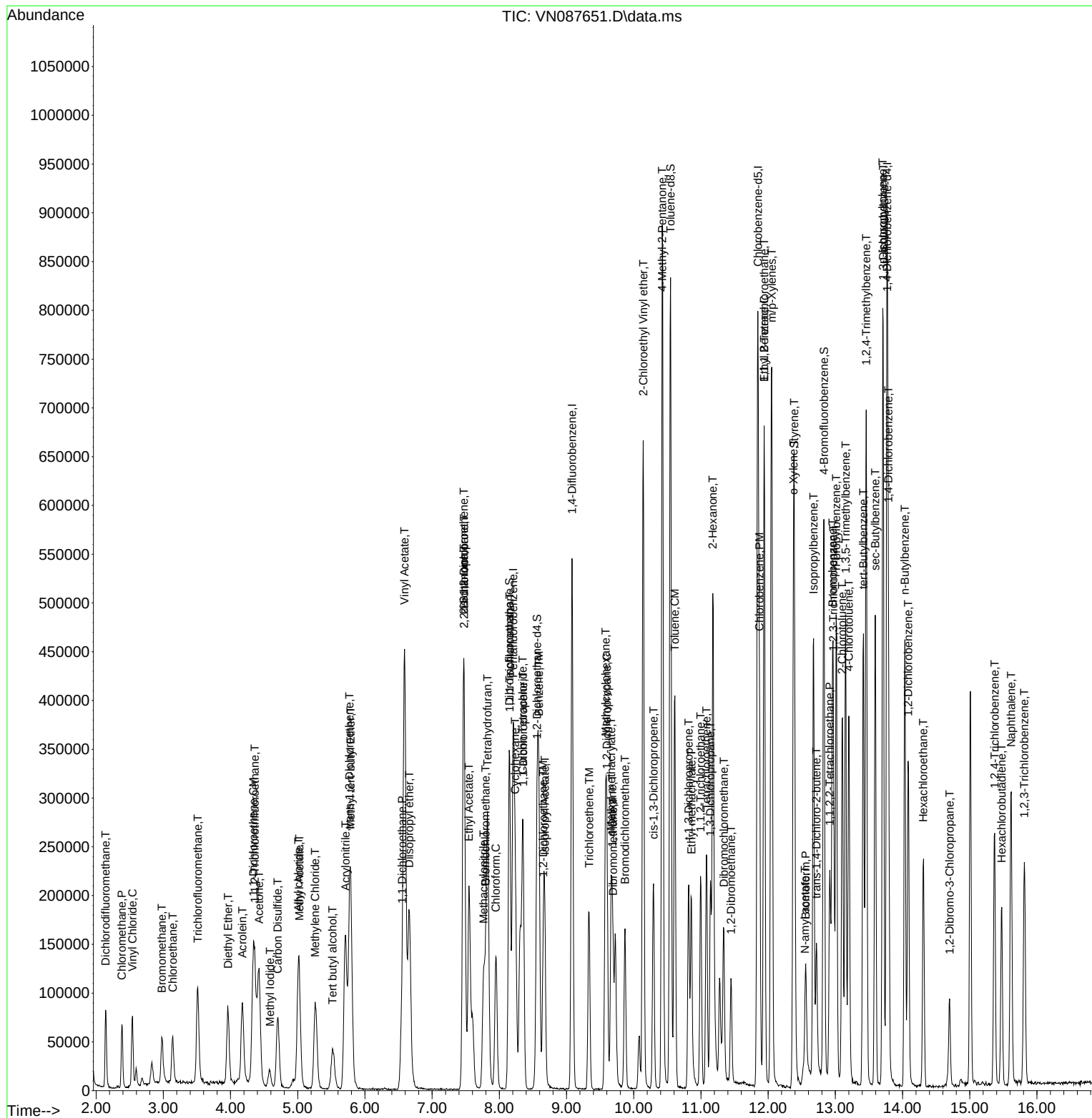
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
Data File : VN087651.D
Acq On : 25 Aug 2025 12:56
Operator : JC\MD
Sample : VN0825WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0825WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/26/2025
Supervised By :Mahesh Dadoda 08/26/2025

