

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : ANN

G ENVIRONMENTAL

8 Carriage Ln

Succasunna, NJ - 07876

Phone No: 973-294-1771

ORDER ID : Q3738

ATTENTION : Gary Landis



Laboratory Certification ID # 20012



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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC Client : G Environmental
 Project Location : NJ Project Number : _____
 Laboratory Sample ID(s) : Q3738 Sampling Date(s) : 11/26/2025
 List DKQP Methods Used (e.g., 8260,8270, et Cetra) **8260D,SOP**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☒ Yes ☐ No
1A	Were the method specified handling, preservation, and holding time requirements met?	☒ Yes ☐ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐ Yes ☒ No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	☒ Yes ☐ No ☒ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☒ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

Cover Page

Order ID : Q3738

Project ID : ANN

Client : G Environmental

Lab Sample Number

Q3738-01
Q3738-02
Q3738-03

Client Sample Number

MW4
MW5
Field

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 :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:09 am, Dec 08, 2025

Date: 12/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

G Environmental

Project Name: ANN

Project # N/A

Order ID # Q3738

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

3 Water samples were received on 11/26/2025.

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 Initial Calibration met the requirements.

The Continuous Calibration File ID VN088370.D met the requirements except for Acetone is failing marginally low and Bromoform is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Samples MW4 was diluted due to sample having strong odor, and after checking past history of this sample.

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.

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.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:09 am, Dec 08, 2025

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 #: Q3738

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: 12/05/2025

Hit Summary Sheet SW-846

SDG No.: Q3738
Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: MW4								
Q3738-01	MW4	Water	Cyclohexane	100		5.80	20.0	ug/L
Q3738-01	MW4	Water	Methylcyclohexane	260		0.64	4.00	ug/L
Q3738-01	MW4	Water	Benzene	5.60		0.60	4.00	ug/L
Q3738-01	MW4	Water	Toluene	1.60	J	0.56	4.00	ug/L
Q3738-01	MW4	Water	Ethyl Benzene	7.10		0.52	4.00	ug/L
Q3738-01	MW4	Water	m/p-Xylenes	2.40	J	0.96	8.00	ug/L
Q3738-01	MW4	Water	Isopropylbenzene	13.3		0.48	4.00	ug/L
Total Voc :				390				
Q3738-01	MW4	Water	Butane, 2-methyl-	* 57.8	J	0	0	ug/L
Q3738-01	MW4	Water	Benzene, 1,2,4,5-tetramethyl-	* 76.3	J	0	0	ug/L
Q3738-01	MW4	Water	Cyclopentane, methyl-	* 120	J	0	0	ug/L
Q3738-01	MW4	Water	Benzene, 1,4-diethyl-	* 49.2	J	0	0	ug/L
Q3738-01	MW4	Water	Pentane, 2-methyl-	* 130	J	0	0	ug/L
Q3738-01	MW4	Water	Pentane	* 58.2	J	0	0	ug/L
Q3738-01	MW4	Water	Benzene, (1,2-dimethyl-1-propyl)-	* 53.4	J	0	0	ug/L
Q3738-01	MW4	Water	1H-Indene, 2,3-dihydro-4-methyl-	* 58.0	J	0	0	ug/L
Q3738-01	MW4	Water	Isopropylcyclobutane	* 61.8	J	0	0	ug/L
Q3738-01	MW4	Water	Cyclopentane, 1,2-dimethyl-, cis-	* 52.1	J	0	0	ug/L
Q3738-01	MW4	Water	Benzene, 2-ethenyl-1,4-dimethyl-	* 140	J	0	0	ug/L
Q3738-01	MW4	Water	Benzene, 2-ethyl-1,3-dimethyl-	* 130	J	0	0	ug/L
Q3738-01	MW4	Water	Benzene, (2-methyl-1-butenyl)-	* 48.7	J	0	0	ug/L
Q3738-01	MW4	Water	n-propylbenzene	* 45.4	J	0.52	4.00	ug/L
Q3738-01	MW4	Water	tert-Butylbenzene	* 1.70	J	0.56	4.00	ug/L
Q3738-01	MW4	Water	sec-Butylbenzene	* 9.20	J	0.52	4.00	ug/L
Q3738-01	MW4	Water	p-Isopropyltoluene	* 1.60	J	0.52	4.00	ug/L
Q3738-01	MW4	Water	n-Butylbenzene	* 18.2	J	0.60	4.00	ug/L
Total Tics :				1110				
Total Concentration:				1500				
Client ID: MW5								
Q3738-02	MW5	Water	Cyclohexane	100		1.50	5.00	ug/L
Q3738-02	MW5	Water	Methylcyclohexane	110		0.16	1.00	ug/L
Q3738-02	MW5	Water	Benzene	37.5		0.15	1.00	ug/L
Q3738-02	MW5	Water	Toluene	4.10		0.14	1.00	ug/L
Q3738-02	MW5	Water	Ethyl Benzene	4.00		0.13	1.00	ug/L
Q3738-02	MW5	Water	m/p-Xylenes	5.60		0.24	2.00	ug/L
Q3738-02	MW5	Water	o-Xylene	1.70		0.12	1.00	ug/L

Hit Summary Sheet SW-846

SDG No.: Q3738

Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3738-02	MW5	Water	Isopropylbenzene	28.4		0.12	1.00	ug/L
			Total Voc :		291			
Q3738-02	MW5	Water	Pentane, 3-methyl-	* 26.5	J	0	0	ug/L
Q3738-02	MW5	Water	Cyclopentane, methyl-	* 60.7	J	0	0	ug/L
Q3738-02	MW5	Water	Benzene, 1,4-diethyl-	* 27.9	J	0	0	ug/L
Q3738-02	MW5	Water	Pentane, 2-methyl-	* 46.8	J	0	0	ug/L
Q3738-02	MW5	Water	1H-Indene, 2,3-dihydro-5-meth	* 46.1	J	0	0	ug/L
Q3738-02	MW5	Water	Benzene, 2-ethenyl-1,4-dimeth	* 140	J	0	0	ug/L
Q3738-02	MW5	Water	Naphthalene, 1,2,3,4-tetrahydc	* 25.2	J	0	0	ug/L
Q3738-02	MW5	Water	Benzene, 2-ethyl-1,3-dimethyl-	* 80.3	J	0	0	ug/L
Q3738-02	MW5	Water	Benzene, (1-methyl-1-butenyl)-	* 41.1	J	0	0	ug/L
Q3738-02	MW5	Water	1,3-Cyclopentadiene, 1,2,3,4-te	* 57.3	J	0	0	ug/L
Q3738-02	MW5	Water	Benzene, 1-methyl-4-(1-methyl	* 37.2	J	0	0	ug/L
Q3738-02	MW5	Water	n-propylbenzene	* 55.7	J	0.13	1.00	ug/L
Q3738-02	MW5	Water	tert-Butylbenzene	* 1.10	J	0.14	1.00	ug/L
Q3738-02	MW5	Water	1,2,4-Trimethylbenzene	* 0.60	J	0.14	1.00	ug/L
Q3738-02	MW5	Water	sec-Butylbenzene	* 7.10	J	0.13	1.00	ug/L
Q3738-02	MW5	Water	p-Isopropyltoluene	* 0.77	J	0.13	1.00	ug/L
Q3738-02	MW5	Water	n-Butylbenzene	* 8.40	J	0.15	1.00	ug/L
			Total Tics :		663			
			Total Concentration:		954			



SAMPLE DATA

Report of Analysis

Client: G Environmental
Project: ANN
Client Sample ID: MW4
Lab Sample ID: Q3738-01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/26/25
Date Received: 11/26/25
SDG No.: Q3738
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.88	U	4	0.88	4.00	ug/L	12/02/25 12:35	VN120225
74-87-3	Chloromethane	1.30	U	4	1.30	4.00	ug/L	12/02/25 12:35	VN120225
75-01-4	Vinyl Chloride	1.00	U	4	1.00	4.00	ug/L	12/02/25 12:35	VN120225
74-83-9	Bromomethane	5.80	U	4	5.80	20.0	ug/L	12/02/25 12:35	VN120225
75-00-3	Chloroethane	1.90	U	4	1.90	4.00	ug/L	12/02/25 12:35	VN120225
75-69-4	Trichlorofluoromethane	1.30	U	4	1.30	4.00	ug/L	12/02/25 12:35	VN120225
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	4	1.00	4.00	ug/L	12/02/25 12:35	VN120225
75-65-0	Tert butyl alcohol	22.0	U	4	22.0	100	ug/L	12/02/25 12:35	VN120225
75-35-4	1,1-Dichloroethene	0.92	U	4	0.92	4.00	ug/L	12/02/25 12:35	VN120225
67-64-1	Acetone	6.00	U	4	6.00	20.0	ug/L	12/02/25 12:35	VN120225
75-15-0	Carbon Disulfide	0.84	U	4	0.84	4.00	ug/L	12/02/25 12:35	VN120225
1634-04-4	Methyl tert-butyl Ether	0.64	U	4	0.64	4.00	ug/L	12/02/25 12:35	VN120225
79-20-9	Methyl Acetate	1.10	U	4	1.10	4.00	ug/L	12/02/25 12:35	VN120225
75-09-2	Methylene Chloride	1.10	U	4	1.10	4.00	ug/L	12/02/25 12:35	VN120225
156-60-5	trans-1,2-Dichloroethene	0.92	U	4	0.92	4.00	ug/L	12/02/25 12:35	VN120225
75-34-3	1,1-Dichloroethane	0.92	U	4	0.92	4.00	ug/L	12/02/25 12:35	VN120225
110-82-7	Cyclohexane	100		4	5.80	20.0	ug/L	12/02/25 12:35	VN120225
78-93-3	2-Butanone	3.90	U	4	3.90	20.0	ug/L	12/02/25 12:35	VN120225
56-23-5	Carbon Tetrachloride	1.00	U	4	1.00	4.00	ug/L	12/02/25 12:35	VN120225
156-59-2	cis-1,2-Dichloroethene	0.76	U	4	0.76	4.00	ug/L	12/02/25 12:35	VN120225
74-97-5	Bromochloromethane	0.88	U	4	0.88	4.00	ug/L	12/02/25 12:35	VN120225
67-66-3	Chloroform	1.00	U	4	1.00	4.00	ug/L	12/02/25 12:35	VN120225
71-55-6	1,1,1-Trichloroethane	0.80	U	4	0.80	4.00	ug/L	12/02/25 12:35	VN120225
108-87-2	Methylcyclohexane	260		4	0.64	4.00	ug/L	12/02/25 12:35	VN120225
71-43-2	Benzene	5.60		4	0.60	4.00	ug/L	12/02/25 12:35	VN120225
107-06-2	1,2-Dichloroethane	0.88	U	4	0.88	4.00	ug/L	12/02/25 12:35	VN120225
79-01-6	Trichloroethene	0.37	U	4	0.37	4.00	ug/L	12/02/25 12:35	VN120225
78-87-5	1,2-Dichloropropane	0.80	U	4	0.80	4.00	ug/L	12/02/25 12:35	VN120225
75-27-4	Bromodichloromethane	0.88	U	4	0.88	4.00	ug/L	12/02/25 12:35	VN120225
108-10-1	4-Methyl-2-Pentanone	2.70	U	4	2.70	20.0	ug/L	12/02/25 12:35	VN120225
108-88-3	Toluene	1.60	J	4	0.56	4.00	ug/L	12/02/25 12:35	VN120225
10061-02-6	t-1,3-Dichloropropene	0.68	U	4	0.68	4.00	ug/L	12/02/25 12:35	VN120225
10061-01-5	cis-1,3-Dichloropropene	0.64	U	4	0.64	4.00	ug/L	12/02/25 12:35	VN120225
79-00-5	1,1,2-Trichloroethane	0.84	U	4	0.84	4.00	ug/L	12/02/25 12:35	VN120225
591-78-6	2-Hexanone	3.60	U	4	3.60	20.0	ug/L	12/02/25 12:35	VN120225
124-48-1	Dibromochloromethane	0.72	U	4	0.72	4.00	ug/L	12/02/25 12:35	VN120225
106-93-4	1,2-Dibromoethane	0.60	U	4	0.60	4.00	ug/L	12/02/25 12:35	VN120225
127-18-4	Tetrachloroethene	0.92	U	4	0.92	4.00	ug/L	12/02/25 12:35	VN120225
108-90-7	Chlorobenzene	0.48	U	4	0.48	4.00	ug/L	12/02/25 12:35	VN120225
100-41-4	Ethyl Benzene	7.10		4	0.52	4.00	ug/L	12/02/25 12:35	VN120225
179601-23-1	m/p-Xylenes	2.40	J	4	0.96	8.00	ug/L	12/02/25 12:35	VN120225
95-47-6	o-Xylene	0.48	U	4	0.48	4.00	ug/L	12/02/25 12:35	VN120225
100-42-5	Styrene	0.60	U	4	0.60	4.00	ug/L	12/02/25 12:35	VN120225

Report of Analysis

Client: G Environmental
 Project: ANN
 Client Sample ID: MW4
 Lab Sample ID: Q3738-01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/26/25
 Date Received: 11/26/25
 SDG No.: Q3738
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
75-25-2	Bromoform	0.76	U	4	0.76	4.00	ug/L	12/02/25 12:35	VN120225
98-82-8	Isopropylbenzene	13.3		4	0.48	4.00	ug/L	12/02/25 12:35	VN120225
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	4	1.00	4.00	ug/L	12/02/25 12:35	VN120225
541-73-1	1,3-Dichlorobenzene	0.64	U	4	0.64	4.00	ug/L	12/02/25 12:35	VN120225
106-46-7	1,4-Dichlorobenzene	0.76	U	4	0.76	4.00	ug/L	12/02/25 12:35	VN120225
95-50-1	1,2-Dichlorobenzene	0.64	U	4	0.64	4.00	ug/L	12/02/25 12:35	VN120225
96-12-8	1,2-Dibromo-3-Chloropropane	2.10	U	4	2.10	4.00	ug/L	12/02/25 12:35	VN120225
120-82-1	1,2,4-Trichlorobenzene	0.80	U	4	0.80	4.00	ug/L	12/02/25 12:35	VN120225
87-61-6	1,2,3-Trichlorobenzene	0.80	U	4	0.80	4.00	ug/L	12/02/25 12:35	VN120225

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	56.4			70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9			70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.6			70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3			70 (77) - 130 (121)	107%	SPK: 50

INTERNAL STANDARDS

Area Count

363-72-4	Pentafluorobenzene	184000
540-36-3	1,4-Difluorobenzene	419000
3114-55-4	Chlorobenzene-d5	408000
3855-82-1	1,4-Dichlorobenzene-d4	191000

TENTATIVE IDENTIFIED COMPOUNDS

000078-78-4	Butane, 2-methyl-	57.8	J			3.27	ug/L
000109-66-0	Pentane	58.2	J			3.66	ug/L
000107-83-5	Pentane, 2-methyl-	130	J			5.33	ug/L
000096-37-7	Cyclopentane, methyl-	120	J			7.31	ug/L
001192-18-3	Cyclopentane, 1,2-dimethyl-, cis-	52.1	J			8.70	ug/L
000872-56-0	Isopropylcyclobutane	61.8	J			8.84	ug/L
103-65-1	n-propylbenzene	45.4	J			13.0	ug/L
98-06-6	tert-Butylbenzene	1.70	J			13.4	ug/L
135-98-8	sec-Butylbenzene	9.20	J			13.6	ug/L
99-87-6	p-Isopropyltoluene	1.60	J			13.7	ug/L
000105-05-5	Benzene, 1,4-diethyl-	49.2	J			13.9	ug/L
104-51-8	n-Butylbenzene	18.2	J			14.0	ug/L
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	130	J			14.3	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	76.3	J			14.6	ug/L
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	58.0	J			14.9	ug/L
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	140	J			15.0	ug/L
000769-57-3	Benzene, (1,2-dimethyl-1-propenyl)	53.4	J			15.3	ug/L
056253-64-6	Benzene, (2-methyl-1-butenyl)-	48.7	J			15.4	ug/L

Report of Analysis

Client:	G Environmental	Date Collected:	11/26/25
Project:	ANN	Date Received:	11/26/25
Client Sample ID:	MW4	SDG No.:	Q3738
Lab Sample ID:	Q3738-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 mL	Test:	VOCMS Group1
	Level: LOW		
	Final Vol: 5000 uL		

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

Report of Analysis

Client: G Environmental
Project: ANN
Client Sample ID: MW5
Lab Sample ID: Q3738-02
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/26/25
Date Received: 11/26/25
SDG No.: Q3738
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 15:35	VN120125
74-87-3	Chloromethane	0.32	U	1	0.32	1.00	ug/L	12/01/25 15:35	VN120125
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/01/25 15:35	VN120125
74-83-9	Bromomethane	1.40	U	1	1.40	5.00	ug/L	12/01/25 15:35	VN120125
75-00-3	Chloroethane	0.47	U	1	0.47	1.00	ug/L	12/01/25 15:35	VN120125
75-69-4	Trichlorofluoromethane	0.33	U	1	0.33	1.00	ug/L	12/01/25 15:35	VN120125
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	1	0.25	1.00	ug/L	12/01/25 15:35	VN120125
75-65-0	Tert butyl alcohol	5.50	U	1	5.50	25.0	ug/L	12/01/25 15:35	VN120125
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/01/25 15:35	VN120125
67-64-1	Acetone	1.50	U	1	1.50	5.00	ug/L	12/01/25 15:35	VN120125
75-15-0	Carbon Disulfide	0.21	U	1	0.21	1.00	ug/L	12/01/25 15:35	VN120125
1634-04-4	Methyl tert-butyl Ether	0.16	U	1	0.16	1.00	ug/L	12/01/25 15:35	VN120125
79-20-9	Methyl Acetate	0.27	U	1	0.27	1.00	ug/L	12/01/25 15:35	VN120125
75-09-2	Methylene Chloride	0.28	U	1	0.28	1.00	ug/L	12/01/25 15:35	VN120125
156-60-5	trans-1,2-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/01/25 15:35	VN120125
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/01/25 15:35	VN120125
110-82-7	Cyclohexane	100		1	1.50	5.00	ug/L	12/01/25 15:35	VN120125
78-93-3	2-Butanone	0.98	U	1	0.98	5.00	ug/L	12/01/25 15:35	VN120125
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	1.00	ug/L	12/01/25 15:35	VN120125
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/01/25 15:35	VN120125
74-97-5	Bromochloromethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 15:35	VN120125
67-66-3	Chloroform	0.25	U	1	0.25	1.00	ug/L	12/01/25 15:35	VN120125
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/01/25 15:35	VN120125
108-87-2	Methylcyclohexane	110		1	0.16	1.00	ug/L	12/01/25 15:35	VN120125
71-43-2	Benzene	37.5		1	0.15	1.00	ug/L	12/01/25 15:35	VN120125
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 15:35	VN120125
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/01/25 15:35	VN120125
78-87-5	1,2-Dichloropropane	0.20	U	1	0.20	1.00	ug/L	12/01/25 15:35	VN120125
75-27-4	Bromodichloromethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 15:35	VN120125
108-10-1	4-Methyl-2-Pentanone	0.68	U	1	0.68	5.00	ug/L	12/01/25 15:35	VN120125
108-88-3	Toluene	4.10		1	0.14	1.00	ug/L	12/01/25 15:35	VN120125
10061-02-6	t-1,3-Dichloropropene	0.17	U	1	0.17	1.00	ug/L	12/01/25 15:35	VN120125
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1	0.16	1.00	ug/L	12/01/25 15:35	VN120125
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/01/25 15:35	VN120125
591-78-6	2-Hexanone	0.89	U	1	0.89	5.00	ug/L	12/01/25 15:35	VN120125
124-48-1	Dibromochloromethane	0.18	U	1	0.18	1.00	ug/L	12/01/25 15:35	VN120125
106-93-4	1,2-Dibromoethane	0.15	U	1	0.15	1.00	ug/L	12/01/25 15:35	VN120125
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/01/25 15:35	VN120125
108-90-7	Chlorobenzene	0.12	U	1	0.12	1.00	ug/L	12/01/25 15:35	VN120125
100-41-4	Ethyl Benzene	4.00		1	0.13	1.00	ug/L	12/01/25 15:35	VN120125
179601-23-1	m/p-Xylenes	5.60		1	0.24	2.00	ug/L	12/01/25 15:35	VN120125
95-47-6	o-Xylene	1.70		1	0.12	1.00	ug/L	12/01/25 15:35	VN120125
100-42-5	Styrene	0.15	U	1	0.15	1.00	ug/L	12/01/25 15:35	VN120125

Report of Analysis

Client: G Environmental
Project: ANN
Client Sample ID: MW5
Lab Sample ID: Q3738-02
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/26/25
Date Received: 11/26/25
SDG No.: Q3738
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
75-25-2	Bromoform	0.19	U	1	0.19	1.00	ug/L	12/01/25 15:35	VN120125
98-82-8	Isopropylbenzene	28.4		1	0.12	1.00	ug/L	12/01/25 15:35	VN120125
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	1	0.26	1.00	ug/L	12/01/25 15:35	VN120125
541-73-1	1,3-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	12/01/25 15:35	VN120125
106-46-7	1,4-Dichlorobenzene	0.19	U	1	0.19	1.00	ug/L	12/01/25 15:35	VN120125
95-50-1	1,2-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	12/01/25 15:35	VN120125
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	1	0.53	1.00	ug/L	12/01/25 15:35	VN120125
120-82-1	1,2,4-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	12/01/25 15:35	VN120125
87-61-6	1,2,3-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	12/01/25 15:35	VN120125

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	58.9			70 (74) - 130 (125)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6			70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	51.3			70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.6			70 (77) - 130 (121)	113%	SPK: 50

INTERNAL STANDARDS**Area Count**

363-72-4	Pentafluorobenzene	218000
540-36-3	1,4-Difluorobenzene	497000
3114-55-4	Chlorobenzene-d5	489000
3855-82-1	1,4-Dichlorobenzene-d4	247000

TENTATIVE IDENTIFIED COMPOUNDS

000107-83-5	Pentane, 2-methyl-	46.8	J			5.34	ug/L
000096-14-0	Pentane, 3-methyl-	26.5	J			5.81	ug/L
000096-37-7	Cyclopentane, methyl-	60.7	J			7.31	ug/L
103-65-1	n-propylbenzene	55.7	J			13.0	ug/L
98-06-6	tert-Butylbenzene	1.10	J			13.4	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.60	J			13.5	ug/L
135-98-8	sec-Butylbenzene	7.10	J			13.6	ug/L
99-87-6	p-Isopropyltoluene	0.77	J			13.7	ug/L
000105-05-5	Benzene, 1,4-diethyl-	27.9	J			13.9	ug/L
104-51-8	n-Butylbenzene	8.40	J			14.0	ug/L
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	80.3	J			14.3	ug/L
076089-59-3	1,3-Cyclopentadiene, 1,2,3,4-tetra	57.3	J			14.6	ug/L
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	46.1	J			14.9	ug/L
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	140	J			15.0	ug/L
053172-84-2	Benzene, (1-methyl-1-butenyl)-	41.1	J			15.3	ug/L
097664-18-1	Benzene, 1-methyl-4-(1-methyl-2-propenyl)-	37.2	J			15.4	ug/L
002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-	25.2	J			16.5	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

Report of Analysis

Client: G Environmental
Project: ANN
Client Sample ID: Field
Lab Sample ID: Q3738-03
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/26/25
Date Received: 11/26/25
SDG No.: Q3738
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 15:15	VN120125
74-87-3	Chloromethane	0.32	U	1	0.32	1.00	ug/L	12/01/25 15:15	VN120125
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/01/25 15:15	VN120125
74-83-9	Bromomethane	1.40	U	1	1.40	5.00	ug/L	12/01/25 15:15	VN120125
75-00-3	Chloroethane	0.47	U	1	0.47	1.00	ug/L	12/01/25 15:15	VN120125
75-69-4	Trichlorofluoromethane	0.33	U	1	0.33	1.00	ug/L	12/01/25 15:15	VN120125
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	1	0.25	1.00	ug/L	12/01/25 15:15	VN120125
75-65-0	Tert butyl alcohol	5.50	U	1	5.50	25.0	ug/L	12/01/25 15:15	VN120125
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/01/25 15:15	VN120125
67-64-1	Acetone	1.50	U	1	1.50	5.00	ug/L	12/01/25 15:15	VN120125
75-15-0	Carbon Disulfide	0.21	U	1	0.21	1.00	ug/L	12/01/25 15:15	VN120125
1634-04-4	Methyl tert-butyl Ether	0.16	U	1	0.16	1.00	ug/L	12/01/25 15:15	VN120125
79-20-9	Methyl Acetate	0.27	U	1	0.27	1.00	ug/L	12/01/25 15:15	VN120125
75-09-2	Methylene Chloride	0.28	U	1	0.28	1.00	ug/L	12/01/25 15:15	VN120125
156-60-5	trans-1,2-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/01/25 15:15	VN120125
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/01/25 15:15	VN120125
110-82-7	Cyclohexane	1.50	U	1	1.50	5.00	ug/L	12/01/25 15:15	VN120125
78-93-3	2-Butanone	0.98	U	1	0.98	5.00	ug/L	12/01/25 15:15	VN120125
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	1.00	ug/L	12/01/25 15:15	VN120125
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/01/25 15:15	VN120125
74-97-5	Bromochloromethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 15:15	VN120125
67-66-3	Chloroform	0.25	U	1	0.25	1.00	ug/L	12/01/25 15:15	VN120125
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/01/25 15:15	VN120125
108-87-2	Methylcyclohexane	0.16	U	1	0.16	1.00	ug/L	12/01/25 15:15	VN120125
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/01/25 15:15	VN120125
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 15:15	VN120125
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/01/25 15:15	VN120125
78-87-5	1,2-Dichloropropane	0.20	U	1	0.20	1.00	ug/L	12/01/25 15:15	VN120125
75-27-4	Bromodichloromethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 15:15	VN120125
108-10-1	4-Methyl-2-Pentanone	0.68	U	1	0.68	5.00	ug/L	12/01/25 15:15	VN120125
108-88-3	Toluene	0.14	U	1	0.14	1.00	ug/L	12/01/25 15:15	VN120125
10061-02-6	t-1,3-Dichloropropene	0.17	U	1	0.17	1.00	ug/L	12/01/25 15:15	VN120125
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1	0.16	1.00	ug/L	12/01/25 15:15	VN120125
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/01/25 15:15	VN120125
591-78-6	2-Hexanone	0.89	U	1	0.89	5.00	ug/L	12/01/25 15:15	VN120125
124-48-1	Dibromochloromethane	0.18	U	1	0.18	1.00	ug/L	12/01/25 15:15	VN120125
106-93-4	1,2-Dibromoethane	0.15	U	1	0.15	1.00	ug/L	12/01/25 15:15	VN120125
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/01/25 15:15	VN120125
108-90-7	Chlorobenzene	0.12	U	1	0.12	1.00	ug/L	12/01/25 15:15	VN120125
100-41-4	Ethyl Benzene	0.13	U	1	0.13	1.00	ug/L	12/01/25 15:15	VN120125
179601-23-1	m/p-Xylenes	0.24	U	1	0.24	2.00	ug/L	12/01/25 15:15	VN120125
95-47-6	o-Xylene	0.12	U	1	0.12	1.00	ug/L	12/01/25 15:15	VN120125
100-42-5	Styrene	0.15	U	1	0.15	1.00	ug/L	12/01/25 15:15	VN120125

Report of Analysis

Client: G Environmental
 Project: ANN
 Client Sample ID: Field
 Lab Sample ID: Q3738-03
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/26/25
 Date Received: 11/26/25
 SDG No.: Q3738
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
75-25-2	Bromoform	0.19	U	1	0.19	1.00	ug/L	12/01/25 15:15	VN120125
98-82-8	Isopropylbenzene	0.12	U	1	0.12	1.00	ug/L	12/01/25 15:15	VN120125
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	1	0.26	1.00	ug/L	12/01/25 15:15	VN120125
541-73-1	1,3-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	12/01/25 15:15	VN120125
106-46-7	1,4-Dichlorobenzene	0.19	U	1	0.19	1.00	ug/L	12/01/25 15:15	VN120125
95-50-1	1,2-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	12/01/25 15:15	VN120125
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	1	0.53	1.00	ug/L	12/01/25 15:15	VN120125
120-82-1	1,2,4-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	12/01/25 15:15	VN120125
87-61-6	1,2,3-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	12/01/25 15:15	VN120125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	57.8			70 (74) - 130 (125)	116%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.3			70 (75) - 130 (124)	105%	SPK: 50		
2037-26-5	Toluene-d8	50.3			70 (86) - 130 (113)	101%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.7			70 (77) - 130 (121)	103%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	181000							
540-36-3	1,4-Difluorobenzene	412000							
3114-55-4	Chlorobenzene-d5	400000							
3855-82-1	1,4-Dichlorobenzene-d4	186000							

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



QC SUMMARY

Surrogate Summary

SDG No.: **Q3738**

Client: **G Environmental**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3738-01	MW4	1,2-Dichloroethane-d4	50	56.4	113		70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102		70 (75)	130 (124)
		Toluene-d8	50	50.6	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.3	107		70 (77)	130 (121)
Q3738-02	MW5	1,2-Dichloroethane-d4	50	58.9	118		70 (74)	130 (125)
		Dibromofluoromethane	50	51.6	103		70 (75)	130 (124)
		Toluene-d8	50	51.3	103		70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.6	113		70 (77)	130 (121)
Q3738-03	Field	1,2-Dichloroethane-d4	50	57.8	116		70 (74)	130 (125)
		Dibromofluoromethane	50	52.3	105		70 (75)	130 (124)
		Toluene-d8	50	50.3	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.7	103		70 (77)	130 (121)
VN1201WBL01	VN1201WBL01	1,2-Dichloroethane-d4	50	57.8	116		70 (74)	130 (125)
		Dibromofluoromethane	50	52.2	104		70 (75)	130 (124)
		Toluene-d8	50	50.0	100		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.4	105		70 (77)	130 (121)
VN1201WBS01	VN1201WBS01	1,2-Dichloroethane-d4	50	56.0	112		70 (74)	130 (125)
		Dibromofluoromethane	50	55.1	110		70 (75)	130 (124)
		Toluene-d8	50	54.9	110		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.3	107		70 (77)	130 (121)
VN1201WBSD0	VN1201WBSD01	1,2-Dichloroethane-d4	50	52.2	104		70 (74)	130 (125)
		Dibromofluoromethane	50	52.3	105		70 (75)	130 (124)
		Toluene-d8	50	53.2	106		70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.1	102		70 (77)	130 (121)
VN1202WBL01	VN1202WBL01	1,2-Dichloroethane-d4	50	61.1	122		70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105		70 (75)	130 (124)
		Toluene-d8	50	50.1	100		70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.8	104		70 (77)	130 (121)
VN1202WBS02	VN1202WBS02	1,2-Dichloroethane-d4	50	52.1	104		70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104		70 (75)	130 (124)
		Toluene-d8	50	50.5	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.3	99		70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3738</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN088373.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1201WBS01	Dichlorodifluoromethane	20	18.2	ug/L	91			40 (69)	160 (116)	
	Chloromethane	20	19.4	ug/L	97			40 (65)	160 (116)	
	Vinyl chloride	20	18.9	ug/L	95			70 (65)	130 (117)	
	Bromomethane	20	19.7	ug/L	99			40 (58)	160 (125)	
	Chloroethane	20	19.5	ug/L	98			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.6	ug/L	93			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	18.6	ug/L	93			70 (80)	130 (112)	
	Tert butyl alcohol	100	87.5	ug/L	88			70 (48)	130 (142)	
	1,1-Dichloroethene	20	19.0	ug/L	95			70 (74)	130 (110)	
	Acetone	100	87.9	ug/L	88			40 (60)	160 (125)	
	Carbon disulfide	20	19.4	ug/L	97			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.9	ug/L	100			70 (78)	130 (114)	
	Methyl Acetate	20	19.1	ug/L	96			70 (57)	130 (150)	
	Methylene Chloride	20	20.0	ug/L	100			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.6	ug/L	98			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.8	ug/L	99			70 (78)	130 (112)	
	Cyclohexane	20	17.9	ug/L	90			70 (75)	130 (110)	
	2-Butanone	100	96.0	ug/L	96			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.3	ug/L	92			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	20.1	ug/L	101			70 (77)	130 (110)	
	Bromochloromethane	20	19.3	ug/L	97			70 (70)	130 (124)	
	Chloroform	20	20.3	ug/L	102			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	18.8	ug/L	94			70 (80)	130 (108)	
	Methylcyclohexane	20	17.1	ug/L	86			70 (72)	130 (115)	
	Benzene	20	19.4	ug/L	97			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.6	ug/L	98			70 (80)	130 (115)	
	Trichloroethene	20	18.8	ug/L	94			70 (77)	130 (113)	
	1,2-Dichloropropane	20	19.8	ug/L	99			70 (83)	130 (111)	
	Bromodichloromethane	20	19.5	ug/L	98			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	98.3	ug/L	98			40 (74)	160 (118)	
	Toluene	20	19.5	ug/L	98			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	19.9	ug/L	100			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.1	ug/L	101			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.2	ug/L	101			70 (83)	130 (112)	
	2-Hexanone	100	93.5	ug/L	94			40 (73)	160 (117)	
	Dibromochloromethane	20	20.1	ug/L	101			70 (82)	130 (110)	
	1,2-Dibromoethane	20	20.6	ug/L	103			70 (81)	130 (110)	
	Tetrachloroethene	20	17.9	ug/L	90			70 (67)	130 (123)	
	Chlorobenzene	20	19.5	ug/L	98			70 (82)	130 (109)	
	Ethyl Benzene	20	18.6	ug/L	93			70 (83)	130 (109)	
	m/p-Xylenes	40	37.0	ug/L	93			70 (82)	130 (110)	
	o-Xylene	20	18.3	ug/L	92			70 (83)	130 (109)	
	Styrene	20	19.6	ug/L	98			70 (80)	130 (111)	
	Bromoform	20	20.0	ug/L	100			70 (79)	130 (109)	
	Isopropylbenzene	20	18.6	ug/L	93			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/L	101			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.0	ug/L	95			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.5	ug/L	93			70 (82)	130 (107)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3738 Analytical Method: SW8260-Low
Client: G Environmental Datafile : VN088373.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1201WBS01	1,2-Dichlorobenzene	20	19.4	ug/L	97			70 (82)	130 (109)	
	1,2-Dibromo-3-Chloropropane	20	18.2	ug/L	91			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	18.5	ug/L	93			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	18.3	ug/L	92			70 (76)	130 (114)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3738	Analytical Method:	SW8260-Low
Client:	G Environmental	Datafile :	VN088374.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1201WBSD01	Dichlorodifluoromethane	20	18.9	ug/L	95	4		40 (69)	160 (116)	20 (19)
	Chloromethane	20	19.4	ug/L	97	0		40 (65)	160 (116)	20 (21)
	Vinyl chloride	20	18.7	ug/L	94	1		70 (65)	130 (117)	20 (19)
	Bromomethane	20	20.2	ug/L	101	2		40 (58)	160 (125)	20 (30)
	Chloroethane	20	19.3	ug/L	97	1		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	18.7	ug/L	94	1		40 (73)	160 (115)	20 (16)
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93	0		70 (80)	130 (112)	20 (20)
	Tert butyl alcohol	100	88.0	ug/L	88	0		70 (48)	130 (142)	20 (30)
	1,1-Dichloroethene	20	18.8	ug/L	94	1		70 (74)	130 (110)	20 (20)
	Acetone	100	87.0	ug/L	87	1		40 (60)	160 (125)	20 (27)
	Carbon disulfide	20	18.8	ug/L	94	3		40 (64)	160 (112)	20 (17)
	Methyl tert-butyl Ether	20	19.4	ug/L	97	3		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	19.0	ug/L	95	1		70 (57)	130 (150)	20 (20)
	Methylene Chloride	20	20.2	ug/L	101	1		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.6	ug/L	98	0		70 (75)	130 (108)	20 (16)
	1,1-Dichloroethane	20	19.1	ug/L	96	3		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.5	ug/L	93	3		70 (75)	130 (110)	20 (20)
	2-Butanone	100	96.2	ug/L	96	0		40 (65)	160 (122)	20 (26)
	Carbon Tetrachloride	20	18.8	ug/L	94	2		70 (77)	130 (113)	20 (15)
	cis-1,2-Dichloroethene	20	19.4	ug/L	97	4		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	18.5	ug/L	93	4		70 (70)	130 (124)	20 (20)
	Chloroform	20	19.6	ug/L	98	4		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.0	ug/L	95	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	18.5	ug/L	93	8		70 (72)	130 (115)	20 (20)
	Benzene	20	19.1	ug/L	96	1		70 (82)	130 (109)	20 (15)
	1,2-Dichloroethane	20	19.4	ug/L	97	1		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.1	ug/L	96	2		70 (77)	130 (113)	20 (15)
	1,2-Dichloropropane	20	19.2	ug/L	96	3		70 (83)	130 (111)	20 (21)
	Bromodichloromethane	20	19.3	ug/L	97	1		70 (83)	130 (110)	20 (21)
	4-Methyl-2-Pentanone	100	98.5	ug/L	99	1		40 (74)	160 (118)	20 (25)
	Toluene	20	19.8	ug/L	99	1		70 (82)	130 (110)	20 (16)
	t-1,3-Dichloropropene	20	19.1	ug/L	96	4		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	19.5	ug/L	98	3		70 (82)	130 (110)	20 (16)
	1,1,2-Trichloroethane	20	20.0	ug/L	100	1		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	94.4	ug/L	94	0		40 (73)	160 (117)	20 (25)
	Dibromochloromethane	20	20.3	ug/L	102	1		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	19.9	ug/L	100	3		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.0	ug/L	95	5		70 (67)	130 (123)	20 (15)
	Chlorobenzene	20	19.8	ug/L	99	1		70 (82)	130 (109)	20 (15)
	Ethyl Benzene	20	18.9	ug/L	95	2		70 (83)	130 (109)	20 (16)
	m/p-Xylenes	40	37.8	ug/L	95	2		70 (82)	130 (110)	20 (20)
	o-Xylene	20	19.2	ug/L	96	4		70 (83)	130 (109)	20 (20)
	Styrene	20	19.4	ug/L	97	1		70 (80)	130 (111)	20 (17)
	Bromoform	20	20.1	ug/L	101	1		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	19.3	ug/L	97	4		70 (83)	130 (112)	20 (22)
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98	3		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	19.5	ug/L	98	3		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	19.0	ug/L	95	2		70 (82)	130 (107)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3738</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN088374.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1201WBSD01	1,2-Dichlorobenzene	20	19.0	ug/L	95	2		70 (82)	130 (109)	20 (20)
	1,2-Dibromo-3-Chloropropane	20	18.5	ug/L	93	2		40 (68)	160 (112)	20 (26)
	1,2,4-Trichlorobenzene	20	18.0	ug/L	90	3		70 (75)	130 (113)	20 (21)
	1,2,3-Trichlorobenzene	20	19.1	ug/L	96	4		70 (76)	130 (114)	20 (22)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3738</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN088400.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1202WBS02	Dichlorodifluoromethane	20	19.1	ug/L	96			40 (69)	160 (116)	
	Chloromethane	20	18.7	ug/L	94			40 (65)	160 (116)	
	Vinyl chloride	20	18.2	ug/L	91			70 (65)	130 (117)	
	Bromomethane	20	19.5	ug/L	98			40 (58)	160 (125)	
	Chloroethane	20	18.7	ug/L	94			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.8	ug/L	94			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	18.8	ug/L	94			70 (80)	130 (112)	
	Tert butyl alcohol	100	78.6	ug/L	79			70 (48)	130 (142)	
	1,1-Dichloroethene	20	18.5	ug/L	93			70 (74)	130 (110)	
	Acetone	100	87.8	ug/L	88			40 (60)	160 (125)	
	Carbon disulfide	20	18.6	ug/L	93			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.6	ug/L	98			70 (78)	130 (114)	
	Methyl Acetate	20	19.7	ug/L	99			70 (57)	130 (150)	
	Methylene Chloride	20	19.1	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.6	ug/L	93			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.2	ug/L	96			70 (78)	130 (112)	
	Cyclohexane	20	18.9	ug/L	95			70 (75)	130 (110)	
	2-Butanone	100	93.7	ug/L	94			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.1	ug/L	96			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.6	ug/L	93			70 (77)	130 (110)	
	Bromochloromethane	20	20.9	ug/L	104			70 (70)	130 (124)	
	Chloroform	20	19.7	ug/L	99			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	18.8	ug/L	94			70 (80)	130 (108)	
	Methylcyclohexane	20	17.9	ug/L	90			70 (72)	130 (115)	
	Benzene	20	18.7	ug/L	94			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.3	ug/L	102			70 (80)	130 (115)	
	Trichloroethene	20	17.9	ug/L	90			70 (77)	130 (113)	
	1,2-Dichloropropane	20	19.1	ug/L	96			70 (83)	130 (111)	
	Bromodichloromethane	20	19.8	ug/L	99			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	99.6	ug/L	100			40 (74)	160 (118)	
	Toluene	20	19.5	ug/L	98			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	18.7	ug/L	94			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	19.0	ug/L	95			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.1	ug/L	101			70 (83)	130 (112)	
	2-Hexanone	100	93.9	ug/L	94			40 (73)	160 (117)	
	Dibromochloromethane	20	19.3	ug/L	97			70 (82)	130 (110)	
	1,2-Dibromoethane	20	19.5	ug/L	98			70 (81)	130 (110)	
	Tetrachloroethene	20	16.6	ug/L	83			70 (67)	130 (123)	
	Chlorobenzene	20	18.8	ug/L	94			70 (82)	130 (109)	
	Ethyl Benzene	20	18.5	ug/L	93			70 (83)	130 (109)	
	m/p-Xylenes	40	37.6	ug/L	94			70 (82)	130 (110)	
	o-Xylene	20	18.1	ug/L	91			70 (83)	130 (109)	
	Styrene	20	19.3	ug/L	97			70 (80)	130 (111)	
	Bromoform	20	19.9	ug/L	100			70 (79)	130 (109)	
	Isopropylbenzene	20	18.6	ug/L	93			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	19.8	ug/L	99			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	18.8	ug/L	94			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.7	ug/L	94			70 (82)	130 (107)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3738 Analytical Method: SW8260-Low
Client: G Environmental Datafile : VN088400.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1202WBS02	1,2-Dichlorobenzene	20	18.8	ug/L	94			70 (82)	130 (109)	
	1,2-Dibromo-3-Chloropropane	20	18.8	ug/L	94			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	18.2	ug/L	91			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	18.5	ug/L	93			70 (76)	130 (114)	

() = LABORATORY INHOUSE LIMIT

VOLATILE METHOD BLANK SUMMARY

Client ID

VN1201WBL01

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3738

Lab File ID: VN088372.D

Lab Sample ID: VN1201WBL01

Date Analyzed: 12/01/2025

Time Analyzed: 10:53

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
VN1201WBS01	VN1201WBS01	VN088373.D	12/01/2025
VN1201WBSD01	VN1201WBSD01	VN088374.D	12/01/2025
Field	Q3738-03	VN088383.D	12/01/2025
MW5	Q3738-02	VN088384.D	12/01/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VN1202WBL01

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3738

Lab File ID: VN088397.D

Lab Sample ID: VN1202WBL01

Date Analyzed: 12/02/2025

Time Analyzed: 10:20

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
VN1202WBS02	VN1202WBS02	VN088400.D	12/02/2025
MW4	Q3738-01	VN088403.D	12/02/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VN088343.D
Instrument ID: MSVOA_N
GC Column: RXI-624 ID: 0.25 (mm)

Contract: GENV01
SDG NO.: Q3738
BFB Injection Date: 11/24/2025
BFB Injection Time: 08:17
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	56.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	70.8
175	5.0 - 9.0% of mass 174	6 (8.4) 1
176	95.0 - 101.0% of mass 174	68.3 (96.4) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN088344.D	11/24/2025	12:38
VSTDIC005	VSTDIC005	VN088345.D	11/24/2025	13:11
VSTDIC020	VSTDIC020	VN088346.D	11/24/2025	13:32
VSTDIC050	VSTDIC050	VN088347.D	11/24/2025	13:53
VSTDIC100	VSTDIC100	VN088348.D	11/24/2025	14:14
VSTDIC150	VSTDIC150	VN088349.D	11/24/2025	14:35

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3738

Lab File ID: VN088369.D

BFB Injection Date: 12/01/2025

Instrument ID: MSVOA_N

BFB Injection Time: 08:49

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	22.9
75	30.0 - 60.0% of mass 95	59.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	71
175	5.0 - 9.0% of mass 174	5.7 (8) 1
176	95.0 - 101.0% of mass 174	68.9 (97.1) 1
177	5.0 - 9.0% of mass 176	5.2 (7.5) 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	VN088370.D	12/01/2025	09:58
VN1201WBL01	VN1201WBL01	VN088372.D	12/01/2025	10:53
VN1201WBS01	VN1201WBS01	VN088373.D	12/01/2025	11:27
VN1201WBSD01	VN1201WBSD01	VN088374.D	12/01/2025	12:10
Field	Q3738-03	VN088383.D	12/01/2025	15:15
MW5	Q3738-02	VN088384.D	12/01/2025	15:35

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VN088395.D
Instrument ID: MSVOA_N
GC Column: RXI-624 ID: 0.25 (mm)

Contract: GENV01
SDG NO.: Q3738
BFB Injection Date: 12/02/2025
BFB Injection Time: 08:19
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	58.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	1.3 (1.8) 1
174	50.0 - 100.0% of mass 95	71.5
175	5.0 - 9.0% of mass 174	5.2 (7.3) 1
176	95.0 - 101.0% of mass 174	68.1 (95.3) 1
177	5.0 - 9.0% of mass 176	4.4 (6.5) 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	VN088396.D	12/02/2025	10:00
VN1202WBL01	VN1202WBL01	VN088397.D	12/02/2025	10:20
VN1202WBS02	VN1202WBS02	VN088400.D	12/02/2025	11:34
MW4	Q3738-01	VN088403.D	12/02/2025	12:35

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
Lab Code: ACE SDG NO.: Q3738
Lab File ID: VN088370.D Date Analyzed: 12/01/2025
Instrument ID: MSVOA_N Time Analyzed: 09:58
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	262500	8.20	457607	9.08	408098	11.84
UPPER LIMIT	525000	8.7	915214	9.582	816196	12.341
LOWER LIMIT	131250	7.7	228804	8.582	204049	11.341
EPA SAMPLE NO.						
MW5	217967	8.21	497394	9.08	489259	11.84
Field	180723	8.21	412398	9.08	400480	11.84
VN1201WBL01	188076	8.20	435319	9.08	418422	11.84
VN1201WBS01	256678	8.21	487472	9.08	435019	11.84
VN1201WBSD01	257123	8.21	472668	9.08	413438	11.84

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.: Q3738
 Lab File ID: VN088370.D Date Analyzed: 12/01/2025
 Instrument ID: MSVOA_N Time Analyzed: 09:58
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	197460	13.765				
UPPER LIMIT	394920	14.265				
LOWER LIMIT	98730	13.265				
EPA SAMPLE NO.						
MW5	246573	13.77				
Field	185899	13.77				
VN1201WBL01	198799	13.77				
VN1201WBS01	207303	13.77				
VN1201WBSD01	196888	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
Lab Code: ACE SDG NO.: Q3738
Lab File ID: VN088396.D Date Analyzed: 12/02/2025
Instrument ID: MSVOA_N Time Analyzed: 10:00
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	256486	8.20	469714	9.08	423596	11.84
UPPER LIMIT	512972	8.7	939428	9.582	847192	12.341
LOWER LIMIT	128243	7.7	234857	8.582	211798	11.341
EPA SAMPLE NO.						
MW4	183621	8.21	418628	9.08	407692	11.84
VN1202WBL01	181798	8.21	415636	9.08	401801	11.84
VN1202WBS02	245156	8.21	446464	9.08	396309	11.84

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.: Q3738
 Lab File ID: VN088396.D Date Analyzed: 12/02/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:00
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	206439	13.764				
UPPER LIMIT	412878	14.264				
LOWER LIMIT	103220	13.264				
EPA SAMPLE NO.						
MW4	190700	13.77				
VN1202WBL01	185686	13.77				
VN1202WBS02	188408	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.