Quant Time: Aug 26 01:33:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VN082125	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN087619.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC001	VN087619.D	1,4-Dichlorobenzene	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC001	VN087619.D	Diethyl Ether	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC001	VN087619.D	Ethyl Acetate	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC001	VN087619.D	Methyl Acetate	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC001	VN087619.D	N-amyl acetate	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC005	VN087620.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:16:49 AM	MMDadoda	8/25/2025 8:11:20 AM	Peak Integrated by Software
VSTDICC005	VN087620.D	Ethyl Acetate	JOHN	8/22/2025 9:16:49 AM	MMDadoda	8/25/2025 8:11:20 AM	Peak Integrated by Software
VSTDICC005	VN087620.D	N-amyl acetate	JOHN	8/22/2025 9:16:49 AM	MMDadoda	8/25/2025 8:11:20 AM	Peak Integrated by Software
VSTDICC020	VN087621.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:17:20 AM	MMDadoda	8/25/2025 8:11:22 AM	Peak Integrated by Software
VSTDICC020	VN087621.D	N-amyl acetate	JOHN	8/22/2025 9:17:20 AM	MMDadoda	8/25/2025 8:11:22 AM	Peak Integrated by Software
VSTDICCC050	VN087622.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:17:24 AM	MMDadoda	8/25/2025 8:11:23 AM	Peak Integrated by Software
VSTDICCC050	VN087622.D	N-amyl acetate	JOHN	8/22/2025 9:17:24 AM	MMDadoda	8/25/2025 8:11:23 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN082125	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN087623.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:17:28 AM	MMDadoda	8/25/2025 8:11:24 AM	Peak Integrated by Software
VSTDICC150	VN087624.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:17:33 AM	MMDadoda	8/25/2025 8:11:26 AM	Peak Integrated by Software
VSTDICV050	VN087626.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:17:37 AM	MMDadoda	8/25/2025 8:11:28 AM	Peak Integrated by Software
VSTDICV050	VN087626.D	N-amyl acetate	JOHN	8/22/2025 9:17:37 AM	MMDadoda	8/25/2025 8:11:28 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN082525	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN087647.D	1,2,3-Trichloropropane	JOHN	8/26/2025 8:55:35 AM	MMDadoda	8/26/2025 3:15:26 PM	Peak Integrated by Software
VSTDCCC050	VN087647.D	N-amyl acetate	JOHN	8/26/2025 8:55:35 AM	MMDadoda	8/26/2025 3:15:26 PM	Peak Integrated by Software
VN0825WBS01	VN087650.D	1,2,3-Trichloropropane	JOHN	8/26/2025 8:55:39 AM	MMDadoda	8/26/2025 3:15:28 PM	Peak Integrated by Software
VN0825WBS01	VN087650.D	N-amyl acetate	JOHN	8/26/2025 8:55:39 AM	MMDadoda	8/26/2025 3:15:28 PM	Peak Integrated by Software
VN0825WBSD0 1	VN087651.D	1,2,3-Trichloropropane	JOHN	8/26/2025 8:55:43 AM	MMDadoda	8/26/2025 3:15:30 PM	Peak Integrated by Software
VN0825WBSD0 1	VN087651.D	Allyl chloride	JOHN	8/26/2025 8:55:43 AM	MMDadoda	8/26/2025 3:15:30 PM	Peak Integrated by Software
VN0825WBSD0 1	VN087651.D	N-amyl acetate	JOHN	8/26/2025 8:55:43 AM	MMDadoda	8/26/2025 3:15:30 PM	Peak Integrated by Software
VSTDCCC050	VN087666.D	1,2,3-Trichloropropane	JOHN	8/26/2025 8:55:51 AM	MMDadoda	8/26/2025 3:15:36 PM	Peak Integrated by Software
VSTDCCC050	VN087666.D	N-amyl acetate	JOHN	8/26/2025 8:55:51 AM	MMDadoda	8/26/2025 3:15:36 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN082125