QC SAMPLE DATA

Report of Analysis

Client: G Environmental
Project: ANN
Client Sample ID: VN1201WBL01
Lab Sample ID: VN1201WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3738
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 10:53	VN120125
74-87-3	Chloromethane	0.32	U	1	0.32	1.00	ug/L	12/01/25 10:53	VN120125
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/01/25 10:53	VN120125
74-83-9	Bromomethane	1.40	U	1	1.40	5.00	ug/L	12/01/25 10:53	VN120125
75-00-3	Chloroethane	0.47	U	1	0.47	1.00	ug/L	12/01/25 10:53	VN120125
75-69-4	Trichlorofluoromethane	0.33	U	1	0.33	1.00	ug/L	12/01/25 10:53	VN120125
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	1	0.25	1.00	ug/L	12/01/25 10:53	VN120125
75-65-0	Tert butyl alcohol	5.50	U	1	5.50	25.0	ug/L	12/01/25 10:53	VN120125
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/01/25 10:53	VN120125
67-64-1	Acetone	1.50	U	1	1.50	5.00	ug/L	12/01/25 10:53	VN120125
75-15-0	Carbon Disulfide	0.21	U	1	0.21	1.00	ug/L	12/01/25 10:53	VN120125
1634-04-4	Methyl tert-butyl Ether	0.16	U	1	0.16	1.00	ug/L	12/01/25 10:53	VN120125
79-20-9	Methyl Acetate	0.27	U	1	0.27	1.00	ug/L	12/01/25 10:53	VN120125
75-09-2	Methylene Chloride	0.28	U	1	0.28	1.00	ug/L	12/01/25 10:53	VN120125
156-60-5	trans-1,2-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/01/25 10:53	VN120125
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/01/25 10:53	VN120125
110-82-7	Cyclohexane	1.50	U	1	1.50	5.00	ug/L	12/01/25 10:53	VN120125
78-93-3	2-Butanone	0.98	U	1	0.98	5.00	ug/L	12/01/25 10:53	VN120125
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	1.00	ug/L	12/01/25 10:53	VN120125
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/01/25 10:53	VN120125
74-97-5	Bromochloromethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 10:53	VN120125
67-66-3	Chloroform	0.25	U	1	0.25	1.00	ug/L	12/01/25 10:53	VN120125
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/01/25 10:53	VN120125
108-87-2	Methylcyclohexane	0.16	U	1	0.16	1.00	ug/L	12/01/25 10:53	VN120125
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/01/25 10:53	VN120125
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 10:53	VN120125
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/01/25 10:53	VN120125
78-87-5	1,2-Dichloropropane	0.20	U	1	0.20	1.00	ug/L	12/01/25 10:53	VN120125
75-27-4	Bromodichloromethane	0.22	U	1	0.22	1.00	ug/L	12/01/25 10:53	VN120125
108-10-1	4-Methyl-2-Pentanone	0.68	U	1	0.68	5.00	ug/L	12/01/25 10:53	VN120125
108-88-3	Toluene	0.14	U	1	0.14	1.00	ug/L	12/01/25 10:53	VN120125
10061-02-6	t-1,3-Dichloropropene	0.17	U	1	0.17	1.00	ug/L	12/01/25 10:53	VN120125
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1	0.16	1.00	ug/L	12/01/25 10:53	VN120125
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/01/25 10:53	VN120125
591-78-6	2-Hexanone	0.89	U	1	0.89	5.00	ug/L	12/01/25 10:53	VN120125
124-48-1	Dibromochloromethane	0.18	U	1	0.18	1.00	ug/L	12/01/25 10:53	VN120125
106-93-4	1,2-Dibromoethane	0.15	U	1	0.15	1.00	ug/L	12/01/25 10:53	VN120125
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/01/25 10:53	VN120125
108-90-7	Chlorobenzene	0.12	U	1	0.12	1.00	ug/L	12/01/25 10:53	VN120125
100-41-4	Ethyl Benzene	0.13	U	1	0.13	1.00	ug/L	12/01/25 10:53	VN120125
179601-23-1	m/p-Xylenes	0.24	U	1	0.24	2.00	ug/L	12/01/25 10:53	VN120125
95-47-6	o-Xylene	0.12	U	1	0.12	1.00	ug/L	12/01/25 10:53	VN120125
100-42-5	Styrene	0.15	U	1	0.15	1.00	ug/L	12/01/25 10:53	VN120125

Report of Analysis

Client: G Environmental
 Project: ANN
 Client Sample ID: VN1201WBL01
 Lab Sample ID: VN1201WBL01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3738
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
75-25-2	Bromoform	0.19	U	1	0.19	1.00	ug/L	12/01/25 10:53	VN120125
98-82-8	Isopropylbenzene	0.12	U	1	0.12	1.00	ug/L	12/01/25 10:53	VN120125
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	1	0.26	1.00	ug/L	12/01/25 10:53	VN120125
541-73-1	1,3-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	12/01/25 10:53	VN120125
106-46-7	1,4-Dichlorobenzene	0.19	U	1	0.19	1.00	ug/L	12/01/25 10:53	VN120125
95-50-1	1,2-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	12/01/25 10:53	VN120125
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	1	0.53	1.00	ug/L	12/01/25 10:53	VN120125
120-82-1	1,2,4-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	12/01/25 10:53	VN120125
87-61-6	1,2,3-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	12/01/25 10:53	VN120125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	57.8			70 (74) - 130 (125)	116%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.2			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	50.0			70 (86) - 130 (113)	100%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.4			70 (77) - 130 (121)	105%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	188000							
540-36-3	1,4-Difluorobenzene	435000							
3114-55-4	Chlorobenzene-d5	418000							
3855-82-1	1,4-Dichlorobenzene-d4	199000							

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

Report of Analysis

Client: G Environmental
Project: ANN
Client Sample ID: VN1202WBL01
Lab Sample ID: VN1202WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3738
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.22	U	1	0.22	1.00	ug/L	12/02/25 10:20	VN120225
74-87-3	Chloromethane	0.32	U	1	0.32	1.00	ug/L	12/02/25 10:20	VN120225
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/02/25 10:20	VN120225
74-83-9	Bromomethane	1.40	U	1	1.40	5.00	ug/L	12/02/25 10:20	VN120225
75-00-3	Chloroethane	0.47	U	1	0.47	1.00	ug/L	12/02/25 10:20	VN120225
75-69-4	Trichlorofluoromethane	0.33	U	1	0.33	1.00	ug/L	12/02/25 10:20	VN120225
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	1	0.25	1.00	ug/L	12/02/25 10:20	VN120225
75-65-0	Tert butyl alcohol	5.50	U	1	5.50	25.0	ug/L	12/02/25 10:20	VN120225
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/02/25 10:20	VN120225
67-64-1	Acetone	1.50	U	1	1.50	5.00	ug/L	12/02/25 10:20	VN120225
75-15-0	Carbon Disulfide	0.21	U	1	0.21	1.00	ug/L	12/02/25 10:20	VN120225
1634-04-4	Methyl tert-butyl Ether	0.16	U	1	0.16	1.00	ug/L	12/02/25 10:20	VN120225
79-20-9	Methyl Acetate	0.27	U	1	0.27	1.00	ug/L	12/02/25 10:20	VN120225
75-09-2	Methylene Chloride	0.28	U	1	0.28	1.00	ug/L	12/02/25 10:20	VN120225
156-60-5	trans-1,2-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/02/25 10:20	VN120225
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/02/25 10:20	VN120225
110-82-7	Cyclohexane	1.50	U	1	1.50	5.00	ug/L	12/02/25 10:20	VN120225
78-93-3	2-Butanone	0.98	U	1	0.98	5.00	ug/L	12/02/25 10:20	VN120225
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	1.00	ug/L	12/02/25 10:20	VN120225
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/02/25 10:20	VN120225
74-97-5	Bromochloromethane	0.22	U	1	0.22	1.00	ug/L	12/02/25 10:20	VN120225
67-66-3	Chloroform	0.25	U	1	0.25	1.00	ug/L	12/02/25 10:20	VN120225
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/02/25 10:20	VN120225
108-87-2	Methylcyclohexane	0.16	U	1	0.16	1.00	ug/L	12/02/25 10:20	VN120225
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/02/25 10:20	VN120225
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/02/25 10:20	VN120225
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/02/25 10:20	VN120225
78-87-5	1,2-Dichloropropane	0.20	U	1	0.20	1.00	ug/L	12/02/25 10:20	VN120225
75-27-4	Bromodichloromethane	0.22	U	1	0.22	1.00	ug/L	12/02/25 10:20	VN120225
108-10-1	4-Methyl-2-Pentanone	0.68	U	1	0.68	5.00	ug/L	12/02/25 10:20	VN120225
108-88-3	Toluene	0.14	U	1	0.14	1.00	ug/L	12/02/25 10:20	VN120225
10061-02-6	t-1,3-Dichloropropene	0.17	U	1	0.17	1.00	ug/L	12/02/25 10:20	VN120225
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1	0.16	1.00	ug/L	12/02/25 10:20	VN120225
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/02/25 10:20	VN120225
591-78-6	2-Hexanone	0.89	U	1	0.89	5.00	ug/L	12/02/25 10:20	VN120225
124-48-1	Dibromochloromethane	0.18	U	1	0.18	1.00	ug/L	12/02/25 10:20	VN120225
106-93-4	1,2-Dibromoethane	0.15	U	1	0.15	1.00	ug/L	12/02/25 10:20	VN120225
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/02/25 10:20	VN120225
108-90-7	Chlorobenzene	0.12	U	1	0.12	1.00	ug/L	12/02/25 10:20	VN120225
100-41-4	Ethyl Benzene	0.13	U	1	0.13	1.00	ug/L	12/02/25 10:20	VN120225
179601-23-1	m/p-Xylenes	0.24	U	1	0.24	2.00	ug/L	12/02/25 10:20	VN120225
95-47-6	o-Xylene	0.12	U	1	0.12	1.00	ug/L	12/02/25 10:20	VN120225
100-42-5	Styrene	0.15	U	1	0.15	1.00	ug/L	12/02/25 10:20	VN120225

Report of Analysis

Client: G Environmental
Project: ANN
Client Sample ID: VN1202WBL01
Lab Sample ID: VN1202WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3738
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
75-25-2	Bromoform	0.19	U	1	0.19	1.00	ug/L	12/02/25 10:20	VN120225
98-82-8	Isopropylbenzene	0.12	U	1	0.12	1.00	ug/L	12/02/25 10:20	VN120225
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	1	0.26	1.00	ug/L	12/02/25 10:20	VN120225
541-73-1	1,3-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	12/02/25 10:20	VN120225
106-46-7	1,4-Dichlorobenzene	0.19	U	1	0.19	1.00	ug/L	12/02/25 10:20	VN120225
95-50-1	1,2-Dichlorobenzene	0.16	U	1	0.16	1.00	ug/L	12/02/25 10:20	VN120225
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	1	0.53	1.00	ug/L	12/02/25 10:20	VN120225
120-82-1	1,2,4-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	12/02/25 10:20	VN120225
87-61-6	1,2,3-Trichlorobenzene	0.20	U	1	0.20	1.00	ug/L	12/02/25 10:20	VN120225
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	61.1			70 (74) - 130 (125)	122%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.4			70 (75) - 130 (124)	105%	SPK: 50		
2037-26-5	Toluene-d8	50.1			70 (86) - 130 (113)	100%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.8			70 (77) - 130 (121)	104%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	182000							
540-36-3	1,4-Difluorobenzene	416000							
3114-55-4	Chlorobenzene-d5	402000							
3855-82-1	1,4-Dichlorobenzene-d4	186000							

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

Report of Analysis

Client: G Environmental
Project: ANN
Client Sample ID: VN1201WBS01
Lab Sample ID: VN1201WBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3738
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	18.2		1	0.22	1.00	ug/L	12/01/25 11:27	VN120125
74-87-3	Chloromethane	19.4		1	0.32	1.00	ug/L	12/01/25 11:27	VN120125
75-01-4	Vinyl Chloride	18.9		1	0.26	1.00	ug/L	12/01/25 11:27	VN120125
74-83-9	Bromomethane	19.7		1	1.40	5.00	ug/L	12/01/25 11:27	VN120125
75-00-3	Chloroethane	19.5		1	0.47	1.00	ug/L	12/01/25 11:27	VN120125
75-69-4	Trichlorofluoromethane	18.6		1	0.33	1.00	ug/L	12/01/25 11:27	VN120125
76-13-1	1,1,2-Trichlorotrifluoroethane	18.6		1	0.25	1.00	ug/L	12/01/25 11:27	VN120125
75-65-0	Tert butyl alcohol	87.5		1	5.50	25.0	ug/L	12/01/25 11:27	VN120125
75-35-4	1,1-Dichloroethene	19.0		1	0.23	1.00	ug/L	12/01/25 11:27	VN120125
67-64-1	Acetone	87.9		1	1.50	5.00	ug/L	12/01/25 11:27	VN120125
75-15-0	Carbon Disulfide	19.4		1	0.21	1.00	ug/L	12/01/25 11:27	VN120125
1634-04-4	Methyl tert-butyl Ether	19.9		1	0.16	1.00	ug/L	12/01/25 11:27	VN120125
79-20-9	Methyl Acetate	19.1		1	0.27	1.00	ug/L	12/01/25 11:27	VN120125
75-09-2	Methylene Chloride	20.0		1	0.28	1.00	ug/L	12/01/25 11:27	VN120125
156-60-5	trans-1,2-Dichloroethene	19.6		1	0.23	1.00	ug/L	12/01/25 11:27	VN120125
75-34-3	1,1-Dichloroethane	19.8		1	0.23	1.00	ug/L	12/01/25 11:27	VN120125
110-82-7	Cyclohexane	17.9		1	1.50	5.00	ug/L	12/01/25 11:27	VN120125
78-93-3	2-Butanone	96.0		1	0.98	5.00	ug/L	12/01/25 11:27	VN120125
56-23-5	Carbon Tetrachloride	18.3		1	0.25	1.00	ug/L	12/01/25 11:27	VN120125
156-59-2	cis-1,2-Dichloroethene	20.1		1	0.19	1.00	ug/L	12/01/25 11:27	VN120125
74-97-5	Bromochloromethane	19.3		1	0.22	1.00	ug/L	12/01/25 11:27	VN120125
67-66-3	Chloroform	20.3		1	0.25	1.00	ug/L	12/01/25 11:27	VN120125
71-55-6	1,1,1-Trichloroethane	18.8		1	0.20	1.00	ug/L	12/01/25 11:27	VN120125
108-87-2	Methylcyclohexane	17.1		1	0.16	1.00	ug/L	12/01/25 11:27	VN120125
71-43-2	Benzene	19.4		1	0.15	1.00	ug/L	12/01/25 11:27	VN120125
107-06-2	1,2-Dichloroethane	19.6		1	0.22	1.00	ug/L	12/01/25 11:27	VN120125
79-01-6	Trichloroethene	18.8		1	0.090	1.00	ug/L	12/01/25 11:27	VN120125
78-87-5	1,2-Dichloropropane	19.8		1	0.20	1.00	ug/L	12/01/25 11:27	VN120125
75-27-4	Bromodichloromethane	19.5		1	0.22	1.00	ug/L	12/01/25 11:27	VN120125
108-10-1	4-Methyl-2-Pentanone	98.3		1	0.68	5.00	ug/L	12/01/25 11:27	VN120125
108-88-3	Toluene	19.5		1	0.14	1.00	ug/L	12/01/25 11:27	VN120125
10061-02-6	t-1,3-Dichloropropene	19.9		1	0.17	1.00	ug/L	12/01/25 11:27	VN120125
10061-01-5	cis-1,3-Dichloropropene	20.1		1	0.16	1.00	ug/L	12/01/25 11:27	VN120125
79-00-5	1,1,2-Trichloroethane	20.2		1	0.21	1.00	ug/L	12/01/25 11:27	VN120125
591-78-6	2-Hexanone	93.5		1	0.89	5.00	ug/L	12/01/25 11:27	VN120125
124-48-1	Dibromochloromethane	20.1		1	0.18	1.00	ug/L	12/01/25 11:27	VN120125
106-93-4	1,2-Dibromoethane	20.6		1	0.15	1.00	ug/L	12/01/25 11:27	VN120125
127-18-4	Tetrachloroethene	17.9		1	0.23	1.00	ug/L	12/01/25 11:27	VN120125
108-90-7	Chlorobenzene	19.5		1	0.12	1.00	ug/L	12/01/25 11:27	VN120125
100-41-4	Ethyl Benzene	18.6		1	0.13	1.00	ug/L	12/01/25 11:27	VN120125
179601-23-1	m/p-Xylenes	37.0		1	0.24	2.00	ug/L	12/01/25 11:27	VN120125
95-47-6	o-Xylene	18.3		1	0.12	1.00	ug/L	12/01/25 11:27	VN120125
100-42-5	Styrene	19.6		1	0.15	1.00	ug/L	12/01/25 11:27	VN120125

Report of Analysis

Client: G Environmental
 Project: ANN
 Client Sample ID: VN1201WBS01
 Lab Sample ID: VN1201WBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3738
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
75-25-2	Bromoform	20.0		1	0.19	1.00	ug/L	12/01/25 11:27	VN120125
98-82-8	Isopropylbenzene	18.6		1	0.12	1.00	ug/L	12/01/25 11:27	VN120125
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1	0.26	1.00	ug/L	12/01/25 11:27	VN120125
541-73-1	1,3-Dichlorobenzene	19.0		1	0.16	1.00	ug/L	12/01/25 11:27	VN120125
106-46-7	1,4-Dichlorobenzene	18.5		1	0.19	1.00	ug/L	12/01/25 11:27	VN120125
95-50-1	1,2-Dichlorobenzene	19.4		1	0.16	1.00	ug/L	12/01/25 11:27	VN120125
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		1	0.53	1.00	ug/L	12/01/25 11:27	VN120125
120-82-1	1,2,4-Trichlorobenzene	18.5		1	0.20	1.00	ug/L	12/01/25 11:27	VN120125
87-61-6	1,2,3-Trichlorobenzene	18.3		1	0.20	1.00	ug/L	12/01/25 11:27	VN120125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.0			70 (74) - 130 (125)	112%	SPK: 50		
1868-53-7	Dibromofluoromethane	55.1			70 (75) - 130 (124)	110%	SPK: 50		
2037-26-5	Toluene-d8	54.9			70 (86) - 130 (113)	110%	SPK: 50		
460-00-4	4-Bromofluorobenzene	53.3			70 (77) - 130 (121)	107%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	257000							
540-36-3	1,4-Difluorobenzene	487000							
3114-55-4	Chlorobenzene-d5	435000							
3855-82-1	1,4-Dichlorobenzene-d4	207000							

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

Report of Analysis

Client: G Environmental
Project: ANN
Client Sample ID: VN1202WBS02
Lab Sample ID: VN1202WBS02
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3738
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	19.1		1	0.22	1.00	ug/L	12/02/25 11:34	VN120225
74-87-3	Chloromethane	18.7		1	0.32	1.00	ug/L	12/02/25 11:34	VN120225
75-01-4	Vinyl Chloride	18.2		1	0.26	1.00	ug/L	12/02/25 11:34	VN120225
74-83-9	Bromomethane	19.5		1	1.40	5.00	ug/L	12/02/25 11:34	VN120225
75-00-3	Chloroethane	18.7		1	0.47	1.00	ug/L	12/02/25 11:34	VN120225
75-69-4	Trichlorofluoromethane	18.8		1	0.33	1.00	ug/L	12/02/25 11:34	VN120225
76-13-1	1,1,2-Trichlorotrifluoroethane	18.8		1	0.25	1.00	ug/L	12/02/25 11:34	VN120225
75-65-0	Tert butyl alcohol	78.6		1	5.50	25.0	ug/L	12/02/25 11:34	VN120225
75-35-4	1,1-Dichloroethene	18.5		1	0.23	1.00	ug/L	12/02/25 11:34	VN120225
67-64-1	Acetone	87.8		1	1.50	5.00	ug/L	12/02/25 11:34	VN120225
75-15-0	Carbon Disulfide	18.6		1	0.21	1.00	ug/L	12/02/25 11:34	VN120225
1634-04-4	Methyl tert-butyl Ether	19.6		1	0.16	1.00	ug/L	12/02/25 11:34	VN120225
79-20-9	Methyl Acetate	19.7		1	0.27	1.00	ug/L	12/02/25 11:34	VN120225
75-09-2	Methylene Chloride	19.1		1	0.28	1.00	ug/L	12/02/25 11:34	VN120225
156-60-5	trans-1,2-Dichloroethene	18.6		1	0.23	1.00	ug/L	12/02/25 11:34	VN120225
75-34-3	1,1-Dichloroethane	19.2		1	0.23	1.00	ug/L	12/02/25 11:34	VN120225
110-82-7	Cyclohexane	18.9		1	1.50	5.00	ug/L	12/02/25 11:34	VN120225
78-93-3	2-Butanone	93.7		1	0.98	5.00	ug/L	12/02/25 11:34	VN120225
56-23-5	Carbon Tetrachloride	19.1		1	0.25	1.00	ug/L	12/02/25 11:34	VN120225
156-59-2	cis-1,2-Dichloroethene	18.6		1	0.19	1.00	ug/L	12/02/25 11:34	VN120225
74-97-5	Bromochloromethane	20.9		1	0.22	1.00	ug/L	12/02/25 11:34	VN120225
67-66-3	Chloroform	19.7		1	0.25	1.00	ug/L	12/02/25 11:34	VN120225
71-55-6	1,1,1-Trichloroethane	18.8		1	0.20	1.00	ug/L	12/02/25 11:34	VN120225
108-87-2	Methylcyclohexane	17.9		1	0.16	1.00	ug/L	12/02/25 11:34	VN120225
71-43-2	Benzene	18.7		1	0.15	1.00	ug/L	12/02/25 11:34	VN120225
107-06-2	1,2-Dichloroethane	20.3		1	0.22	1.00	ug/L	12/02/25 11:34	VN120225
79-01-6	Trichloroethene	17.9		1	0.090	1.00	ug/L	12/02/25 11:34	VN120225
78-87-5	1,2-Dichloropropane	19.1		1	0.20	1.00	ug/L	12/02/25 11:34	VN120225
75-27-4	Bromodichloromethane	19.8		1	0.22	1.00	ug/L	12/02/25 11:34	VN120225
108-10-1	4-Methyl-2-Pentanone	99.6		1	0.68	5.00	ug/L	12/02/25 11:34	VN120225
108-88-3	Toluene	19.5		1	0.14	1.00	ug/L	12/02/25 11:34	VN120225
10061-02-6	t-1,3-Dichloropropene	18.7		1	0.17	1.00	ug/L	12/02/25 11:34	VN120225
10061-01-5	cis-1,3-Dichloropropene	19.0		1	0.16	1.00	ug/L	12/02/25 11:34	VN120225
79-00-5	1,1,2-Trichloroethane	20.1		1	0.21	1.00	ug/L	12/02/25 11:34	VN120225
591-78-6	2-Hexanone	93.9		1	0.89	5.00	ug/L	12/02/25 11:34	VN120225
124-48-1	Dibromochloromethane	19.3		1	0.18	1.00	ug/L	12/02/25 11:34	VN120225
106-93-4	1,2-Dibromoethane	19.5		1	0.15	1.00	ug/L	12/02/25 11:34	VN120225
127-18-4	Tetrachloroethene	16.6		1	0.23	1.00	ug/L	12/02/25 11:34	VN120225
108-90-7	Chlorobenzene	18.8		1	0.12	1.00	ug/L	12/02/25 11:34	VN120225
100-41-4	Ethyl Benzene	18.5		1	0.13	1.00	ug/L	12/02/25 11:34	VN120225
179601-23-1	m/p-Xylenes	37.6		1	0.24	2.00	ug/L	12/02/25 11:34	VN120225
95-47-6	o-Xylene	18.1		1	0.12	1.00	ug/L	12/02/25 11:34	VN120225
100-42-5	Styrene	19.3		1	0.15	1.00	ug/L	12/02/25 11:34	VN120225

Report of Analysis

Client: G Environmental
 Project: ANN
 Client Sample ID: VN1202WBS02
 Lab Sample ID: VN1202WBS02
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3738
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
75-25-2	Bromoform	19.9		1	0.19	1.00	ug/L	12/02/25 11:34	VN120225
98-82-8	Isopropylbenzene	18.6		1	0.12	1.00	ug/L	12/02/25 11:34	VN120225
79-34-5	1,1,2,2-Tetrachloroethane	19.8		1	0.26	1.00	ug/L	12/02/25 11:34	VN120225
541-73-1	1,3-Dichlorobenzene	18.8		1	0.16	1.00	ug/L	12/02/25 11:34	VN120225
106-46-7	1,4-Dichlorobenzene	18.7		1	0.19	1.00	ug/L	12/02/25 11:34	VN120225
95-50-1	1,2-Dichlorobenzene	18.8		1	0.16	1.00	ug/L	12/02/25 11:34	VN120225
96-12-8	1,2-Dibromo-3-Chloropropane	18.8		1	0.53	1.00	ug/L	12/02/25 11:34	VN120225
120-82-1	1,2,4-Trichlorobenzene	18.2		1	0.20	1.00	ug/L	12/02/25 11:34	VN120225
87-61-6	1,2,3-Trichlorobenzene	18.5		1	0.20	1.00	ug/L	12/02/25 11:34	VN120225
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	52.1			70 (74) - 130 (125)	104%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.1			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	50.5			70 (86) - 130 (113)	101%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.3			70 (77) - 130 (121)	99%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	245000							
540-36-3	1,4-Difluorobenzene	446000							
3114-55-4	Chlorobenzene-d5	396000							
3855-82-1	1,4-Dichlorobenzene-d4	188000							

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

Report of Analysis

Client: G Environmental
Project: ANN
Client Sample ID: VN1201WBSD01
Lab Sample ID: VN1201WBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3738
Matrix: Water
% Solid: 0
Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	18.9		1	0.22	1.00	ug/L	12/01/25 12:10	VN120125
74-87-3	Chloromethane	19.4		1	0.32	1.00	ug/L	12/01/25 12:10	VN120125
75-01-4	Vinyl Chloride	18.7		1	0.26	1.00	ug/L	12/01/25 12:10	VN120125
74-83-9	Bromomethane	20.2		1	1.40	5.00	ug/L	12/01/25 12:10	VN120125
75-00-3	Chloroethane	19.3		1	0.47	1.00	ug/L	12/01/25 12:10	VN120125
75-69-4	Trichlorofluoromethane	18.7		1	0.33	1.00	ug/L	12/01/25 12:10	VN120125
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		1	0.25	1.00	ug/L	12/01/25 12:10	VN120125
75-65-0	Tert butyl alcohol	88.0		1	5.50	25.0	ug/L	12/01/25 12:10	VN120125
75-35-4	1,1-Dichloroethene	18.8		1	0.23	1.00	ug/L	12/01/25 12:10	VN120125
67-64-1	Acetone	87.0		1	1.50	5.00	ug/L	12/01/25 12:10	VN120125
75-15-0	Carbon Disulfide	18.8		1	0.21	1.00	ug/L	12/01/25 12:10	VN120125
1634-04-4	Methyl tert-butyl Ether	19.4		1	0.16	1.00	ug/L	12/01/25 12:10	VN120125
79-20-9	Methyl Acetate	19.0		1	0.27	1.00	ug/L	12/01/25 12:10	VN120125
75-09-2	Methylene Chloride	20.2		1	0.28	1.00	ug/L	12/01/25 12:10	VN120125
156-60-5	trans-1,2-Dichloroethene	19.6		1	0.23	1.00	ug/L	12/01/25 12:10	VN120125
75-34-3	1,1-Dichloroethane	19.1		1	0.23	1.00	ug/L	12/01/25 12:10	VN120125
110-82-7	Cyclohexane	18.5		1	1.50	5.00	ug/L	12/01/25 12:10	VN120125
78-93-3	2-Butanone	96.2		1	0.98	5.00	ug/L	12/01/25 12:10	VN120125
56-23-5	Carbon Tetrachloride	18.8		1	0.25	1.00	ug/L	12/01/25 12:10	VN120125
156-59-2	cis-1,2-Dichloroethene	19.4		1	0.19	1.00	ug/L	12/01/25 12:10	VN120125
74-97-5	Bromochloromethane	18.5		1	0.22	1.00	ug/L	12/01/25 12:10	VN120125
67-66-3	Chloroform	19.6		1	0.25	1.00	ug/L	12/01/25 12:10	VN120125
71-55-6	1,1,1-Trichloroethane	19.0		1	0.20	1.00	ug/L	12/01/25 12:10	VN120125
108-87-2	Methylcyclohexane	18.5		1	0.16	1.00	ug/L	12/01/25 12:10	VN120125
71-43-2	Benzene	19.1		1	0.15	1.00	ug/L	12/01/25 12:10	VN120125
107-06-2	1,2-Dichloroethane	19.4		1	0.22	1.00	ug/L	12/01/25 12:10	VN120125
79-01-6	Trichloroethene	19.1		1	0.090	1.00	ug/L	12/01/25 12:10	VN120125
78-87-5	1,2-Dichloropropane	19.2		1	0.20	1.00	ug/L	12/01/25 12:10	VN120125
75-27-4	Bromodichloromethane	19.3		1	0.22	1.00	ug/L	12/01/25 12:10	VN120125
108-10-1	4-Methyl-2-Pentanone	98.5		1	0.68	5.00	ug/L	12/01/25 12:10	VN120125
108-88-3	Toluene	19.8		1	0.14	1.00	ug/L	12/01/25 12:10	VN120125
10061-02-6	t-1,3-Dichloropropene	19.1		1	0.17	1.00	ug/L	12/01/25 12:10	VN120125
10061-01-5	cis-1,3-Dichloropropene	19.5		1	0.16	1.00	ug/L	12/01/25 12:10	VN120125
79-00-5	1,1,2-Trichloroethane	20.0		1	0.21	1.00	ug/L	12/01/25 12:10	VN120125
591-78-6	2-Hexanone	94.4		1	0.89	5.00	ug/L	12/01/25 12:10	VN120125
124-48-1	Dibromochloromethane	20.3		1	0.18	1.00	ug/L	12/01/25 12:10	VN120125
106-93-4	1,2-Dibromoethane	19.9		1	0.15	1.00	ug/L	12/01/25 12:10	VN120125
127-18-4	Tetrachloroethene	19.0		1	0.23	1.00	ug/L	12/01/25 12:10	VN120125
108-90-7	Chlorobenzene	19.8		1	0.12	1.00	ug/L	12/01/25 12:10	VN120125
100-41-4	Ethyl Benzene	18.9		1	0.13	1.00	ug/L	12/01/25 12:10	VN120125
179601-23-1	m/p-Xylenes	37.8		1	0.24	2.00	ug/L	12/01/25 12:10	VN120125
95-47-6	o-Xylene	19.2		1	0.12	1.00	ug/L	12/01/25 12:10	VN120125
100-42-5	Styrene	19.4		1	0.15	1.00	ug/L	12/01/25 12:10	VN120125

Report of Analysis

Client: G Environmental
 Project: ANN
 Client Sample ID: VN1201WBSD01
 Lab Sample ID: VN1201WBSD01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3738
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
75-25-2	Bromoform	20.1		1	0.19	1.00	ug/L	12/01/25 12:10	VN120125
98-82-8	Isopropylbenzene	19.3		1	0.12	1.00	ug/L	12/01/25 12:10	VN120125
79-34-5	1,1,2,2-Tetrachloroethane	19.5		1	0.26	1.00	ug/L	12/01/25 12:10	VN120125
541-73-1	1,3-Dichlorobenzene	19.5		1	0.16	1.00	ug/L	12/01/25 12:10	VN120125
106-46-7	1,4-Dichlorobenzene	19.0		1	0.19	1.00	ug/L	12/01/25 12:10	VN120125
95-50-1	1,2-Dichlorobenzene	19.0		1	0.16	1.00	ug/L	12/01/25 12:10	VN120125
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		1	0.53	1.00	ug/L	12/01/25 12:10	VN120125
120-82-1	1,2,4-Trichlorobenzene	18.0		1	0.20	1.00	ug/L	12/01/25 12:10	VN120125
87-61-6	1,2,3-Trichlorobenzene	19.1		1	0.20	1.00	ug/L	12/01/25 12:10	VN120125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	52.2			70 (74) - 130 (125)	104%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.3			70 (75) - 130 (124)	105%	SPK: 50		
2037-26-5	Toluene-d8	53.2			70 (86) - 130 (113)	106%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.1			70 (77) - 130 (121)	102%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	257000							
540-36-3	1,4-Difluorobenzene	473000							
3114-55-4	Chlorobenzene-d5	413000							
3855-82-1	1,4-Dichlorobenzene-d4	197000							

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



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG No.: Q3738

Instrument ID: MSVOA_N

Calibration Date(s): 11/24/2025 11/24/2025

Heated Purge: (Y/N) N

Calibration Time(s): 12:38 14:35

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

LAB FILE ID:								
RRF001 = VN088344.D			RRF005 = VN088345.D			RRF020 = VN088346.D		
RRF050 = VN088347.D			RRF100 = VN088348.D			RRF150 = VN088349.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.719	0.676	0.796	0.741	0.838	0.736	0.751	7.7
Chloromethane	0.911	0.800	0.805	0.801	0.759	0.764	0.807	6.8
Vinyl Chloride	0.804	0.844	0.856	0.812	0.837	0.772	0.821	3.8
Bromomethane		0.407	0.392	0.396	0.387	0.392	0.395	1.9
Chloroethane	0.555	0.503	0.496	0.505	0.502	0.485	0.508	4.8
Trichlorofluoromethane	1.234	1.170	1.168	1.092	1.201	1.055	1.153	5.8
1,1,2-Trichlorotrifluoroethane	0.660	0.635	0.639	0.564	0.633	0.553	0.614	7.2
Tert butyl alcohol		0.151	0.149	0.161	0.142	0.148	0.150	4.6
1,1-Dichloroethene	0.722	0.620	0.601	0.568	0.595	0.554	0.610	9.8
Acetone	0.412	0.355	0.322	0.335	0.305	0.314	0.341	11.5
Carbon Disulfide	2.061	2.043	2.043	1.983	1.996	1.833	1.993	4.2
Methyl tert-butyl Ether	2.126	2.239	2.245	2.504	2.265	2.333	2.285	5.5
Methyl Acetate	1.072	1.048	0.957	1.049	0.972	0.985	1.014	4.7
Methylene Chloride	0.797	0.752	0.704	0.756	0.686	0.678	0.729	6.4
trans-1,2-Dichloroethene	0.752	0.668	0.676	0.686	0.647	0.626	0.676	6.4
1,1-Dichloroethane	1.389	1.431	1.348	1.427	1.321	1.286	1.367	4.3
Cyclohexane		1.450	1.264	1.133	1.237	1.109	1.239	10.9
2-Butanone	0.509	0.538	0.548	0.596	0.540	0.556	0.548	5.2
Carbon Tetrachloride	0.565	0.504	0.548	0.499	0.570	0.509	0.532	6
cis-1,2-Dichloroethene	0.797	0.801	0.794	0.829	0.747	0.744	0.785	4.2
Bromochloromethane	0.724	0.722	0.684	0.735	0.624	0.597	0.681	8.5
Chloroform	1.377	1.362	1.351	1.392	1.291	1.285	1.343	3.3
1,1,1-Trichloroethane	1.247	1.219	1.192	1.158	1.166	1.104	1.181	4.3
Methylcyclohexane	0.534	0.542	0.606	0.527	0.662	0.561	0.572	9.1
Benzene	1.658	1.555	1.609	1.559	1.559	1.477	1.570	3.9
1,2-Dichloroethane	0.583	0.614	0.596	0.615	0.597	0.587	0.599	2.3
Trichloroethene	0.382	0.385	0.383	0.357	0.371	0.348	0.371	4.1
1,2-Dichloropropane	0.426	0.402	0.402	0.406	0.396	0.381	0.402	3.6
Bromodichloromethane	0.602	0.586	0.586	0.589	0.583	0.566	0.586	2
4-Methyl-2-Pentanone	0.540	0.616	0.661	0.673	0.658	0.651	0.633	7.8

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GENV01
Lab Code: ACE SDG No.: Q3738
Instrument ID: MSVOA_N Calibration Date(s): 11/24/2025 11/24/2025
Heated Purge: (Y/N) N Calibration Time(s): 12:38 14:35
GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF001 = VN088344.D		RRF005 = VN088345.D		RRF020 = VN088346.D		
		RRF050 = VN088347.D		RRF100 = VN088348.D		RRF150 = VN088349.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Toluene	0.829	0.885	0.940	0.913	0.960	0.911	0.906	5.1
t-1,3-Dichloropropene	0.567	0.553	0.598	0.631	0.631	0.625	0.601	5.7
cis-1,3-Dichloropropene	0.590	0.618	0.628	0.662	0.654	0.640	0.632	4.2
1,1,2-Trichloroethane	0.350	0.359	0.364	0.353	0.341	0.336	0.351	3
2-Hexanone	0.359	0.301	0.406	0.436	0.442	0.450	0.399	14.7
Dibromochloromethane	0.384	0.386	0.406	0.409	0.410	0.404	0.400	2.9
1,2-Dibromoethane	0.304	0.367	0.364	0.369	0.367	0.359	0.355	7.2
Tetrachloroethene	0.426	0.388	0.413	0.377	0.407	0.367	0.396	5.7
Chlorobenzene	1.114	1.142	1.161	1.106	1.145	1.070	1.123	3
Ethyl Benzene	1.881	1.860	2.014	1.938	2.133	1.952	1.963	5.1
m/p-Xylenes	0.658	0.690	0.769	0.733	0.788	0.728	0.728	6.6
o-Xylene	0.670	0.619	0.722	0.696	0.749	0.708	0.694	6.5
Styrene	0.884	1.025	1.163	1.193	1.284	1.210	1.127	12.9
Bromoform	0.224	0.273	0.285	0.285	0.302	0.295	0.277	10.1
Isopropylbenzene	3.339	3.528	3.944	3.624	4.040	3.706	3.697	7.1
1,1,2,2-Tetrachloroethane	1.377	1.218	1.231	1.127	1.135	1.082	1.195	8.9
1,3-Dichlorobenzene	1.730	1.573	1.720	1.606	1.676	1.574	1.647	4.3
1,4-Dichlorobenzene	1.747	1.825	1.786	1.681	1.702	1.608	1.725	4.5
1,2-Dichlorobenzene	1.518	1.574	1.583	1.521	1.595	1.505	1.550	2.5
1,2-Dibromo-3-Chloropropane	0.284	0.284	0.284	0.288	0.300	0.300	0.290	2.8
1,2,4-Trichlorobenzene	0.998	0.864	0.901	0.889	0.955	0.917	0.921	5.3
1,2,3-Trichlorobenzene	0.942	0.850	0.888	0.875	0.930	0.891	0.896	3.8
1,2-Dichloroethane-d4		0.954	0.916	0.999	0.882	0.960	0.942	4.7
Dibromofluoromethane		0.361	0.350	0.350	0.334	0.337	0.346	3.2
Toluene-d8		1.249	1.292	1.285	1.308	1.313	1.289	2
4-Bromofluorobenzene		0.402	0.413	0.448	0.466	0.482	0.442	7.7

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3738</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>12/01/2025 09:58</u>
Lab File ID:	<u>VN088370.D</u>	Init. Calib. Date(s):	<u>11/24/2025 11/24/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:38 14:35</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.751	0.815		8.52	20
Chloromethane	0.807	0.858	0.1	6.32	20
Vinyl Chloride	0.821	0.851		3.65	20
Bromomethane	0.395	0.408		3.29	20
Chloroethane	0.508	0.525		3.35	20
Trichlorofluoromethane	1.153	1.195		3.64	20
1,1,2-Trichlorotrifluoroethane	0.614	0.636		3.58	20
Tert butyl alcohol	0.150	0.157		4.67	20
1,1-Dichloroethene	0.610	0.607		-0.49	20
Acetone	0.341	0.269		-21.11	20
Carbon Disulfide	1.993	2.083		4.52	20
Methyl tert-butyl Ether	2.285	2.626		14.92	20
Methyl Acetate	1.014	1.108		9.27	20
Methylene Chloride	0.729	0.791		8.51	20
trans-1,2-Dichloroethene	0.676	0.724		7.1	20
1,1-Dichloroethane	1.367	1.456	0.1	6.51	20
Cyclohexane	1.239	1.285		3.71	20
2-Butanone	0.548	0.541		-1.28	20
Carbon Tetrachloride	0.532	0.584		9.77	20
cis-1,2-Dichloroethene	0.785	0.861		9.68	20
Bromochloromethane	0.681	0.672		-1.32	20
Chloroform	1.343	1.443		7.45	20
1,1,1-Trichloroethane	1.181	1.220		3.3	20
Methylcyclohexane	0.572	0.664		16.08	20
Benzene	1.570	1.738		10.7	20
1,2-Dichloroethane	0.599	0.676		12.85	20
Trichloroethene	0.371	0.415		11.86	20
1,2-Dichloropropane	0.402	0.453		12.69	20
Bromodichloromethane	0.586	0.670		14.33	20
4-Methyl-2-Pentanone	0.633	0.747		18.01	20
Toluene	0.906	1.034		14.13	20
t-1,3-Dichloropropene	0.601	0.701		16.64	20
cis-1,3-Dichloropropene	0.632	0.748		18.35	20
1,1,2-Trichloroethane	0.351	0.400		13.96	20
2-Hexanone	0.399	0.458		14.79	20
Dibromochloromethane	0.400	0.464		16	20
1,2-Dibromoethane	0.355	0.413		16.34	20
Tetrachloroethene	0.396	0.425		7.32	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3738</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>12/01/2025</u> <u>09:58</u>
Lab File ID:	<u>VN088370.D</u>	Init. Calib. Date(s):	<u>11/24/2025</u> <u>11/24/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:38</u> <u>14:35</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chlorobenzene	1.123	1.242	0.3	10.6	20
Ethyl Benzene	1.963	2.187		11.41	20
m/p-Xylenes	0.728	0.816		12.09	20
o-Xylene	0.694	0.778		12.1	20
Styrene	1.127	1.336		18.55	20
Bromoform	0.277	0.337	0.1	21.66	20
Isopropylbenzene	3.697	4.179		13.04	20
1,1,2,2-Tetrachloroethane	1.195	1.313	0.3	9.87	20
1,3-Dichlorobenzene	1.647	1.852		12.45	20
1,4-Dichlorobenzene	1.725	1.901		10.2	20
1,2-Dichlorobenzene	1.550	1.757		13.35	20
1,2-Dibromo-3-Chloropropane	0.290	0.317		9.31	20
1,2,4-Trichlorobenzene	0.921	1.042		13.14	20
1,2,3-Trichlorobenzene	0.896	0.989		10.38	20
1,2-Dichloroethane-d4	0.942	0.958		1.7	20
Dibromofluoromethane	0.346	0.377		8.96	20
Toluene-d8	1.289	1.356		5.2	20
4-Bromofluorobenzene	0.442	0.472		6.79	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3738</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>12/02/2025</u> <u>10:00</u>
Lab File ID:	<u>VN088396.D</u>	Init. Calib. Date(s):	<u>11/24/2025</u> <u>11/24/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:38</u> <u>14:35</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.751	0.786		4.66	20
Chloromethane	0.807	0.845	0.1	4.71	20
Vinyl Chloride	0.821	0.843		2.68	20
Bromomethane	0.395	0.429		8.61	20
Chloroethane	0.508	0.539		6.1	20
Trichlorofluoromethane	1.153	1.181		2.43	20
1,1,2-Trichlorotrifluoroethane	0.614	0.613		-0.16	20
Tert butyl alcohol	0.150	0.138		-8	20
1,1-Dichloroethene	0.610	0.615		0.82	20
Acetone	0.341	0.307		-9.97	20
Carbon Disulfide	1.993	2.027		1.71	20
Methyl tert-butyl Ether	2.285	2.558		11.95	20
Methyl Acetate	1.014	1.074		5.92	20
Methylene Chloride	0.729	0.758		3.98	20
trans-1,2-Dichloroethene	0.676	0.712		5.32	20
1,1-Dichloroethane	1.367	1.456	0.1	6.51	20
Cyclohexane	1.239	1.232		-0.56	20
2-Butanone	0.548	0.563		2.74	20
Carbon Tetrachloride	0.532	0.564		6.01	20
cis-1,2-Dichloroethene	0.785	0.832		5.99	20
Bromochloromethane	0.681	0.699		2.64	20
Chloroform	1.343	1.462		8.86	20
1,1,1-Trichloroethane	1.181	1.247		5.59	20
Methylcyclohexane	0.572	0.574		0.35	20
Benzene	1.570	1.657		5.54	20
1,2-Dichloroethane	0.599	0.667		11.35	20
Trichloroethene	0.371	0.369		-0.54	20
1,2-Dichloropropane	0.402	0.431		7.21	20
Bromodichloromethane	0.586	0.638		8.87	20
4-Methyl-2-Pentanone	0.633	0.694		9.64	20
Toluene	0.906	1.005		10.93	20
t-1,3-Dichloropropene	0.601	0.670		11.48	20
cis-1,3-Dichloropropene	0.632	0.699		10.6	20
1,1,2-Trichloroethane	0.351	0.376		7.12	20
2-Hexanone	0.399	0.450		12.78	20
Dibromochloromethane	0.400	0.439		9.75	20
1,2-Dibromoethane	0.355	0.382		7.61	20
Tetrachloroethene	0.396	0.355		-10.35	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3738</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>12/02/2025</u> <u>10:00</u>
Lab File ID:	<u>VN088396.D</u>	Init. Calib. Date(s):	<u>11/24/2025</u> <u>11/24/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:38</u> <u>14:35</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chlorobenzene	1.123	1.184	0.3	5.43	20
Ethyl Benzene	1.963	2.113		7.64	20
m/p-Xylenes	0.728	0.798		9.61	20
o-Xylene	0.694	0.758		9.22	20
Styrene	1.127	1.318		16.95	20
Bromoform	0.277	0.305	0.1	10.11	20
Isopropylbenzene	3.697	4.066		9.98	20
1,1,2,2-Tetrachloroethane	1.195	1.245	0.3	4.18	20
1,3-Dichlorobenzene	1.647	1.752		6.38	20
1,4-Dichlorobenzene	1.725	1.800		4.35	20
1,2-Dichlorobenzene	1.550	1.664		7.36	20
1,2-Dibromo-3-Chloropropane	0.290	0.303		4.48	20
1,2,4-Trichlorobenzene	0.921	0.953		3.47	20
1,2,3-Trichlorobenzene	0.896	0.919		2.57	20
1,2-Dichloroethane-d4	0.942	0.990		5.1	20
Dibromofluoromethane	0.346	0.360		4.05	20
Toluene-d8	1.289	1.336		3.65	20
4-Bromofluorobenzene	0.442	0.474		7.24	20

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



SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
 Data File : VN088403.D
 Acq On : 02 Dec 2025 12:35
 Operator : JC\MD
 Sample : Q3738-01 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW4

Quant Time: Dec 03 01:27:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

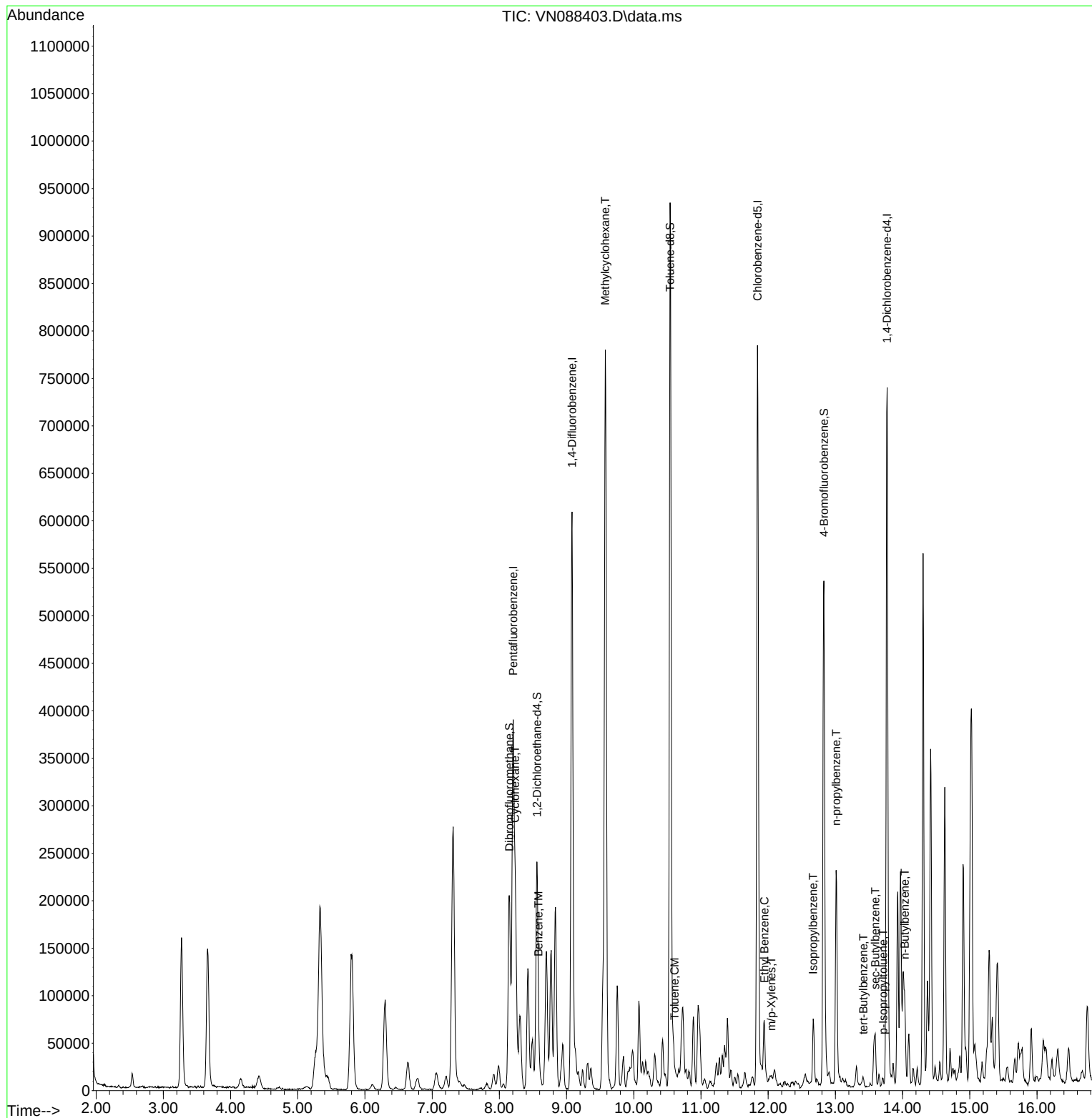
Internal Standards						
1) Pentafluorobenzene	8.206	168	183621	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	418628	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	407692	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	190700	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	195104	56.404	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.800%			
35) Dibromofluoromethane	8.147	113	147599	50.877	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.760%			
50) Toluene-d8	10.541	98	546500	50.629	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.260%			
62) 4-Bromofluorobenzene	12.829	95	197439	53.309	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.620%			
Target Compounds						
					Qvalue	
31) Cyclohexane	8.236	56	116837	25.683	ug/l #	93
39) Methylcyclohexane	9.577	83	305623	63.817	ug/l	95
40) Benzene	8.583	78	18238	1.388	ug/l	93
52) Toluene	10.606	92	3039	0.401	ug/l	98
67) Ethyl Benzene	11.947	91	28233	1.764	ug/l #	89
68) m/p-Xylenes	12.047	106	3559	0.600	ug/l	74
73) Isopropylbenzene	12.671	105	46759	3.316	ug/l	99
78) n-propylbenzene	13.012	91	195714	11.346	ug/l	98
83) tert-Butylbenzene	13.418	119	4118	0.415	ug/l	75
85) sec-Butylbenzene	13.594	105	32868	2.304	ug/l #	73
86) p-Isopropyltoluene	13.712	119	4768	0.408	ug/l	98
89) n-Butylbenzene	14.035	91	51730	4.554	ug/l #	81

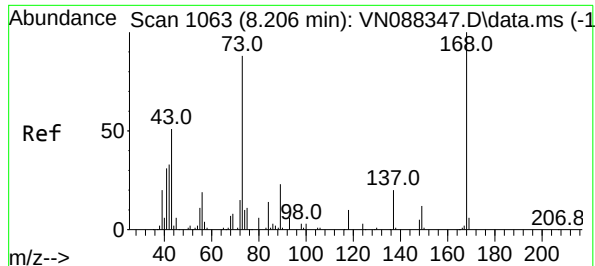
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW4

Quant Time: Dec 03 01:27:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

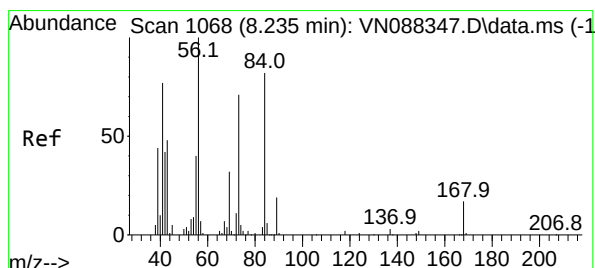
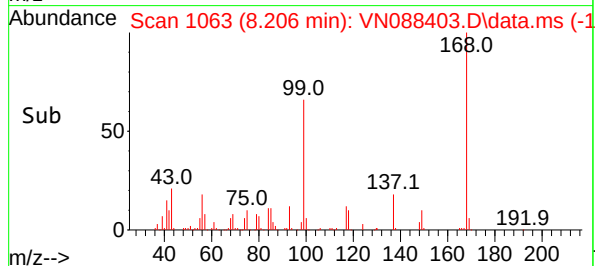
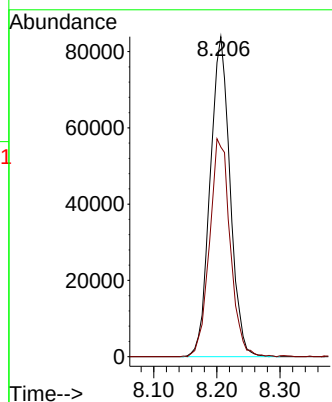
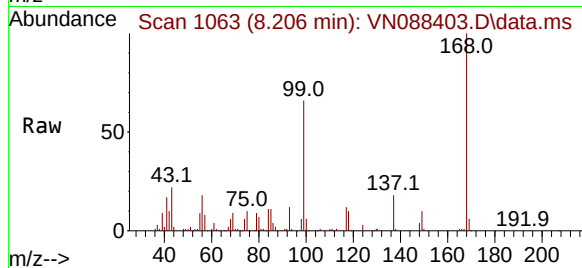




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

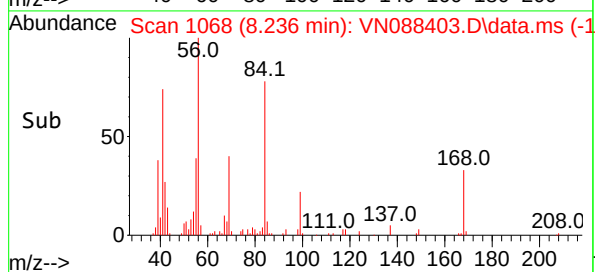
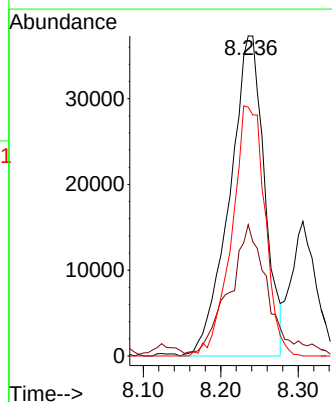
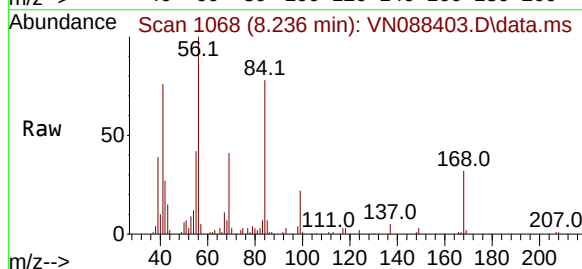
Instrument :
MSVOA_N
ClientSampleId :
MW4

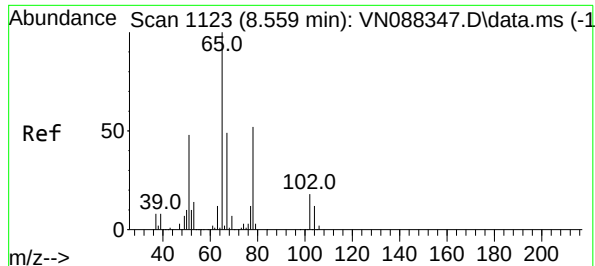
Tgt Ion:168 Resp: 183621
Ion Ratio Lower Upper
168 100
99 65.5 57.1 85.7



#31
Cyclohexane
Concen: 25.683 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion: 56 Resp: 116837
Ion Ratio Lower Upper
56 100
69 39.3 25.3 37.9#
84 77.7 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 56.404 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

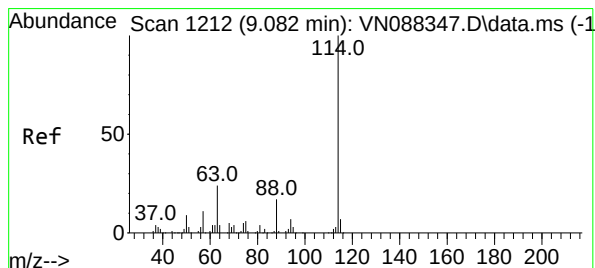
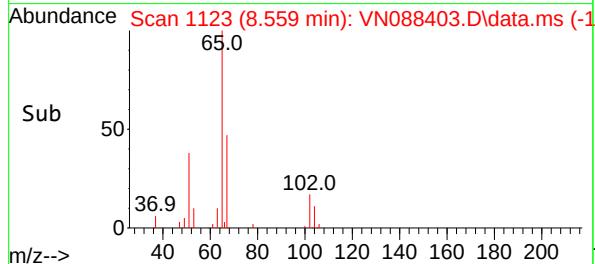
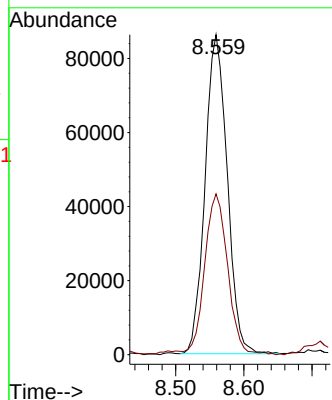
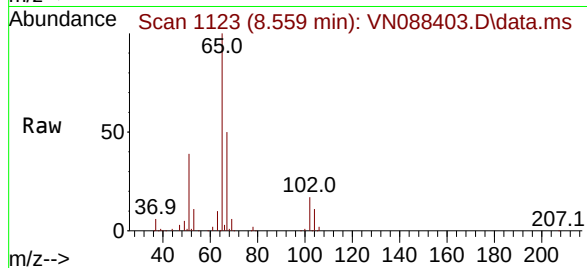
MW4

Tgt Ion: 65 Resp: 195104

Ion Ratio Lower Upper

65 100

67 52.1 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

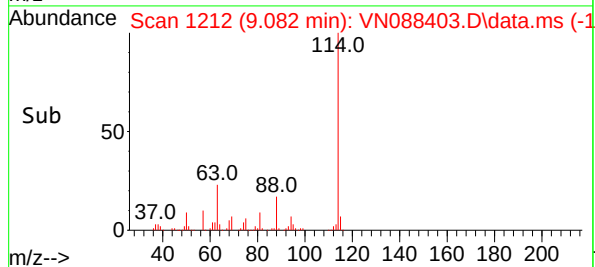
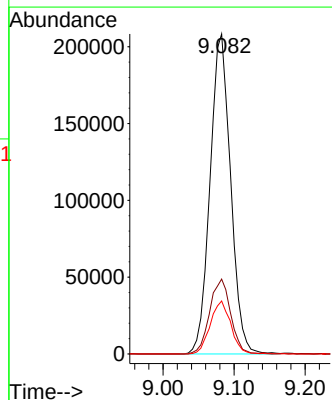
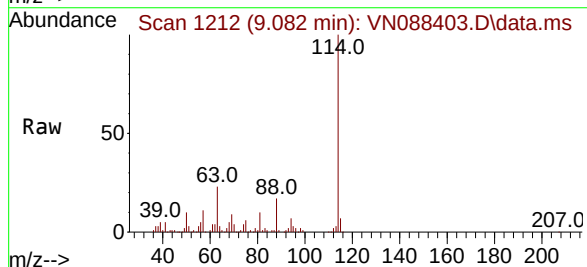
Tgt Ion: 114 Resp: 418628

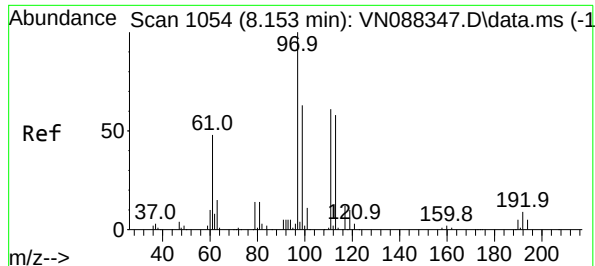
Ion Ratio Lower Upper

114 100

63 23.4 0.0 49.0

88 16.6 0.0 34.0





#35

Dibromofluoromethane

Concen: 50.877 ug/l

RT: 8.147 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088403.D

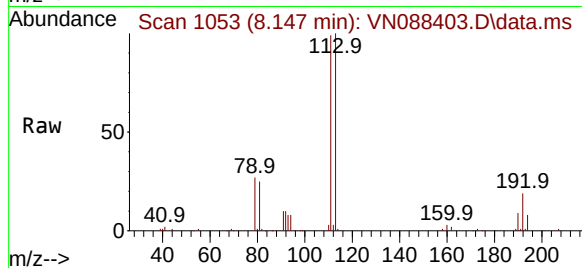
Acq: 02 Dec 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

MW4



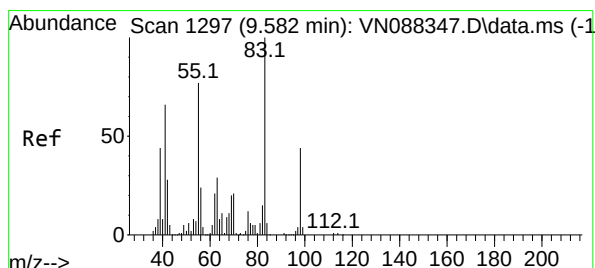
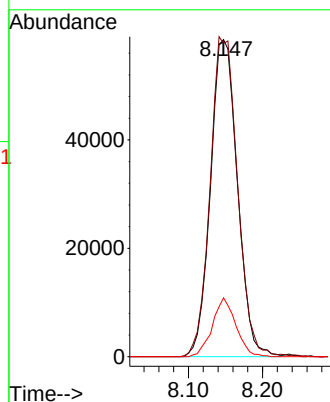
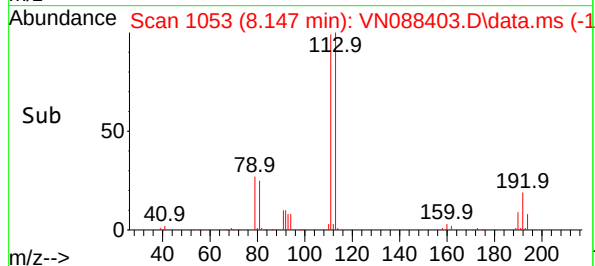
Tgt Ion:113 Resp: 147599

Ion Ratio Lower Upper

113 100

111 102.7 82.5 123.7

192 16.2 12.8 19.2



#39

Methylcyclohexane

Concen: 63.817 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

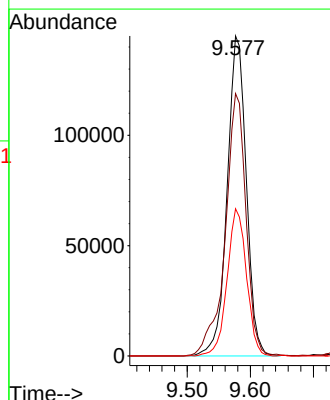
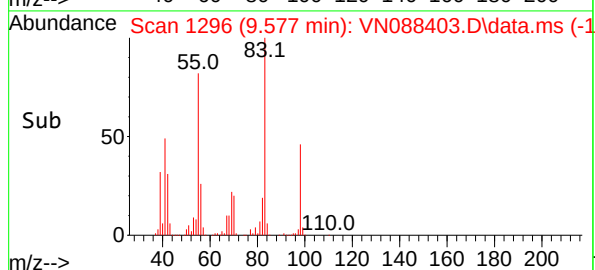
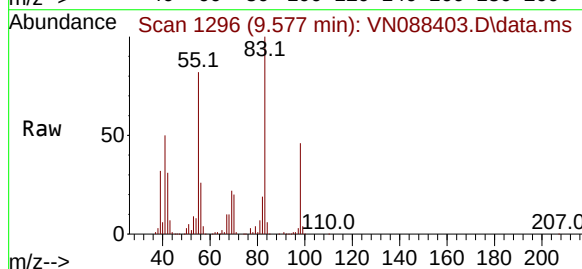
Tgt Ion: 83 Resp: 305623

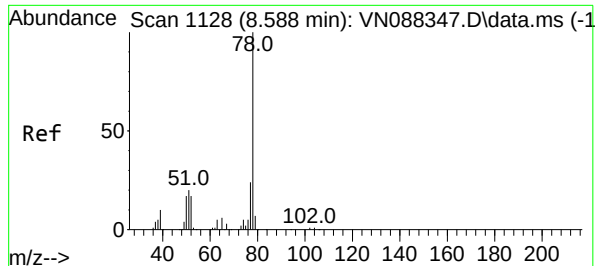
Ion Ratio Lower Upper

83 100

55 82.0 61.6 92.4

98 46.0 35.3 52.9





#40

Benzene

Concen: 1.388 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

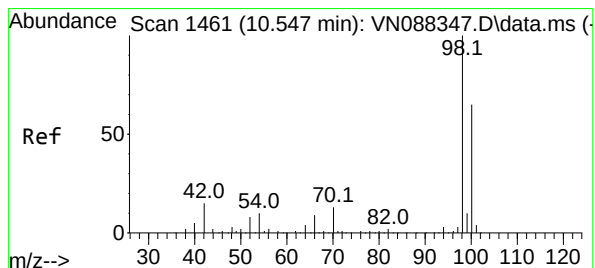
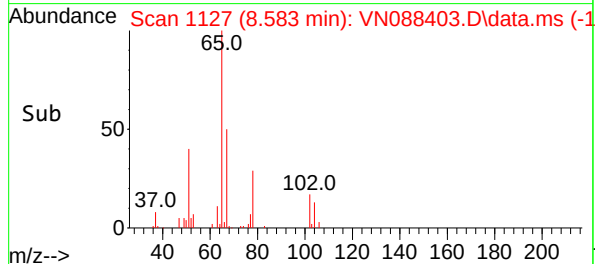
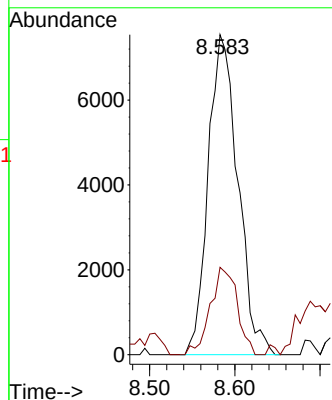
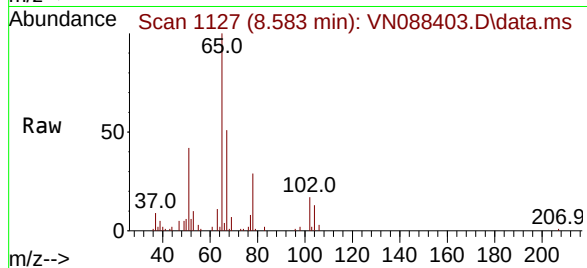
MW4

Tgt Ion: 78 Resp: 18238

Ion Ratio Lower Upper

78 100

77 27.3 19.0 28.4



#50

Toluene-d8

Concen: 50.629 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088403.D

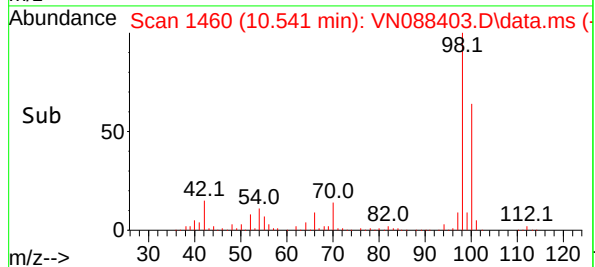
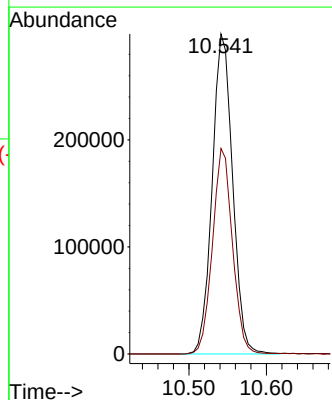
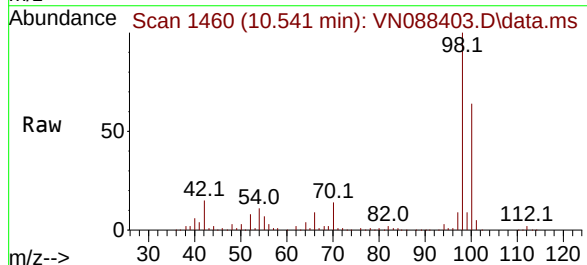
Acq: 02 Dec 2025 12:35

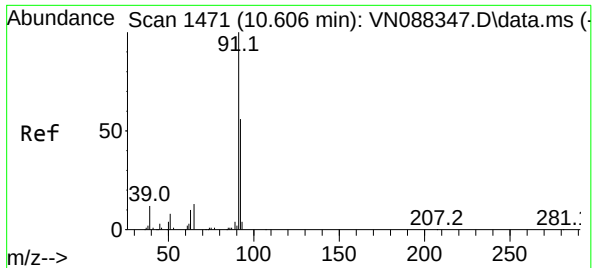
Tgt Ion: 98 Resp: 546500

Ion Ratio Lower Upper

98 100

100 63.0 52.2 78.2

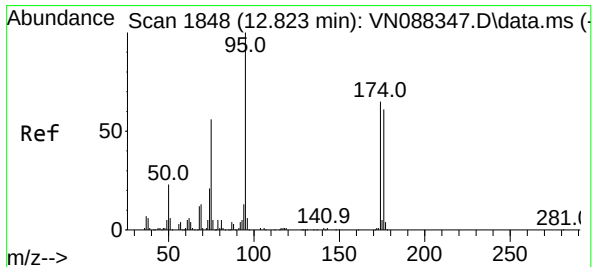
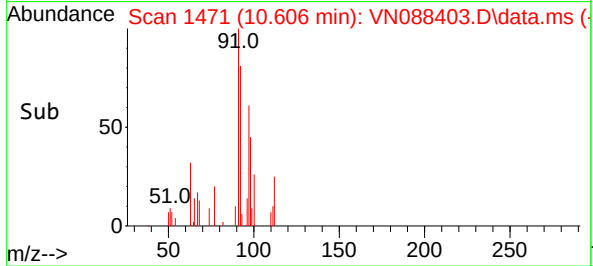
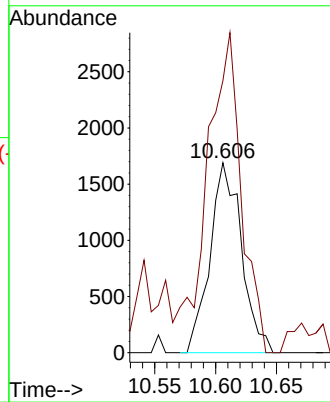
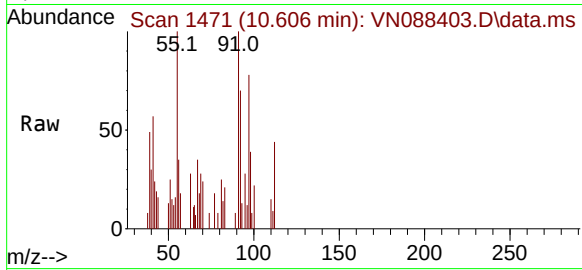




#52
Toluene
Concen: 0.401 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

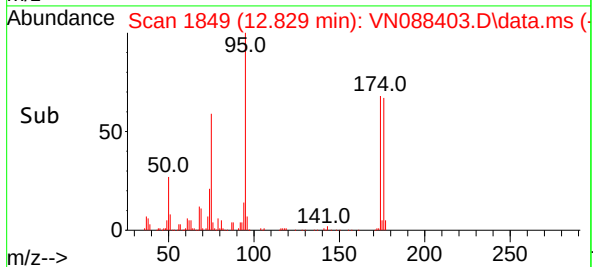
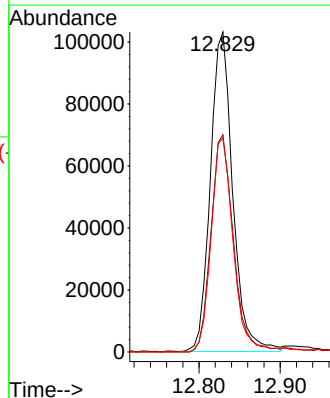
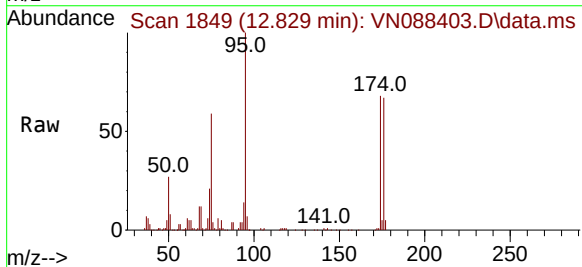
Instrument :
MSVOA_N
ClientSampleId :
MW4

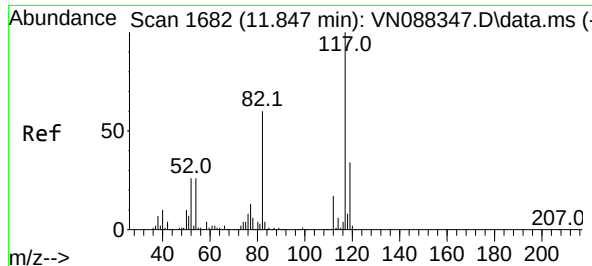
Tgt Ion: 92 Resp: 3039
Ion Ratio Lower Upper
92 100
91 178.6 140.2 210.2



#62
4-Bromofluorobenzene
Concen: 53.309 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion: 95 Resp: 197439
Ion Ratio Lower Upper
95 100
174 67.8 0.0 139.0
176 65.9 0.0 132.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

MW4

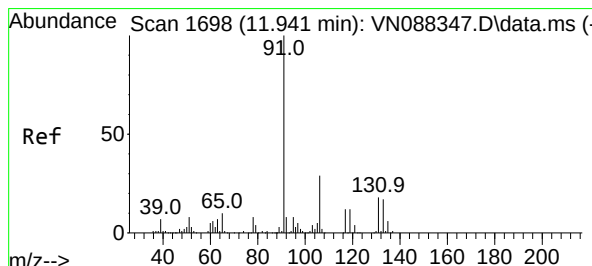
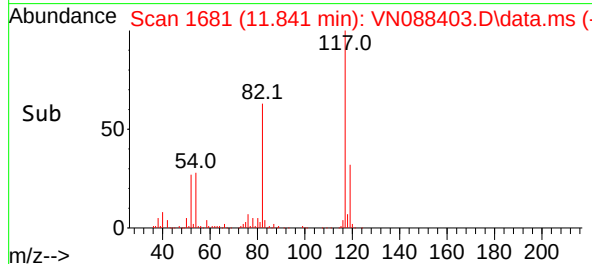
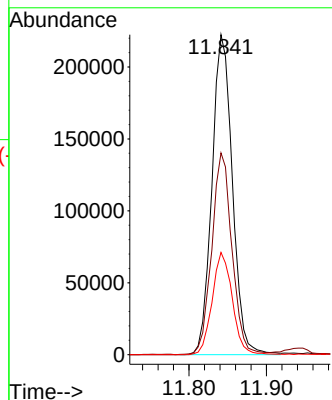
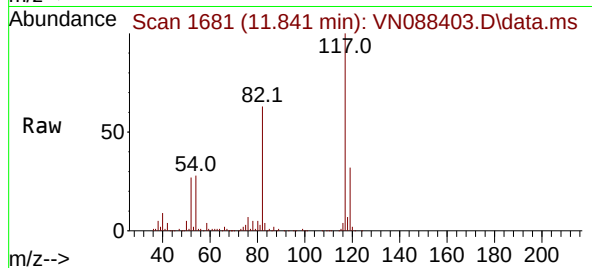
Tgt Ion:117 Resp: 407692

Ion Ratio Lower Upper

117 100

82 63.0 47.8 71.8

119 32.0 26.9 40.3



#67

Ethyl Benzene

Concen: 1.764 ug/l

RT: 11.947 min Scan# 1699

Delta R.T. 0.006 min

Lab File: VN088403.D

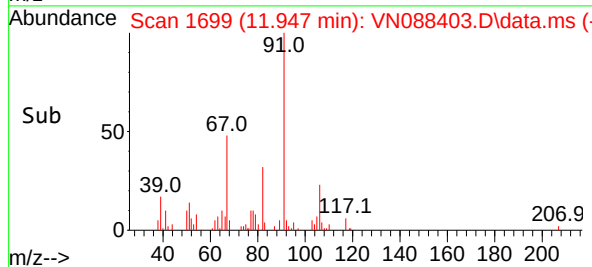
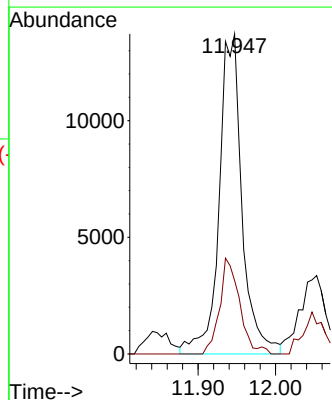
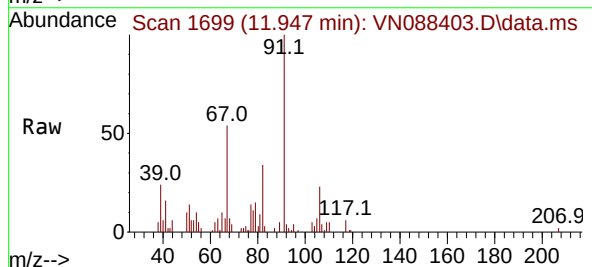
Acq: 02 Dec 2025 12:35

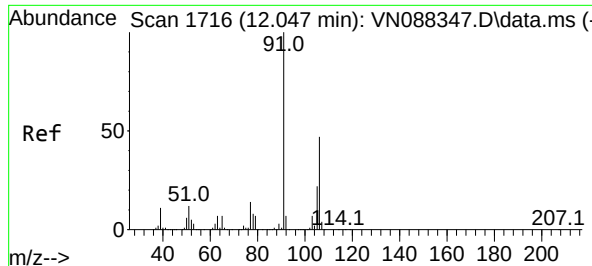
Tgt Ion: 91 Resp: 28233

Ion Ratio Lower Upper

91 100

106 23.4 23.6 35.4#





#68

m/p-Xylenes

Concen: 0.600 ug/l

RT: 12.047 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

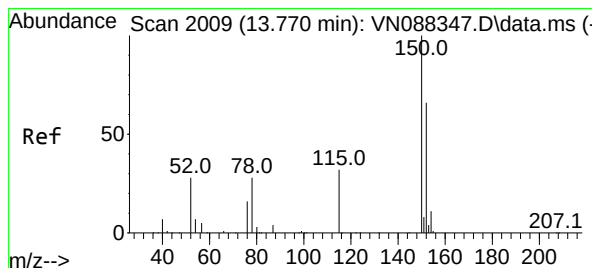
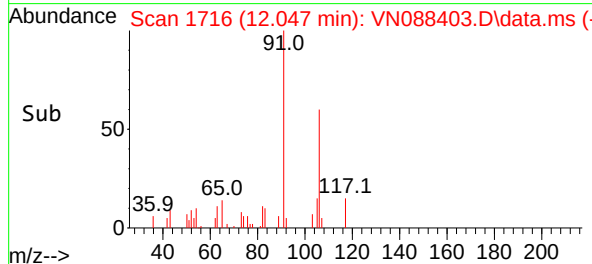
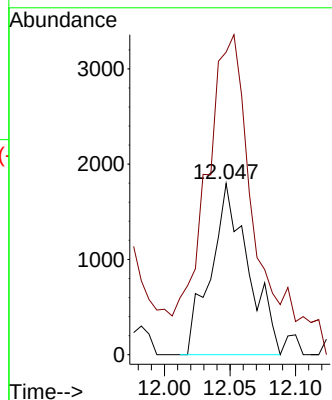
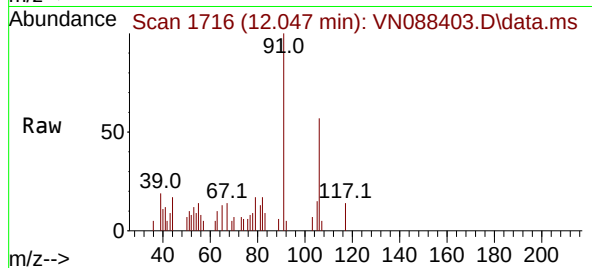
MW4

Tgt Ion:106 Resp: 3559

Ion Ratio Lower Upper

106 100

91 250.6 167.8 251.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

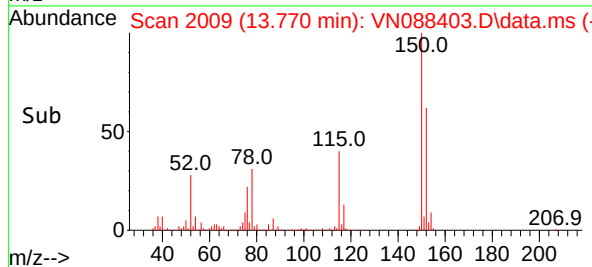
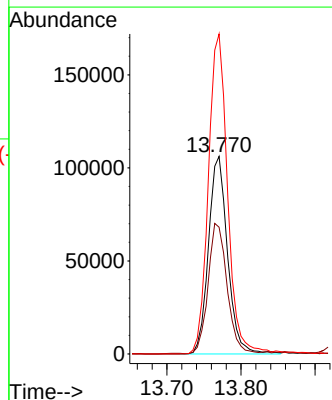
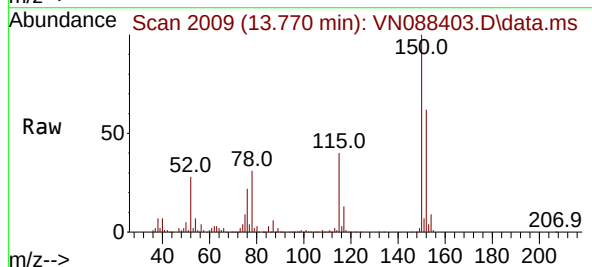
Tgt Ion:152 Resp: 190700

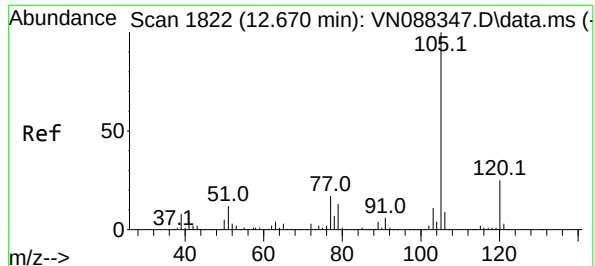
Ion Ratio Lower Upper

152 100

115 65.3 33.0 98.9

150 163.7 0.0 349.0





#73

Isopropylbenzene

Concen: 3.316 ug/l

RT: 12.671 min Scan# 1822

Delta R.T. 0.000 min

Lab File: VN088403.D

Acq: 02 Dec 2025 12:35

Instrument :

MSVOA_N

ClientSampleId :

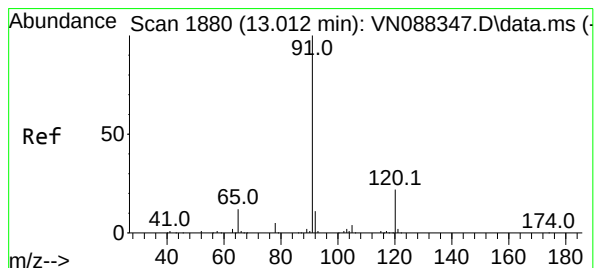
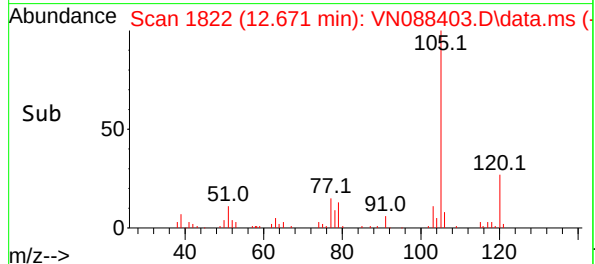
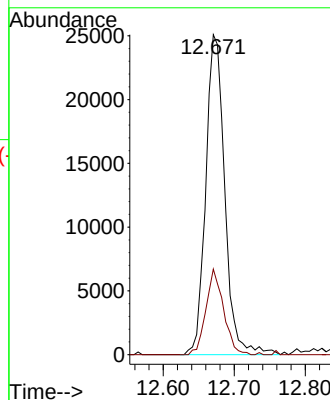
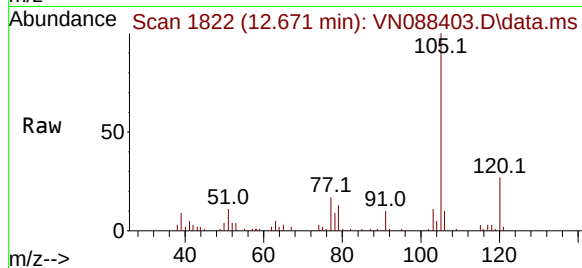
MW4

Tgt Ion:105 Resp: 46759

Ion Ratio Lower Upper

105 100

120 24.8 12.8 38.3



#78

n-propylbenzene

Concen: 11.346 ug/l

RT: 13.012 min Scan# 1880

Delta R.T. 0.000 min

Lab File: VN088403.D

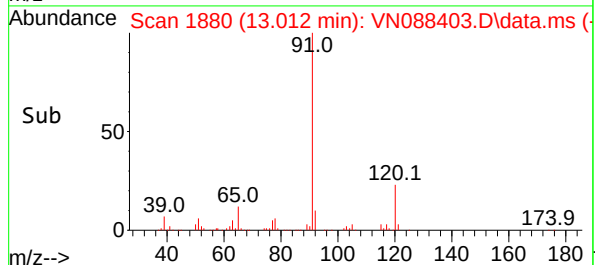
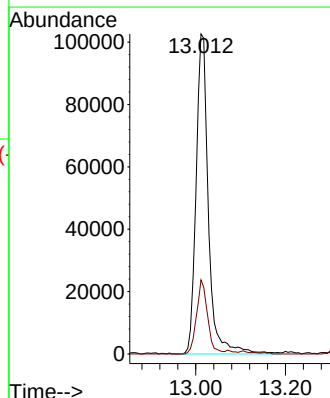
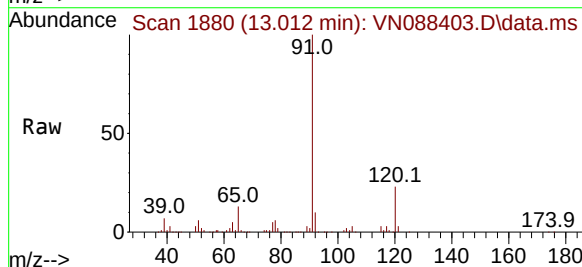
Acq: 02 Dec 2025 12:35

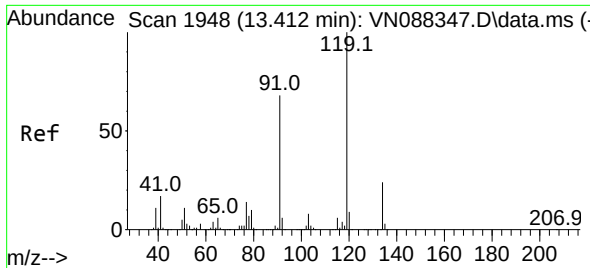
Tgt Ion: 91 Resp: 195714

Ion Ratio Lower Upper

91 100

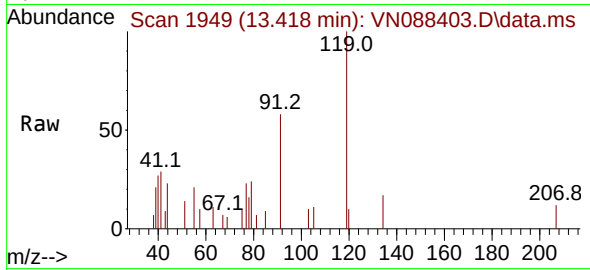
120 20.5 10.9 32.6



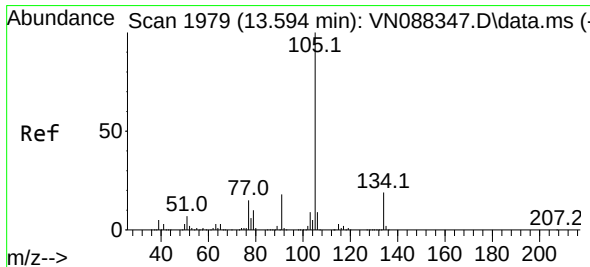
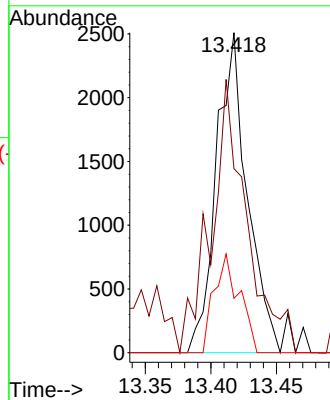
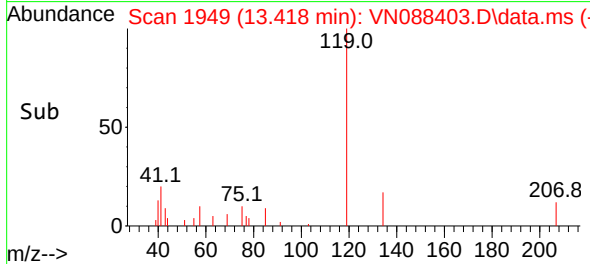


#83
tert-Butylbenzene
Concen: 0.415 ug/l
RT: 13.418 min Scan# 1948
Delta R.T. 0.006 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Instrument :
MSVOA_N
ClientSampleId :
MW4

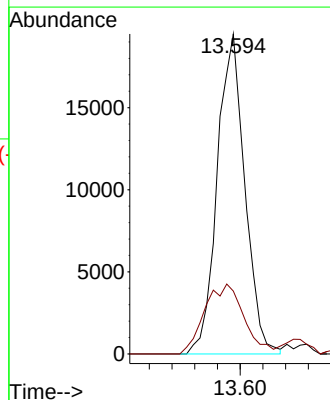
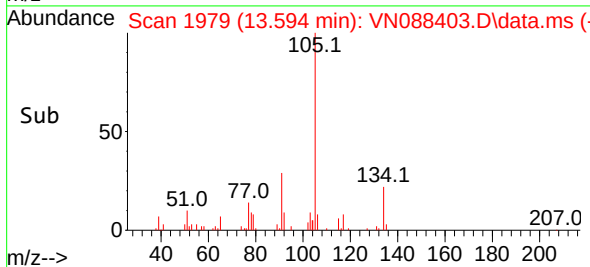
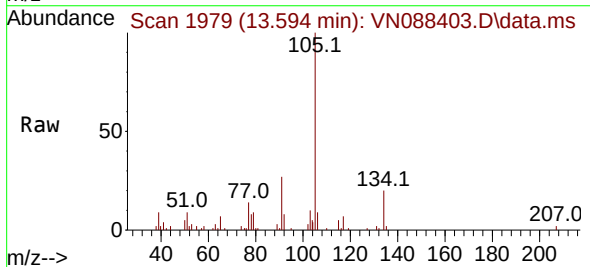


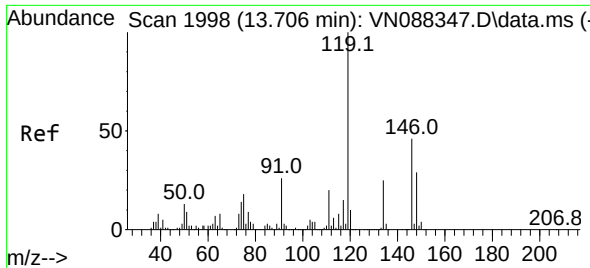
Tgt Ion:119 Resp: 4118
Ion Ratio Lower Upper
119 100
91 98.0 35.1 105.3
134 25.1 12.8 38.4



#85
sec-Butylbenzene
Concen: 2.304 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion:105 Resp: 32868
Ion Ratio Lower Upper
105 100
134 31.1 9.5 28.5#

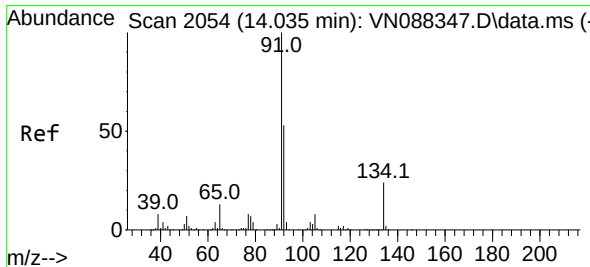
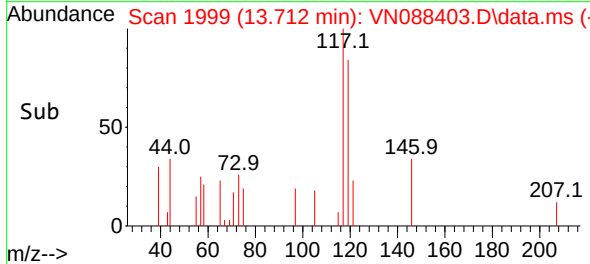
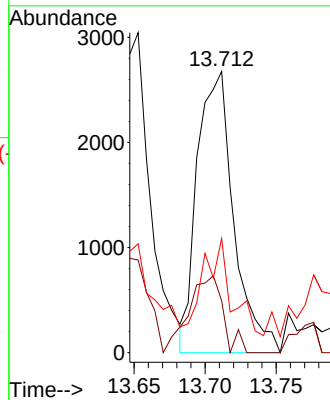
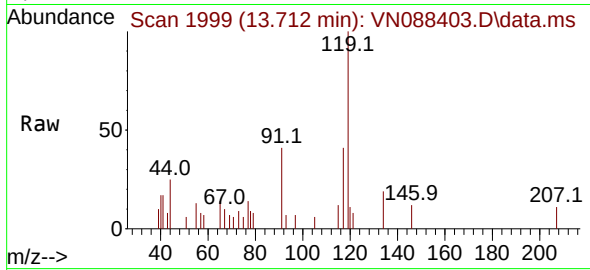




#86
p-Isopropyltoluene
Concen: 0.408 ug/l
RT: 13.712 min Scan# 1998
Delta R.T. 0.006 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

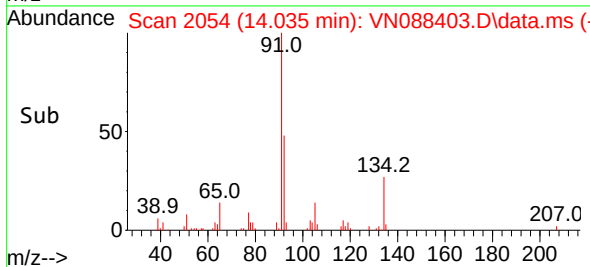
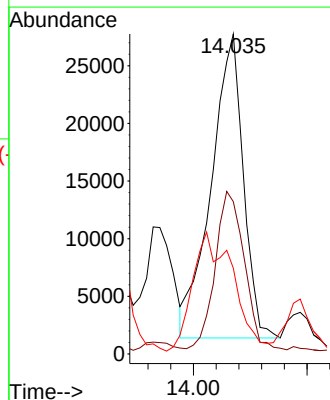
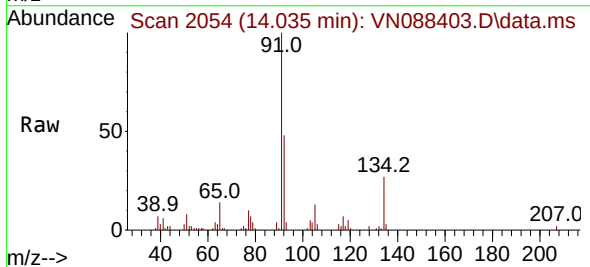
Instrument :
MSVOA_N
ClientSampleId :
MW4

Tgt Ion:	119	Resp:	4768
Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.2	36.6
91	26.3	13.0	39.0



#89
n-Butylbenzene
Concen: 4.554 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN088403.D
Acq: 02 Dec 2025 12:35

Tgt Ion:	91	Resp:	51730
Ion	Ratio	Lower	Upper
91	100		
92	48.0	26.1	78.3
134	0.0	11.7	35.1



5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW4

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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\82N112425W.M
Title : SW846 8260

Signal : TIC: VN088403.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.536	94	99	104	rVB2	14115	22289	1.21%	0.085%
2	3.271	214	224	236	rBV	157676	385085	20.83%	1.470%
3	3.659	279	290	302	rBV2	146147	388064	20.99%	1.482%
4	4.424	409	420	432	rVB5	13564	51530	2.79%	0.197%
5	5.330	550	574	589	rBV	192777	868031	46.95%	3.314%
6	5.794	640	653	654	rBV	142750	258579	13.99%	0.987%
7	6.300	727	739	752	rBV3	94607	297189	16.07%	1.135%
8	6.636	788	796	808	rVB3	28331	83588	4.52%	0.319%
9	6.789	810	822	831	rBV7	11762	40723	2.20%	0.155%
10	7.065	858	869	879	rBV7	17588	61252	3.31%	0.234%
11	7.212	882	894	900	rBV3	13455	38993	2.11%	0.149%
12	7.312	900	911	925	rBV2	273925	801021	43.33%	3.059%
13	7.812	985	996	1004	rBV5	6924	20047	1.08%	0.077%
14	7.912	1004	1013	1019	rBV5	15286	39764	2.15%	0.152%
15	7.988	1020	1026	1034	rVB3	22906	56561	3.06%	0.216%
16	8.147	1043	1053	1057	rBV	202852	495043	26.78%	1.890%
17	8.206	1057	1063	1076	rVV2	388049	1332794	72.09%	5.089%
18	8.306	1076	1080	1090	rVB3	76659	188618	10.20%	0.720%
19	8.424	1090	1100	1107	rBV3	126485	305401	16.52%	1.166%
20	8.494	1107	1112	1116	rVV4	51623	116011	6.28%	0.443%
21	8.559	1116	1123	1136	rVV2	238593	597890	32.34%	2.283%
22	8.700	1138	1147	1153	rVV5	144358	366040	19.80%	1.398%
23	8.771	1153	1159	1164	rVV2	145476	337161	18.24%	1.287%
24	8.835	1164	1170	1179	rVV	190953	433962	23.47%	1.657%
25	8.941	1179	1188	1197	rVB5	46596	120299	6.51%	0.459%
26	9.082	1202	1212	1226	rBV	608324	1405100	76.00%	5.365%
27	9.177	1226	1228	1234	rVV4	17831	28714	1.55%	0.110%
28	9.235	1234	1238	1245	rVV3	19651	37166	2.01%	0.142%
29	9.318	1245	1252	1256	rVV3	26468	58330	3.16%	0.223%
30	9.365	1256	1260	1269	rVB5	21579	44203	2.39%	0.169%
31	9.577	1281	1296	1312	rBV	778994	1848772	100.00%	7.059%
32	9.753	1312	1326	1334	rBV2	109005	227670	12.31%	0.869%
33	9.847	1334	1342	1348	rVB2	32243	65793	3.56%	0.251%
34	9.912	1348	1353	1355	rBV5	16222	26854	1.45%	0.103%
35	9.982	1361	1365	1375	rVB7	36058	77838	4.21%	0.297%
36	10.077	1375	1381	1387	rBV2	87910	169203	9.15%	0.646%

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW4

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\82N112425W.M
Title : SW846 8260

37	10.130	1387	1390	1394	rVV4	22993	42687	2.31%	0.163%
38	10.177	1394	1398	1402	rVV6	23121	45304	2.45%	0.173%
39	10.212	1402	1404	1413	rVB8	15899	34961	1.89%	0.133%
40	10.312	1413	1421	1429	rBV5	33962	81255	4.40%	0.310%

41	10.429	1434	1441	1446	rBV3	48616	100011	5.41%	0.382%
42	10.541	1452	1460	1478	rBV	930337	1837721	99.40%	7.017%
43	10.729	1484	1492	1498	rBV5	68709	172417	9.33%	0.658%
44	10.818	1505	1507	1513	rVB5	15103	24465	1.32%	0.093%
45	10.888	1513	1519	1525	rBV2	72258	138805	7.51%	0.530%

46	10.959	1525	1531	1542	rVB5	83868	235003	12.71%	0.897%
47	11.053	1542	1547	1554	rVB9	10221	24405	1.32%	0.093%
48	11.135	1554	1561	1567	rBV7	7785	21033	1.14%	0.080%
49	11.229	1572	1577	1581	rBV8	21637	43965	2.38%	0.168%
50	11.276	1581	1585	1588	rVV3	24449	36786	1.99%	0.140%

51	11.318	1588	1592	1595	rVV5	27581	48274	2.61%	0.184%
52	11.353	1595	1598	1601	rVV4	38901	66387	3.59%	0.253%
53	11.394	1601	1605	1610	rVV2	68101	121568	6.58%	0.464%
54	11.441	1610	1613	1619	rVB3	16352	29482	1.59%	0.113%
55	11.547	1627	1631	1637	rVB5	14714	25805	1.40%	0.099%

56	11.653	1639	1649	1657	rBV8	16391	41585	2.25%	0.159%
57	11.771	1662	1669	1673	rBV6	9021	18898	1.02%	0.072%
58	11.841	1673	1681	1693	rBV	779098	1457459	78.83%	5.565%
59	11.941	1693	1698	1707	rVB2	64657	125524	6.79%	0.479%
60	12.094	1719	1724	1732	rVB9	16452	40799	2.21%	0.156%

61	12.553	1788	1802	1806	rBV9	14982	44303	2.40%	0.169%
62	12.671	1817	1822	1829	rVB2	66545	111559	6.03%	0.426%
63	12.829	1840	1849	1858	rBV	530941	1010609	54.66%	3.859%
64	13.012	1874	1880	1889	rBV	224532	401347	21.71%	1.532%
65	13.312	1923	1931	1939	rBV2	21945	46094	2.49%	0.176%

66	13.412	1941	1948	1954	rVB6	10707	23483	1.27%	0.090%
67	13.594	1970	1979	1984	rBV3	54705	132042	7.14%	0.504%
68	13.770	2001	2009	2021	rBV	733466	1337654	72.35%	5.108%
69	13.859	2021	2024	2029	rVB3	21431	29530	1.60%	0.113%
70	13.929	2029	2036	2039	rBV	201824	329377	17.82%	1.258%

71	13.970	2039	2043	2047	rVV	220970	396681	21.46%	1.515%
72	14.012	2047	2050	2059	rVV3	115003	287234	15.54%	1.097%
73	14.094	2059	2064	2069	rVB2	51757	86302	4.67%	0.330%
74	14.153	2071	2074	2081	rVB2	17427	30733	1.66%	0.117%
75	14.217	2081	2085	2092	rBV3	18114	27958	1.51%	0.107%

76	14.306	2093	2100	2106	rBV	558867	872938	47.22%	3.333%
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW4

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\82N112425W.M
Title : SW846 8260

77	14.370	2106	2111	2114	rVV	101623	168676	9.12%	0.644%
78	14.417	2114	2119	2126	rVB2	347089	605311	32.74%	2.311%
79	14.482	2126	2130	2138	rVB8	15323	22591	1.22%	0.086%
80	14.553	2138	2142	2146	rBV3	19692	27162	1.47%	0.104%
81	14.629	2147	2155	2162	rVB	309268	510097	27.59%	1.948%
82	14.706	2164	2168	2172	rBV2	33551	47709	2.58%	0.182%
83	14.853	2184	2193	2196	rBV3	25313	50412	2.73%	0.192%
84	14.900	2196	2201	2207	rBV	219636	388009	20.99%	1.482%
85	15.023	2213	2222	2228	rBV3	391119	961562	52.01%	3.672%
86	15.076	2228	2231	2239	rVB3	36553	77701	4.20%	0.297%
87	15.182	2245	2249	2253	rBV4	21521	33922	1.83%	0.130%
88	15.288	2256	2267	2272	rVV2	138409	356871	19.30%	1.363%
89	15.335	2272	2275	2280	rVV3	67565	115778	6.26%	0.442%
90	15.412	2280	2288	2296	rVB3	123756	325722	17.62%	1.244%
91	15.559	2307	2313	2319	rVB8	15974	36578	1.98%	0.140%
92	15.670	2326	2332	2336	rBV3	25289	50933	2.75%	0.194%
93	15.723	2336	2341	2344	rBV5	30868	57681	3.12%	0.220%
94	15.917	2365	2374	2382	rBV3	59914	130976	7.08%	0.500%
95	16.094	2397	2404	2408	rBV3	40791	97158	5.26%	0.371%
96	16.223	2421	2426	2432	rBV3	21669	43673	2.36%	0.167%
97	16.311	2433	2441	2452	rVB3	34908	97842	5.29%	0.374%
98	16.470	2459	2468	2477	rBV4	36688	96804	5.24%	0.370%
99	16.676	2495	2503	2508	rBV9	11067	28231	1.53%	0.108%
100	16.747	2508	2515	2522	rBV2	75601	180120	9.74%	0.688%

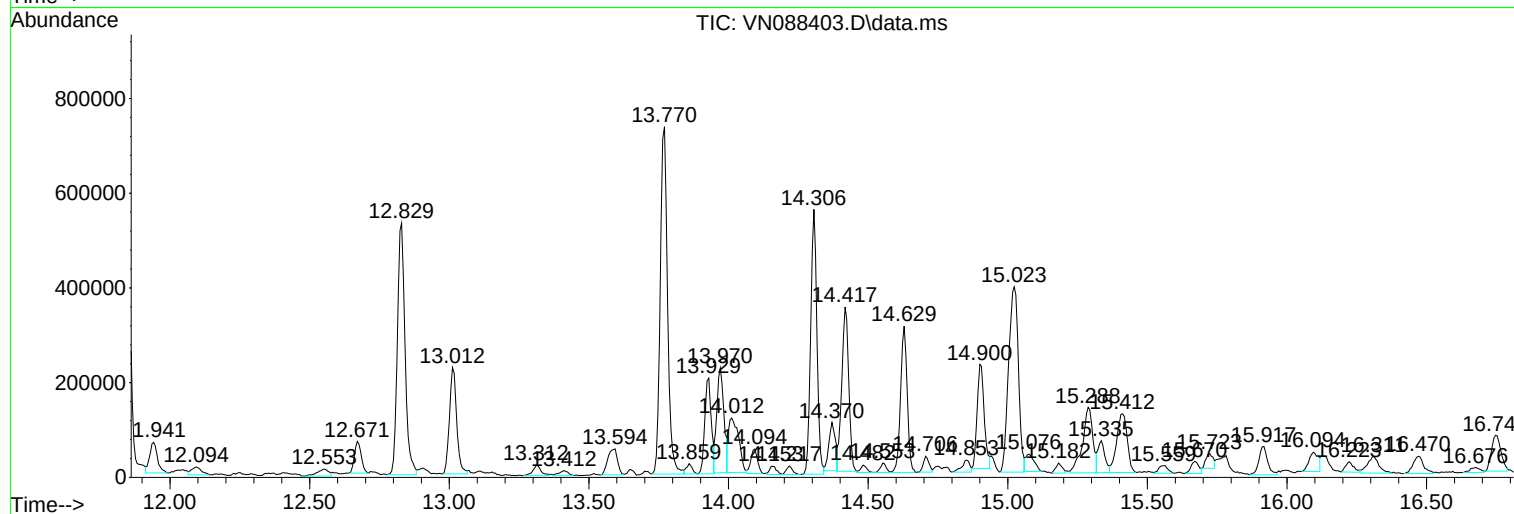
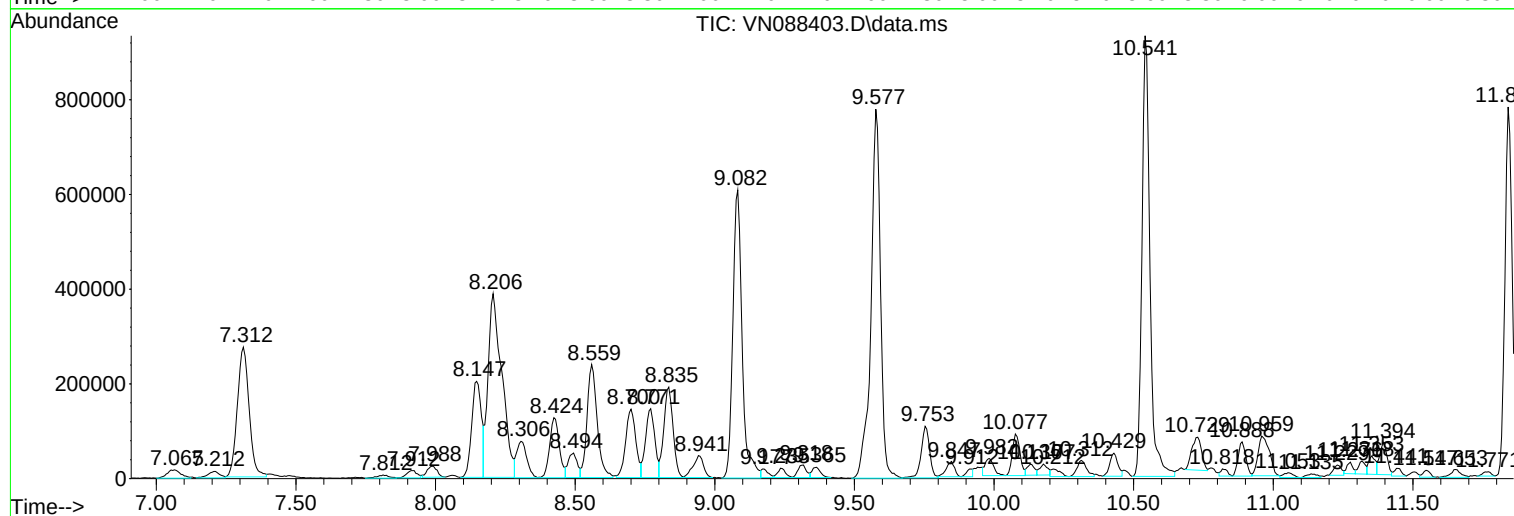
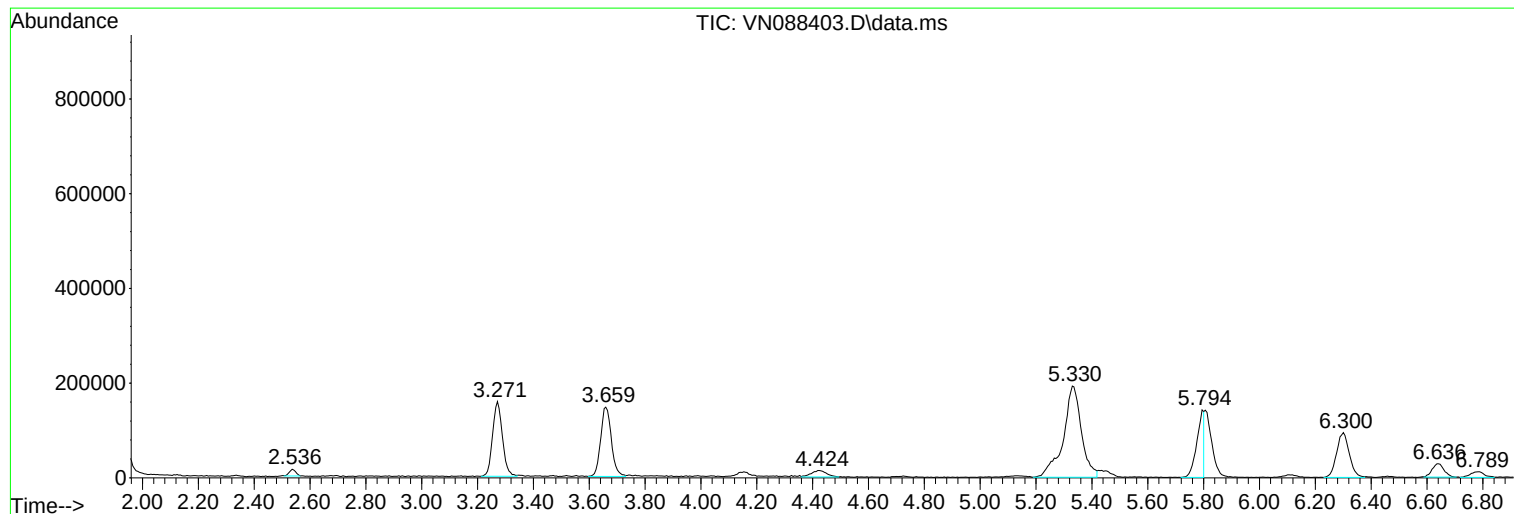
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Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
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Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