Review By	John Carlone	Review On	8/22/2025 9:17:52 AM
Supervise By	Mahesh Dadoda	Supervise On	8/25/2025 8:11:38 AM
SubDirectory	VN082125	HP Acquire Method	HP Processing Method 82N082125
STD. NAME	STD REF.#		
Tune/Reschk	VP135214		
Initial Calibration Stds	VP135215,VP135216,VP135217,VP135218,VP135219,VP135220		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP135221		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087614.D	21 Aug 2025 09:30	JC\MD	Ok
2	VSTDCCC020	VN087615.D	21 Aug 2025 10:04	JC\MD	Not Ok
3	VN0821WBS01	VN087616.D	21 Aug 2025 10:37	JC\MD	Not Ok
4	VN0821WBSD01	VN087617.D	21 Aug 2025 11:11	JC\MD	Not Ok
5	VN0821WBL01	VN087618.D	21 Aug 2025 11:36	JC\MD	Not Ok
6	VSTDICC001	VN087619.D	21 Aug 2025 12:09	JC\MD	Ok,M
7	VSTDICC005	VN087620.D	21 Aug 2025 13:08	JC\MD	Ok,M
8	VSTDICC020	VN087621.D	21 Aug 2025 13:41	JC\MD	Ok,M
9	VSTDICCC050	VN087622.D	21 Aug 2025 14:02	JC\MD	Ok,M
10	VSTDICC100	VN087623.D	21 Aug 2025 14:23	JC\MD	Ok,M
11	VSTDICC150	VN087624.D	21 Aug 2025 14:44	JC\MD	Ok,M
12	IBLK	VN087625.D	21 Aug 2025 15:05	JC\MD	Ok
13	VSTDICV050	VN087626.D	21 Aug 2025 15:47	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN082525

Review By	John Carlone	Review On	8/26/2025 9:08:17 AM
Supervise By	Maresh Dadoda	Supervise On	8/26/2025 3:15:38 PM
SubDirectory	VN082525	HP Acquire Method	HP Processing Method 82N082125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135285		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135286,VP135287		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087646.D	25 Aug 2025 08:15	JC\MD	Ok
2	VSTDCCC050	VN087647.D	25 Aug 2025 09:37	JC\MD	Ok,M
3	VN0825MBL01	VN087648.D	25 Aug 2025 10:12	JC\MD	Ok
4	VN0825WBL01	VN087649.D	25 Aug 2025 10:33	JC\MD	Ok
5	VN0825WBS01	VN087650.D	25 Aug 2025 12:21	JC\MD	Ok,M
6	VN0825WBSD01	VN087651.D	25 Aug 2025 12:56	JC\MD	Ok,M
7	Q2936-02DL	VN087652.D	25 Aug 2025 13:16	JC\MD	Dilution
8	Q2936-05	VN087653.D	25 Aug 2025 13:37	JC\MD	Ok
9	Q2936-04	VN087654.D	25 Aug 2025 13:58	JC\MD	Ok
10	Q2920-02	VN087655.D	25 Aug 2025 14:19	JC\MD	Ok
11	Q2936-03	VN087656.D	25 Aug 2025 14:40	JC\MD	Ok
12	Q2936-01	VN087657.D	25 Aug 2025 15:01	JC\MD	Ok
13	Q2920-01	VN087658.D	25 Aug 2025 15:22	JC\MD	Ok
14	Q2921-01	VN087659.D	25 Aug 2025 15:43	JC\MD	Ok
15	PB169356TB	VN087660.D	25 Aug 2025 16:04	JC\MD	Ok
16	Q2936-02DL2	VN087661.D	25 Aug 2025 16:25	JC\MD	Ok
17	Q2941-02	VN087662.D	25 Aug 2025 16:46	JC\MD	Ok
18	VN0825WBSD02	VN087663.D	25 Aug 2025 17:08	JC\MD	Not Ok
19	Q2909-02	VN087664.D	25 Aug 2025 17:29	JC\MD	Not Ok
20	Q2940-01	VN087665.D	25 Aug 2025 17:49	JC\MD	Ok
21	VSTDCCC050	VN087666.D	25 Aug 2025 18:10	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN082125