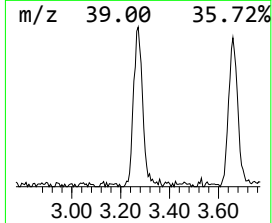
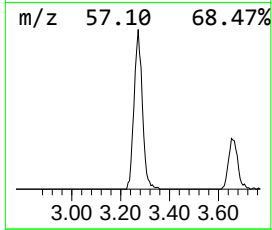
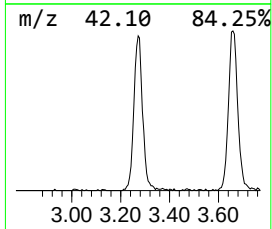
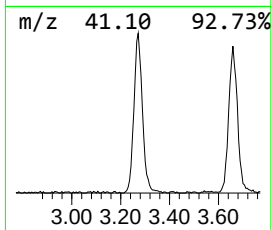
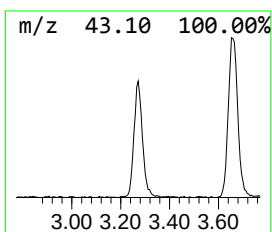
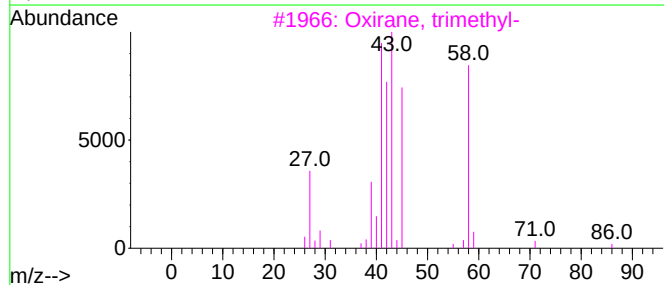
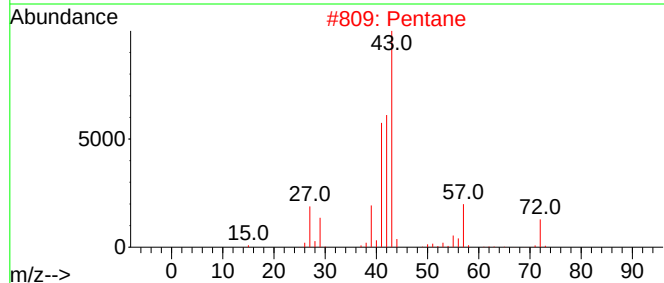
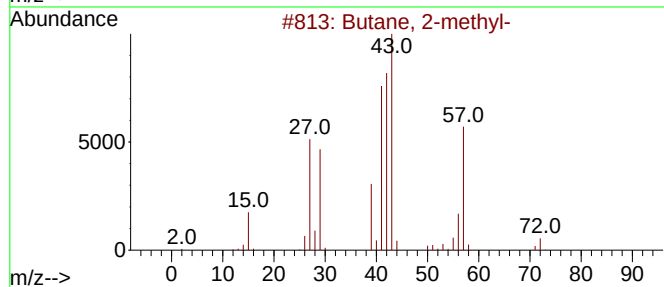
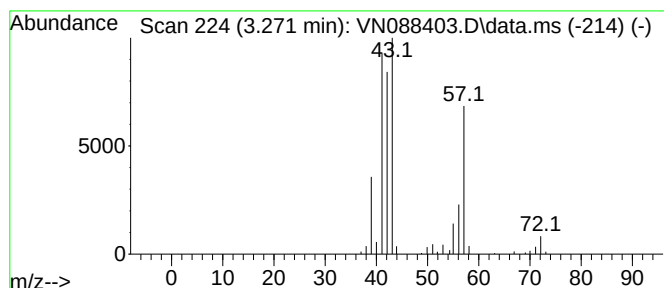
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MSVOA_N
ClientSampleId :
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

Peak Number 1 Butane, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
3.271	14.45 ug/l	385085	Pentafluorobenzene	8.206	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Pentane	72	C5H12	000109-66-0	42
3	Oxirane, trimethyl-	86	C5H10O	005076-19-7	38
4	3-Buten-1-ol	72	C4H8O	000627-27-0	28
5	Butane, 2-nitro-	103	C4H9NO2	000600-24-8	17



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW4

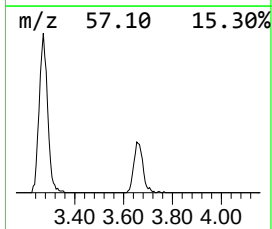
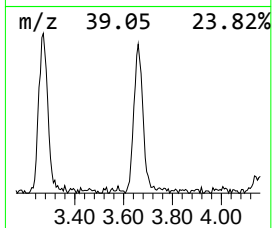
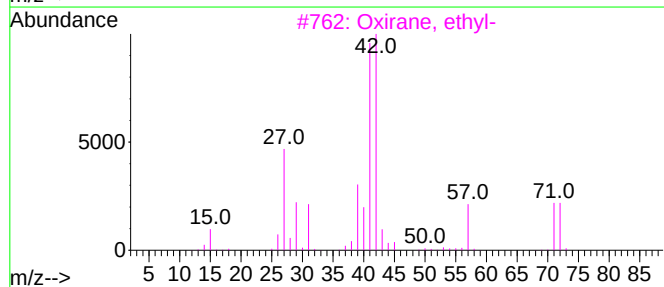
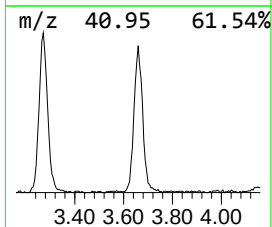
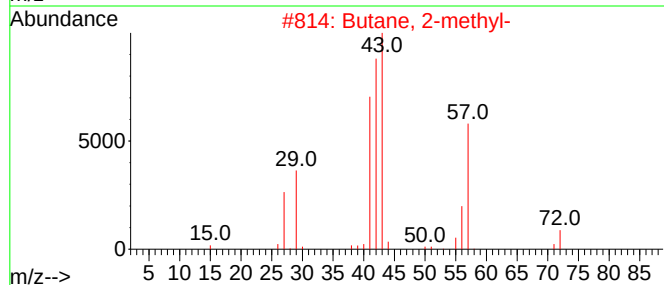
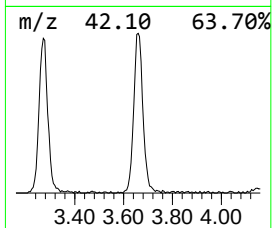
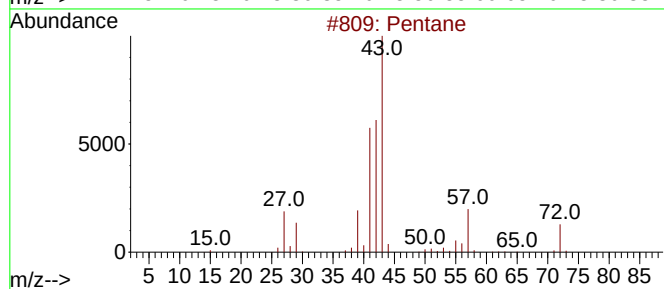
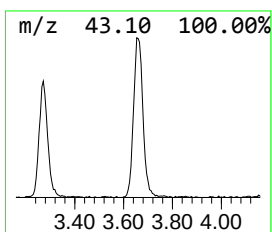
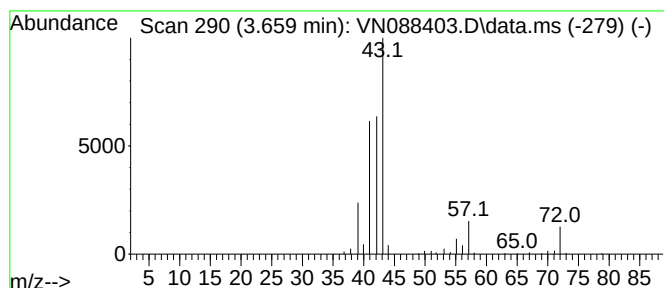
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Quant Title : SW846 8260

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

Peak Number 2 Pentane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.659	14.56 ug/l	388064	Pentafluorobenzene	8.206

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pentane	72	C5H12	000109-66-0	91
2		Butane, 2-methyl-	72	C5H12	000078-78-4	64
3		Oxirane, ethyl-	72	C4H8O	000106-88-7	40
4		1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	39
5		3-Buten-1-ol	72	C4H8O	000627-27-0	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
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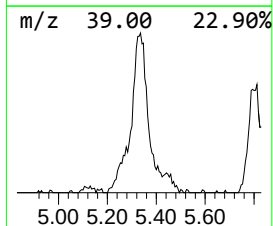
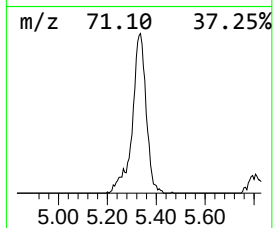
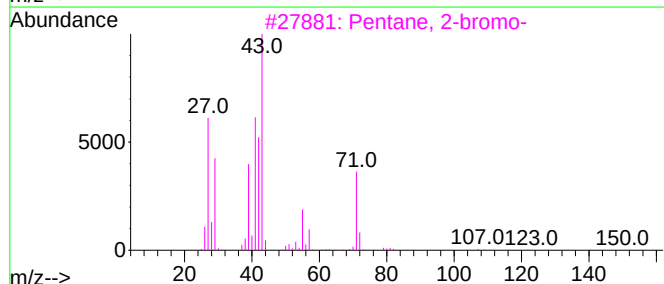
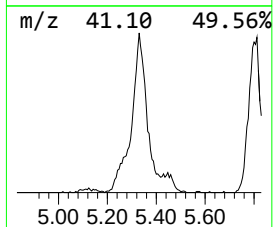
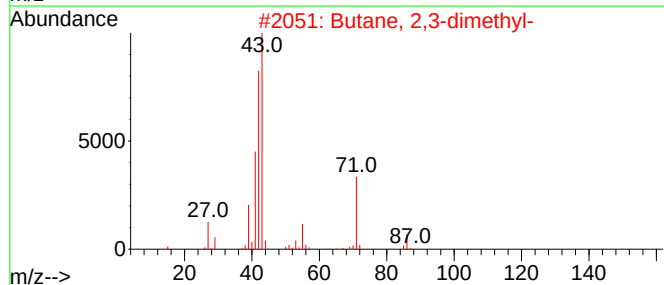
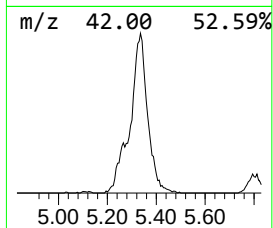
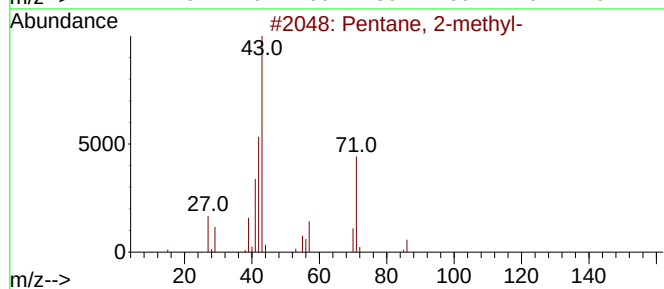
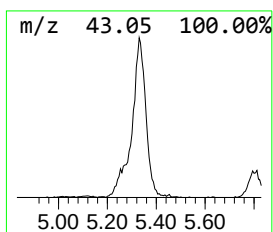
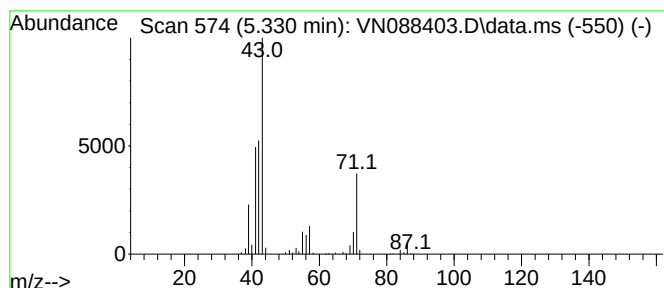
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Quant Title : SW846 8260

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

Peak Number 3 Pentane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.330	32.56 ug/l	868031	Pentafluorobenzene	8.206

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	90
2			Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	50
3			Pentane, 2-bromo-	150	C5H11Br	000107-81-3	38
4			N-Vinylformamide	71	C3H5NO	013162-05-5	37
5			C2H5C(CH3)2COCH3	114	C7H14O	020669-04-9	32



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
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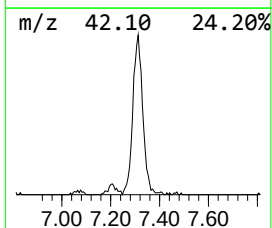
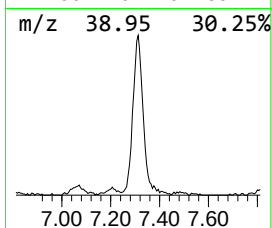
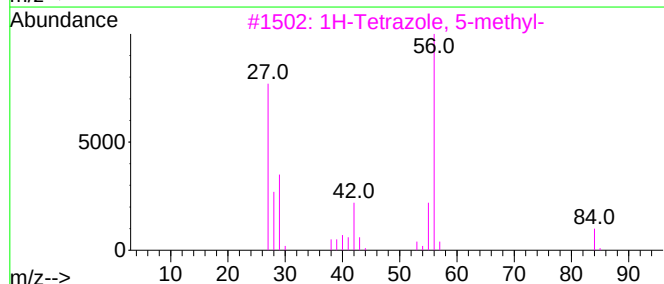
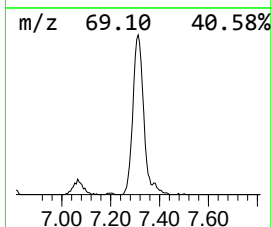
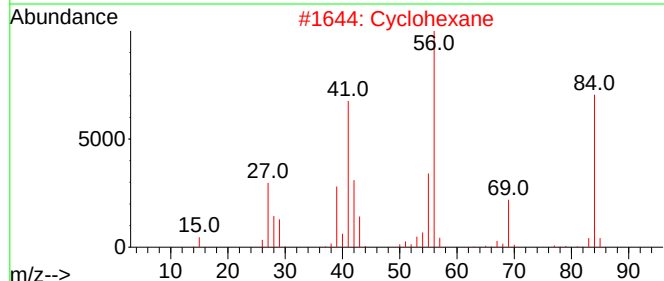
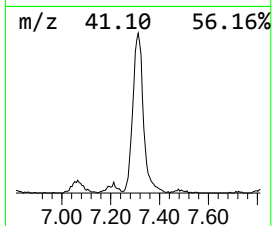
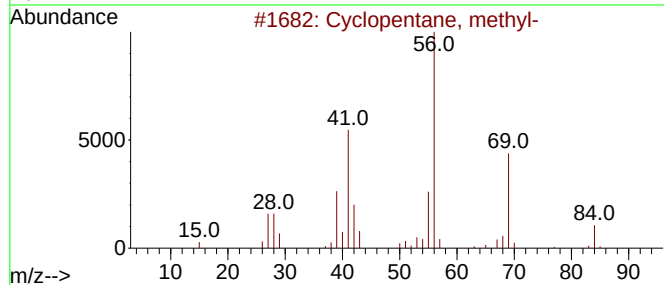
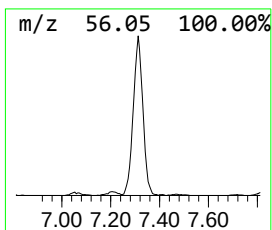
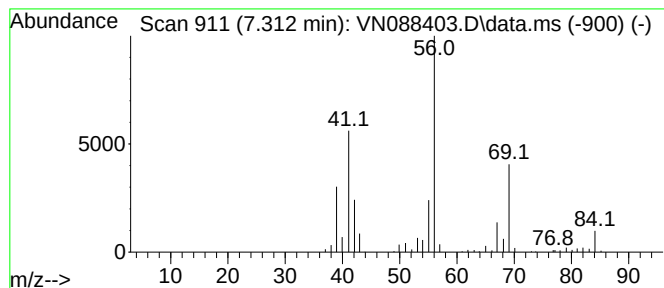
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Quant Title : SW846 8260

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

Peak Number 4 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.312	30.05 ug/l	801021	Pentafluorobenzene	8.206

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, methyl-	84	C6H12	000096-37-7	90
2			Cyclohexane	84	C6H12	000110-82-7	72
3			1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	64
4			Cyclobutane, ethyl-	84	C6H12	004806-61-5	59
5			Cyclobutane	56	C4H8	000287-23-0	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
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ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
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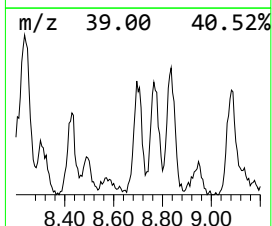
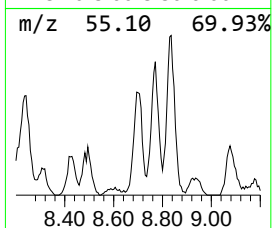
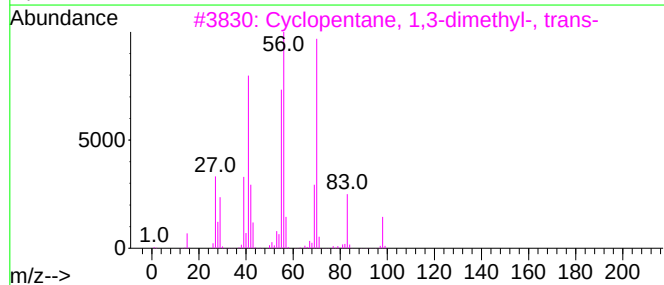
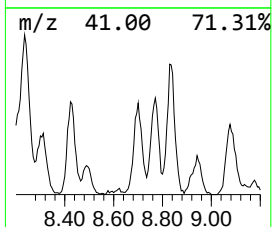
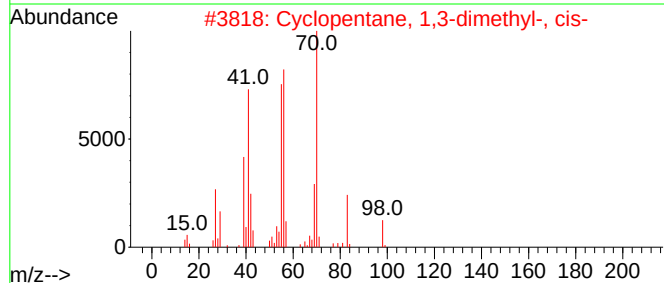
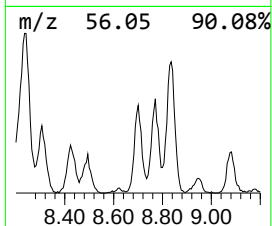
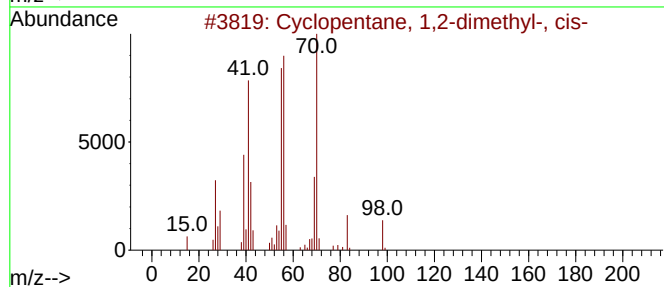
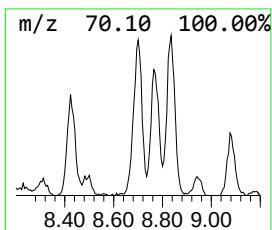
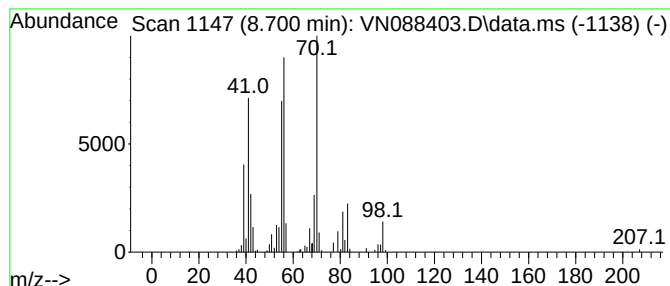
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Quant Title : SW846 8260

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

Peak Number 5 Cyclopentane, 1,2-dimethyl-... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.700	13.03 ug/l	366040	1,4-Difluorobenzene	9.082

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	95
2			Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	94
3			Cyclopentane, 1,3-dimethyl-, trans-	98	C7H14	001759-58-6	94
4			Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	93
5			Cycloheptane	98	C7H14	000291-64-5	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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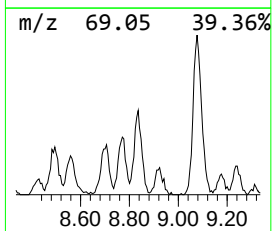
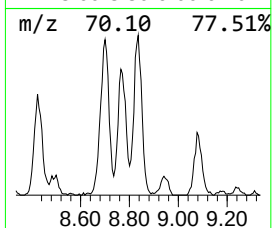
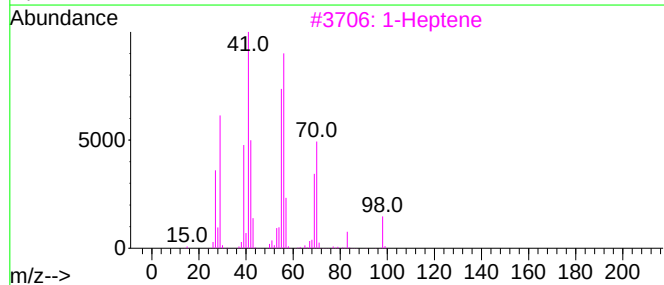
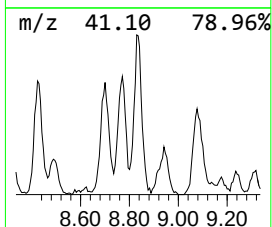
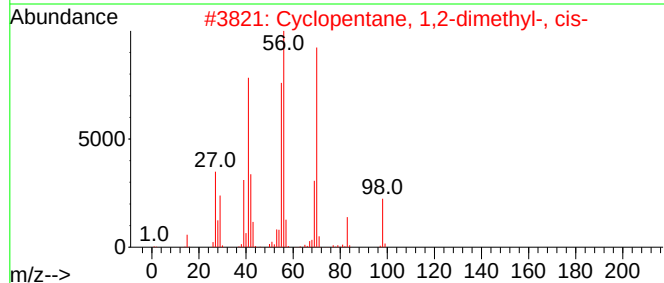
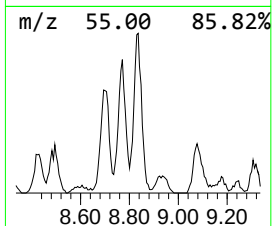
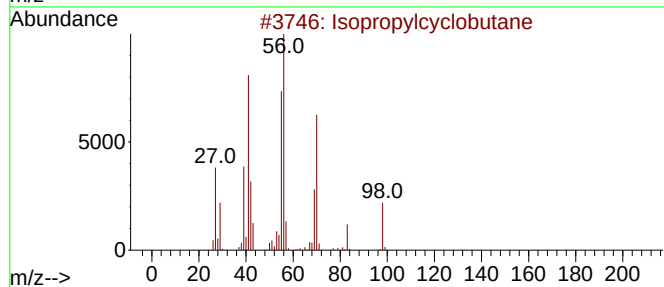
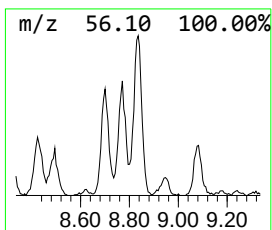
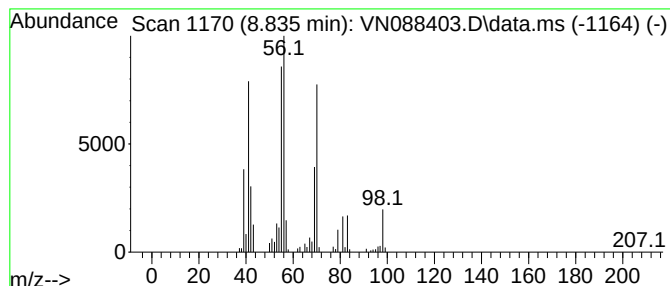
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Quant Title : SW846 8260

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

Peak Number 6 Isopropylcyclobutane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.835	15.44 ug/l	433962	1,4-Difluorobenzene	9.082

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Isopropylcyclobutane	98	C7H14	000872-56-0	94
2		Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	93
3		1-Heptene	98	C7H14	000592-76-7	83
4		Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	81
5		Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
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ALS Vial : 10 Sample Multiplier: 1

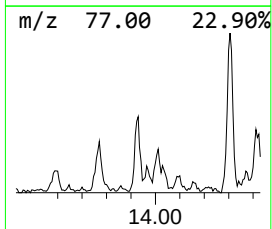
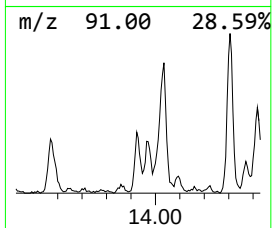
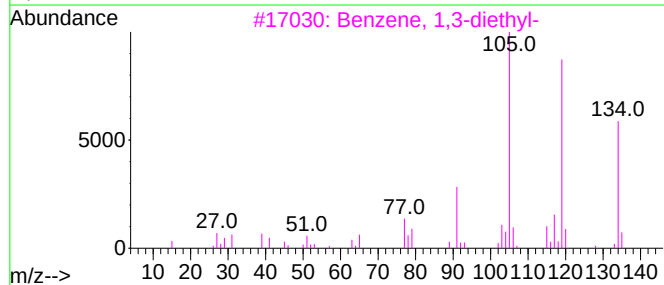
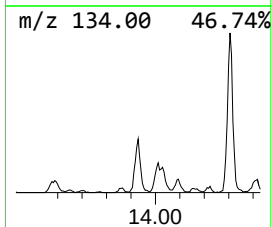
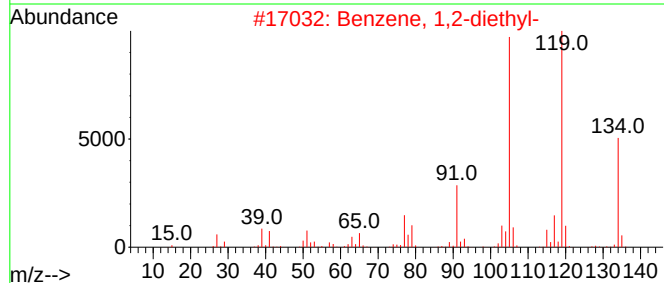
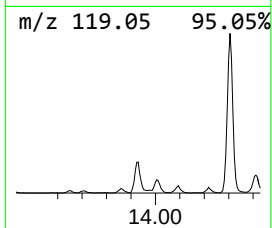
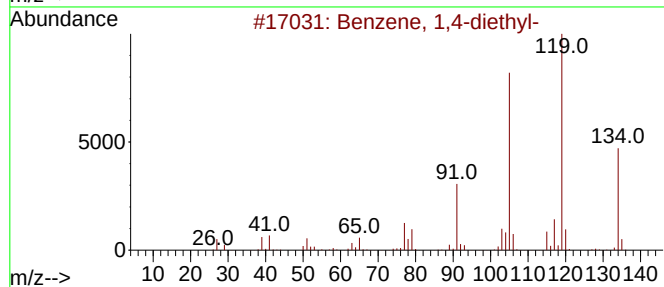
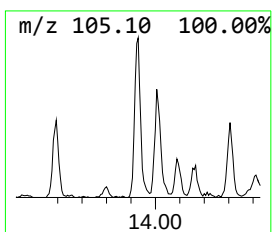
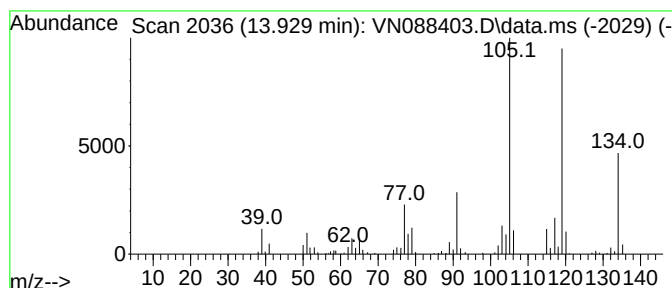
Instrument :
MSVOA_N
ClientSampleId :
MW4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

Peak Number 7 Benzene, 1,4-diethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.929	12.31 ug/l	329377	1,4-Dichlorobenzene-d4	13.770	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	97
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	96
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	93
4	2,6-Dimethyl-1,3,5,7-octatetraen...	134	C10H14	000460-01-5	87
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW4

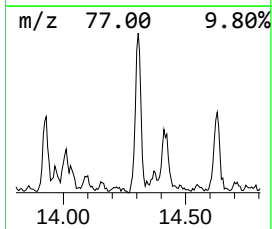
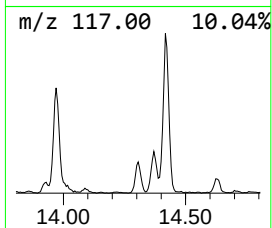
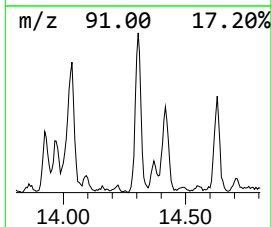
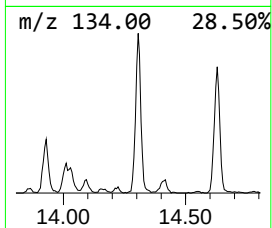
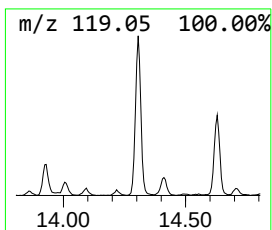
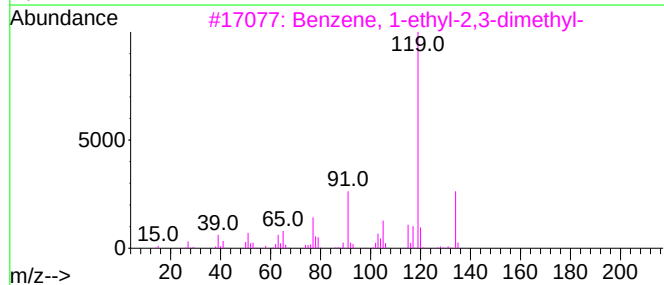
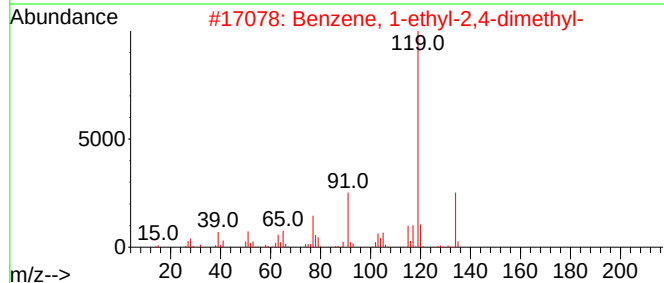
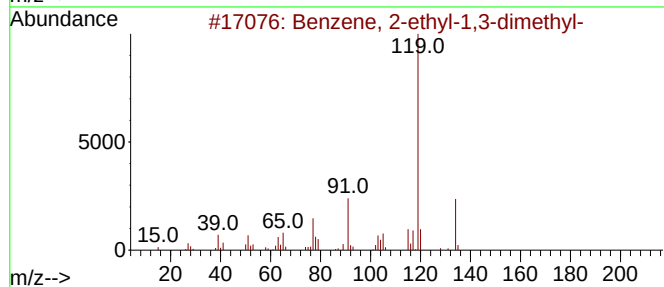
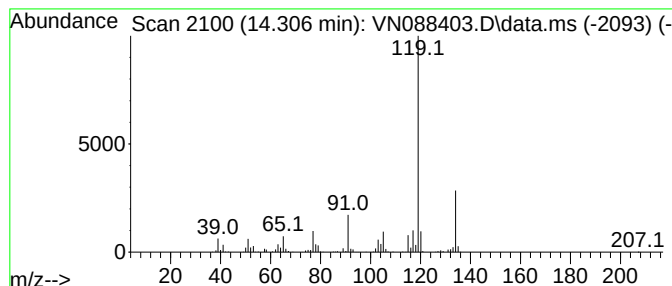
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Quant Title : SW846 8260

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

Peak Number 9 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.306	32.63 ug/l	872938	1,4-Dichlorobenzene-d4	13.770

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
2		Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	95
3		Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
4		o-Cymene	134	C10H14	000527-84-4	94
5		Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
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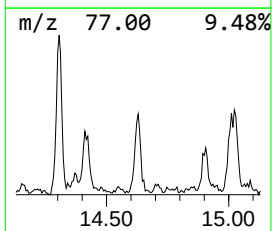
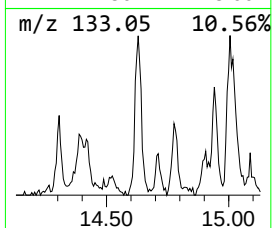
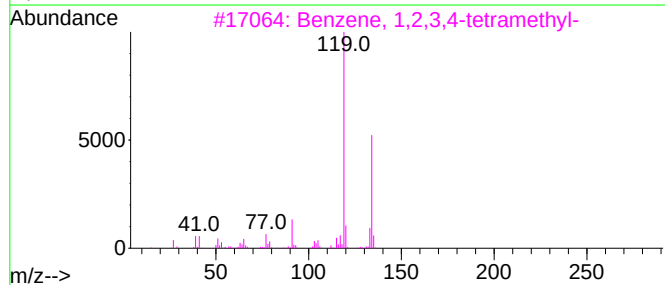
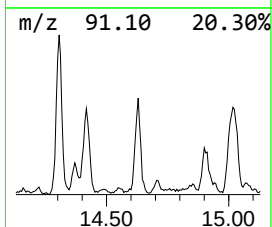
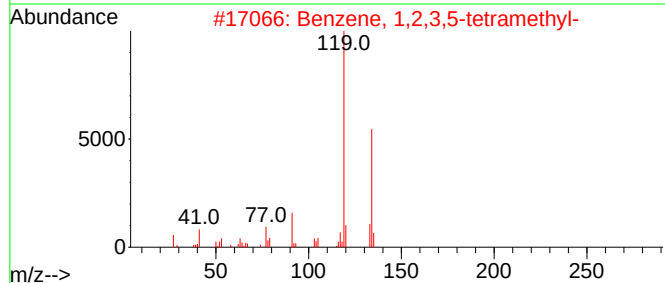
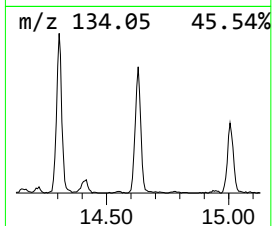
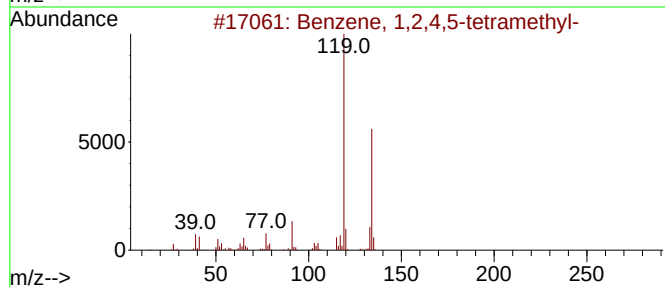
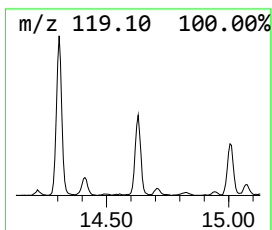
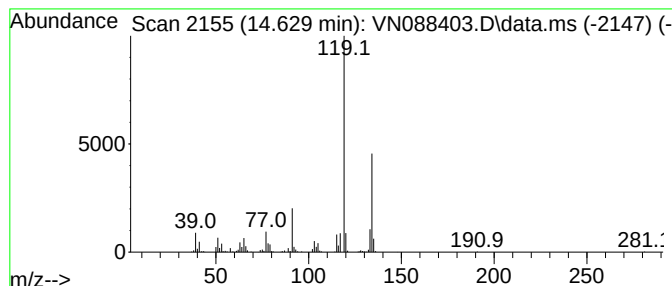
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Quant Title : SW846 8260

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

Peak Number 11 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.629	19.07 ug/l	510097	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
2			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
3			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
4			1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	93
5			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

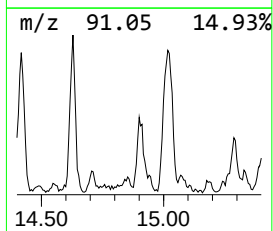
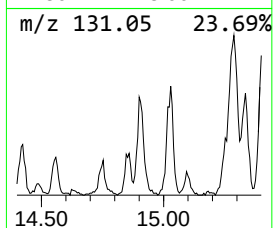
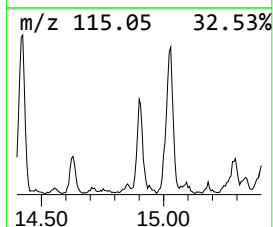
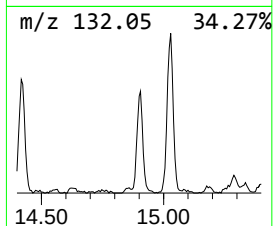
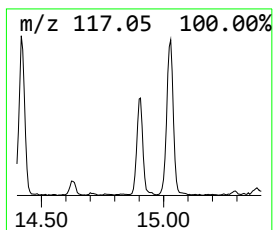
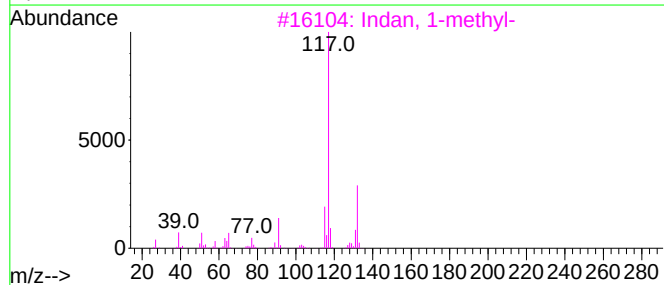
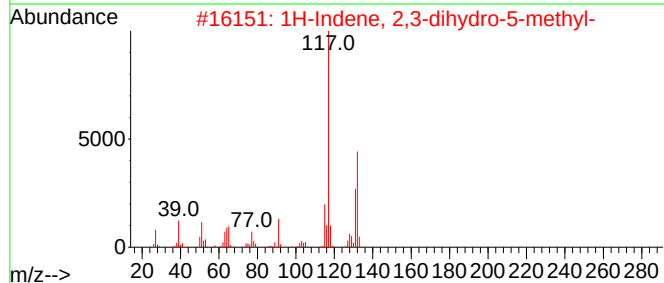
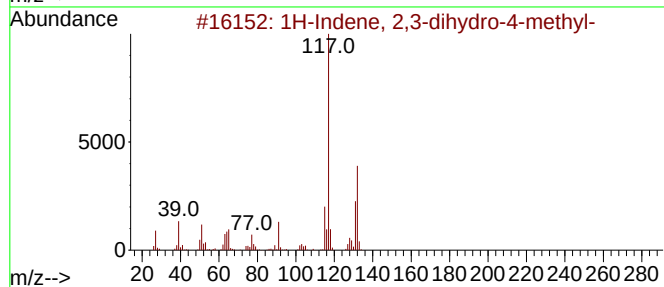
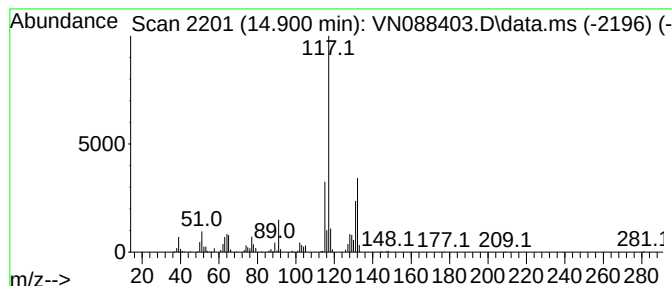
Instrument :
MSVOA_N
ClientSampleId :
MW4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

Peak Number 12 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD			R.T.
14.900	14.50 ug/l	388009	1,4-Dichlorobenzene-d4			13.770
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4-methyl-		132	C10H12	000824-22-6	94
2	1H-Indene, 2,3-dihydro-5-methyl-		132	C10H12	000874-35-1	93
3	Indan, 1-methyl-		132	C10H12	000767-58-8	81
4	Benzene, 1-ethenyl-4-ethyl-		132	C10H12	003454-07-7	76
5	Benzene, 1-ethenyl-3-ethyl-		132	C10H12	007525-62-4	74



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW4

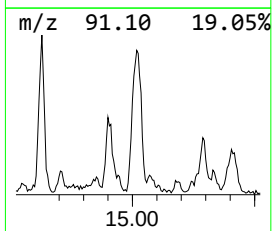
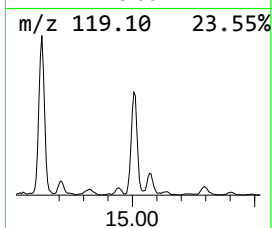
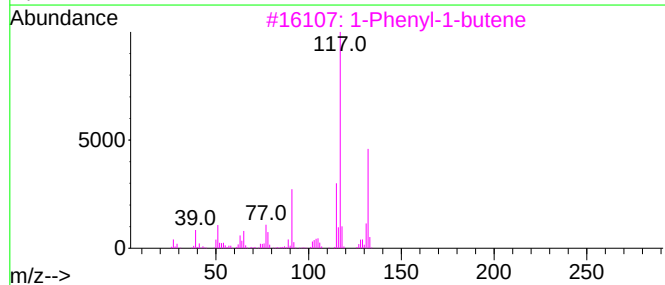
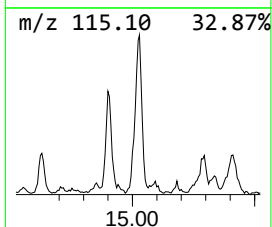
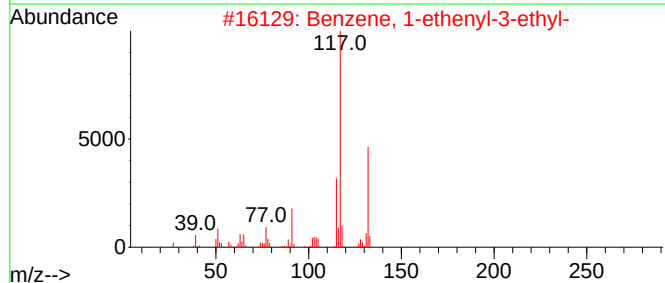
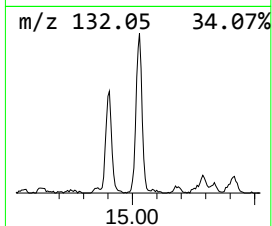
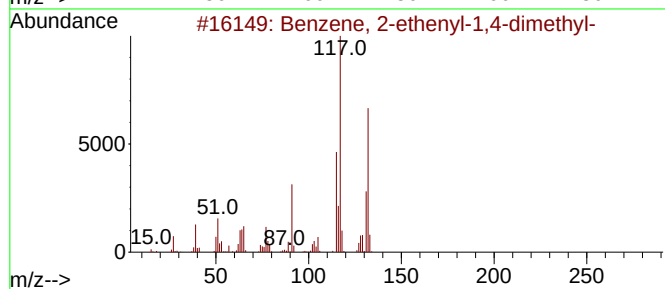
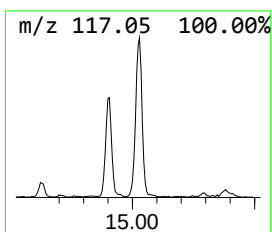
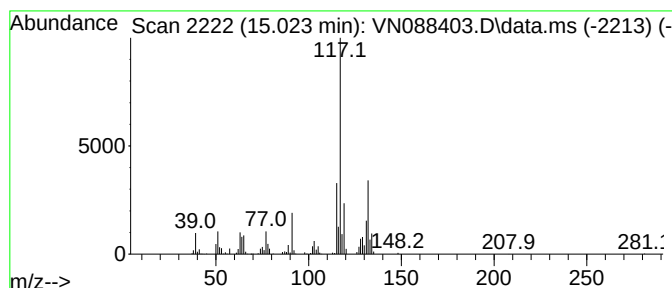
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Quant Title : SW846 8260

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

Peak Number 13 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.023	35.94 ug/l	961562	1,4-Dichlorobenzene-d4	13.770

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	92
2		Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	89
3		1-Phenyl-1-butene	132	C10H12	000824-90-8	81
4		Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	81
5		1-Methyl-2-phenylcyclopropane	132	C10H12	003145-76-4	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

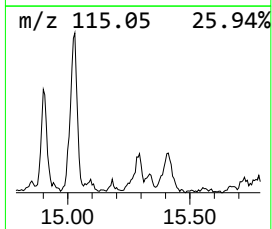
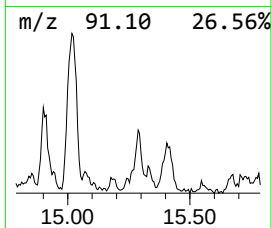
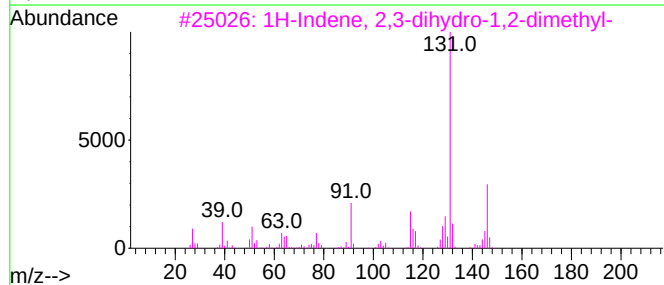
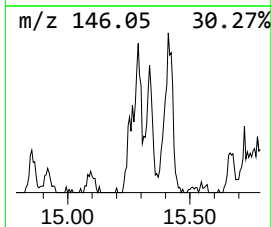
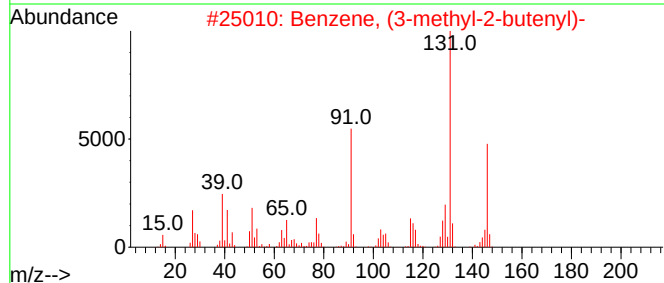
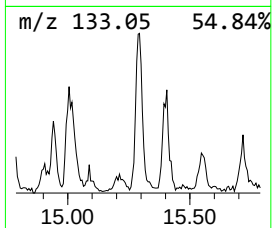
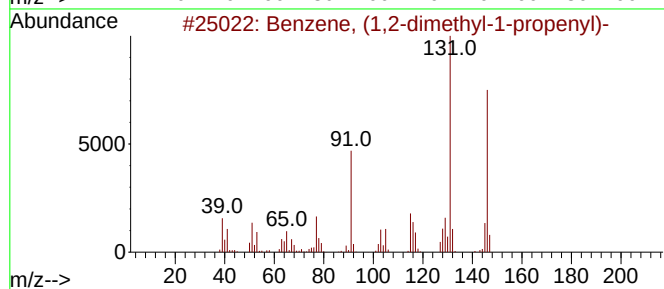
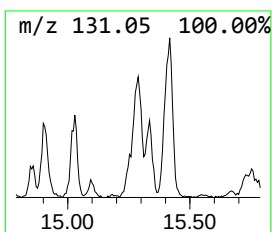
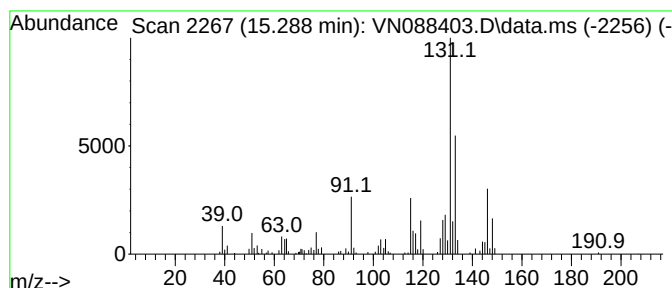
Instrument :
MSVOA_N
ClientSampleId :
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

Peak Number 14 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD			R.T.
15.288	13.34 ug/l	356871	1,4-Dichlorobenzene-d4			13.770
Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	94
2		Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	70
3		1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	70
4		1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	70
5		Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
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Operator : JC\MD
Sample : Q3738-01 4X
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ALS Vial : 10 Sample Multiplier: 1

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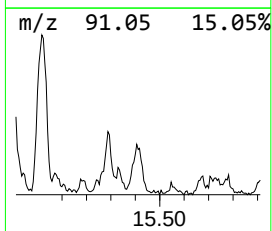
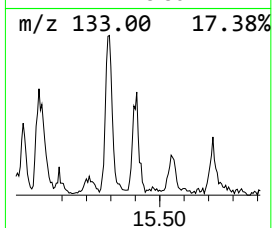
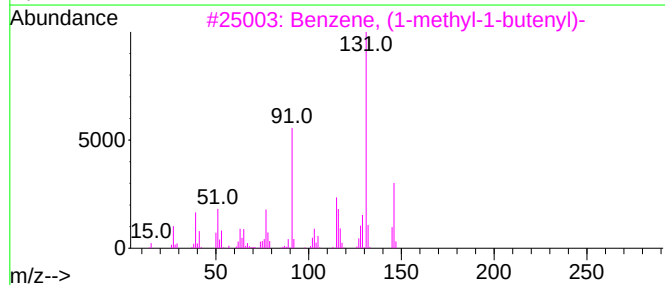
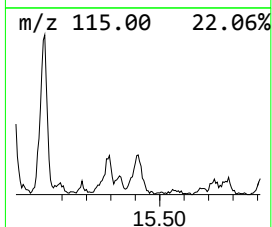
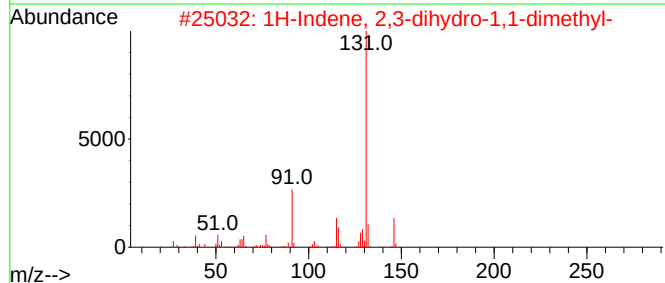
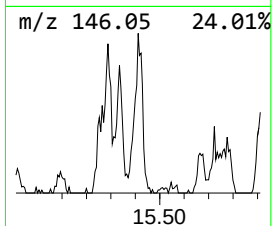
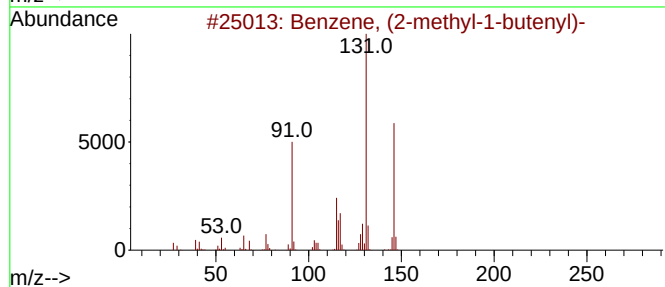
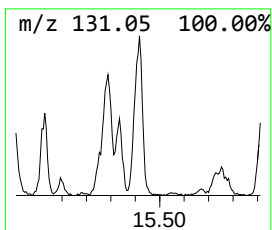
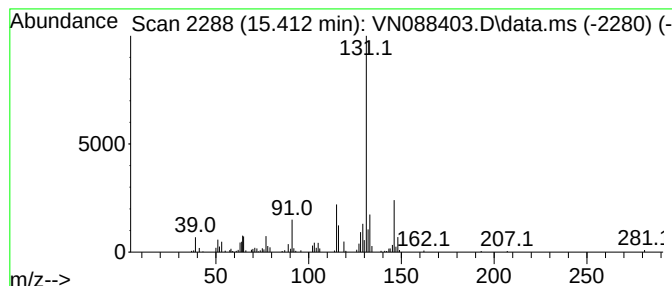
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 Benzene, (2-methyl-1-butenyl)- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.412	12.18 ug/l	325722	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	95
2			1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	87
3			Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	87
4			1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	87
5			2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	87



5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088403.D
Acq On : 02 Dec 2025 12:35
Operator : JC\MD
Sample : Q3738-01 4X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.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
Butane, 2-methyl-	3.271	14.4	ug/l	385085	1	8.206	1332790	50.0
Pentane	3.659	14.6	ug/l	388064	1	8.206	1332790	50.0
Pentane, 2-methyl-	5.330	32.6	ug/l	868031	1	8.206	1332790	50.0
Cyclopentane, m...	7.312	30.1	ug/l	801021	1	8.206	1332790	50.0
Cyclopentane, 1...	8.700	13.0	ug/l	366040	2	9.082	1405100	50.0
Isopropylcyclob...	8.835	15.4	ug/l	433962	2	9.082	1405100	50.0
Benzene, 1,4-di...	13.929	12.3	ug/l	329377	4	13.770	1337650	50.0
Benzene, 2-ethy...	14.306	32.6	ug/l	872938	4	13.770	1337650	50.0
Benzene, 1,2,4,...	14.629	19.1	ug/l	510097	4	13.770	1337650	50.0
1H-Indene, 2,3-...	14.900	14.5	ug/l	388009	4	13.770	1337650	50.0
Benzene, 2-ethe...	15.023	35.9	ug/l	961562	4	13.770	1337650	50.0
Benzene, (1,2-d...	15.288	13.3	ug/l	356871	4	13.770	1337650	50.0
Benzene, (2-met...	15.412	12.2	ug/l	325722	4	13.770	1337650	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088384.D
 Acq On : 01 Dec 2025 15:35
 Operator : JC\MD
 Sample : Q3738-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW5

Manual Integrations APPROVED

Reviewed By : John Carlone 12/02/2025
 Supervised By : Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:15:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	217967	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	497394	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	489259	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	246573	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	241790	58.886	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.780%			
35) Dibromofluoromethane	8.147	113	178029	51.649	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.300%			
50) Toluene-d8	10.541	98	658018	51.307	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.620%			
62) 4-Bromofluorobenzene	12.823	95	248976	56.578	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 113.160%			
Target Compounds						
					Qvalue	
31) Cyclohexane	8.241	56	540851	100.155	ug/l	97
39) Methylcyclohexane	9.576	83	622703	109.435	ug/l	96
40) Benzene	8.588	78	586094	37.538	ug/l	99
52) Toluene	10.612	92	36729	4.074	ug/l	94
67) Ethyl Benzene	11.941	91	77140	4.016	ug/l	93
68) m/p-Xylenes	12.047	106	39920	5.605	ug/l	90
69) o-Xylene	12.376	106	11871m	1.748	ug/l	
73) Isopropylbenzene	12.670	105	518465	28.438	ug/l	99
78) n-propylbenzene	13.012	91	1242004	55.686	ug/l	99
83) tert-Butylbenzene	13.412	119	14471	1.127	ug/l	95
84) 1,2,4-Trimethylbenzene	13.464	105	9005	0.600	ug/l	91
85) sec-Butylbenzene	13.594	105	131324	7.118	ug/l #	73
86) p-Isopropyltoluene	13.706	119	11708	0.774	ug/l	93
89) n-Butylbenzene	14.035	91	123015m	8.375	ug/l	

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

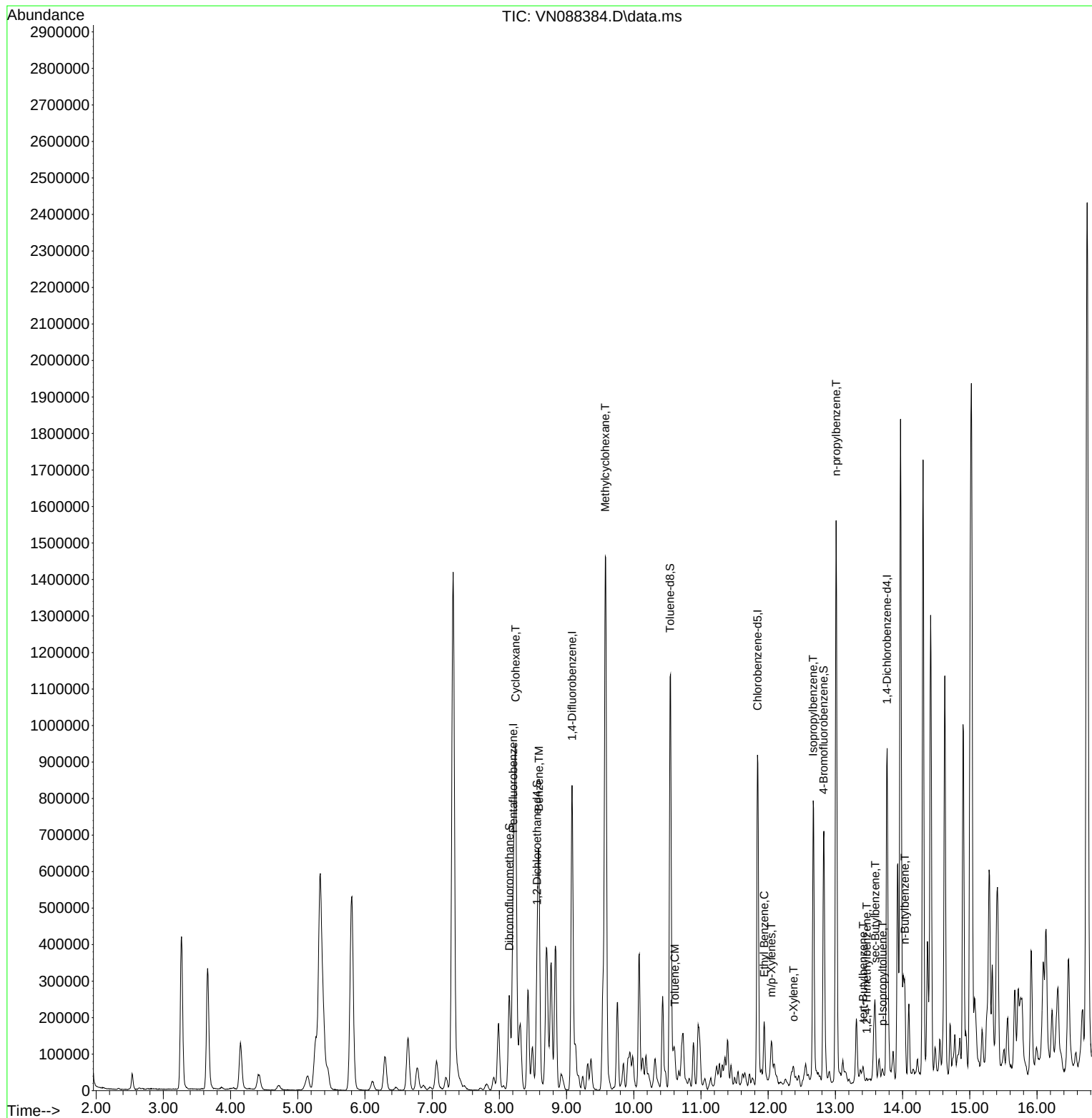
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Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

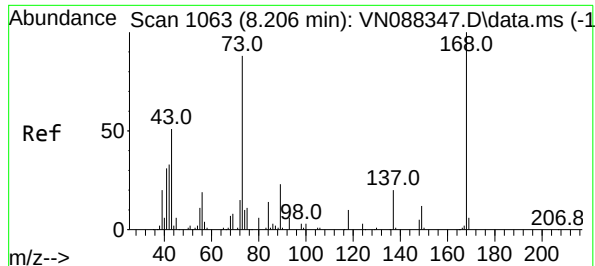
Instrument :
MSVOA_N
ClientSampleId :
MW5

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/02/2025
Supervised By : Mahesh Dadoda 12/02/2025

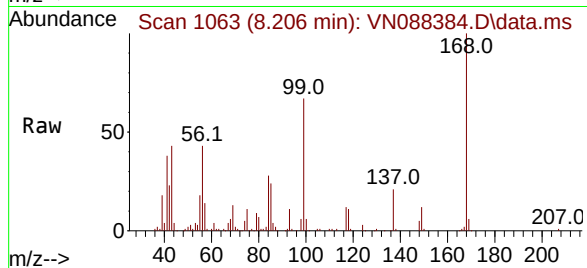
Quant Time: Dec 02 00:15:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

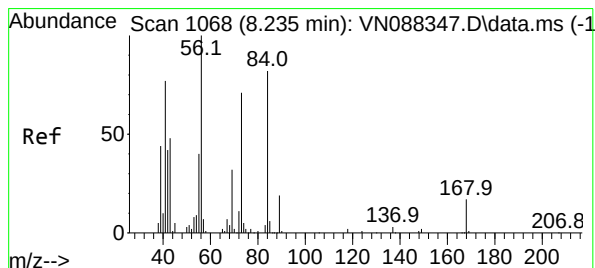
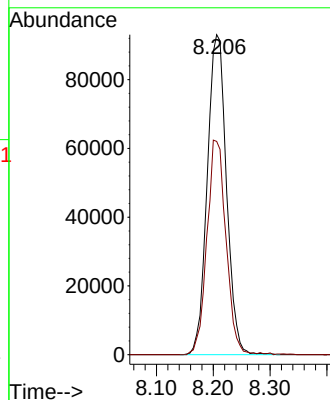
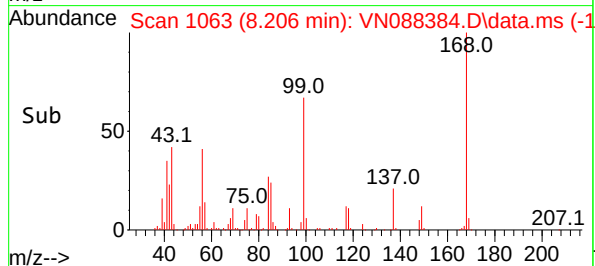
Instrument :
MSVOA_N
ClientSampleId :
MW5



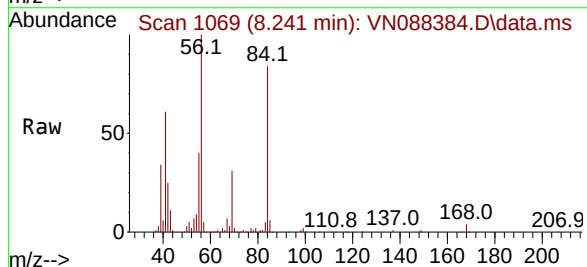
Tgt Ion: 168 Resp: 21796
Ion Ratio Lower Upper
168 100
99 66.6 57.1 85.7

Manual Integrations
APPROVED

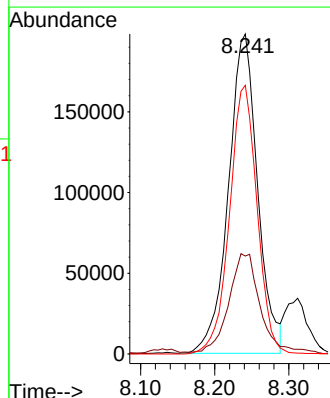
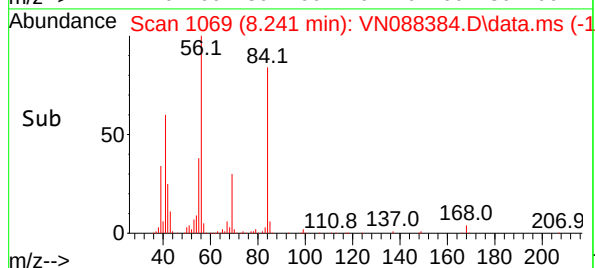
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

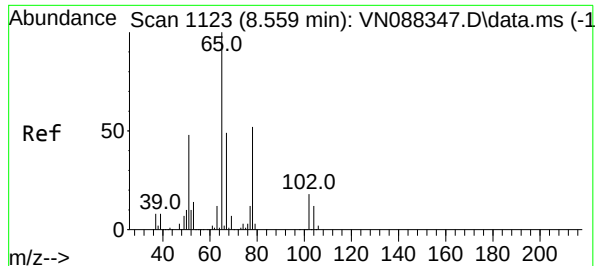


#31
Cyclohexane
Concen: 100.155 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35



Tgt Ion: 56 Resp: 540851
Ion Ratio Lower Upper
56 100
69 30.2 25.3 37.9
84 84.1 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 58.886 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

Tgt Ion: 65 Resp: 241790

Ion Ratio Lower Upper

65 100

67 50.8 0.0 100.8

Instrument :

MSVOA_N

ClientSampleId :

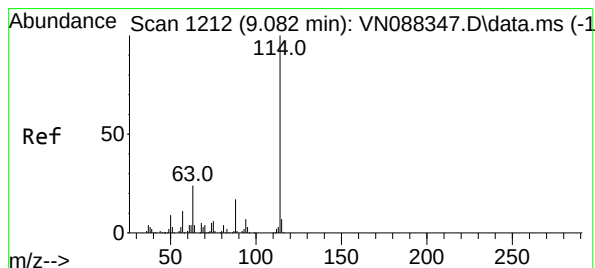
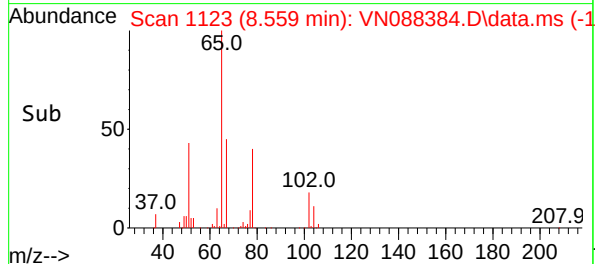
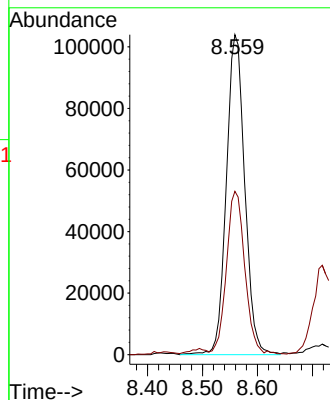
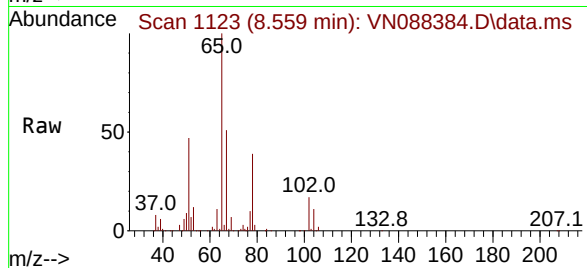
MW5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

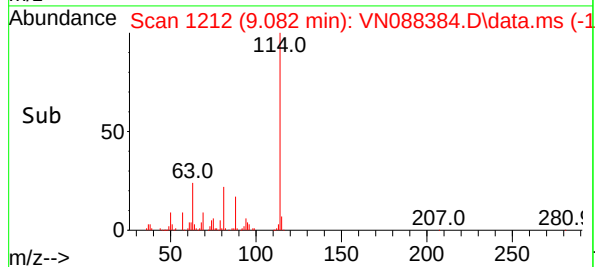
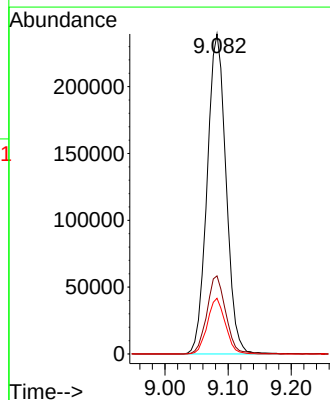
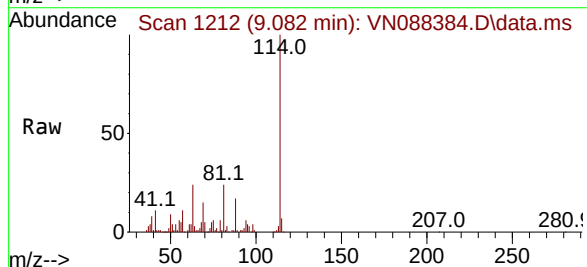
Tgt Ion:114 Resp: 497394

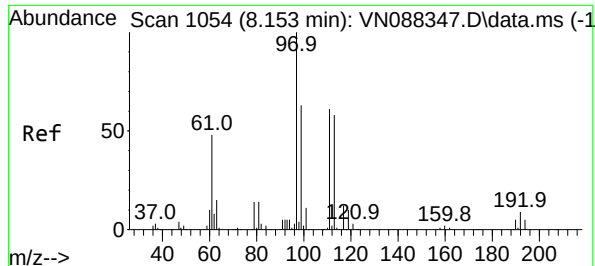
Ion Ratio Lower Upper

114 100

63 24.4 0.0 49.0

88 17.4 0.0 34.0





#35

Dibromofluoromethane

Concen: 51.649 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

Instrument :

MSVOA_N

ClientSampleId :

MW5

Tgt Ion:113 Resp: 178029

Ion Ratio Lower Upper

113 100

111 102.9 82.5 123.7

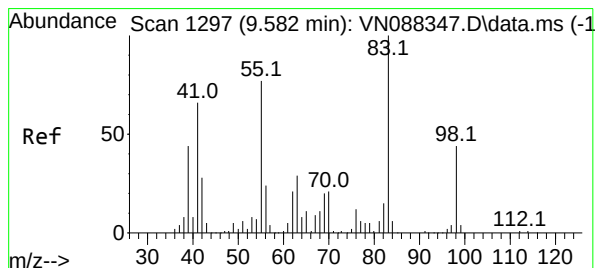
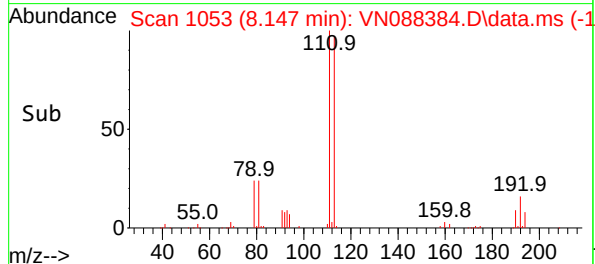
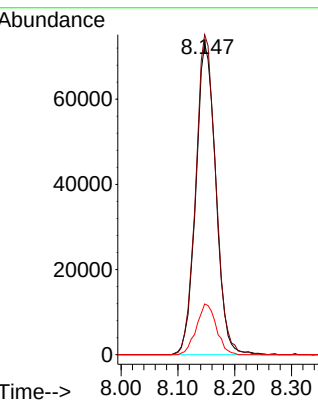
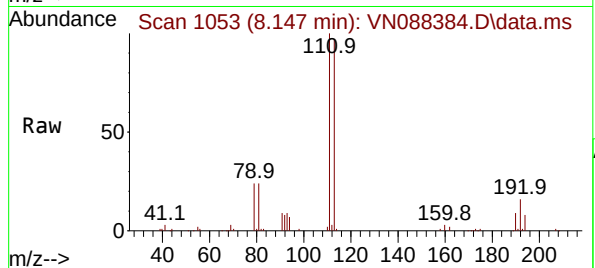
192 16.3 12.8 19.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025



#39

Methylcyclohexane

Concen: 109.435 ug/l

RT: 9.576 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

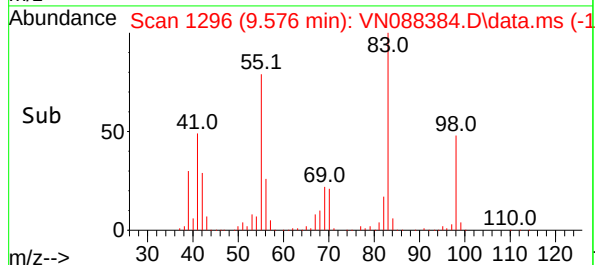
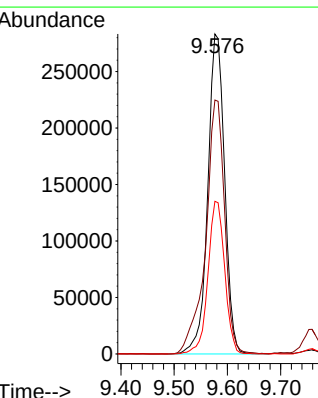
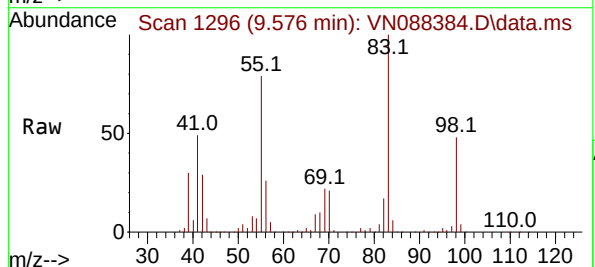
Tgt Ion: 83 Resp: 622703

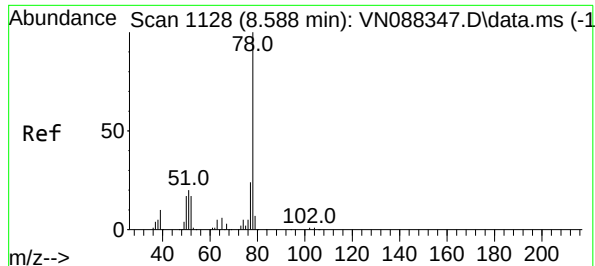
Ion Ratio Lower Upper

83 100

55 79.3 61.6 92.4

98 47.7 35.3 52.9





#40

Benzene

Concen: 37.538 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

Instrument :

MSVOA_N

ClientSampleId :

MW5

Tgt Ion: 78 Resp: 586094

Ion Ratio Lower Upper

78 100

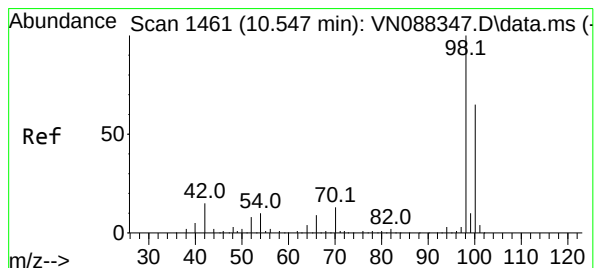
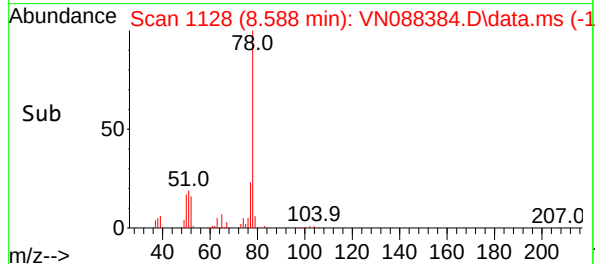
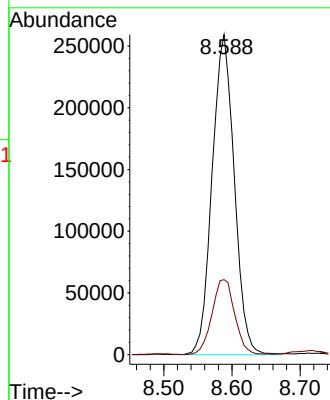
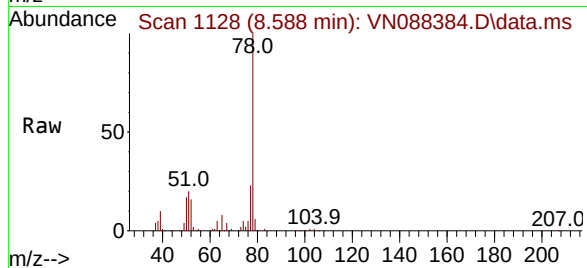
77 23.3 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025



#50

Toluene-d8

Concen: 51.307 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088384.D

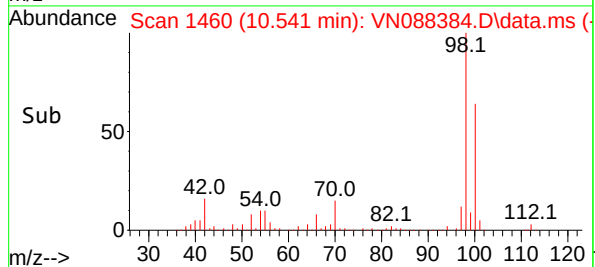
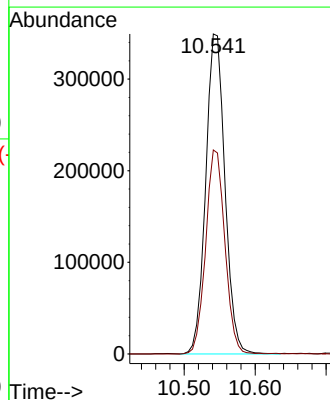
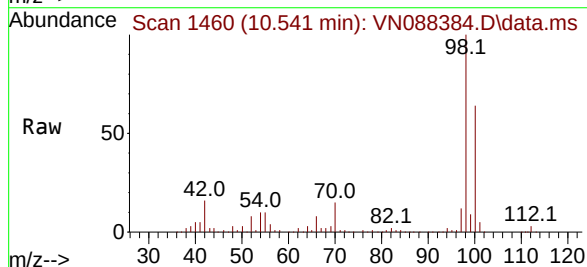
Acq: 01 Dec 2025 15:35

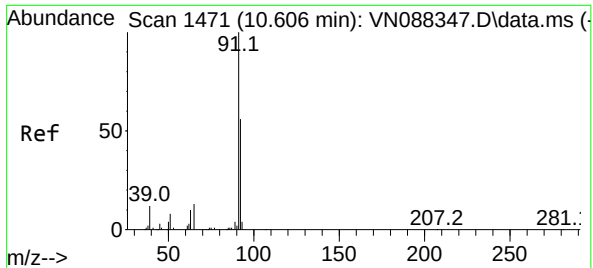
Tgt Ion: 98 Resp: 658018

Ion Ratio Lower Upper

98 100

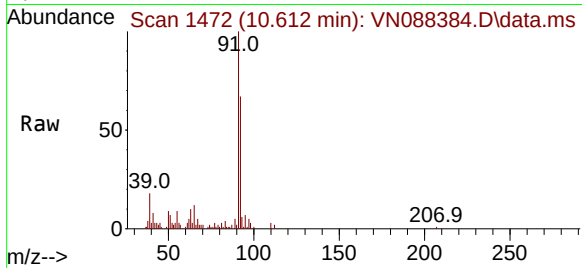
100 63.5 52.2 78.2





#52
Toluene
Concen: 4.074 ug/l
RT: 10.612 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

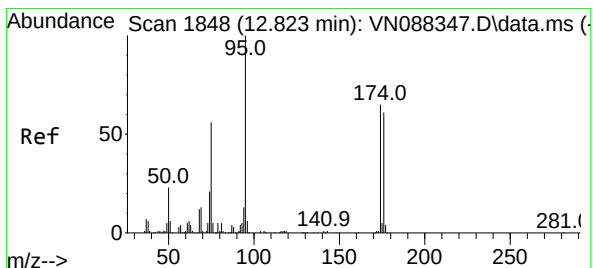
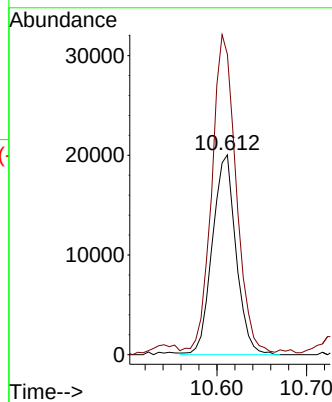
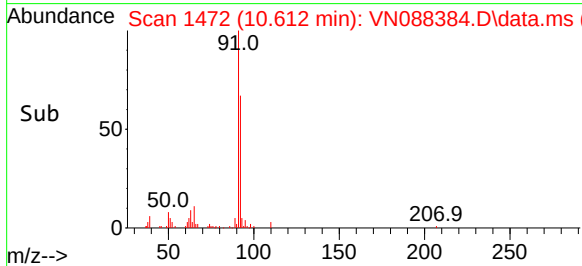
Instrument :
MSVOA_N
ClientSampleId :
MW5



Tgt Ion: 92 Resp: 36729
Ion Ratio Lower Upper
92 100
91 166.8 140.2 210.2

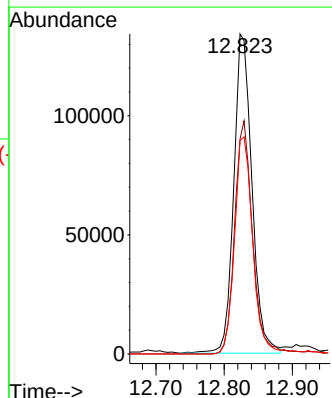
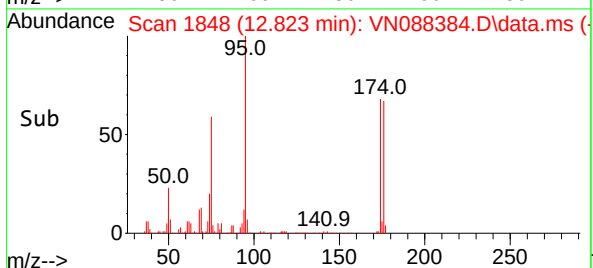
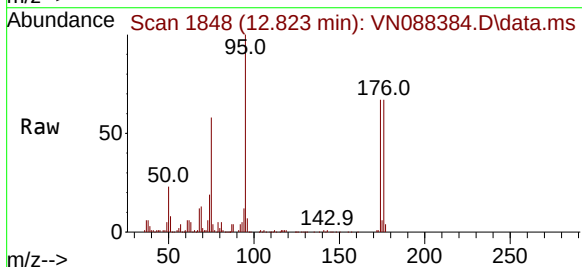
Manual Integrations
APPROVED

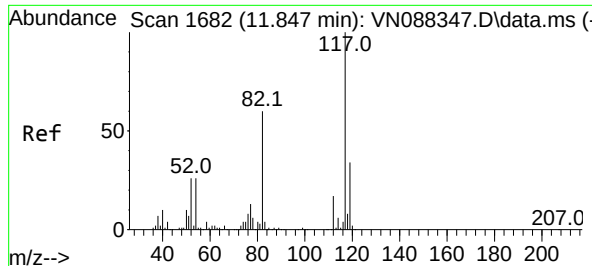
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#62
4-Bromofluorobenzene
Concen: 56.578 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

Tgt Ion: 95 Resp: 248976
Ion Ratio Lower Upper
95 100
174 72.0 0.0 139.0
176 68.3 0.0 132.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1682

Delta R.T. -0.006 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

Instrument :

MSVOA_N

ClientSampleId :

MW5

Tgt Ion:117 Resp: 48925

Ion Ratio Lower Upper

117 100

82 60.5 47.8 71.8

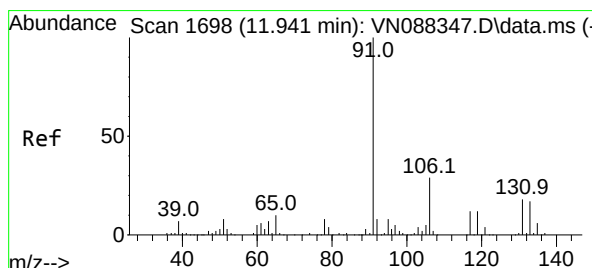
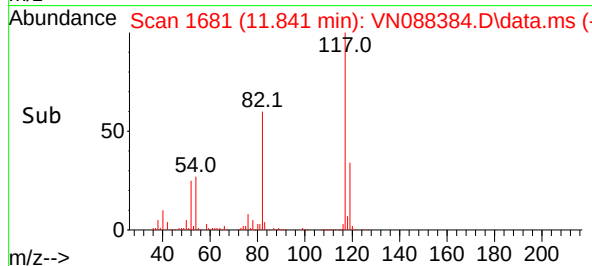
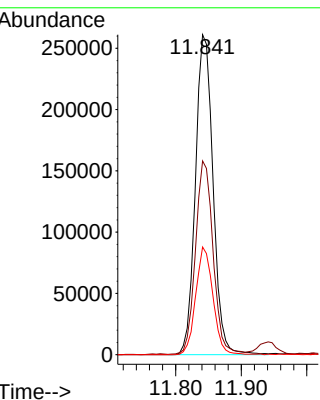
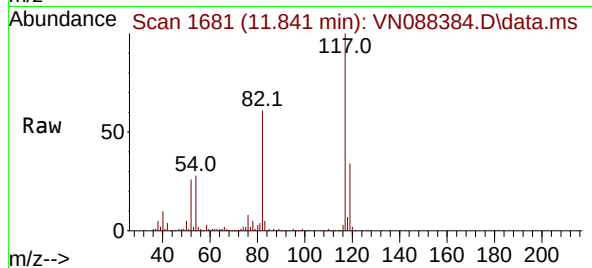
119 33.7 26.9 40.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025



#67

Ethyl Benzene

Concen: 4.016 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VN088384.D

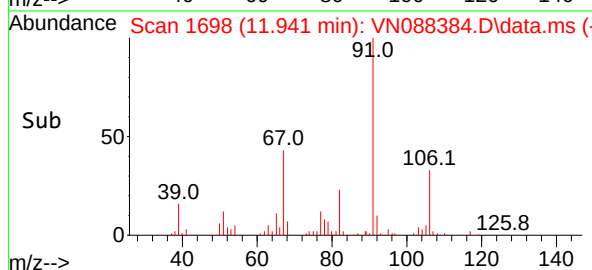
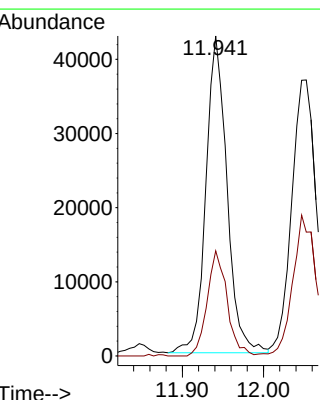
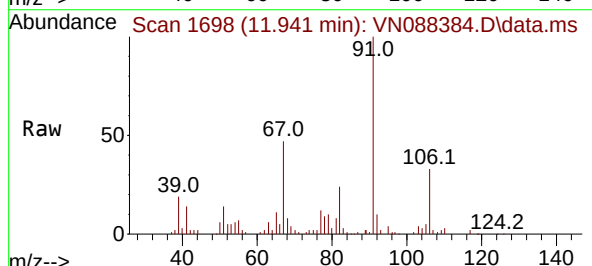
Acq: 01 Dec 2025 15:35

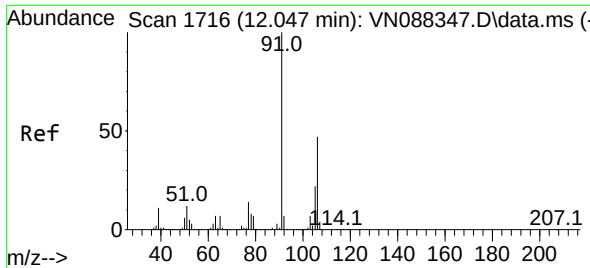
Tgt Ion: 91 Resp: 77140

Ion Ratio Lower Upper

91 100

106 33.2 23.6 35.4





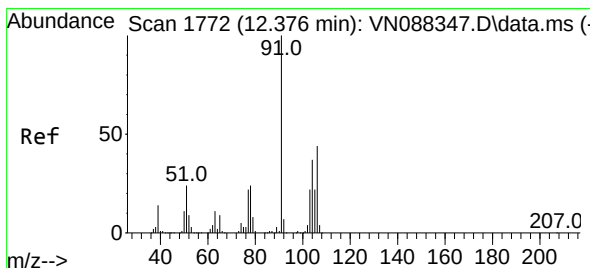
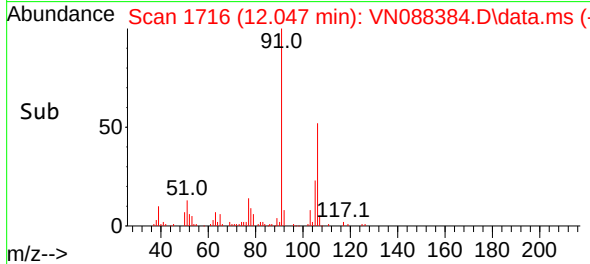
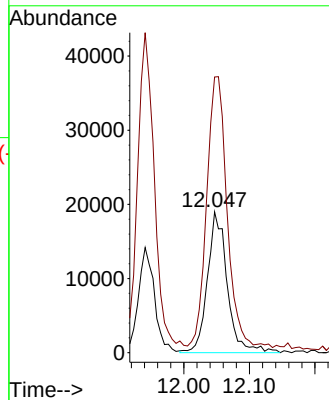
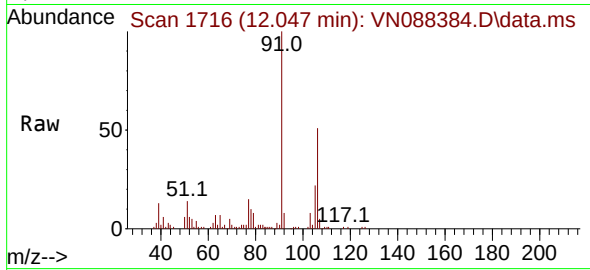
#68
m/p-Xylenes
Concen: 5.605 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

Instrument :
MSVOA_N
ClientSampleId :
MW5

Tgt Ion:106 Resp: 39920
Ion Ratio Lower Upper
106 100
91 193.6 167.8 251.6

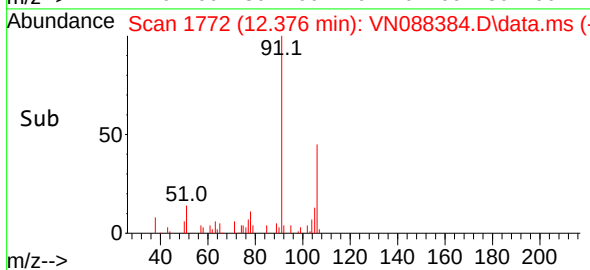
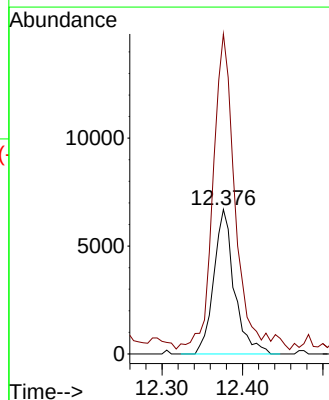
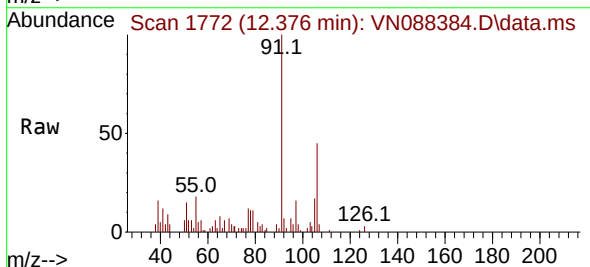
Manual Integrations
APPROVED

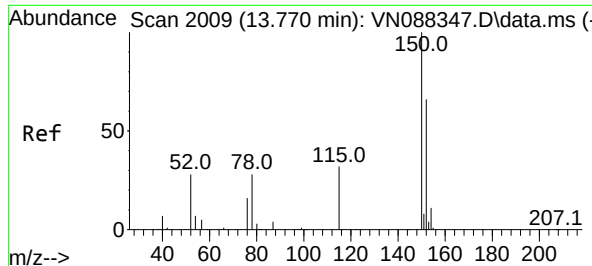
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#69
o-Xylene
Concen: 1.748 ug/l m
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

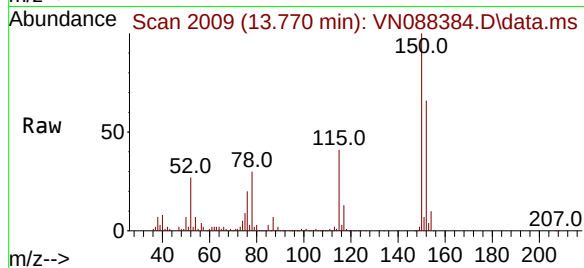
Tgt Ion:106 Resp: 11871
Ion Ratio Lower Upper
106 100
91 0.0 112.9 338.7#





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

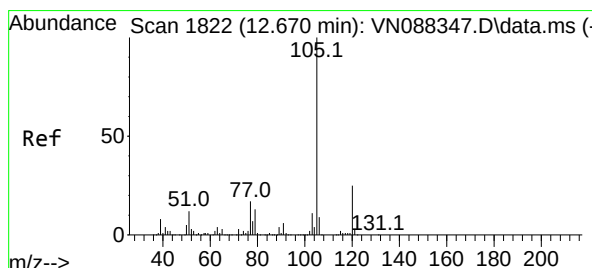
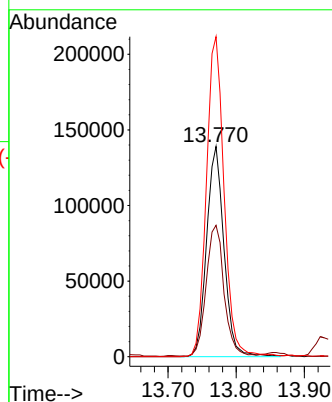
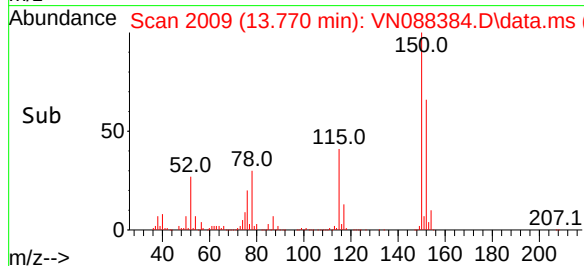
Instrument :
MSVOA_N
ClientSampleId :
MW5



Tgt Ion:152 Resp: 24657
Ion Ratio Lower Upper
152 100
115 63.6 33.0 98.9
150 154.8 0.0 349.0

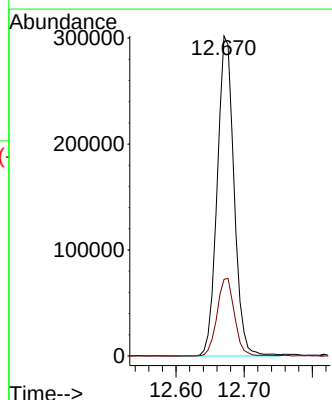
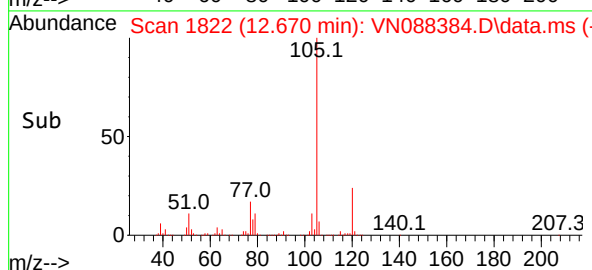
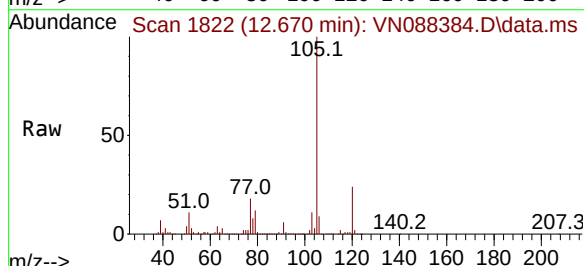
Manual Integrations
APPROVED

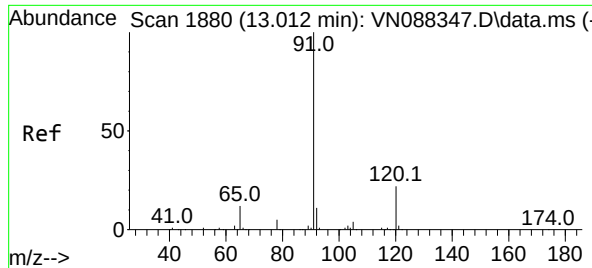
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#73
Isopropylbenzene
Concen: 28.438 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

Tgt Ion:105 Resp: 518465
Ion Ratio Lower Upper
105 100
120 25.2 12.8 38.3





#78

n-propylbenzene

Concen: 55.686 ug/l

RT: 13.012 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

Instrument :

MSVOA_N

ClientSampleId :

MW5

Tgt Ion: 91 Resp: 1242004

Ion Ratio Lower Upper

91 100

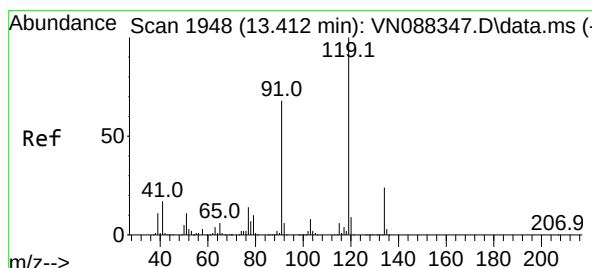
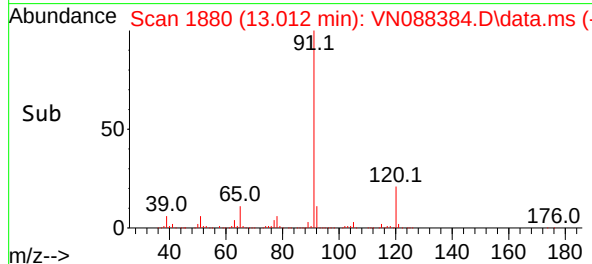
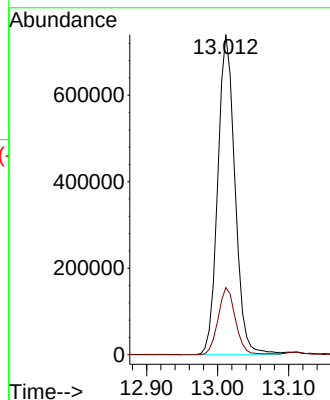
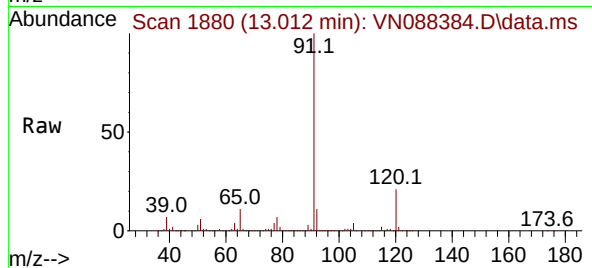
120 21.0 10.9 32.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025



#83

tert-Butylbenzene

Concen: 1.127 ug/l

RT: 13.412 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

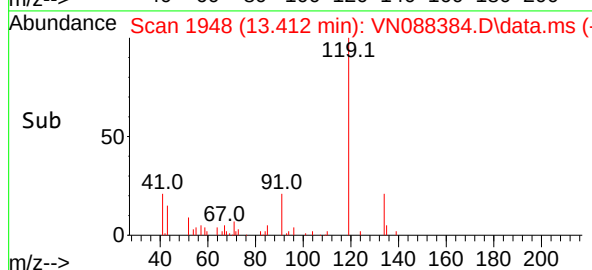
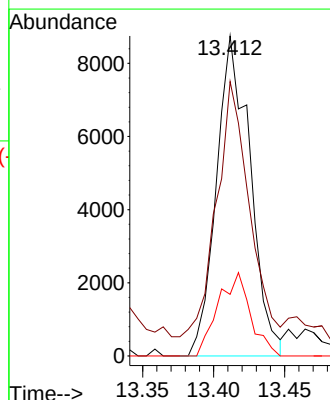
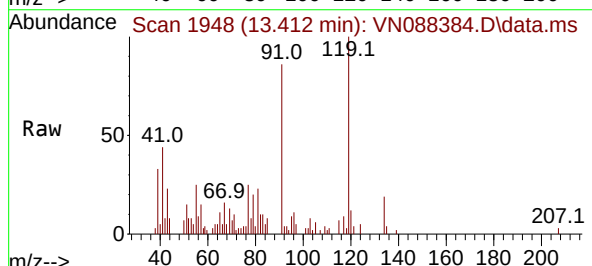
Tgt Ion:119 Resp: 14471

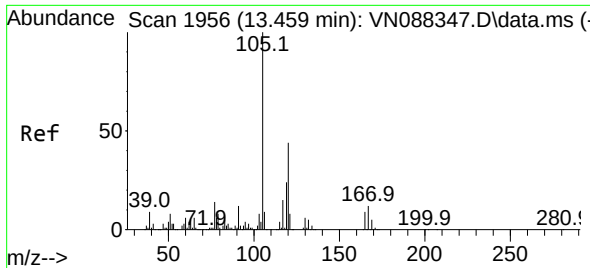
Ion Ratio Lower Upper

119 100

91 75.8 35.1 105.3

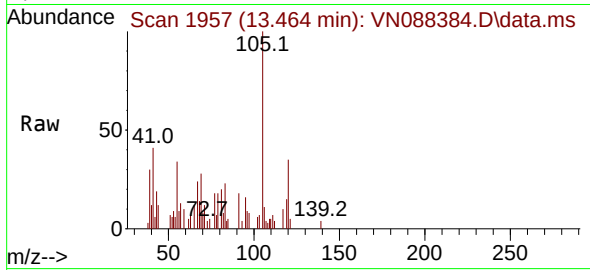
134 25.0 12.8 38.4





#84
1,2,4-Trimethylbenzene
Concen: 0.600 ug/l
RT: 13.464 min Scan# 1956
Delta R.T. 0.006 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

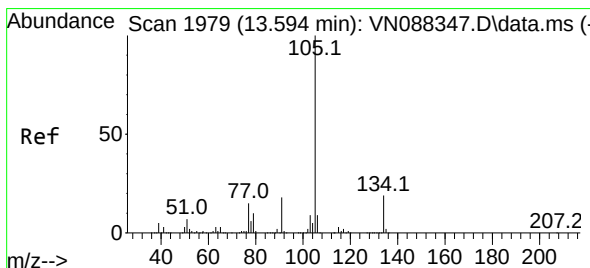
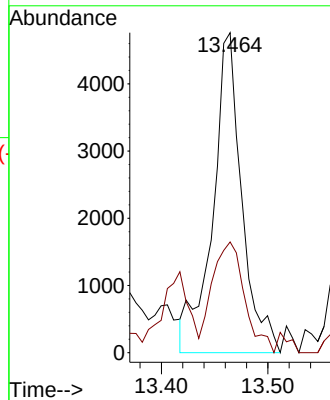
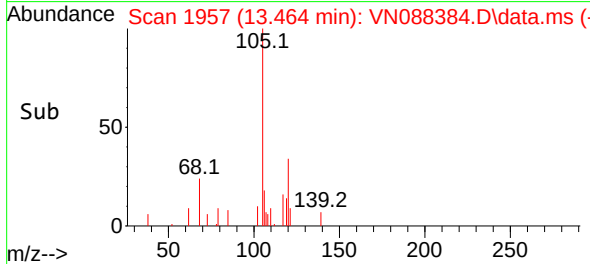
Instrument :
MSVOA_N
ClientSampleId :
MW5