Review By	John Carlone	Review On	8/22/2025 9:17:52 AM
Supervise By	Maresh Dadoda	Supervise On	8/25/2025 8:11:38 AM
SubDirectory	VN082125	HP Acquire Method	HP Processing Method 82N082125
STD. NAME	STD REF.#		
Tune/Reschk	VP135214		
Initial Calibration Stds	VP135215,VP135216,VP135217,VP135218,VP135219,VP135220		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP135221		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087614.D	21 Aug 2025 09:30		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN087615.D	21 Aug 2025 10:04	Need ICAL	JC\MD	Not Ok
3	VN0821WBS01	VN0821WBS01	VN087616.D	21 Aug 2025 10:37		JC\MD	Not Ok
4	VN0821WBSD01	VN0821WBSD01	VN087617.D	21 Aug 2025 11:11		JC\MD	Not Ok
5	VN0821WBL01	VN0821WBL01	VN087618.D	21 Aug 2025 11:36		JC\MD	Not Ok
6	VSTDICC001	VSTDICC001	VN087619.D	21 Aug 2025 12:09	LR-10,20	JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN087620.D	21 Aug 2025 13:08		JC\MD	Ok,M
8	VSTDICC020	VSTDICC020	VN087621.D	21 Aug 2025 13:41	method not used for #N-amyle Acetate	JC\MD	Ok,M
9	VSTDICCC050	VSTDICCC050	VN087622.D	21 Aug 2025 14:02		JC\MD	Ok,M
10	VSTDICC100	VSTDICC100	VN087623.D	21 Aug 2025 14:23		JC\MD	Ok,M
11	VSTDICC150	VSTDICC150	VN087624.D	21 Aug 2025 14:44		JC\MD	Ok,M
12	IBLK	IBLK	VN087625.D	21 Aug 2025 15:05		JC\MD	Ok
13	VSTDICV050	ICVVN082125	VN087626.D	21 Aug 2025 15:47	Icv Failed for Com.# 64 for DOD	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN082525

Review By	John Carlone	Review On	8/26/2025 9:08:17 AM
Supervise By	Maresh Dadoda	Supervise On	8/26/2025 3:15:38 PM
SubDirectory	VN082525	HP Acquire Method	HP Processing Method 82N082125W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135285
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135286,VP135287