Tgt Ion:105 Resp: 900
Ion Ratio Lower Upper
105 100
120 38.5 22.1 66.1

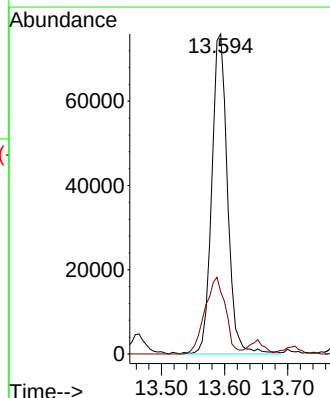
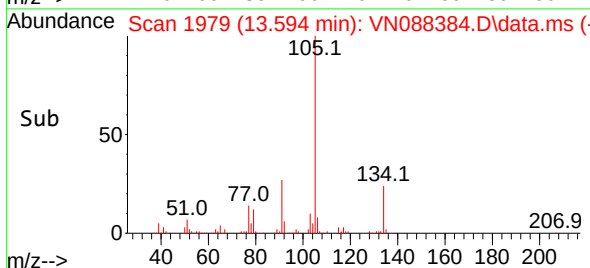
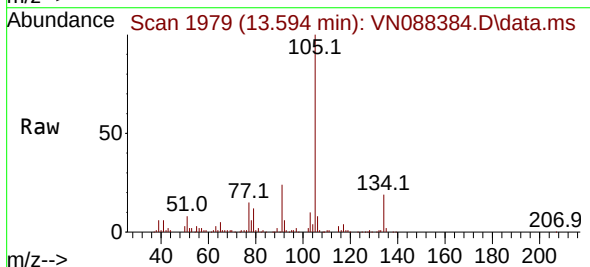
Manual Integrations
APPROVED

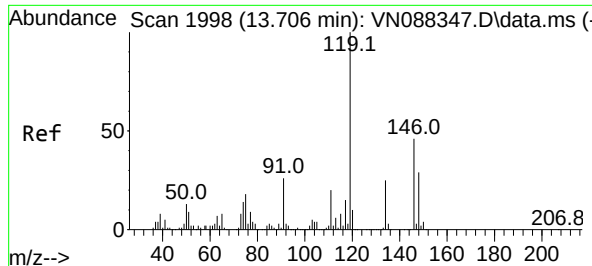
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#85
sec-Butylbenzene
Concen: 7.118 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

Tgt Ion:105 Resp: 131324
Ion Ratio Lower Upper
105 100
134 31.2 9.5 28.5#





#86

p-Isopropyltoluene

Concen: 0.774 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. 0.000 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

Instrument :

MSVOA_N

ClientSampleId :

MW5

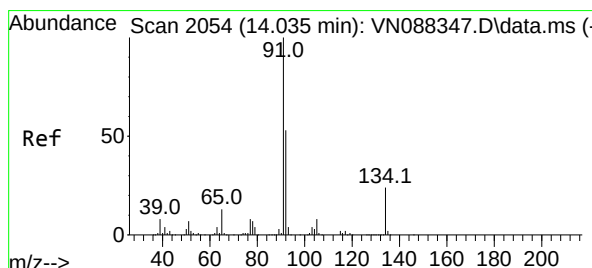
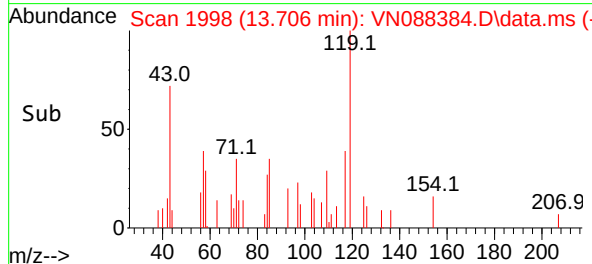
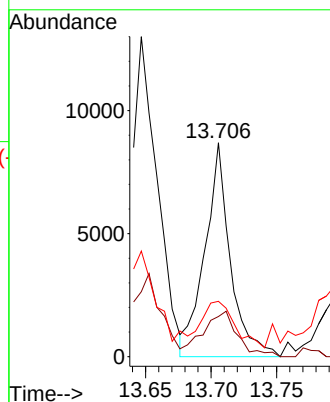
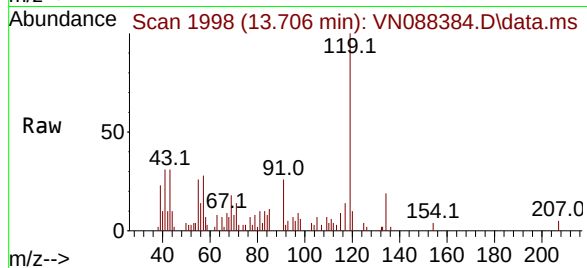
Tgt Ion:	119	Resp:	11700
Ion Ratio	Lower	Upper	
119	100		
134	29.1	12.2	36.6
91	28.2	13.0	39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025



#89

n-Butylbenzene

Concen: 8.375 ug/l m

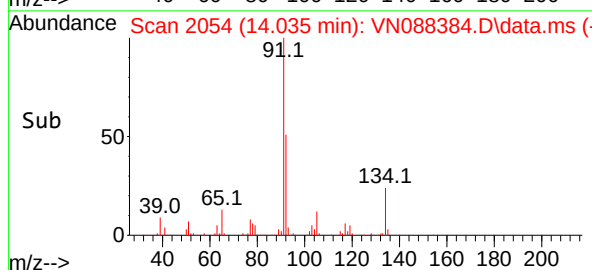
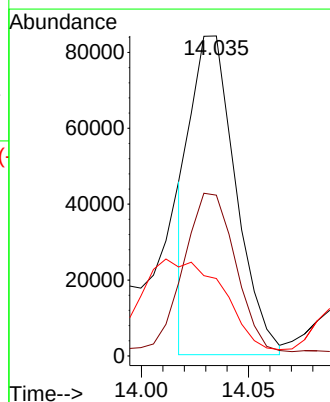
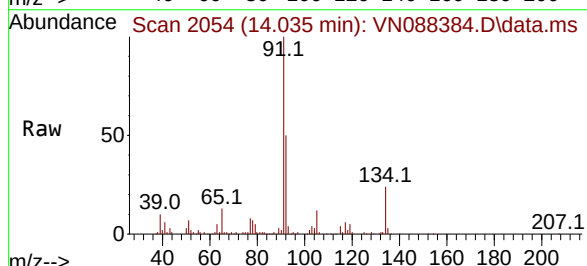
RT: 14.035 min Scan# 2054

Delta R.T. -0.000 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

Tgt Ion:	91	Resp:	123015
Ion Ratio	Lower	Upper	
91	100		
92	57.8	26.1	78.3
134	0.0	11.7	35.1



5

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

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\82N112425W.M
Title : SW846 8260

Signal : TIC: VN088384.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.536	91	99	107	rVB	43821	83305	1.64%	0.105%
2	3.271	212	224	236	rBV	417966	1038913	20.41%	1.311%
3	3.659	280	290	305	rBV	329850	857727	16.85%	1.082%
4	4.147	363	373	384	rBV2	126942	361281	7.10%	0.456%
5	4.412	408	418	419	rBV3	39824	67984	1.34%	0.086%
6	5.147	526	543	552	rBV7	38604	159057	3.12%	0.201%
7	5.336	552	575	609	rVB3	592363	3262804	64.10%	4.117%
8	5.806	637	655	676	rBV2	530707	1849392	36.33%	2.333%
9	6.294	727	738	754	rBV2	92105	295583	5.81%	0.373%
10	6.641	781	797	810	rBV2	142880	435223	8.55%	0.549%
11	6.777	810	820	830	rBV4	59182	186986	3.67%	0.236%
12	7.065	859	869	884	rBV4	77297	228643	4.49%	0.288%
13	7.200	884	892	899	rBV3	31759	85731	1.68%	0.108%
14	7.312	899	911	935	rVV	1410595	4232181	83.14%	5.340%
15	7.918	1006	1014	1018	rBV3	34434	85788	1.69%	0.108%
16	7.988	1018	1026	1035	rVB	175274	425777	8.36%	0.537%
17	8.147	1044	1053	1057	rBV2	255735	601939	11.83%	0.759%
18	8.235	1057	1068	1077	rVV3	945662	3486956	68.50%	4.400%
19	8.312	1077	1081	1091	rVB4	178838	421758	8.29%	0.532%
20	8.424	1091	1100	1107	rBV	270643	638299	12.54%	0.805%
21	8.494	1107	1112	1117	rVV	115123	268138	5.27%	0.338%
22	8.582	1117	1127	1138	rVV3	659732	2027928	39.84%	2.559%
23	8.700	1138	1147	1154	rVV5	387700	1115618	21.92%	1.408%
24	8.771	1154	1159	1164	rVV	346880	782173	15.37%	0.987%
25	8.835	1164	1170	1179	rVV2	392503	938995	18.45%	1.185%
26	8.918	1179	1184	1195	rVB7	42539	125998	2.48%	0.159%
27	9.082	1202	1212	1219	rBV3	834281	1927057	37.86%	2.431%
28	9.241	1234	1239	1245	rVB2	34909	66805	1.31%	0.084%
29	9.318	1245	1252	1255	rVV2	70161	144964	2.85%	0.183%
30	9.365	1255	1260	1270	rVB	83644	189580	3.72%	0.239%
31	9.576	1279	1296	1313	rBV	1462516	3772519	74.11%	4.760%
32	9.759	1313	1327	1333	rBV	237462	497475	9.77%	0.628%
33	9.847	1333	1342	1347	rVB2	64055	131131	2.58%	0.165%
34	9.982	1362	1365	1374	rVB4	84400	167777	3.30%	0.212%
35	10.082	1374	1382	1387	rBV	363708	711128	13.97%	0.897%
36	10.129	1387	1390	1395	rVV4	52752	94746	1.86%	0.120%

5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

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D

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G

H

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J

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\82N112425W.M
Title : SW846 8260

37	10.182	1395	1399	1403	rVV3	52071	79680	1.57%	0.101%
38	10.318	1413	1422	1434	rBV5	78544	220622	4.33%	0.278%
39	10.429	1434	1441	1453	rVB2	248094	534974	10.51%	0.675%
40	10.547	1453	1461	1467	rBV	1129311	2213419	43.48%	2.793%
41	10.735	1485	1493	1504	rVB6	137647	388131	7.63%	0.490%
42	10.888	1513	1519	1525	rBV3	119531	218131	4.29%	0.275%
43	10.959	1525	1531	1542	rVB4	165474	464393	9.12%	0.586%
44	11.059	1542	1548	1555	rVB8	30084	74082	1.46%	0.093%
45	11.147	1555	1563	1569	rBV5	31990	80423	1.58%	0.101%
46	11.235	1569	1578	1581	rBV6	54864	125630	2.47%	0.159%
47	11.359	1595	1599	1601	rVV4	44545	66075	1.30%	0.083%
48	11.394	1601	1605	1611	rVB	104451	177530	3.49%	0.224%
49	11.447	1611	1614	1619	rVB2	51982	80207	1.58%	0.101%
50	11.618	1637	1643	1646	rBV2	29822	54941	1.08%	0.069%
51	11.653	1646	1649	1656	rVB6	34966	67799	1.33%	0.086%
52	11.841	1674	1681	1689	rBV	903211	1696753	33.33%	2.141%
53	11.941	1693	1698	1708	rVB	160138	281167	5.52%	0.355%
54	12.047	1708	1716	1721	rBV	105957	236641	4.65%	0.299%
55	12.353	1761	1768	1769	rBV4	36427	62283	1.22%	0.079%
56	12.559	1791	1803	1807	rBV6	62273	176608	3.47%	0.223%
57	12.670	1815	1822	1833	rBV	762117	1334593	26.22%	1.684%
58	12.829	1842	1849	1858	rBV	681314	1252678	24.61%	1.581%
59	13.012	1873	1880	1892	rBV	1534971	2577079	50.63%	3.252%
60	13.112	1892	1897	1901	rBV2	41894	65642	1.29%	0.083%
61	13.312	1923	1931	1937	rBV	176087	341780	6.71%	0.431%
62	13.412	1944	1948	1954	rVB4	38955	75690	1.49%	0.095%
63	13.588	1968	1978	1984	rBV3	221214	514239	10.10%	0.649%
64	13.653	1984	1989	1993	rBV5	49921	81609	1.60%	0.103%
65	13.770	2002	2009	2019	rBV	895971	1664626	32.70%	2.100%
66	13.859	2019	2024	2029	rVB	75416	134685	2.65%	0.170%
67	13.929	2029	2036	2038	rBV	589356	927770	18.23%	1.171%
68	13.970	2038	2043	2048	rVB	1557597	2308593	45.35%	2.913%
69	14.094	2059	2064	2070	rBV2	190494	302829	5.95%	0.382%
70	14.223	2082	2086	2093	rVB3	40588	62066	1.22%	0.078%
71	14.306	2093	2100	2106	rBV	1682071	2674168	52.54%	3.374%
72	14.370	2106	2111	2114	rVV	341838	561027	11.02%	0.708%
73	14.417	2114	2119	2126	rVB2	1244884	2201465	43.25%	2.778%
74	14.482	2126	2130	2137	rVB4	65123	105604	2.07%	0.133%
75	14.553	2137	2142	2146	rBV	86396	138431	2.72%	0.175%
76	14.629	2146	2155	2163	rVB	1090549	1907121	37.47%	2.406%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

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\82N112425W.M
Title : SW846 8260

77	14.706	2163	2168	2172	rBV	136529	205013	4.03%	0.259%
78	14.776	2172	2180	2184	rBV2	85900	145632	2.86%	0.184%
79	14.853	2184	2193	2196	rBV3	74516	153604	3.02%	0.194%
80	14.900	2196	2201	2207	rBV	916000	1534016	30.14%	1.935%
81	15.023	2213	2222	2228	rBV3	1871565	4565815	89.70%	5.761%
82	15.070	2228	2230	2243	rVB3	187381	428341	8.42%	0.540%
83	15.182	2244	2249	2255	rVV3	100170	178307	3.50%	0.225%
84	15.288	2256	2267	2272	rVV3	536995	1367076	26.86%	1.725%
85	15.335	2272	2275	2280	rVV	276255	486667	9.56%	0.614%
86	15.411	2280	2288	2296	rVB2	488349	1236905	24.30%	1.561%
87	15.511	2301	2305	2308	rVV3	47903	75203	1.48%	0.095%
88	15.564	2308	2314	2321	rVB5	134216	263451	5.18%	0.332%
89	15.670	2326	2332	2336	rBV	207090	408286	8.02%	0.515%
90	15.723	2336	2341	2344	rBV3	142884	273981	5.38%	0.346%
91	15.911	2365	2373	2382	rBV	338980	753926	14.81%	0.951%
92	15.994	2382	2387	2394	rVV	56400	132191	2.60%	0.167%
93	16.094	2396	2404	2407	rVV2	274265	629601	12.37%	0.794%
94	16.135	2407	2411	2420	rVB4	354257	748171	14.70%	0.944%
95	16.223	2420	2426	2432	rBV	129418	255718	5.02%	0.323%
96	16.311	2432	2441	2456	rVB3	229658	787986	15.48%	0.994%
97	16.470	2458	2468	2480	rBV3	307214	837431	16.45%	1.057%
98	16.582	2483	2487	2492	rVB4	39422	66991	1.32%	0.085%
99	16.682	2495	2504	2507	rBV4	139331	334181	6.57%	0.422%
100	16.747	2507	2515	2522	rBV	2290686	5090167	100.00%	6.422%

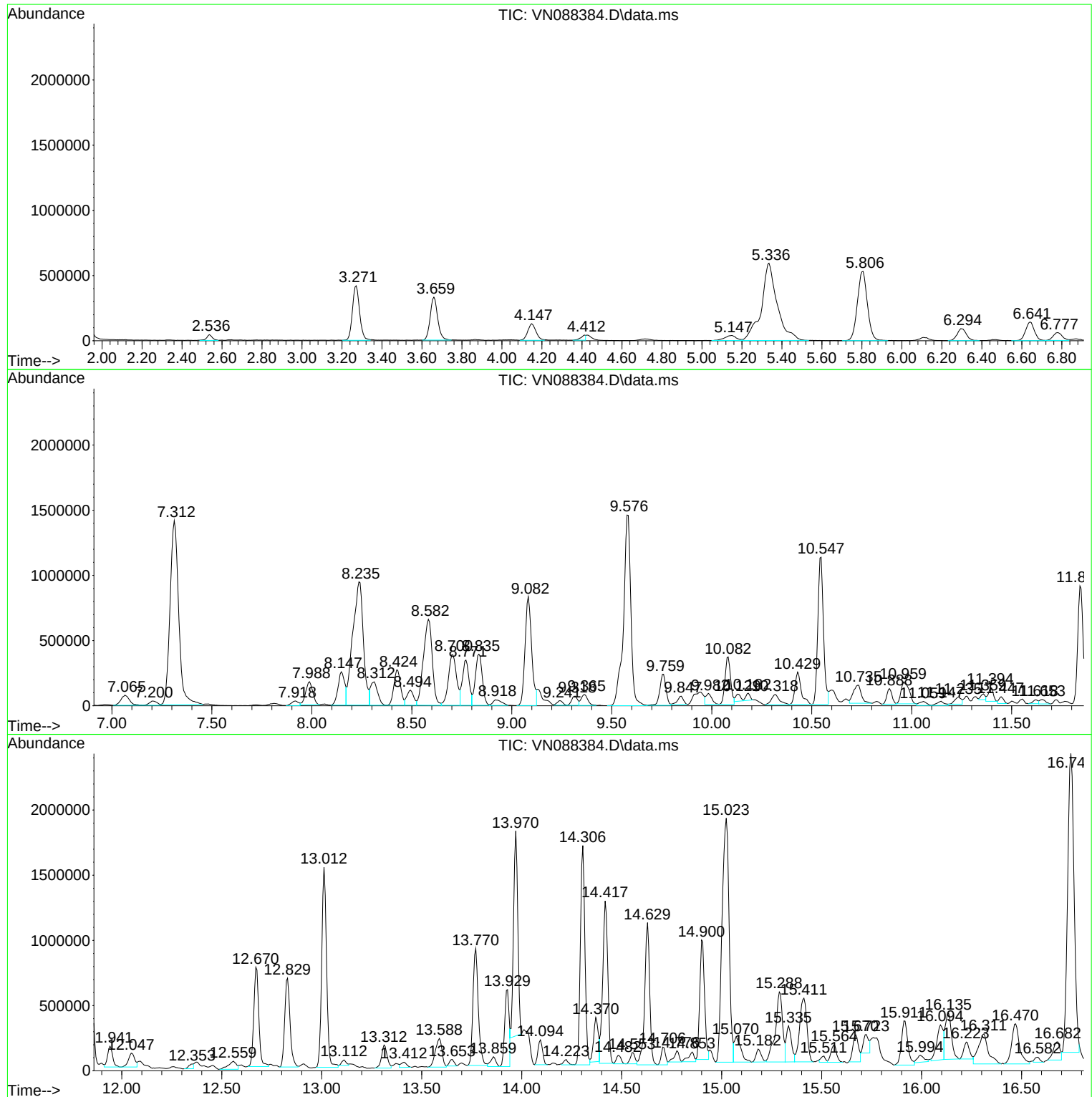
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Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

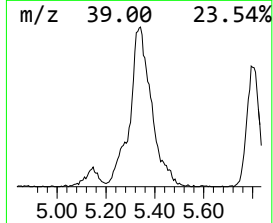
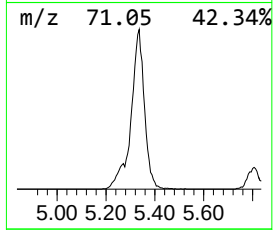
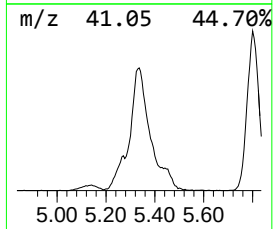
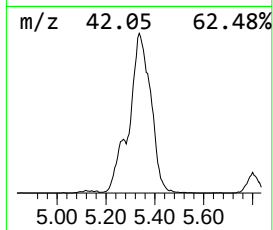
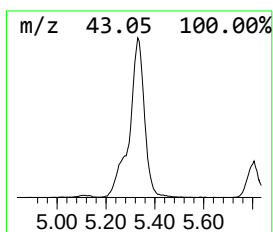
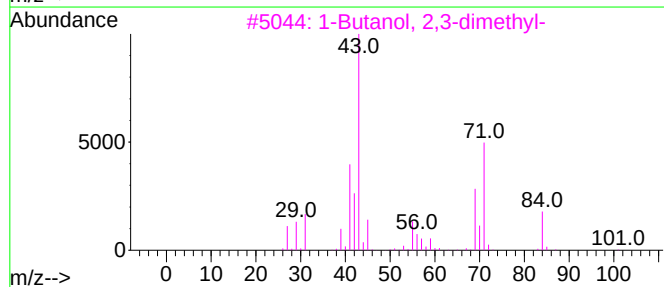
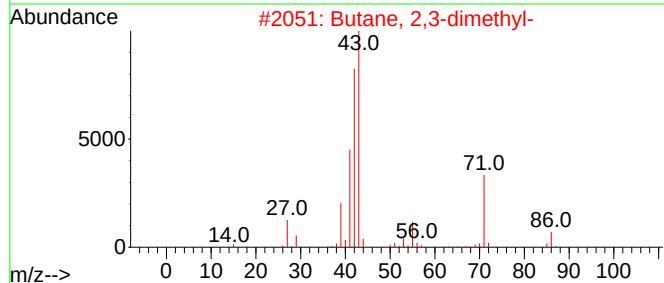
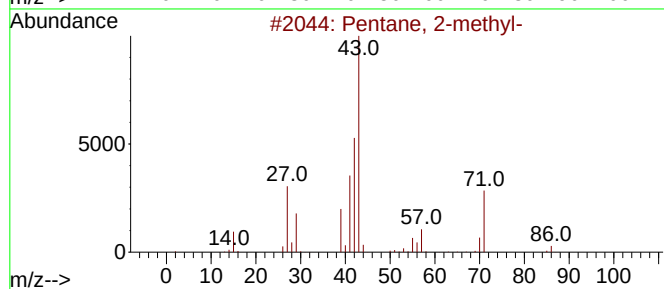
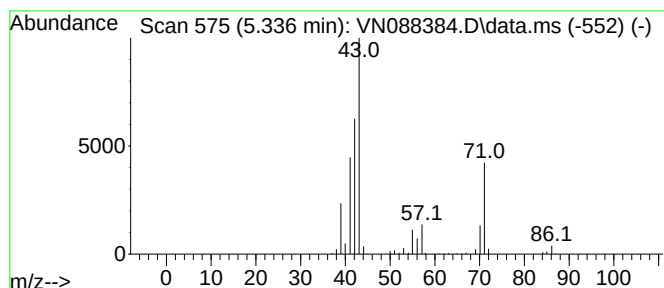
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Quant Title : SW846 8260

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

Peak Number 1 Pentane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.336	46.79 ug/l	3262800	Pentafluorobenzene	8.206

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2			Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	50
3			1-Butanol, 2,3-dimethyl-	102	C6H14O	019550-30-2	45
4			Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	43
5			N-Vinylformamide	71	C3H5NO	013162-05-5	40



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

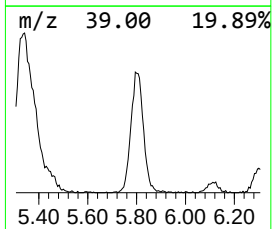
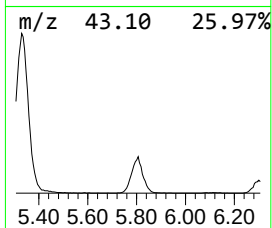
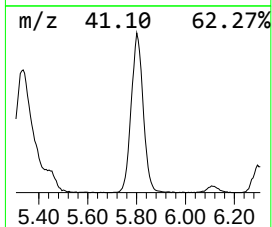
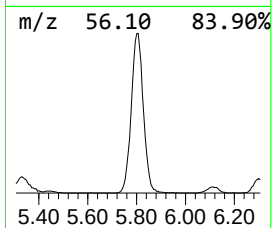
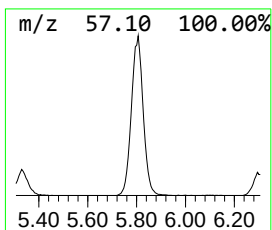
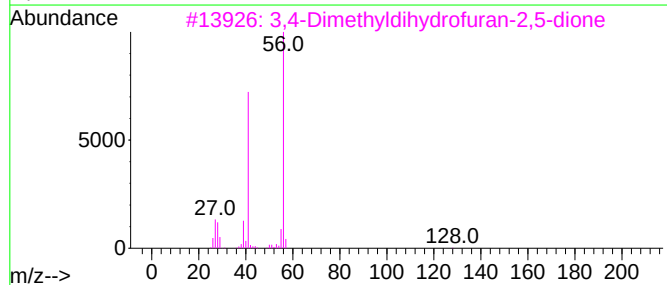
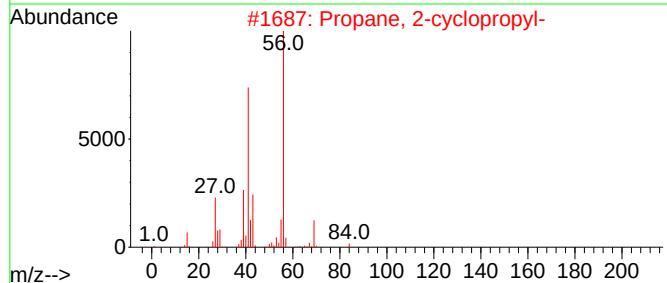
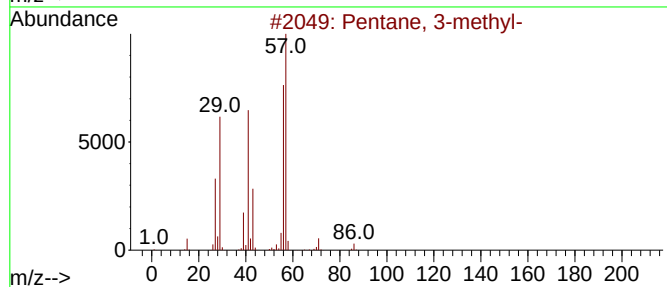
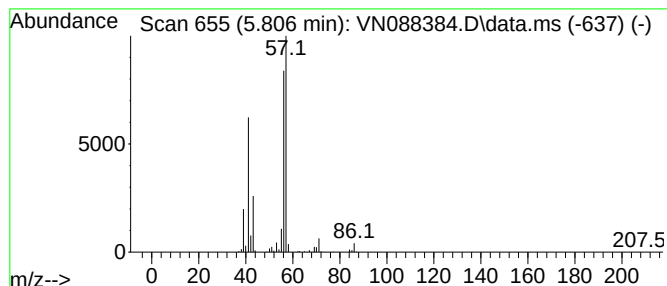
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Quant Title : SW846 8260

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

Peak Number 2 Pentane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.806	26.52 ug/l	1849390	Pentafluorobenzene	8.206

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 3-methyl-	86	C6H14	000096-14-0	90
2			Propane, 2-cyclopropyl-	84	C6H12	003638-35-5	59
3			3,4-Dimethyldihydrofuran-2,5-dione	128	C6H8O3	007475-92-5	53
4			Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	45
5			1-Butanol, 2-methyl-	88	C5H12O	000137-32-6	40



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

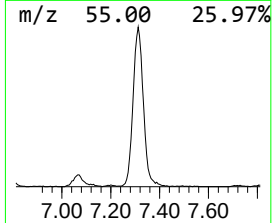
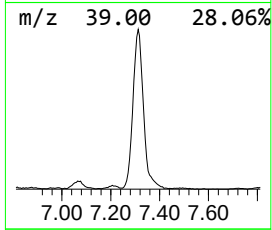
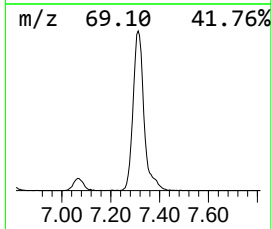
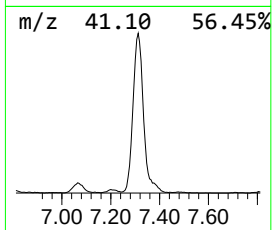
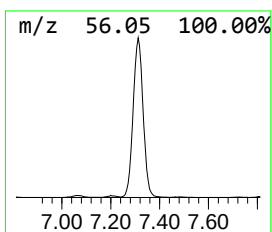
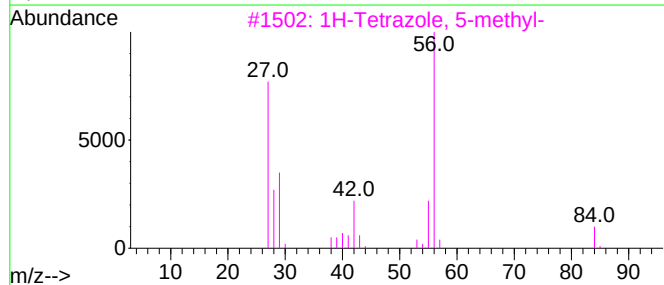
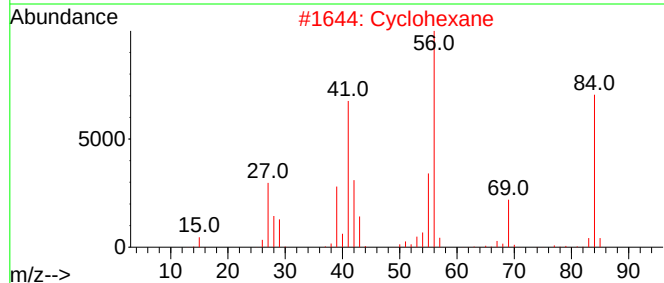
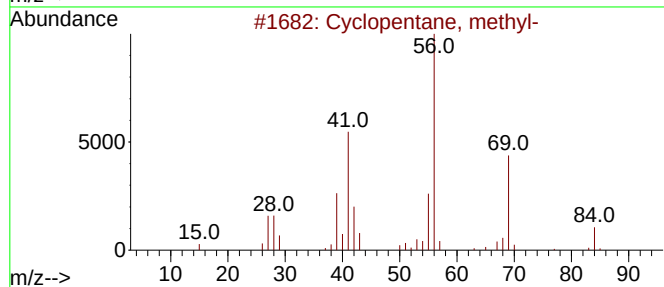
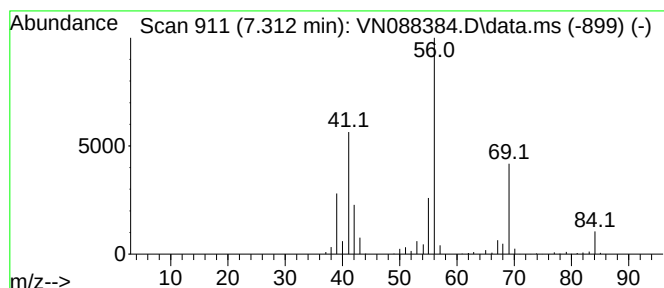
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

Peak Number 3 Cyclopentane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.312	60.69 ug/l	4232180	Pentafluorobenzene	8.206

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclopentane, methyl-	84	C6H12	000096-37-7	94
2		Cyclohexane	84	C6H12	000110-82-7	78
3		1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	72
4		Cyclobutane, ethyl-	84	C6H12	004806-61-5	64
5		1-Pentene, 2-methyl-	84	C6H12	000763-29-1	43



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

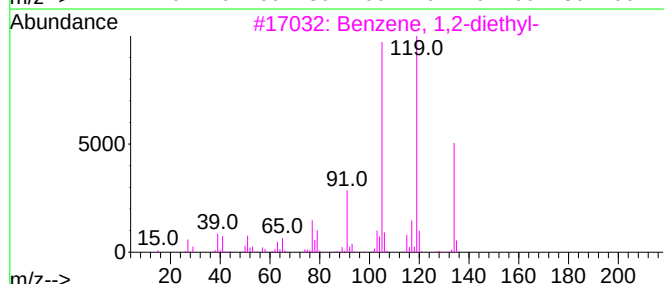
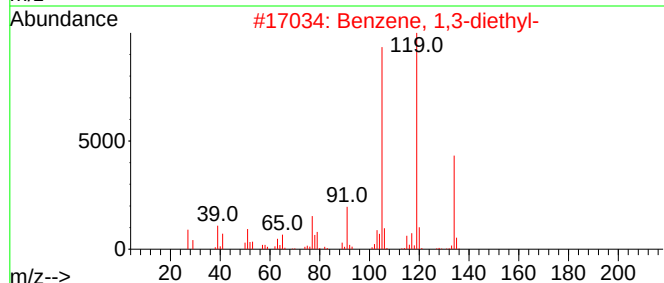
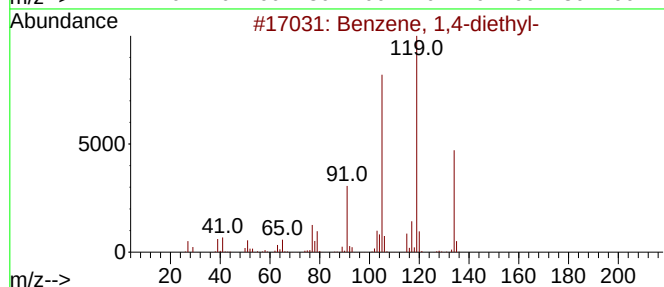
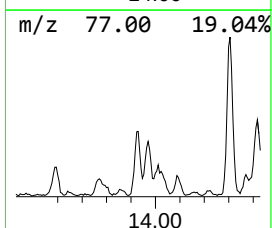
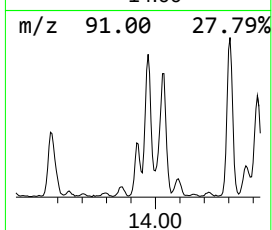
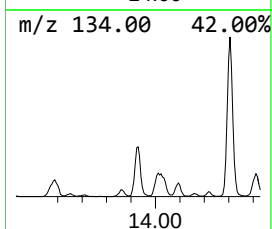
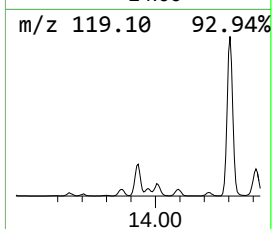
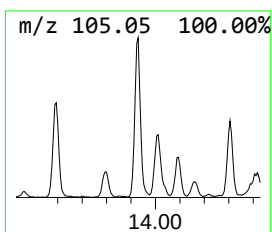
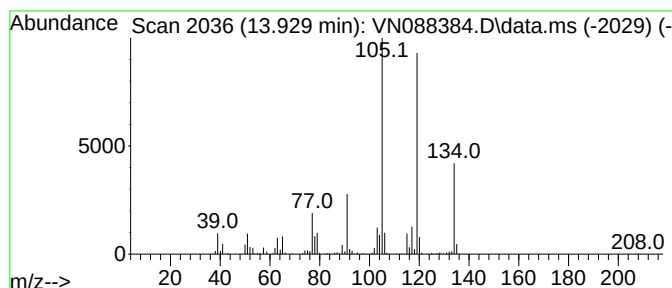
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Quant Title : SW846 8260

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

Peak Number 5 Benzene, 1,4-diethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.929	27.87 ug/l	927770	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	97
2			Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	96
3			Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	96
4			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	90
5			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

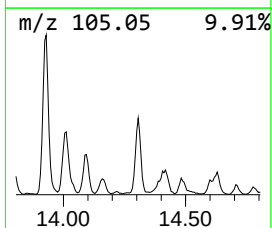
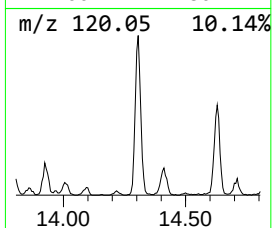
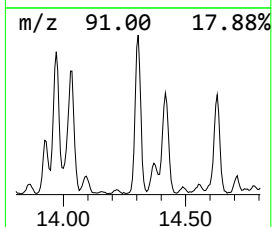
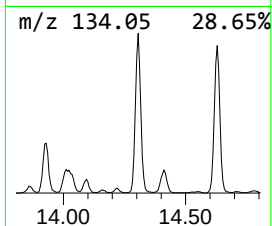
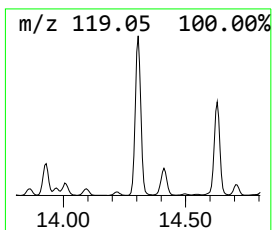
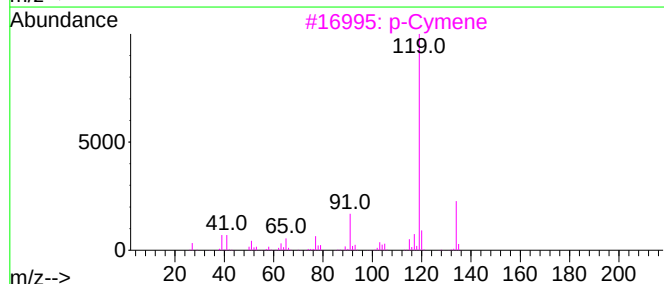
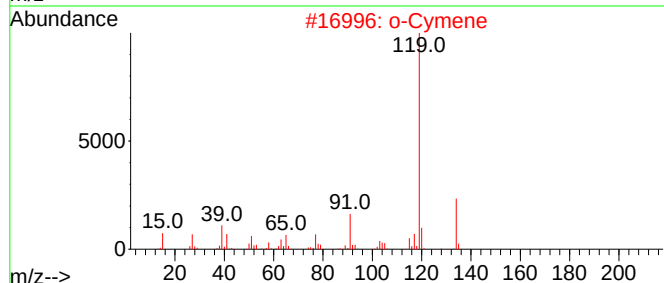
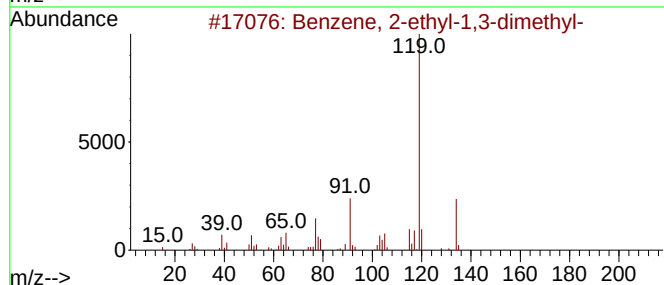
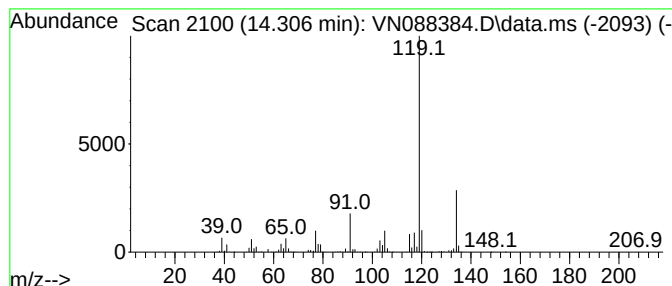
Instrument :
MSVOA_N
ClientSampleId :
MW5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

Peak Number 7 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD		R.T.		
14.306	80.32 ug/l	2674170	1,4-Dichlorobenzene-d4		13.770		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
2			o-Cymene	134	C10H14	000527-84-4	94
3			p-Cymene	134	C10H14	000099-87-6	94
4			Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
5			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

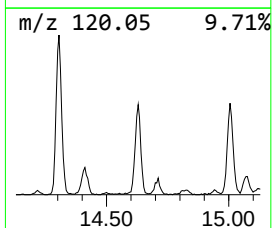
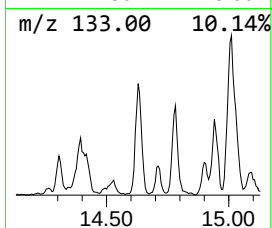
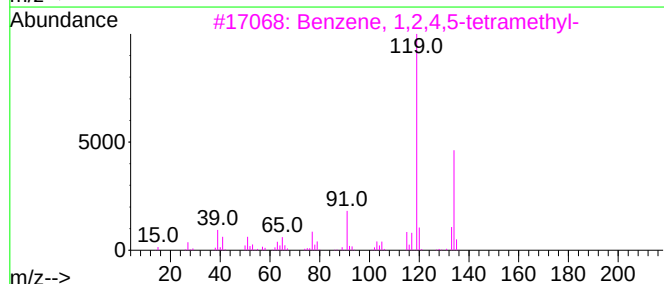
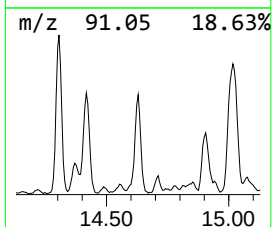
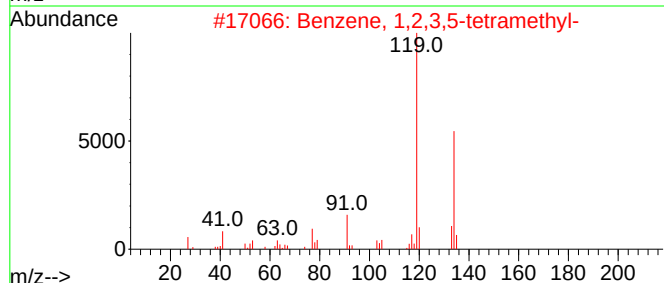
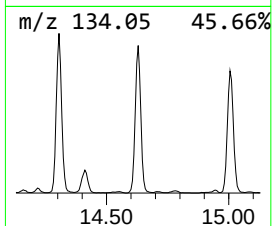
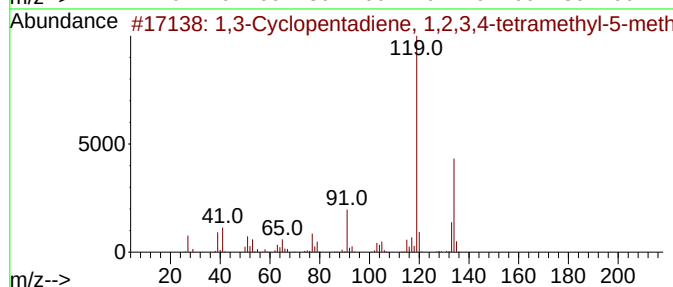
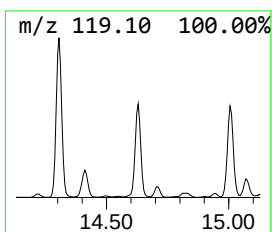
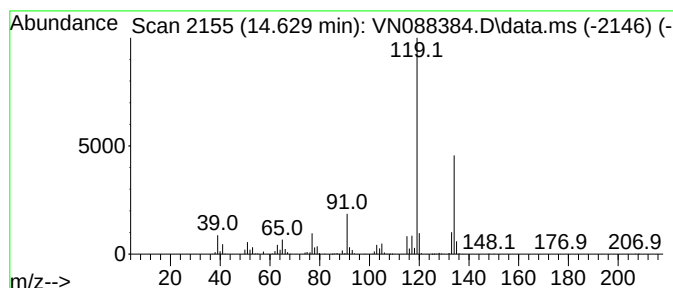
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Quant Title : SW846 8260

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

Peak Number 9 1,3-Cyclopentadiene, 1,2,3,... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.629	57.28 ug/l	1907120	1,4-Dichlorobenzene-d4	13.770

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	97
2		Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	96
3		Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
4		Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
5		o-Cymene	134	C10H14	000527-84-4	95



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

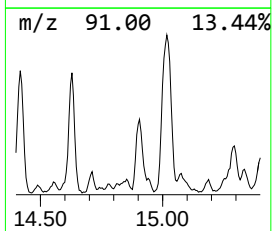
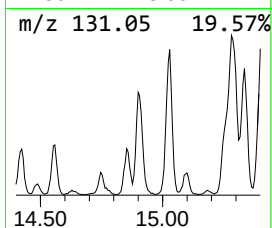
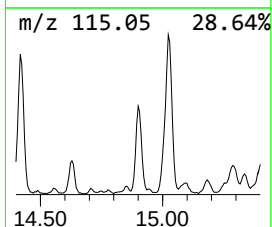
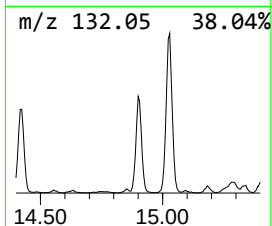
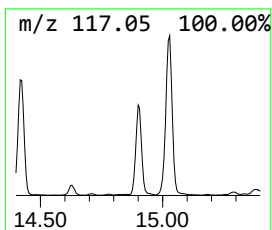
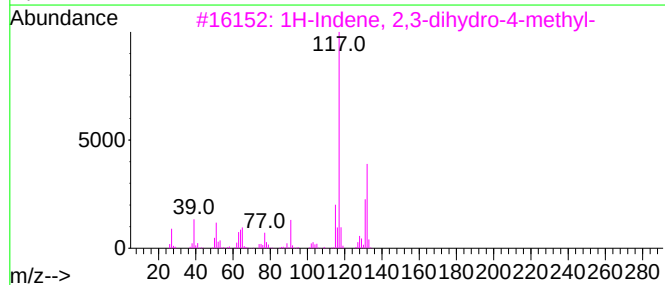
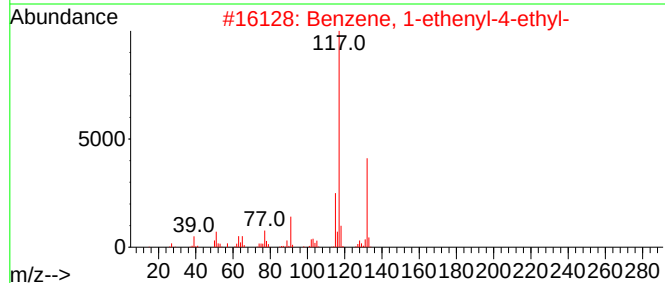
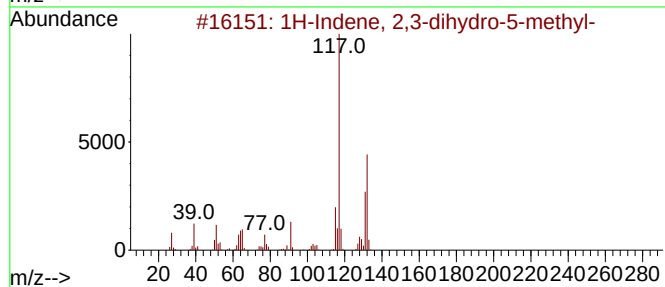
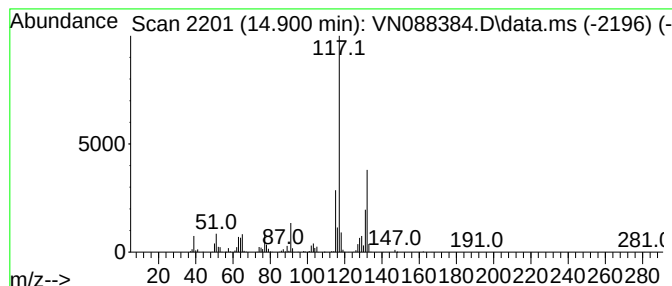
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Quant Title : SW846 8260

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

Peak Number 10 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.900	46.08 ug/l	1534020	1,4-Dichlorobenzene-d4	13.770

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	96
2		Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	94
3		1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	93
4		Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	92
5		3-Phenylbut-1-ene	132	C10H12	000934-10-1	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

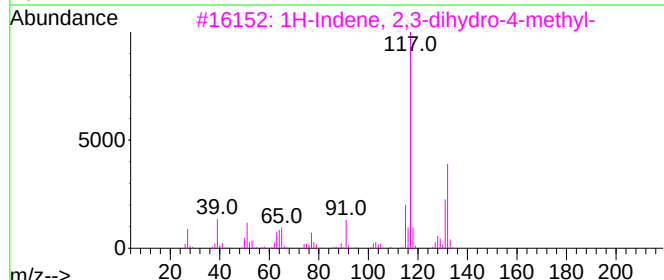
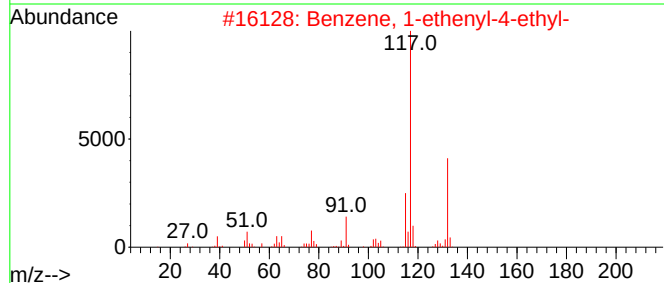
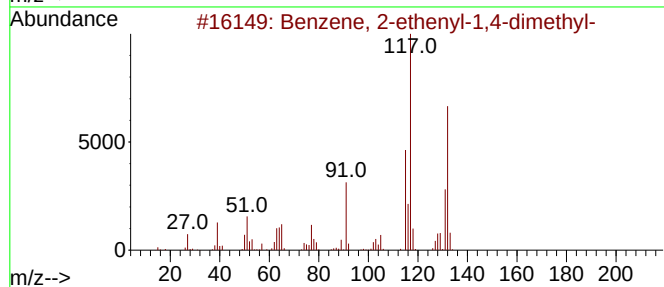
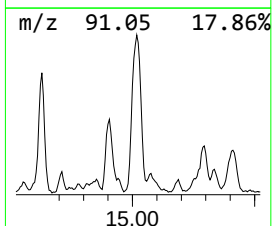
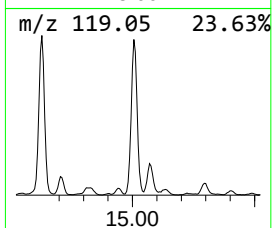
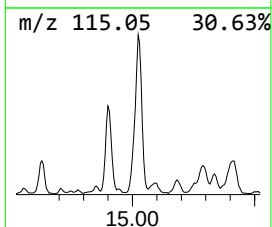
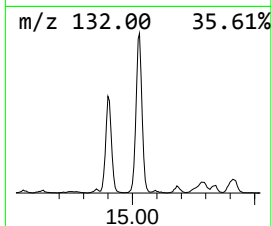
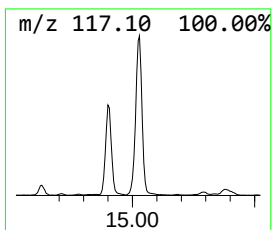
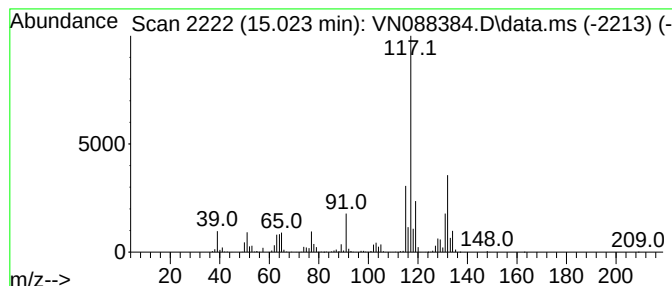
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

Peak Number 11 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.023	137.14 ug/l	4565820	1,4-Dichlorobenzene-d4	13.770

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
2		Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	94
3		1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	93
4		Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	93
5		1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

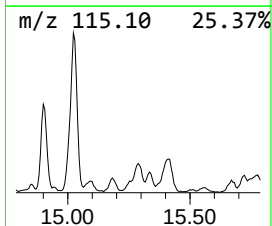
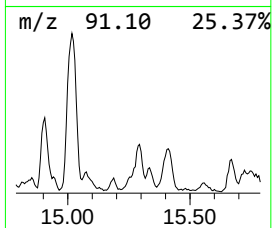
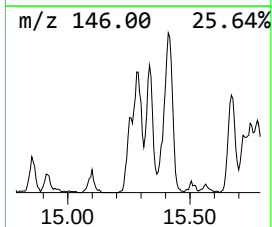
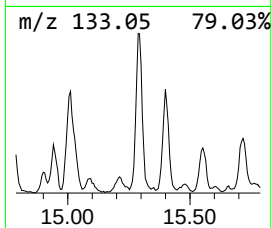
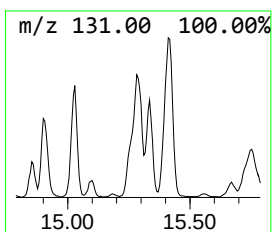
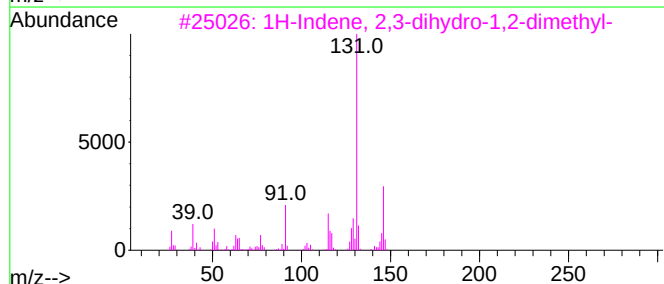
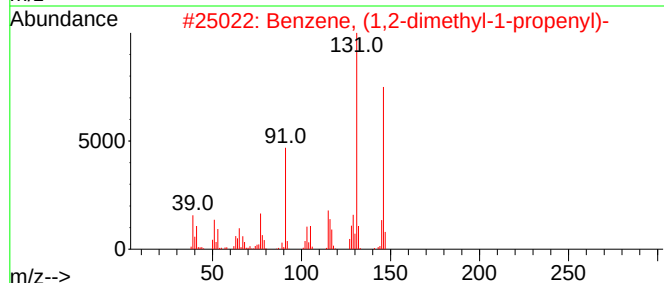
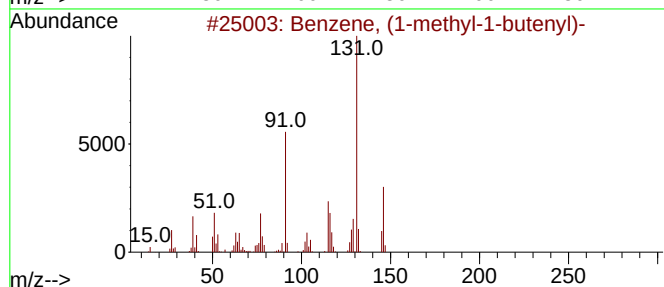
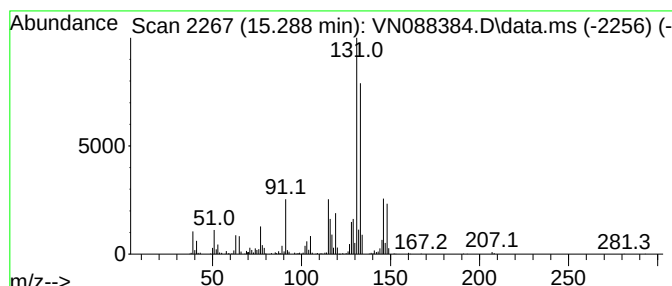
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Quant Title : SW846 8260

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

Peak Number 12 Benzene, (1-methyl-1-butenyl)- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.288	41.06 ug/l	1367080	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	90
2			Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	89
3			1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	70
4			Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	70
5			Benzene, 1-methyl-2-(1-methyl-2-...	146	C11H14	097664-19-2	60



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

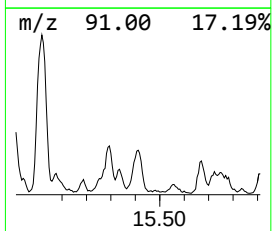
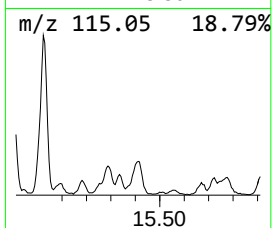
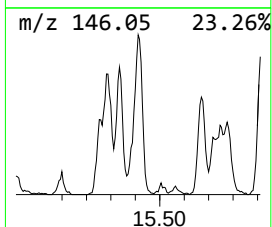
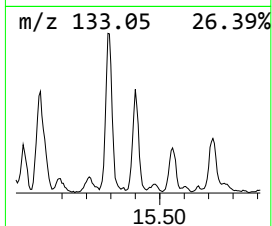
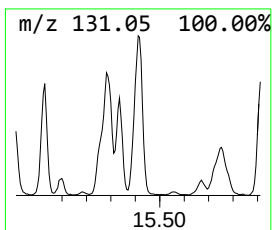
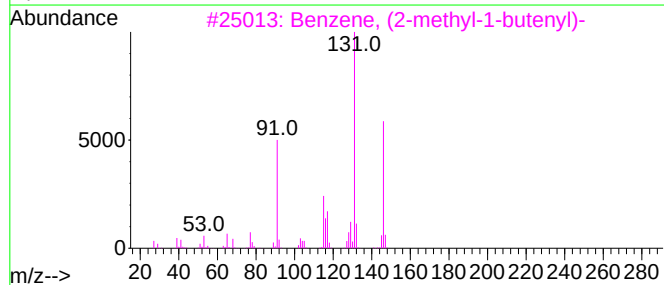
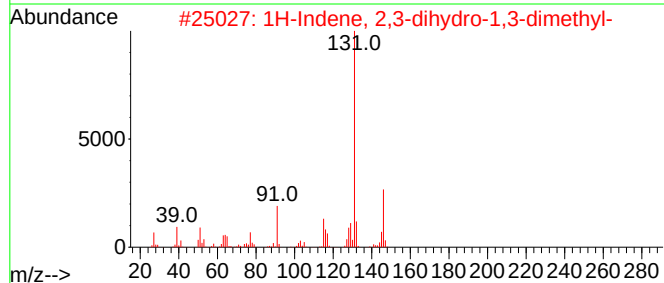
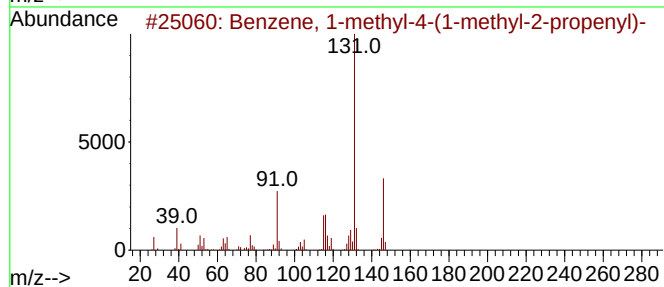
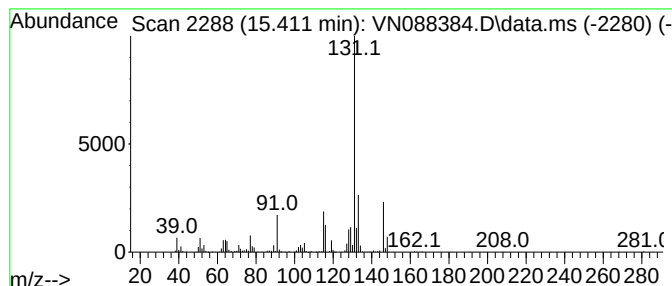
Instrument :
MSVOA_N
ClientSampleId :
MW5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

Peak Number 13 Benzene, 1-methyl-4-(1-meth... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.411	37.15 ug/l	1236910	1,4-Dichlorobenzene-d4	13.770	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	87
2	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	81
3	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	81
4	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	81
5	Benzene, 1-methyl-3-(1-methyl-2-...	146	C11H14	052161-57-6	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

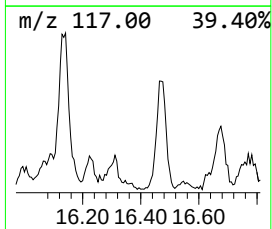
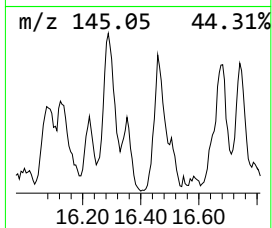
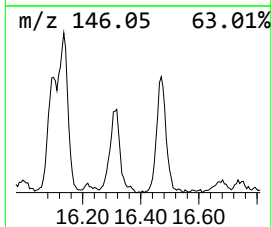
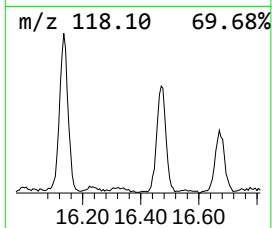
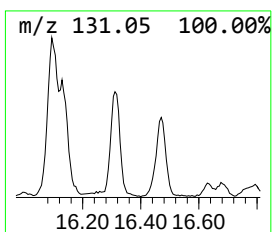
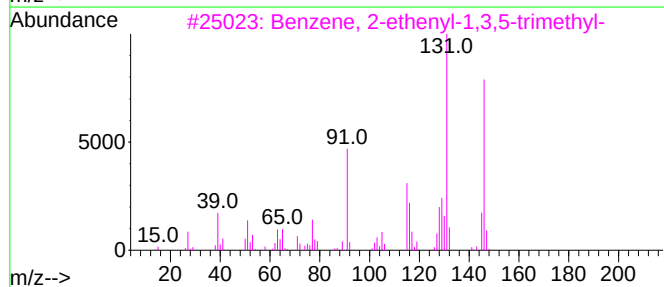
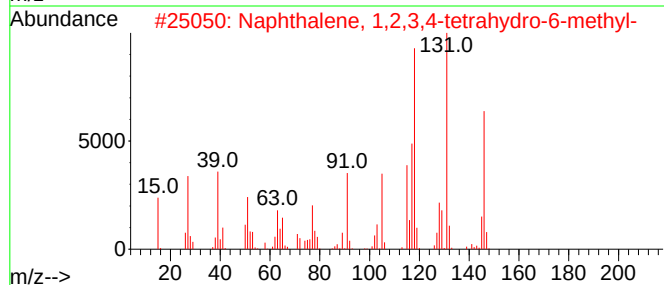
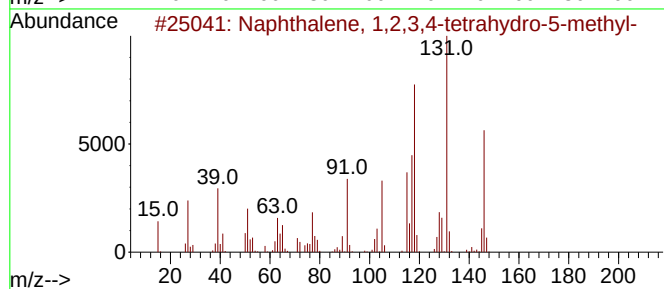
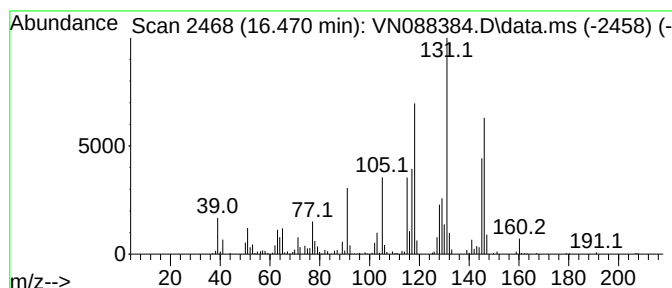
Instrument :
MSVOA_N
ClientSampleId :
MW5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

Peak Number 14 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD			R.T.
16.470	25.15 ug/l	837431	1,4-Dichlorobenzene-d4			13.770
Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	90
2		Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	89
3		Benzene, 2-ethenyl-1,3,5-trimethyl-	146	C11H14	000769-25-5	83
4		1H-1,3,2-Benzodiazaborole, 2-eth...	146	C8H11BN2	074663-81-3	68
5		1H-Benzimidazole, 5,6-dimethyl-	146	C9H10N2	000582-60-5	60



5

A

B

C

D

E

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H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088384.D
Acq On : 01 Dec 2025 15:35
Operator : JC\MD
Sample : Q3738-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.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
Pentane, 2-methyl-	5.336	46.8	ug/l	3262800	1	8.206	3486960	50.0
Pentane, 3-methyl-	5.806	26.5	ug/l	1849390	1	8.206	3486960	50.0
Cyclopentane, m...	7.312	60.7	ug/l	4232180	1	8.206	3486960	50.0
Benzene, 1,4-di...	13.929	27.9	ug/l	927770	4	13.770	1664630	50.0
Benzene, 2-ethy...	14.306	80.3	ug/l	2674170	4	13.770	1664630	50.0
1,3-Cyclopentad...	14.629	57.3	ug/l	1907120	4	13.770	1664630	50.0
1H-Indene, 2,3-...	14.900	46.1	ug/l	1534020	4	13.770	1664630	50.0
Benzene, 2-ethe...	15.023	137.1	ug/l	4565820	4	13.770	1664630	50.0
Benzene, (1-met...	15.288	41.1	ug/l	1367080	4	13.770	1664630	50.0
Benzene, 1-meth...	15.411	37.1	ug/l	1236910	4	13.770	1664630	50.0
Naphthalene, 1,...	16.470	25.1	ug/l	837431	4	13.770	1664630	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088383.D
Acq On : 01 Dec 2025 15:15
Operator : JC\MD
Sample : Q3738-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
Field

Quant Time: Dec 02 00:15:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	180723	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	412398	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	400480	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	185899	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	196906	57.838	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	115.680%
35) Dibromofluoromethane	8.147	113	149370	52.266	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.540%
50) Toluene-d8	10.547	98	534680	50.282	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.560%
62) 4-Bromofluorobenzene	12.829	95	188661	51.708	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.420%

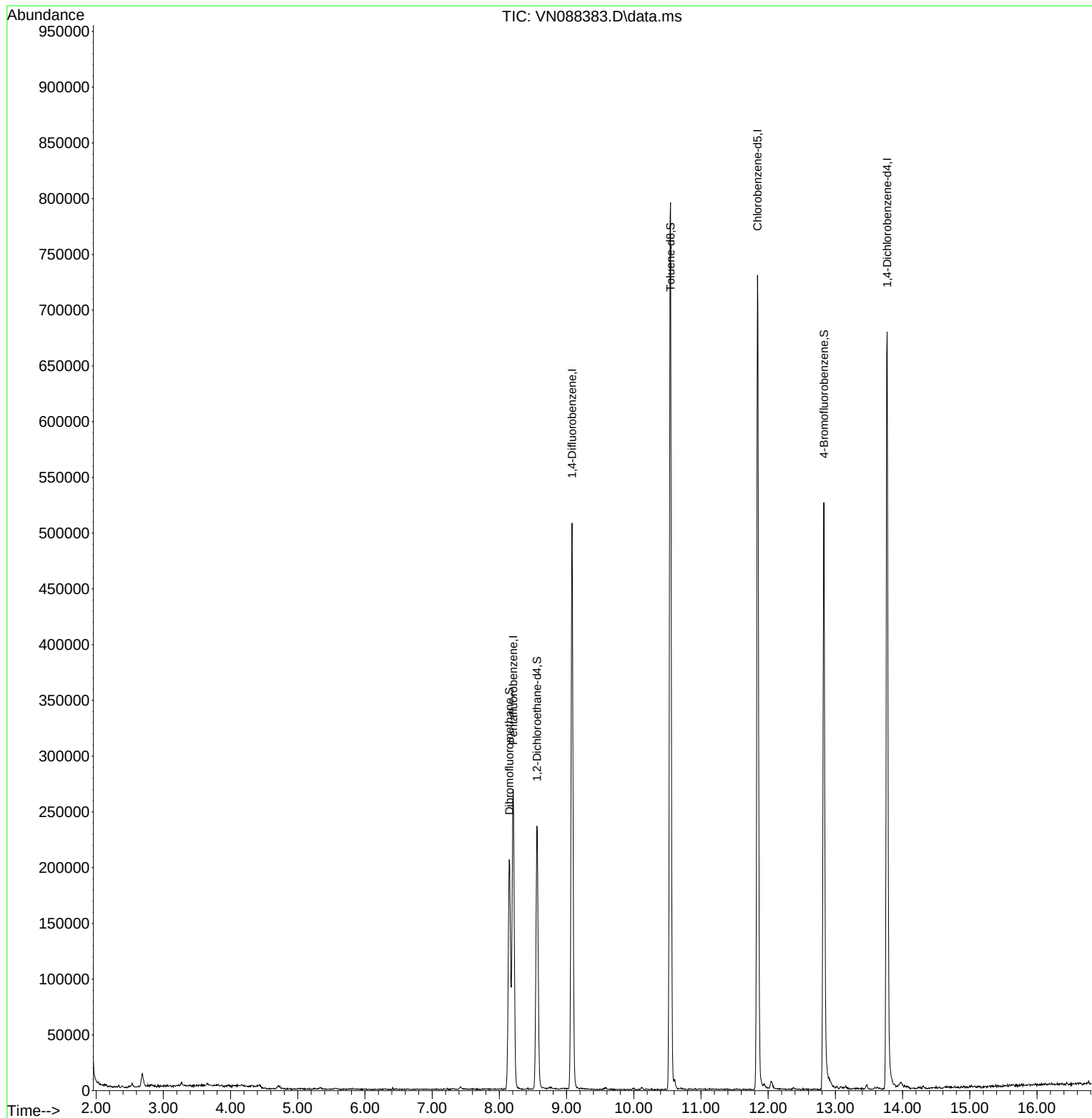
Target Compounds	Qvalue

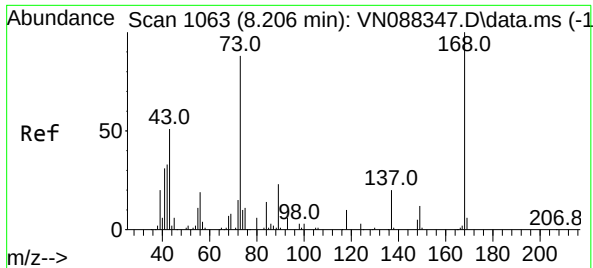
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088383.D
Acq On : 01 Dec 2025 15:15
Operator : JC\MD
Sample : Q3738-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
Field

Quant Time: Dec 02 00:15:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

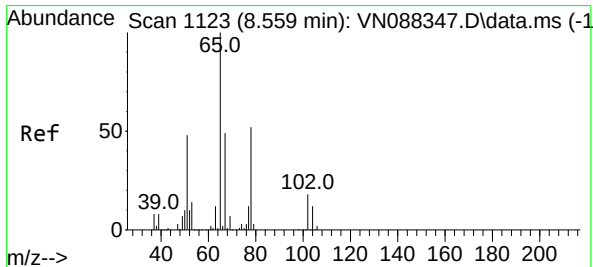
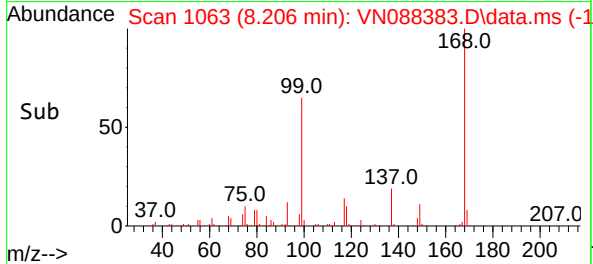
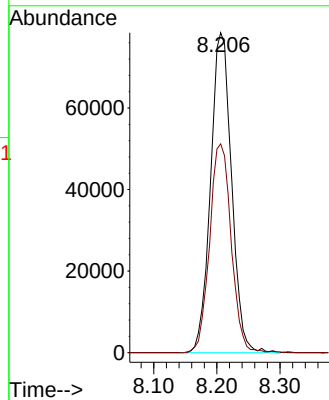
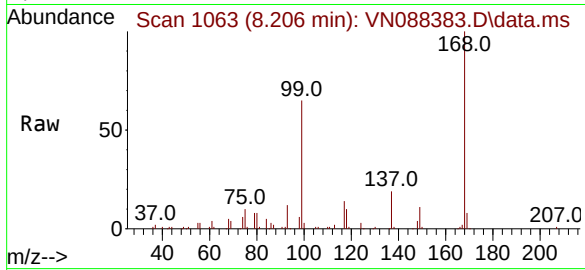




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088383.D
Acq: 01 Dec 2025 15:15

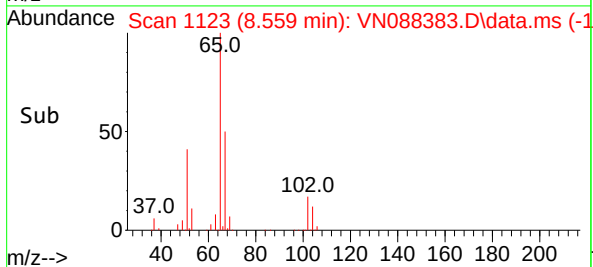
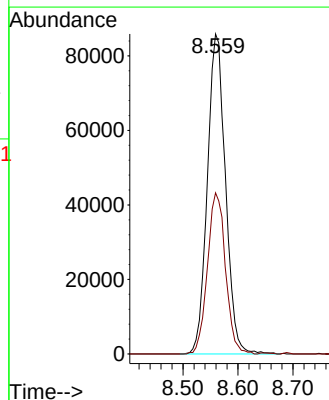
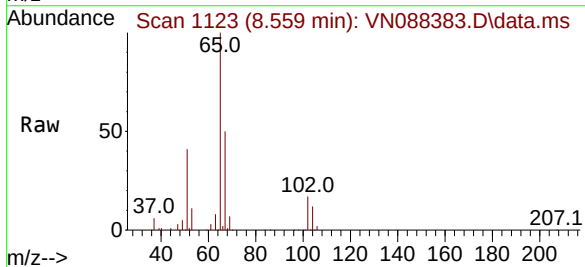
Instrument :
MSVOA_N
ClientSampleId :
Field

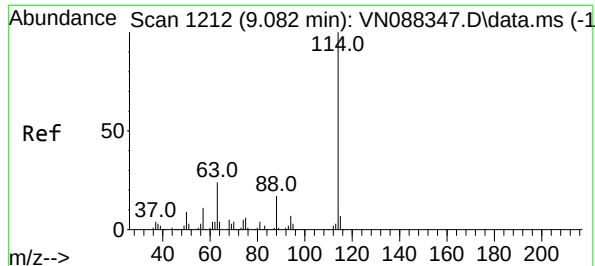
Tgt Ion:168 Resp: 180723
Ion Ratio Lower Upper
168 100
99 65.2 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 57.838 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088383.D
Acq: 01 Dec 2025 15:15

Tgt Ion: 65 Resp: 196906
Ion Ratio Lower Upper
65 100
67 50.0 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088383.D

Acq: 01 Dec 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

Field

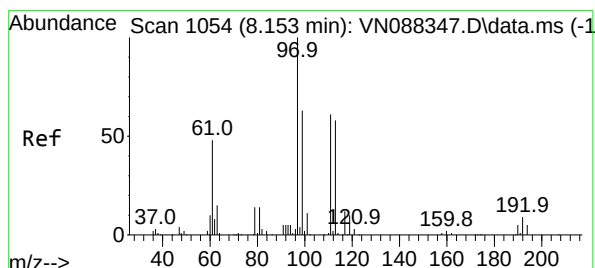
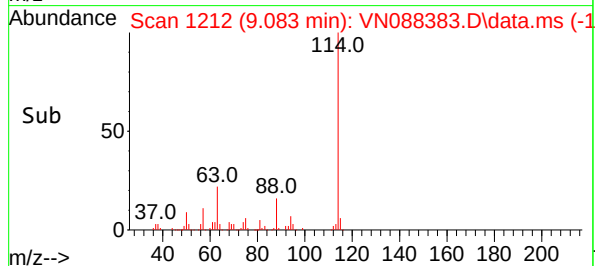
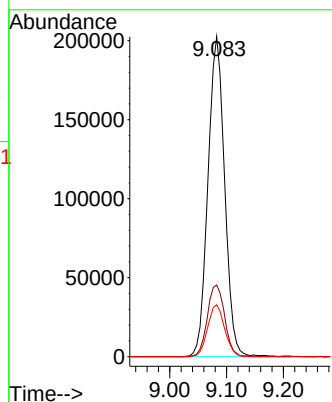
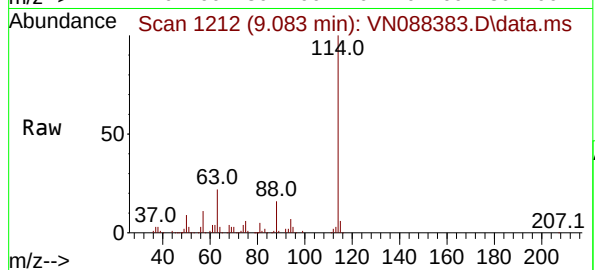
Tgt Ion:114 Resp: 412398

Ion Ratio Lower Upper

114 100

63 22.4 0.0 49.0

88 16.2 0.0 34.0



#35

Dibromofluoromethane

Concen: 52.266 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088383.D

Acq: 01 Dec 2025 15:15

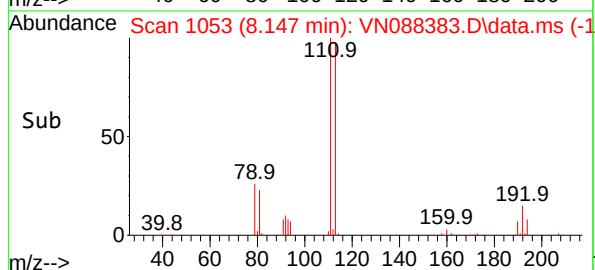
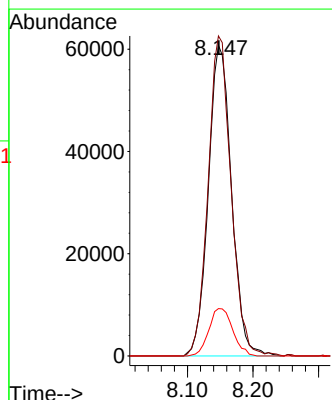
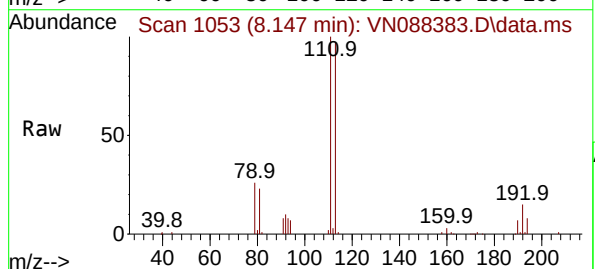
Tgt Ion:113 Resp: 149370

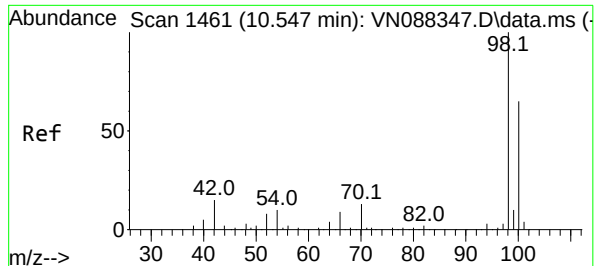
Ion Ratio Lower Upper

113 100

111 101.8 82.5 123.7

192 15.7 12.8 19.2

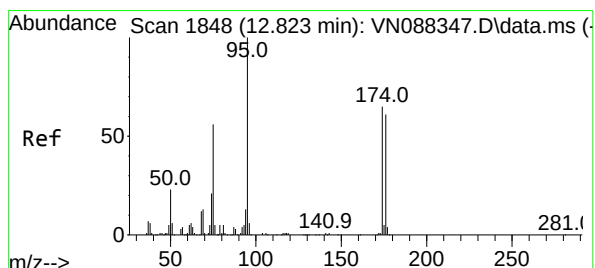
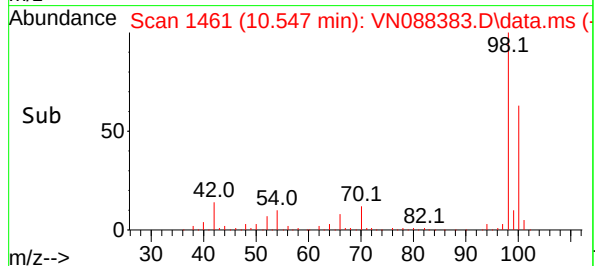
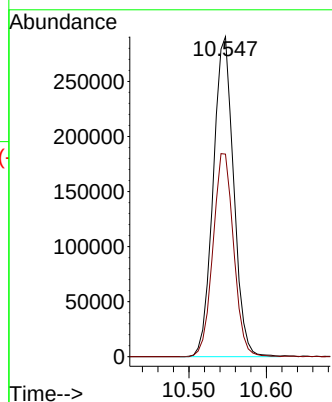
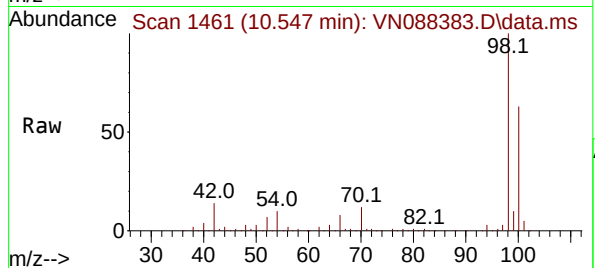




#50
Toluene-d8
Concen: 50.282 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088383.D
Acq: 01 Dec 2025 15:15

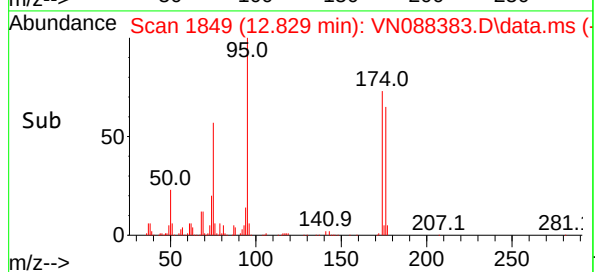
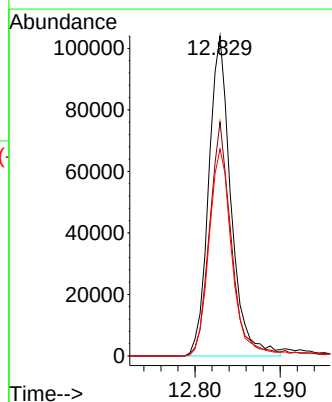
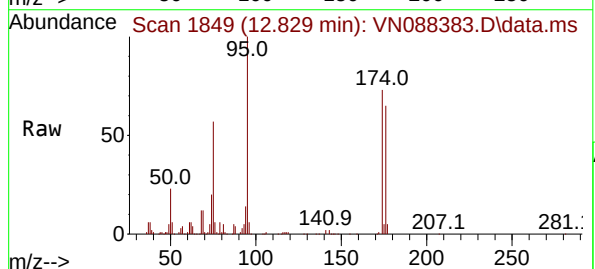
Instrument :
MSVOA_N
ClientSampleId :
Field

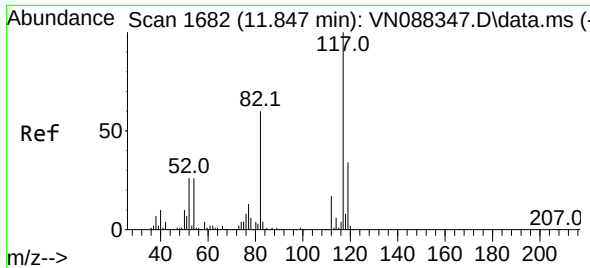
Tgt Ion: 98 Resp: 534680
Ion Ratio Lower Upper
98 100
100 64.1 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 51.708 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088383.D
Acq: 01 Dec 2025 15:15

Tgt Ion: 95 Resp: 188661
Ion Ratio Lower Upper
95 100
174 72.8 0.0 139.0
176 67.4 0.0 132.4

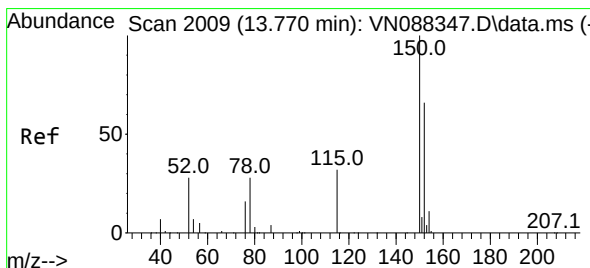
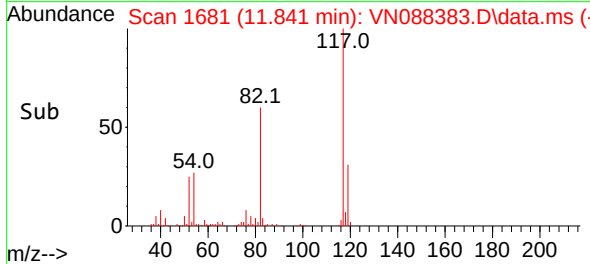
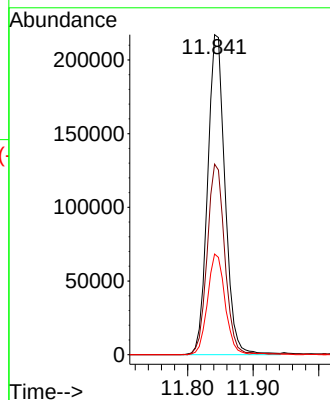
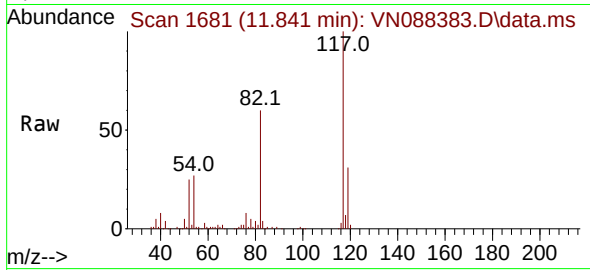




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. -0.006 min
Lab File: VN088383.D
Acq: 01 Dec 2025 15:15

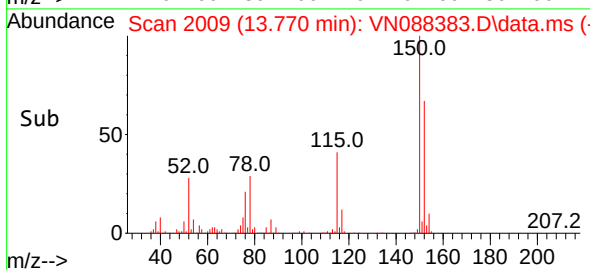
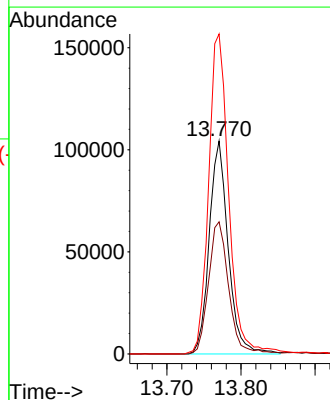
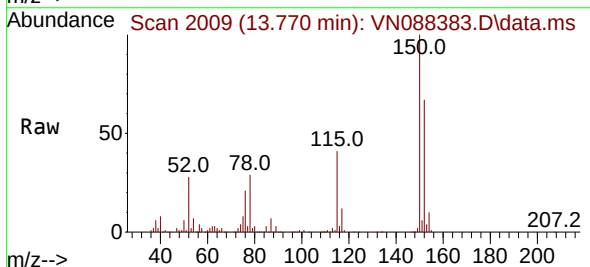
Instrument :
MSVOA_N
ClientSampleId :
Field

Tgt Ion:117 Resp: 400480
Ion Ratio Lower Upper
117 100
82 59.5 47.8 71.8
119 31.5 26.9 40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088383.D
Acq: 01 Dec 2025 15:15

Tgt Ion:152 Resp: 185899
Ion Ratio Lower Upper
152 100
115 65.7 33.0 98.9
150 158.8 0.0 349.0



5

A

B

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J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088383.D
Acq On : 01 Dec 2025 15:15
Operator : JC\MD
Sample : Q3738-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
Field

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\82N112425W.M

Title : SW846 8260

Signal : TIC: VN088383.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.689	117	125	133	rBV3	12009	27409	1.84%	0.351%
2	8.147	1044	1053	1058	rBV	205966	502571	33.81%	6.432%
3	8.206	1058	1063	1075	rVB	268280	605542	40.73%	7.749%
4	8.559	1112	1123	1136	rBV	236101	542578	36.50%	6.944%
5	9.083	1203	1212	1224	rBV	507618	1048670	70.54%	13.420%
6	10.547	1451	1461	1469	rBV	795553	1486583	100.00%	19.024%
7	11.841	1671	1681	1695	rBV	730593	1353321	91.04%	17.319%
8	12.829	1842	1849	1860	rBV	526286	961302	64.67%	12.302%
9	13.770	2001	2009	2025	rBV	679241	1286117	86.51%	16.459%

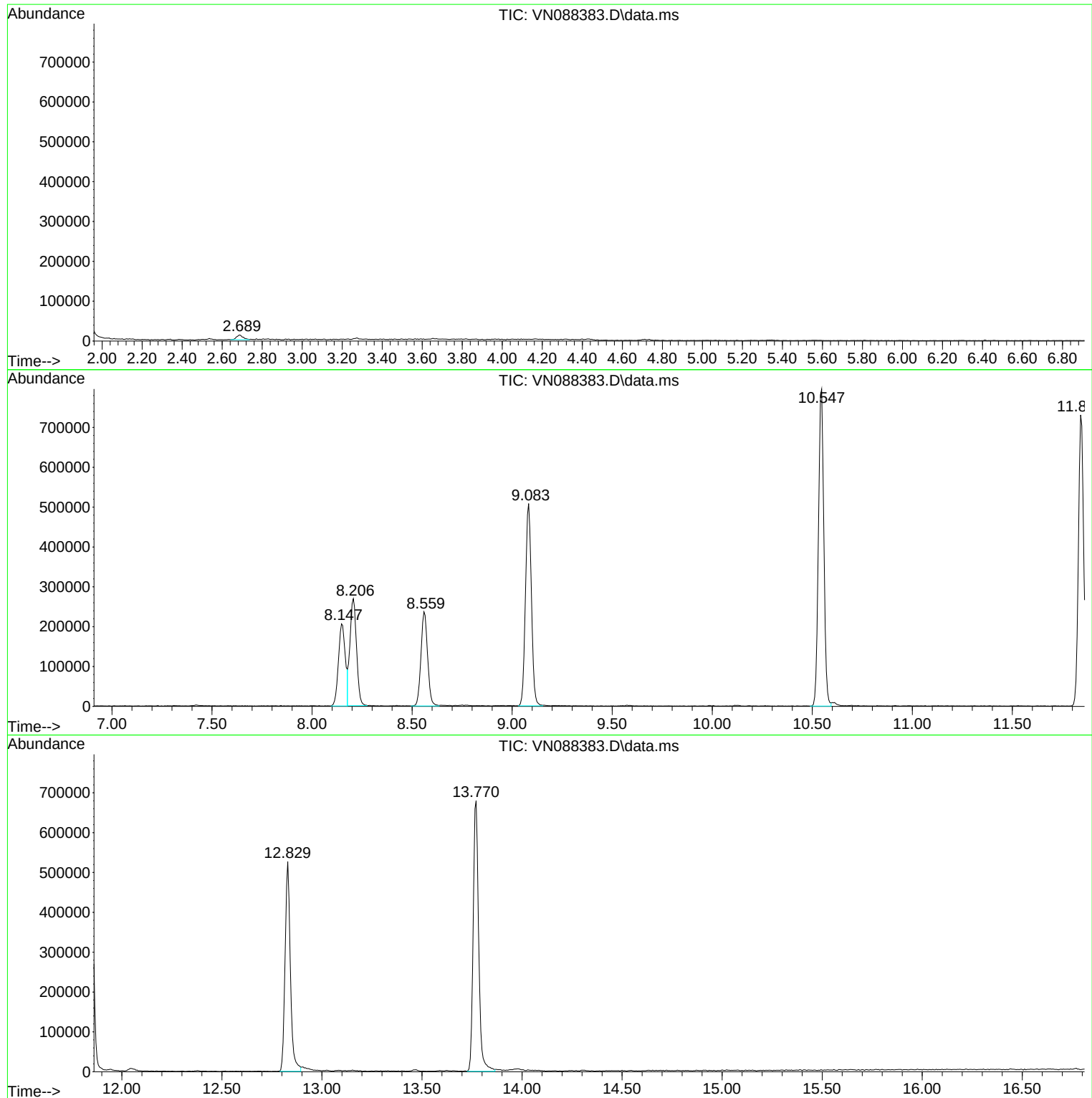
Sum of corrected areas: 7814093

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088383.D
Acq On : 01 Dec 2025 15:15
Operator : JC\MD
Sample : Q3738-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
Field

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088383.D
Acq On : 01 Dec 2025 15:15
Operator : JC\MD
Sample : Q3738-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
Field

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

5

A

B

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D

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G

H

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J

5

A

B

C

D

E

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G

H

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J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088383.D
Acq On : 01 Dec 2025 15:15
Operator : JC\MD
Sample : Q3738-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
Field

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088372.D
Acq On : 01 Dec 2025 10:53
Operator : JC\MD
Sample : VN1201WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1201WBL01

Quant Time: Dec 02 00:09:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.200	168	188076	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	435319	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	418422	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	198799	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	204928	57.841	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	115.680%
35) Dibromofluoromethane	8.147	113	157356	52.161	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.320%
50) Toluene-d8	10.541	98	561082	49.987	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.980%
62) 4-Bromofluorobenzene	12.829	95	201912	52.426	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.860%

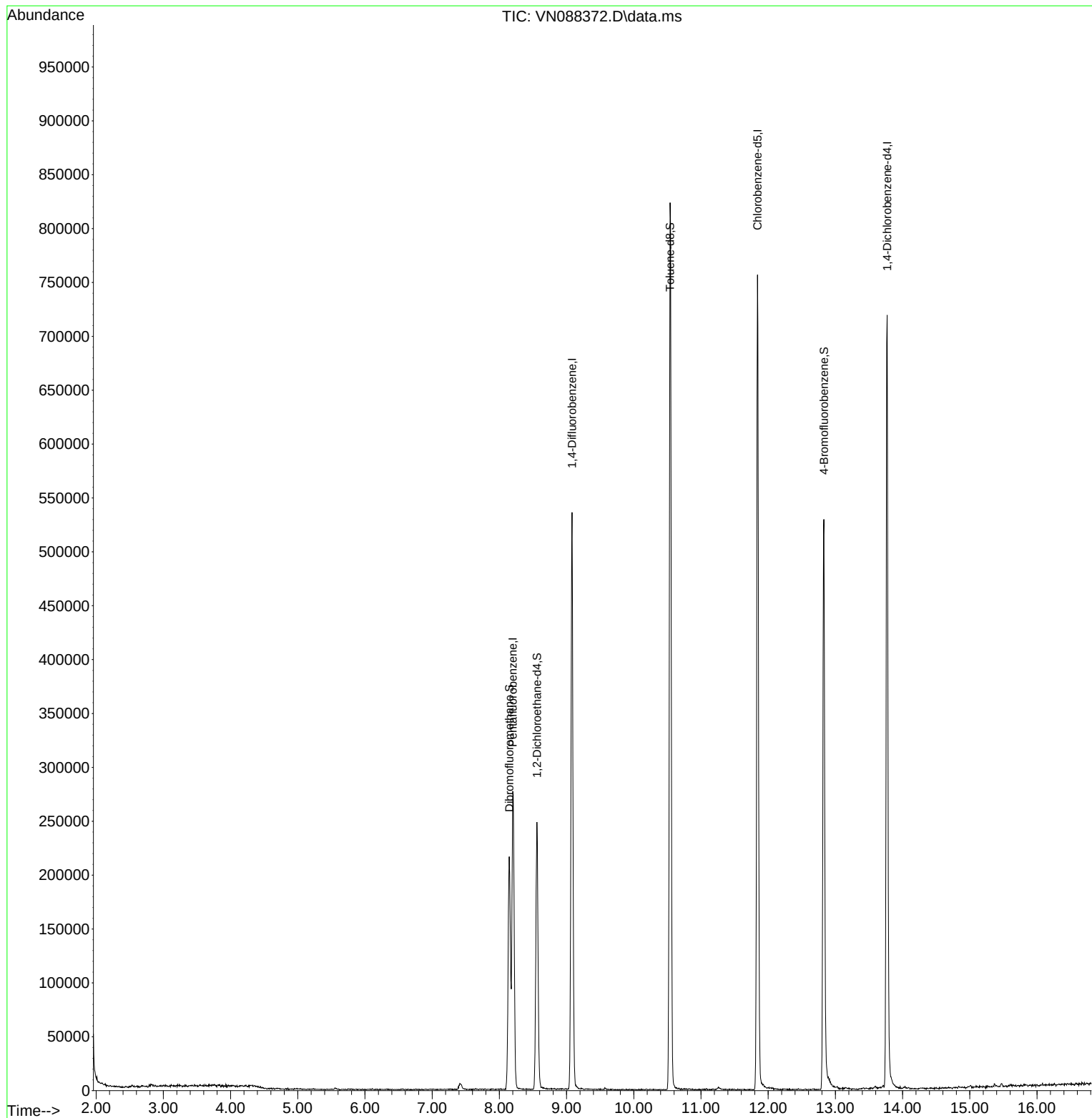
Target Compounds	Qvalue

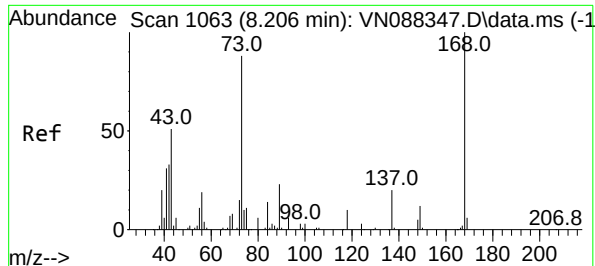
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088372.D
Acq On : 01 Dec 2025 10:53
Operator : JC\MD
Sample : VN1201WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1201WBL01

Quant Time: Dec 02 00:09:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

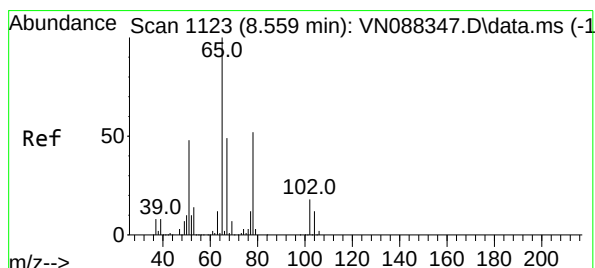
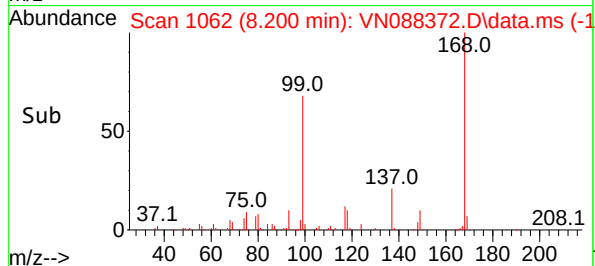
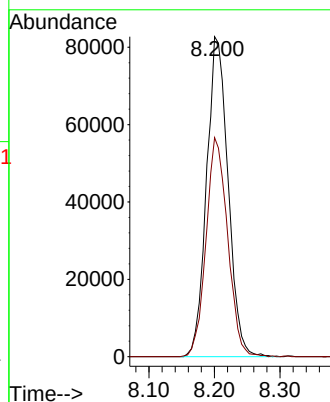
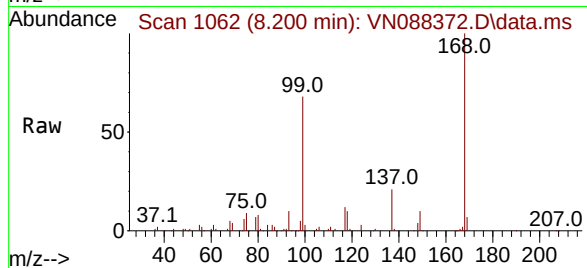




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN088372.D
Acq: 01 Dec 2025 10:53

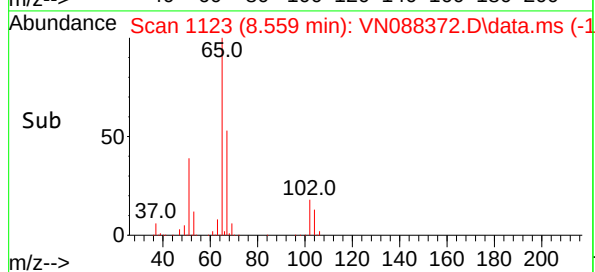
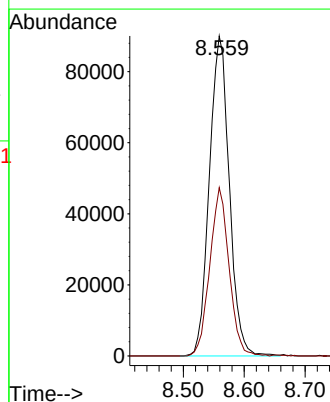
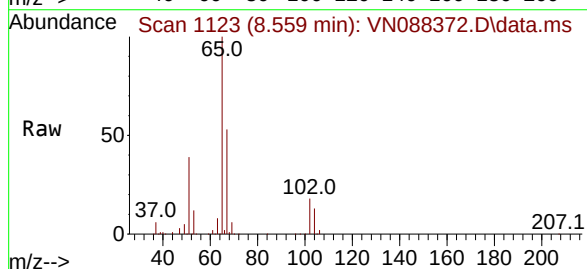
Instrument :
MSVOA_N
ClientSampleId :
VN1201WBL01

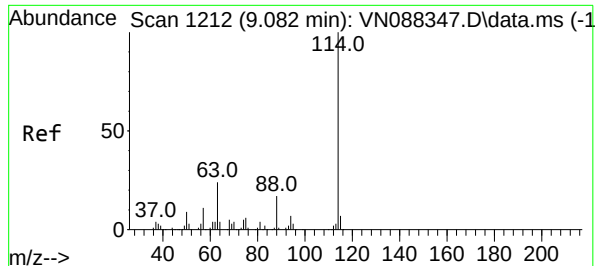
Tgt Ion:168 Resp: 188076
Ion Ratio Lower Upper
168 100
99 68.5 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 57.841 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088372.D
Acq: 01 Dec 2025 10:53

Tgt Ion: 65 Resp: 204928
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088372.D

Acq: 01 Dec 2025 10:53

Instrument :

MSVOA_N

ClientSampleId :

VN1201WBL01

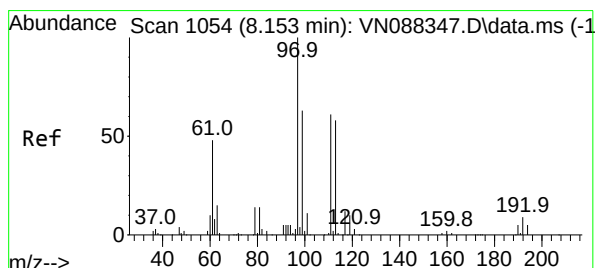
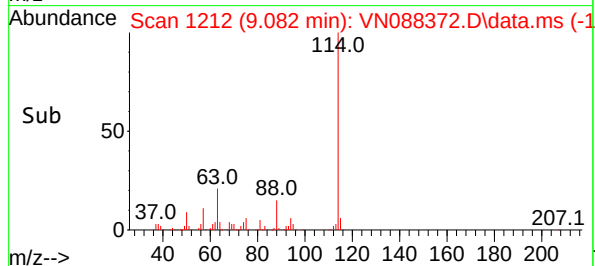
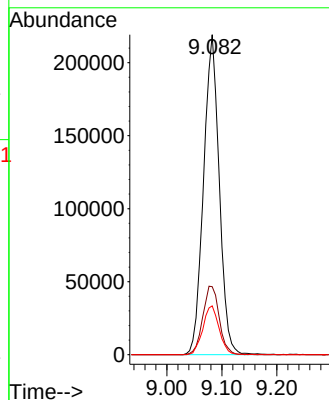
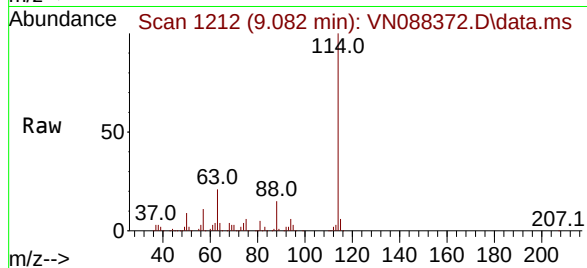
Tgt Ion:114 Resp: 435319

Ion Ratio Lower Upper

114 100

63 21.3 0.0 49.0

88 15.3 0.0 34.0



#35

Dibromofluoromethane

Concen: 52.161 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088372.D

Acq: 01 Dec 2025 10:53

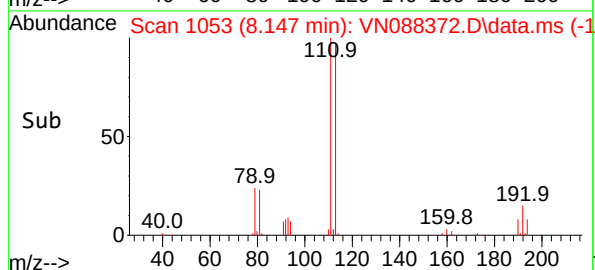
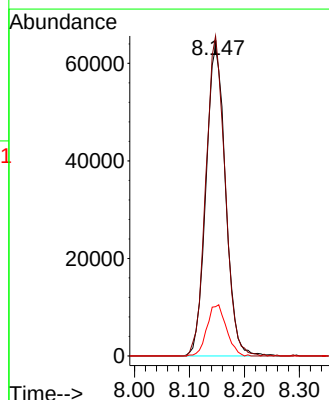
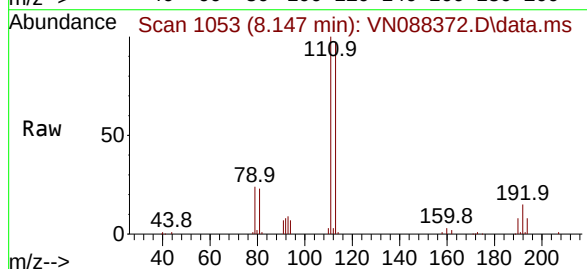
Tgt Ion:113 Resp: 157356