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087646.D	25 Aug 2025 08:15		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN087647.D	25 Aug 2025 09:37	pH#Lot#V12668	JC\MD	Ok,M
3	VN0825MBL01	VN0825MBL01	VN087648.D	25 Aug 2025 10:12		JC\MD	Ok
4	VN0825WBL01	VN0825WBL01	VN087649.D	25 Aug 2025 10:33		JC\MD	Ok
5	VN0825WBS01	VN0825WBS01	VN087650.D	25 Aug 2025 12:21		JC\MD	Ok,M
6	VN0825WBSD01	VN0825WBSD01	VN087651.D	25 Aug 2025 12:56		JC\MD	Ok,M
7	Q2936-02DL	MW-19B-082125DL	VN087652.D	25 Aug 2025 13:16	vial B pH<2 Need 500X	JC\MD	Dilution
8	Q2936-05	TB	VN087653.D	25 Aug 2025 13:37	vial B pH<2 TB	JC\MD	Ok
9	Q2936-04	FB-02-082125	VN087654.D	25 Aug 2025 13:58	vial B pH<2 FB	JC\MD	Ok
10	Q2920-02	FB	VN087655.D	25 Aug 2025 14:19	vial B pH<2 FB	JC\MD	Ok
11	Q2936-03	MW-19C-082125	VN087656.D	25 Aug 2025 14:40	vial B pH<2	JC\MD	Ok
12	Q2936-01	MW-19A-082125	VN087657.D	25 Aug 2025 15:01	vial B pH<2	JC\MD	Ok
13	Q2920-01	MW1	VN087658.D	25 Aug 2025 15:22	vial B pH<2	JC\MD	Ok
14	Q2921-01	MW1	VN087659.D	25 Aug 2025 15:43	vial B pH<2	JC\MD	Ok
15	PB169356TB	PB169356TB	VN087660.D	25 Aug 2025 16:04		JC\MD	Ok
16	Q2936-02DL2	MW-19B-082125DL2	VN087661.D	25 Aug 2025 16:25	vial C pH<2	JC\MD	Ok
17	Q2941-02	SOIL-COMP(1-2)	VN087662.D	25 Aug 2025 16:46	vial A pH#5.0	JC\MD	Ok
18	VN0825WBSD02	VN0825WBSD02	VN087663.D	25 Aug 2025 17:08	Not Required	JC\MD	Not Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN082525

Review By	John Carlone	Review On	8/26/2025 9:08:17 AM
Supervise By	Maresh Dadoda	Supervise On	8/26/2025 3:15:38 PM
SubDirectory	VN082525	HP Acquire Method	HP Processing Method 82N082125W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135285
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135286,VP135287

19	Q2909-02	4065	VN087664.D	25 Aug 2025 17:29	Need Straight Run	JC\MD	Not Ok
20	Q2940-01	COMP(1-6)	VN087665.D	25 Aug 2025 17:49	vial B pH<2	JC\MD	Ok
21	VSTDCCC050	VSTDCCC050EC	VN087666.D	25 Aug 2025 18:10		JC\MD	Ok,M

M : Manual Integration



SHIPPING DOCUMENTS

CLIENT INFORMATION

COMPANY: **Geop Inc**
ADDRESS: **8 CARRIAGE**
CITY: **Succasunna** STATE: **NJ** ZIP: **07976**
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **120 Retro**
PROJECT NO.: LOCATION: **NJ**
PROJECT MANAGER: **GL**
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: **Geop Inc** PO#: **8 CARRIAGE lane**
ADDRESS: **Succasunna NJ** STATE: **NJ** ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) **STANDARD** DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data Other
☒ EDD FORMAT **hardcopy**

1. 100 VOC+15
2. 100 BTEX+15
3. 100 BTEX+15 (No Low Level BTEX)

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	MW1	GW			8/20/25	1345	4	X		X							
2.																	
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: 8/20/25 1500	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 19.2 °C
1. [Signature]		1. [Signature]	Comments: FR. 6-1
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. [Signature]		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3. [Signature]		3. [Signature]	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2921	GENV01	Order Date : 8/20/2025 3:10:18 PM	Project Mgr :
Client Name : G Environmental		Project Name : 120 Petro	Report Type : NJ Reduced
Client Contact : Gary Landis		Receive DateTime : 8/20/2025 3:09:00 PM	EDD Type : HAZ/EXCEL
Invoice Name : G Environmental		Purchase Order :	Hard Copy Date :
Invoice Contact : Gary Landis			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2921-01	MW1	Water	08/20/2025	13:45		VOCMS Group1	8260-Low		10 Bus. Days

Relinquished By :

Date / Time :

CP
8/20/25 15:25

Received By :

Date / Time :

[Signature]
08/20/25

15:25

Storage Area : VOA Refridgerator Room