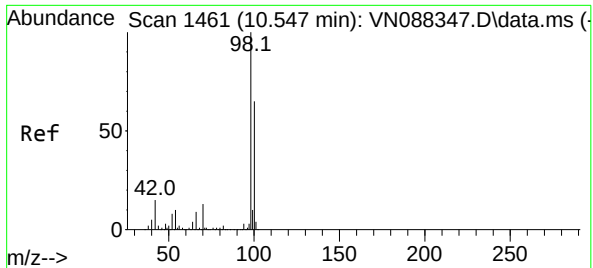
Ion Ratio Lower Upper

113 100

111 101.1 82.5 123.7

192 16.3 12.8 19.2

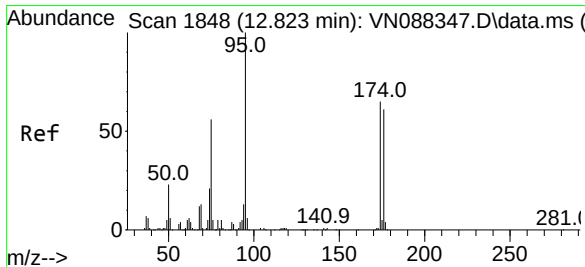
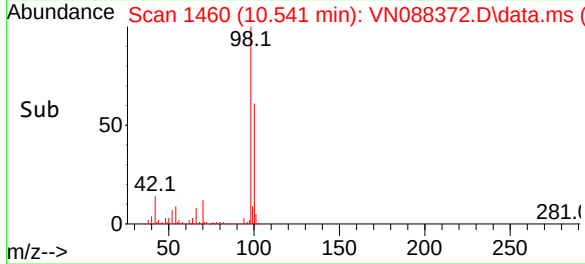
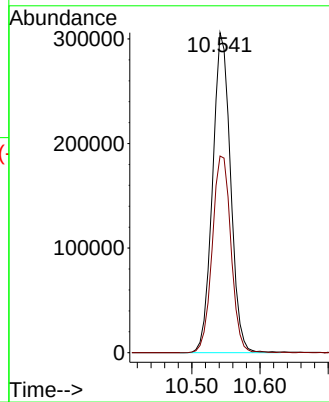
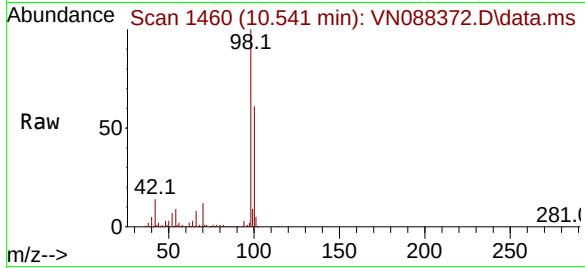




#50
Toluene-d8
Concen: 49.987 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088372.D
Acq: 01 Dec 2025 10:53

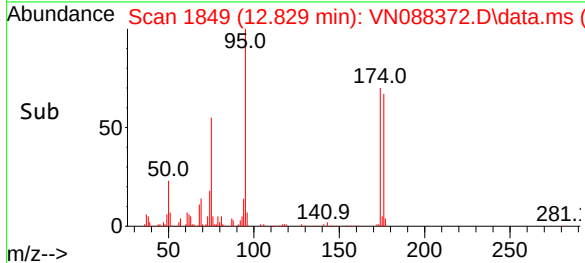
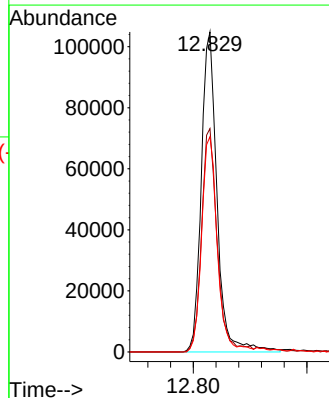
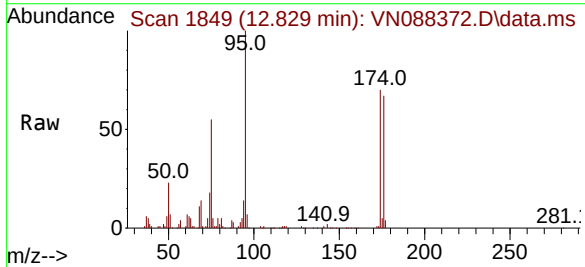
Instrument :
MSVOA_N
ClientSampleId :
VN1201WBL01

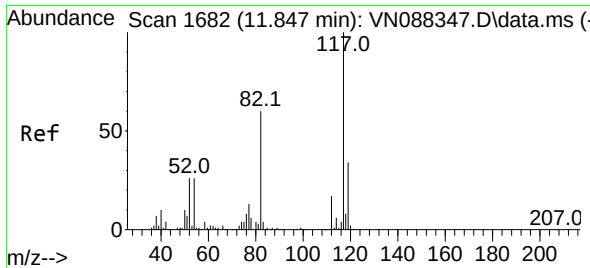
Tgt Ion: 98 Resp: 561082
Ion Ratio Lower Upper
98 100
100 64.0 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 52.426 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088372.D
Acq: 01 Dec 2025 10:53

Tgt Ion: 95 Resp: 201912
Ion Ratio Lower Upper
95 100
174 69.2 0.0 139.0
176 67.0 0.0 132.4

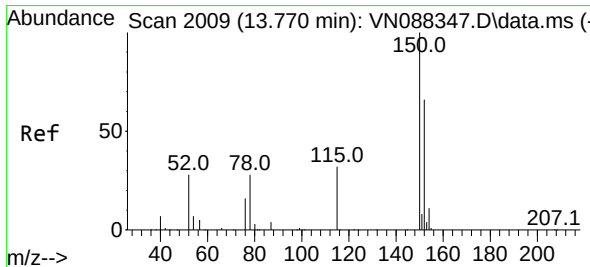
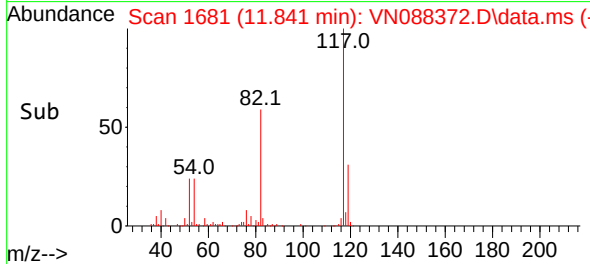
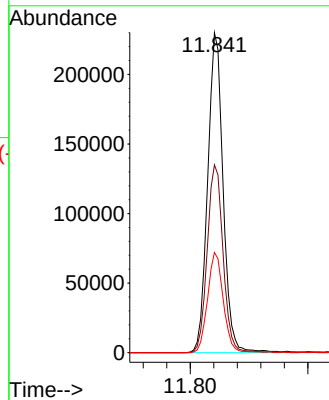
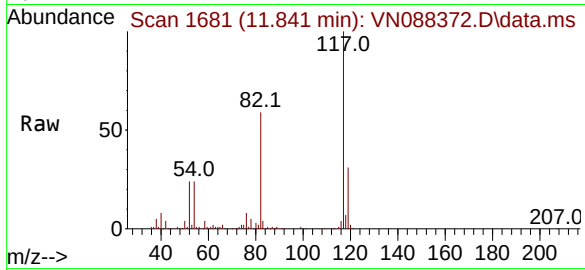




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. -0.006 min
Lab File: VN088372.D
Acq: 01 Dec 2025 10:53

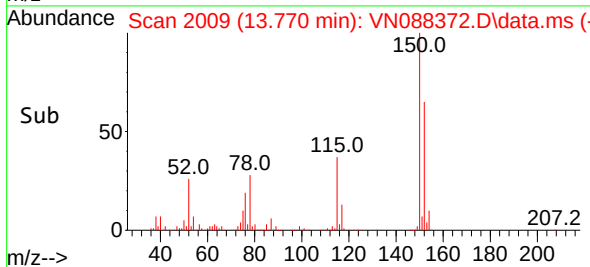
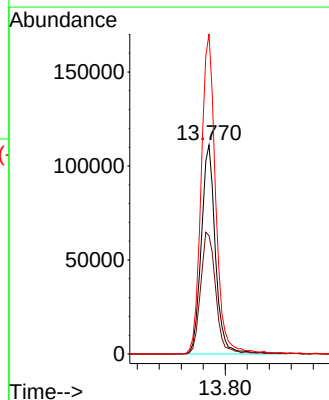
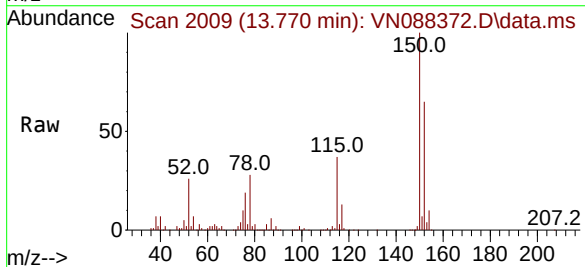
Instrument :
MSVOA_N
ClientSampleId :
VN1201WBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.8	71.8
119	31.3	26.9	40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088372.D
Acq: 01 Dec 2025 10:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.5	33.0	98.9
150	156.8	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088372.D
Acq On : 01 Dec 2025 10:53
Operator : JC\MD
Sample : VN1201WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1201WBL01

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\82N112425W.M

Title : SW846 8260

Signal : TIC: VN088372.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.412	921	928	937	rBV3	5682	16399	1.06%	0.202%
2	8.147	1042	1053	1058	rBV2	216362	540527	34.79%	6.646%
3	8.200	1058	1062	1077	rVB	276320	627960	40.42%	7.721%
4	8.559	1114	1123	1133	rBV	247884	561166	36.12%	6.900%
5	9.082	1203	1212	1228	rBV	535181	1099272	70.76%	13.516%
6	10.541	1452	1460	1475	rBV	822937	1553554	100.00%	19.101%
7	11.841	1672	1681	1694	rBV	756205	1399467	90.08%	17.207%
8	12.829	1841	1849	1859	rBV	529059	1004686	64.67%	12.353%
9	13.770	2001	2009	2027	rBV	716850	1330258	85.63%	16.356%

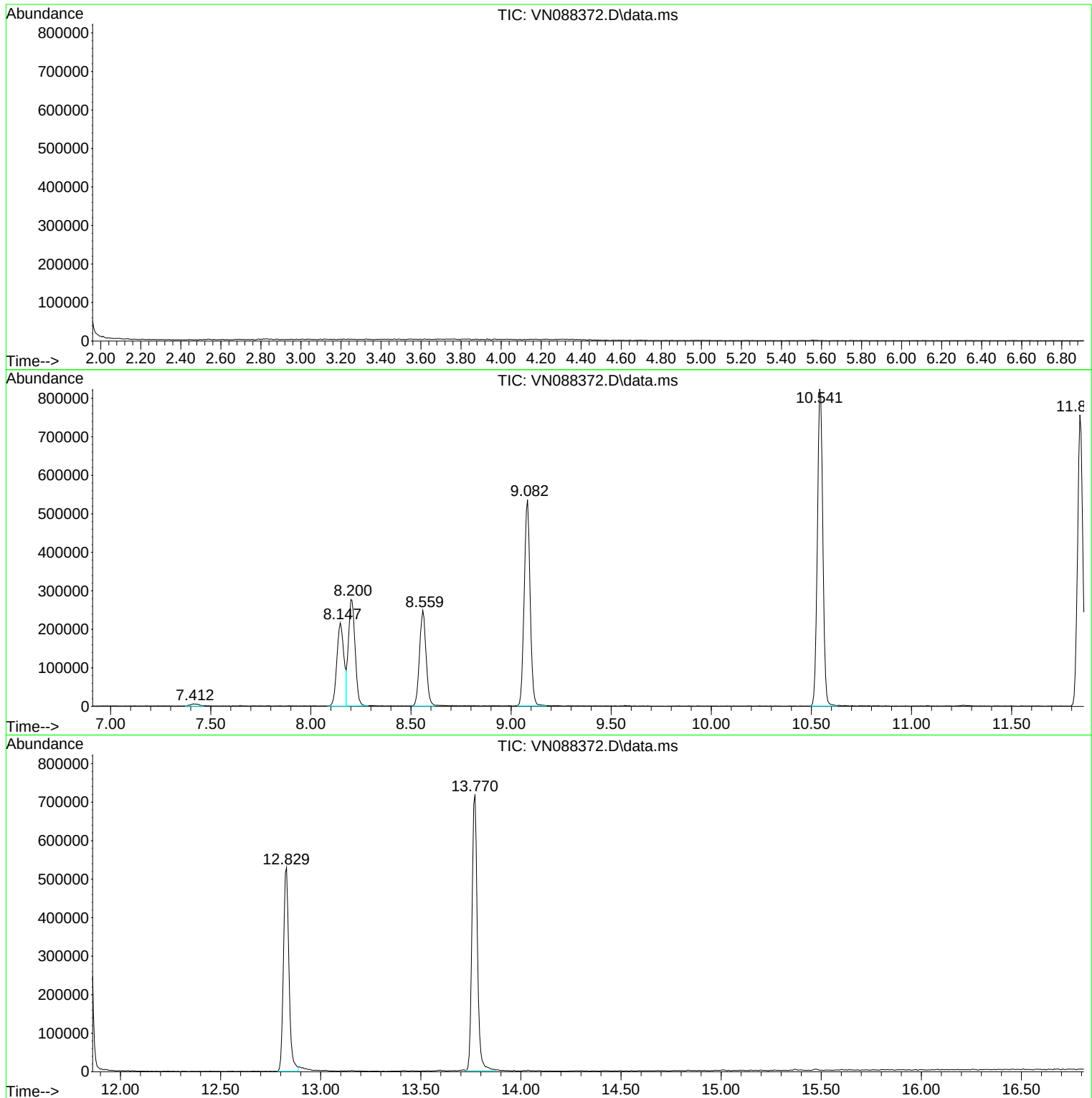
Sum of corrected areas: 8133289

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088372.D
Acq On : 01 Dec 2025 10:53
Operator : JC\MD
Sample : VN1201WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1201WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088372.D
Acq On : 01 Dec 2025 10:53
Operator : JC\MD
Sample : VN1201WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1201WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088372.D
Acq On : 01 Dec 2025 10:53
Operator : JC\MD
Sample : VN1201WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1201WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088397.D
Acq On : 02 Dec 2025 10:20
Operator : JC\MD
Sample : VN1202WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1202WBL01

Quant Time: Dec 03 01:24:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	181798	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	415636	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	401801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	185686	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	209307	61.117	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	122.240%
35) Dibromofluoromethane	8.141	113	150997	52.423	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.840%
50) Toluene-d8	10.541	98	537087	50.115	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.220%
62) 4-Bromofluorobenzene	12.823	95	190598	51.832	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.660%

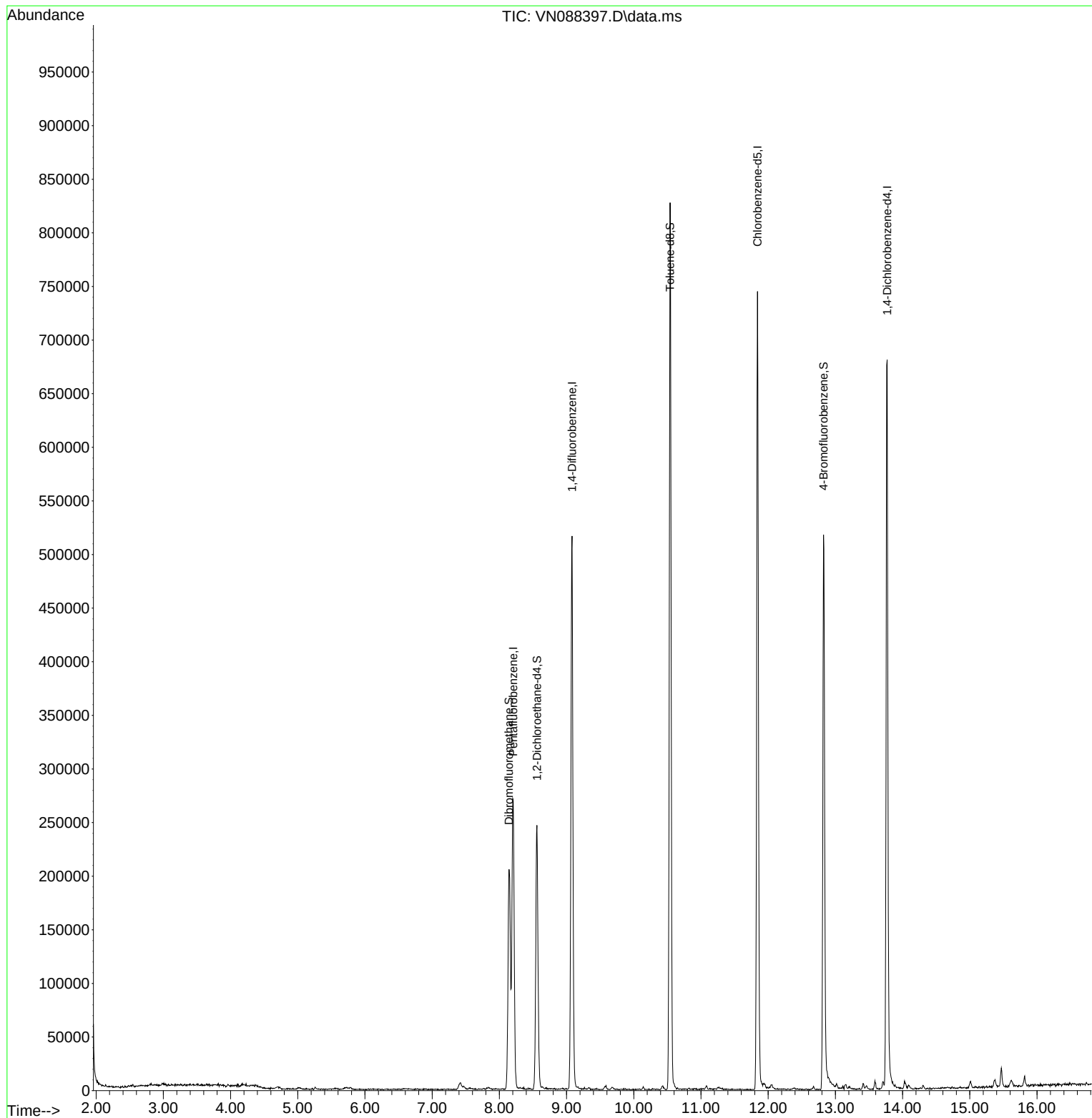
Target Compounds	Qvalue

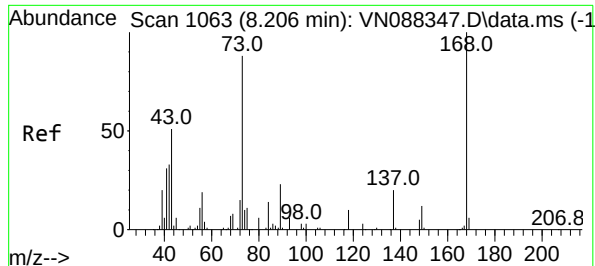
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088397.D
Acq On : 02 Dec 2025 10:20
Operator : JC\MD
Sample : VN1202WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1202WBL01

Quant Time: Dec 03 01:24:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

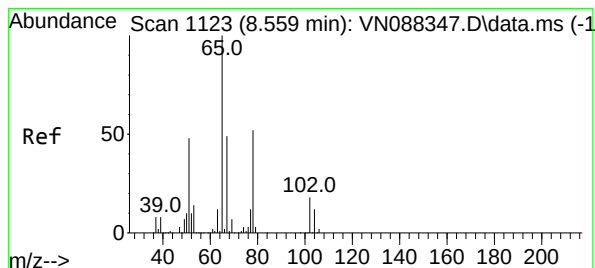
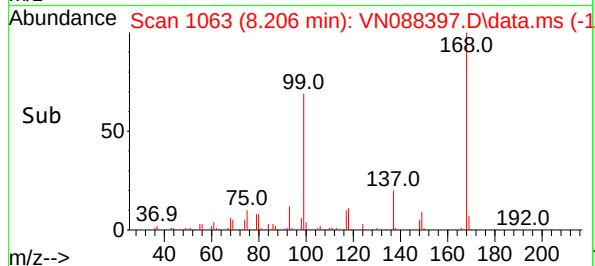
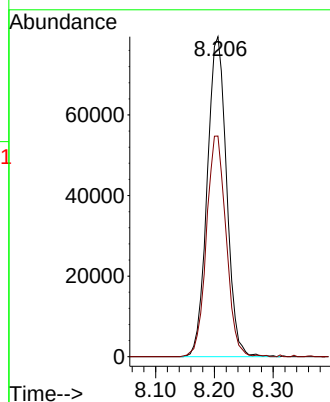
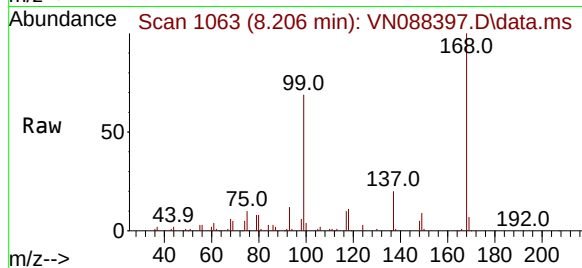




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088397.D
Acq: 02 Dec 2025 10:20

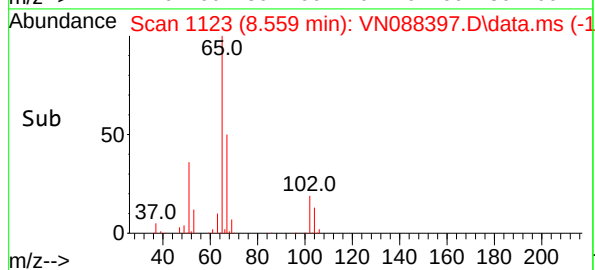
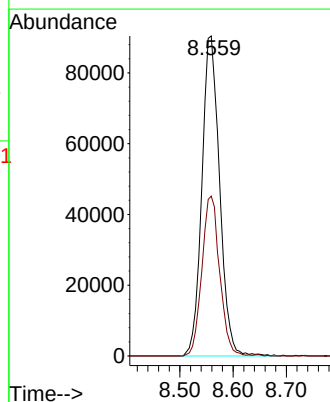
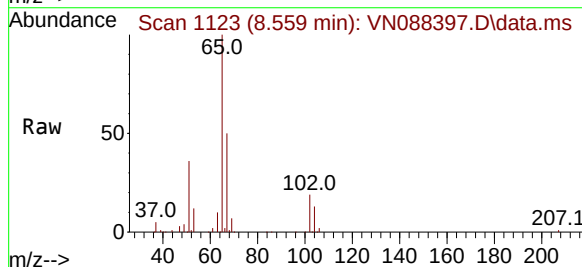
Instrument :
MSVOA_N
ClientSampleId :
VN1202WBL01

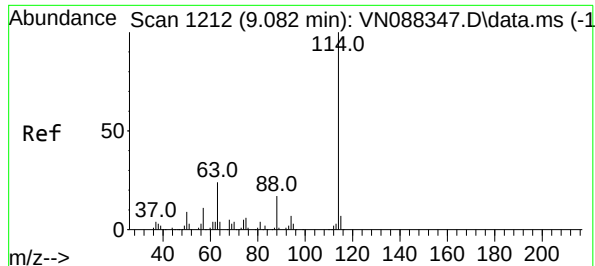
Tgt Ion:168 Resp: 181798
Ion Ratio Lower Upper
168 100
99 69.0 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 61.117 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088397.D
Acq: 02 Dec 2025 10:20

Tgt Ion: 65 Resp: 209307
Ion Ratio Lower Upper
65 100
67 50.0 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088397.D

Acq: 02 Dec 2025 10:20

Instrument :

MSVOA_N

ClientSampleId :

VN1202WBL01

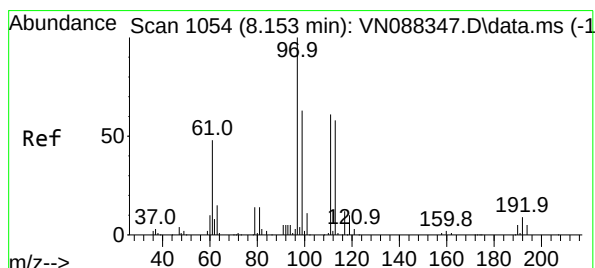
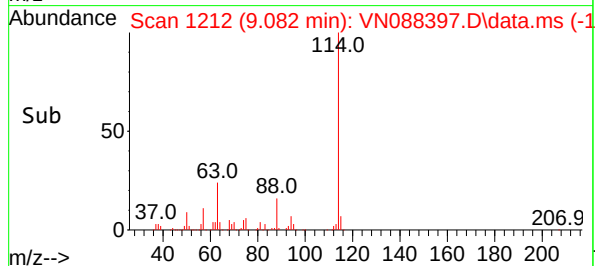
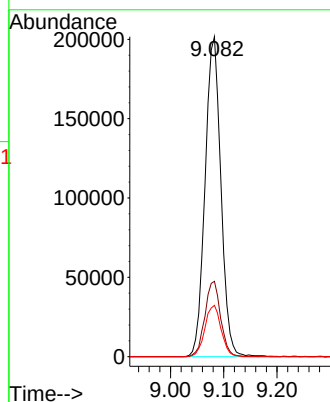
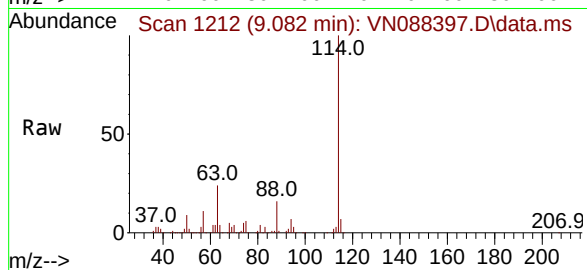
Tgt Ion:114 Resp: 415636

Ion Ratio Lower Upper

114 100

63 23.5 0.0 49.0

88 16.0 0.0 34.0



#35

Dibromofluoromethane

Concen: 52.423 ug/l

RT: 8.141 min Scan# 1052

Delta R.T. -0.012 min

Lab File: VN088397.D

Acq: 02 Dec 2025 10:20

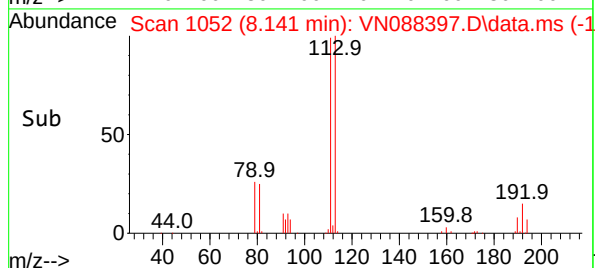
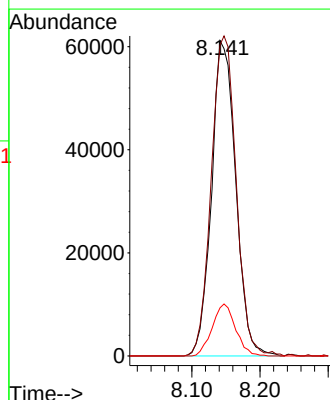
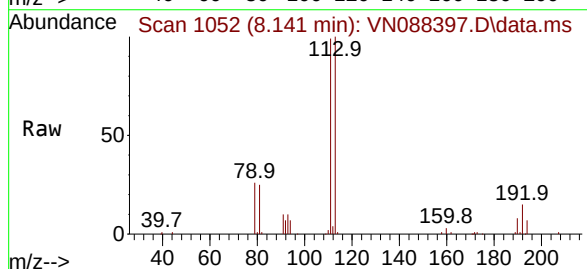
Tgt Ion:113 Resp: 150997

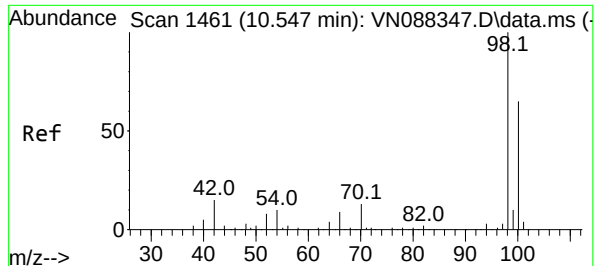
Ion Ratio Lower Upper

113 100

111 104.4 82.5 123.7

192 16.0 12.8 19.2





#50

Toluene-d8

Concen: 50.115 ug/l

RT: 10.541 min Scan# 1461

Delta R.T. -0.006 min

Lab File: VN088397.D

Acq: 02 Dec 2025 10:20

Instrument :

MSVOA_N

ClientSampleId :

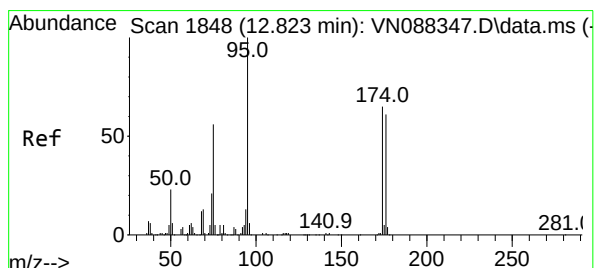
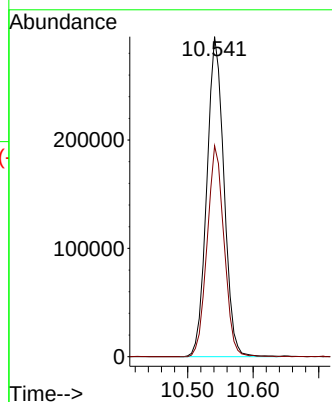
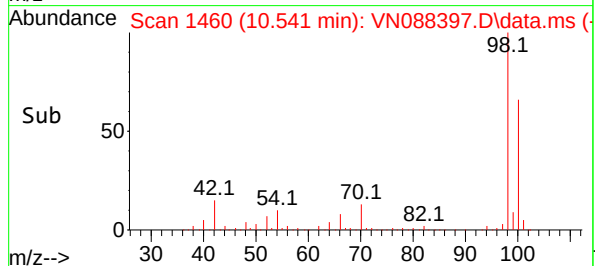
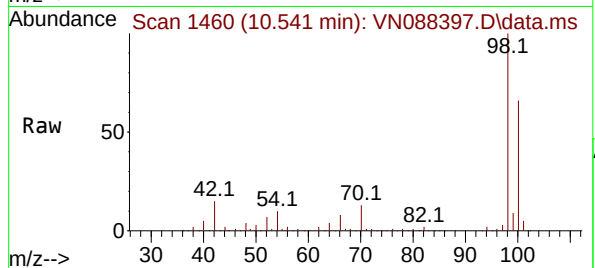
VN1202WBL01

Tgt Ion: 98 Resp: 537087

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 51.832 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. -0.000 min

Lab File: VN088397.D

Acq: 02 Dec 2025 10:20

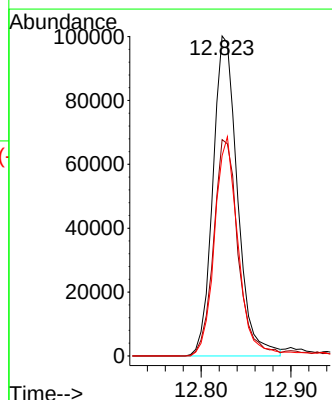
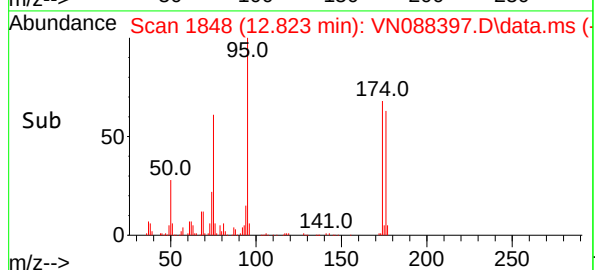
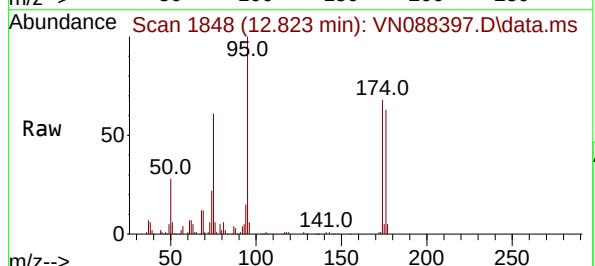
Tgt Ion: 95 Resp: 190598

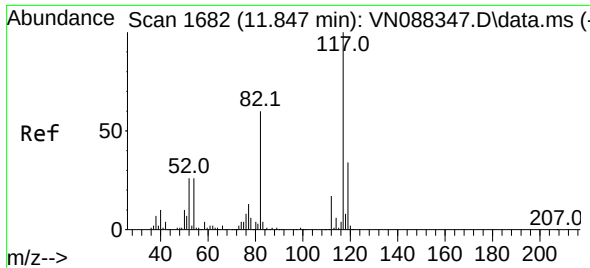
Ion Ratio Lower Upper

95 100

174 67.4 0.0 139.0

176 66.5 0.0 132.4

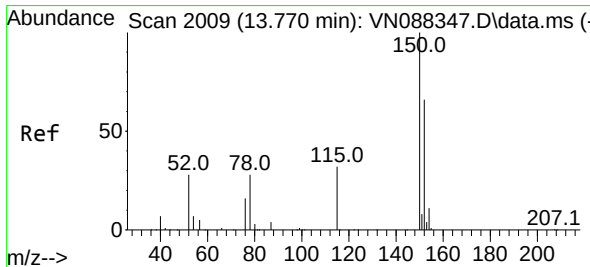
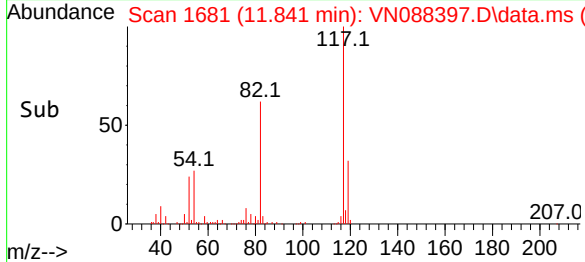
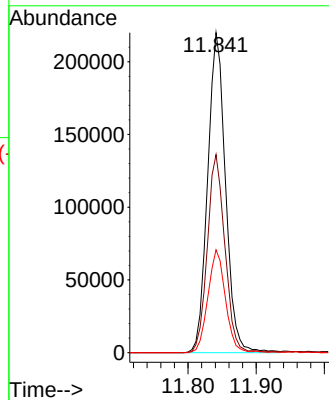
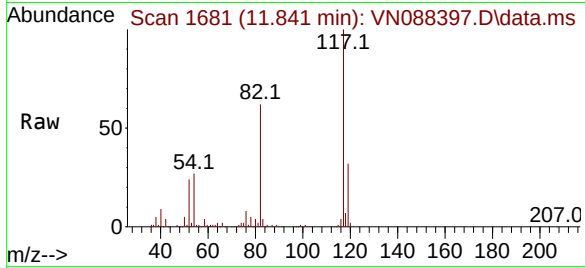




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088397.D
Acq: 02 Dec 2025 10:20

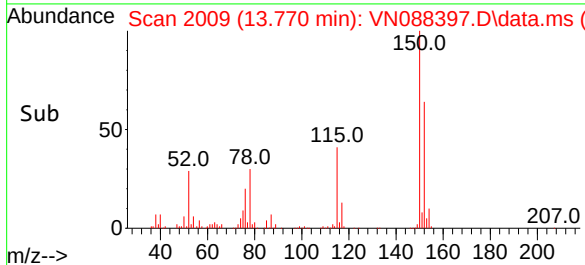
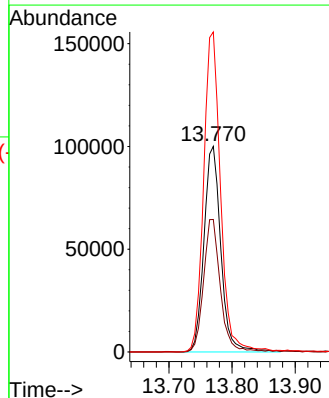
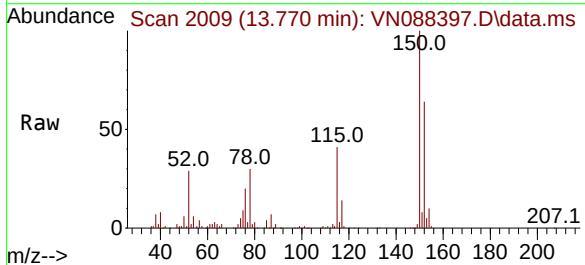
Instrument :
MSVOA_N
ClientSampleId :
VN1202WBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.9	47.8	71.8
119	32.1	26.9	40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN088397.D
Acq: 02 Dec 2025 10:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.7	33.0	98.9
150	155.6	0.0	349.0



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088397.D
Acq On : 02 Dec 2025 10:20
Operator : JC\MD
Sample : VN1202WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1202WBL01

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\82N112425W.M
Title : SW846 8260

Signal : TIC: VN088397.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.424	919	930	936	rBV3	6492	21258	1.40%	0.266%
2	8.141	1043	1052	1057	rBV	204776	500870	33.01%	6.265%
3	8.200	1057	1062	1076	rVB	270400	648173	42.72%	8.108%
4	8.559	1114	1123	1134	rBV	246216	563383	37.13%	7.047%
5	9.082	1200	1212	1225	rBV	515879	1079886	71.17%	13.508%
6	10.541	1450	1460	1476	rBV	827452	1517242	100.00%	18.979%
7	11.841	1672	1681	1694	rBV	744504	1367718	90.15%	17.109%
8	12.823	1840	1848	1859	rBV	517805	974619	64.24%	12.192%
9	13.770	2001	2009	2022	rVV	677307	1257218	82.86%	15.727%
10	15.376	2274	2282	2288	rBV7	7514	17829	1.18%	0.223%
11	15.470	2293	2298	2307	rVB5	17743	30566	2.01%	0.382%
12	15.817	2351	2357	2363	rVB6	9366	15387	1.01%	0.192%

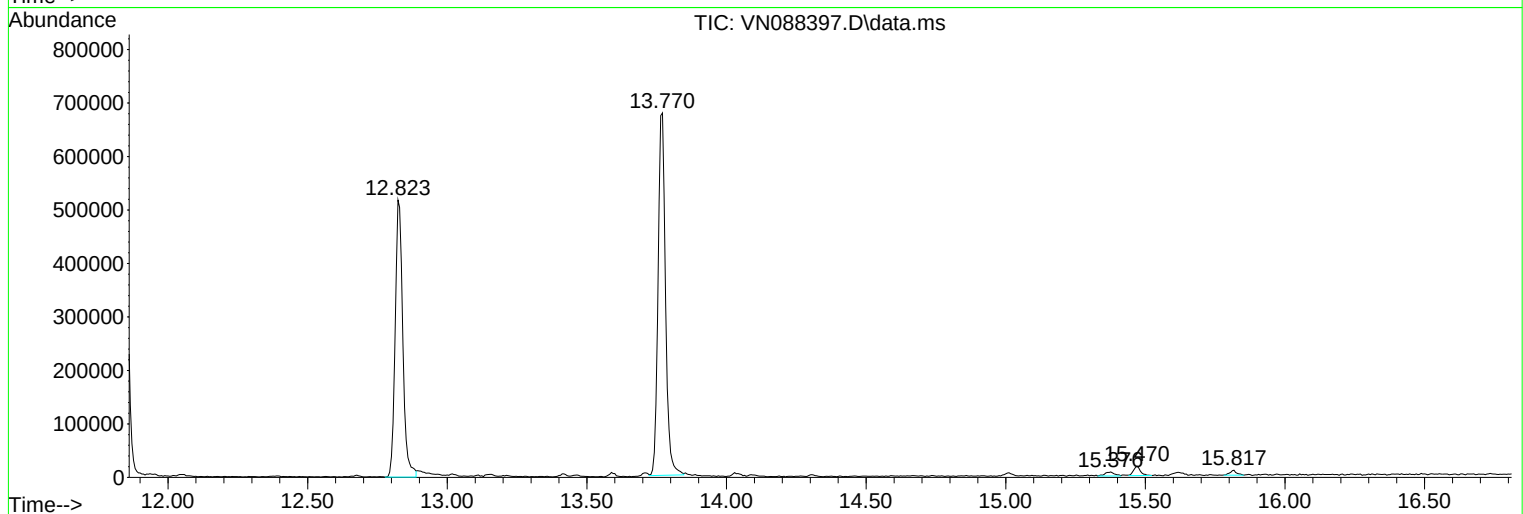
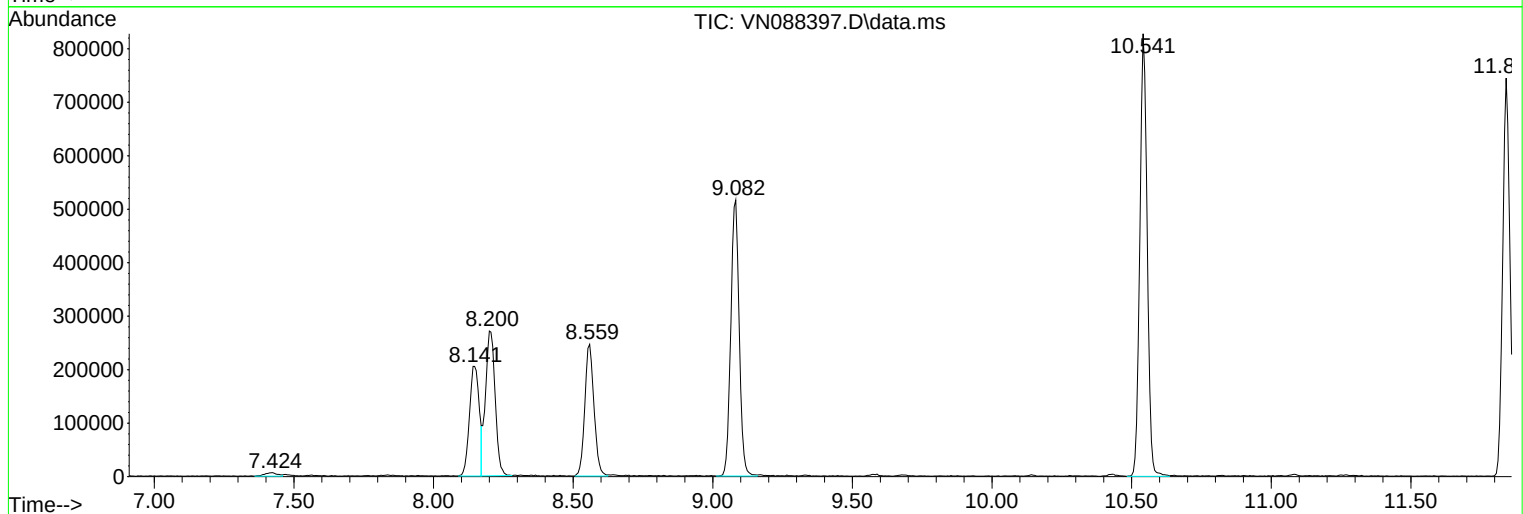
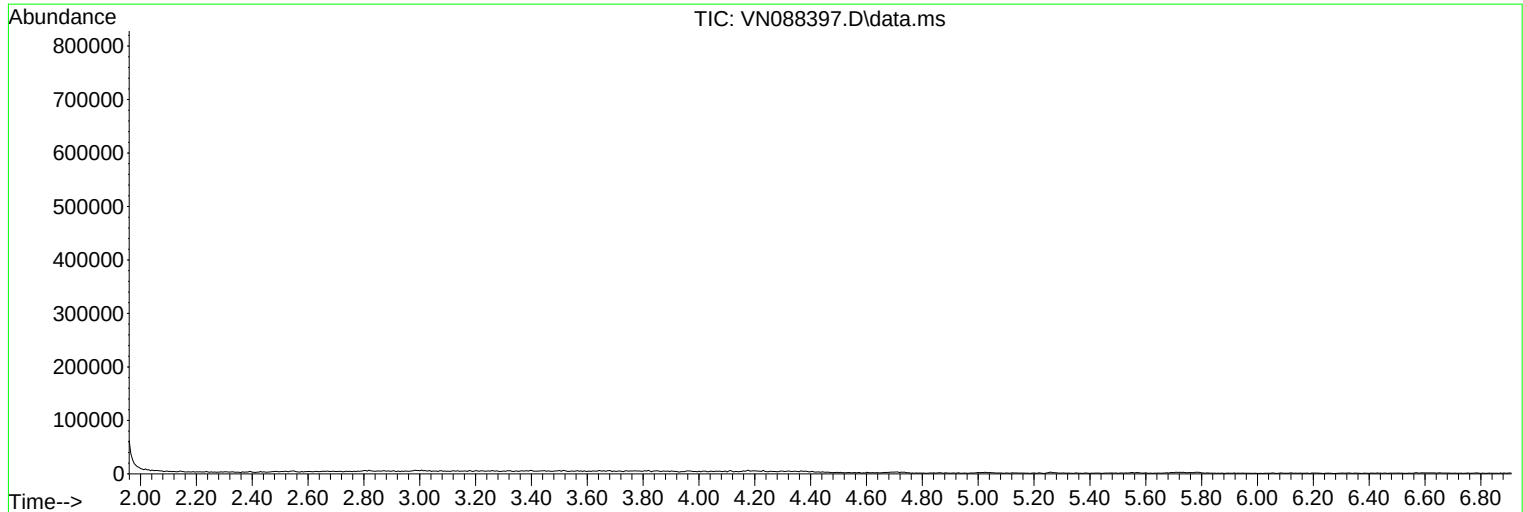
Sum of corrected areas: 7994149

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088397.D
Acq On : 02 Dec 2025 10:20
Operator : JC\MD
Sample : VN1202WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1202WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088397.D
Acq On : 02 Dec 2025 10:20
Operator : JC\MD
Sample : VN1202WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1202WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088397.D
Acq On : 02 Dec 2025 10:20
Operator : JC\MD
Sample : VN1202WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1202WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.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

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088373.D
 Acq On : 01 Dec 2025 11:27
 Operator : JC\MD
 Sample : VN1201WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1201WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 12/02/2025
 Supervised By : Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:10:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	256678	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	487472	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	435019	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	207303	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	271013	56.049	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.100%			
35) Dibromofluoromethane	8.147	113	186190	55.116	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.240%			
50) Toluene-d8	10.541	98	690335	54.922	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 109.840%			
62) 4-Bromofluorobenzene	12.829	95	230018	53.334	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.660%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.142	85	70210	18.211	ug/l	99
3) Chloromethane	2.383	50	80214	19.372	ug/l	94
4) Vinyl Chloride	2.536	62	79487	18.870	ug/l	99
5) Bromomethane	2.989	94	39940	19.700	ug/l	96
6) Chloroethane	3.142	64	50911	19.530	ug/l	99
7) Trichlorofluoromethane	3.512	101	109953	18.572	ug/l	94
8) Diethyl Ether	3.965	74	43004	19.352	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	58508	18.563	ug/l	97
10) Methyl Iodide	4.583	142	59901	19.198	ug/l	98
11) Tert butyl alcohol	5.512	59	67525	87.469	ug/l	97
12) 1,1-Dichloroethene	4.336	96	59547	19.015	ug/l	87
13) Acrolein	4.177	56	88765	120.102	ug/l	97
14) Allyl chloride	5.018	41	108153	18.633	ug/l	98
15) Acrylonitrile	5.706	53	218028	97.888	ug/l	98
16) Acetone	4.418	43	153779	87.939	ug/l	94
17) Carbon Disulfide	4.706	76	198994	19.446	ug/l	100
18) Methyl Acetate	5.018	43	99423	19.100	ug/l	98
19) Methyl tert-butyl Ether	5.783	73	233707	19.919	ug/l	100
20) Methylene Chloride	5.271	84	74861	20.009	ug/l	83
21) trans-1,2-Dichloroethene	5.771	96	68123	19.638	ug/l	89
22) Diisopropyl ether	6.653	45	255505	20.619	ug/l	93
23) Vinyl Acetate	6.589	43	1003026m	100.465	ug/l	
24) 1,1-Dichloroethane	6.547	63	139057	19.816	ug/l	100
25) 2-Butanone	7.465	43	269940	96.022	ug/l	97
26) 2,2-Dichloropropane	7.471	77	115800	19.118	ug/l	98
27) cis-1,2-Dichloroethene	7.465	96	80954	20.080	ug/l	98
28) Bromochloromethane	7.789	49	67630	19.346	ug/l #	98
29) Tetrahydrofuran	7.818	42	200576	99.471	ug/l	99
30) Chloroform	7.941	83	140173	20.329	ug/l	100
31) Cyclohexane	8.241	56	114116	17.945	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	114251	18.845	ug/l	96
36) 1,1-Dichloropropene	8.353	75	93124	17.862	ug/l	99
37) Ethyl Acetate	7.547	43	129007	18.819	ug/l	100
38) Carbon Tetrachloride	8.341	117	94912	18.287	ug/l	96
39) Methylcyclohexane	9.583	83	95473	17.120	ug/l	97
40) Benzene	8.588	78	296136	19.353	ug/l	99

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088373.D
 Acq On : 01 Dec 2025 11:27
 Operator : JC\MD
 Sample : VN1201WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VN1201WBS01

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:10:02 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M

Quant Title : SW846 8260

QLast Update : Tue Nov 25 01:34:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	63234	18.624	ug/l	98
42) 1,2-Dichloroethane	8.653	62	114468	19.607	ug/l	98
43) Isopropyl Acetate	8.671	43	195071	18.624	ug/l	98
44) Trichloroethene	9.330	130	67826	18.759	ug/l	95
45) 1,2-Dichloropropane	9.600	63	77770	19.837	ug/l	93
46) Dibromomethane	9.688	93	55251	19.747	ug/l	98
47) Bromodichloromethane	9.871	83	111551	19.540	ug/l	92
48) Methyl methacrylate	9.659	41	87729	18.357	ug/l	97
49) 1,4-Dioxane	9.683	88	21595	355.324	ug/l #	99
51) 4-Methyl-2-Pentanone	10.424	43	606997	98.320	ug/l	100
52) Toluene	10.606	92	172323	19.503	ug/l	99
53) t-1,3-Dichloropropene	10.812	75	116655	19.908	ug/l	98
54) cis-1,3-Dichloropropene	10.294	75	123675	20.070	ug/l	99
55) 1,1,2-Trichloroethane	10.994	97	68939	20.166	ug/l	96
56) Ethyl methacrylate	10.859	69	106640	19.749	ug/l	96
57) 1,3-Dichloropropane	11.141	76	122169	19.810	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.135	63	278967	89.610	ug/l	97
59) 2-Hexanone	11.177	43	363554	93.479	ug/l	98
60) Dibromochloromethane	11.335	129	78151	20.054	ug/l	97
61) 1,2-Dibromoethane	11.447	107	71254	20.583	ug/l	98
64) Tetrachloroethene	11.082	164	61757	17.907	ug/l	96
65) Chlorobenzene	11.871	112	190129	19.458	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.935	131	65977	20.020	ug/l	98
67) Ethyl Benzene	11.941	91	316848	18.553	ug/l	99
68) m/p-Xylenes	12.047	106	234320	37.005	ug/l	97
69) o-Xylene	12.376	106	110515	18.307	ug/l	100
70) Styrene	12.388	104	191890	19.577	ug/l	99
71) Bromoform	12.559	173	48189	19.963	ug/l #	99
73) Isopropylbenzene	12.676	105	285585	18.632	ug/l	99
74) N-amyl acetate	12.682	43	103450m	19.818	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.912	83	99427	20.065	ug/l	97
76) 1,2,3-Trichloropropane	12.971	75	95762m	19.723	ug/l	
77) Bromobenzene	12.959	156	70858	20.205	ug/l	97
78) n-propylbenzene	13.012	91	349255	18.625	ug/l	100
79) 2-Chlorotoluene	13.100	91	213346	18.631	ug/l	98
80) 1,3,5-Trimethylbenzene	13.147	105	239698	18.872	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.718	75	31603	18.465	ug/l #	98
82) 4-Chlorotoluene	13.200	91	222136	19.531	ug/l	99
83) tert-Butylbenzene	13.412	119	195850	18.139	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	244186	19.342	ug/l	99
85) sec-Butylbenzene	13.594	105	282563	18.217	ug/l	100
86) p-Isopropyltoluene	13.706	119	237355	18.661	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	129958	19.036	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	131944	18.451	ug/l	97
89) n-Butylbenzene	14.029	91	220480	17.853	ug/l	100
90) Hexachloroethane	14.306	117	42679	18.368	ug/l	95
91) 1,2-Dichlorobenzene	14.082	146	124887	19.439	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	21886	18.204	ug/l	99
93) 1,2,4-Trichlorobenzene	15.365	180	70611	18.498	ug/l	98
94) Hexachlorobutadiene	15.470	225	24611	17.942	ug/l	99
95) Naphthalene	15.612	128	234599	17.736	ug/l	99
96) 1,2,3-Trichlorobenzene	15.812	180	68004	18.306	ug/l	99

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088373.D
Acq On : 01 Dec 2025 11:27
Operator : JC\MD
Sample : VN1201WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1201WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:10:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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

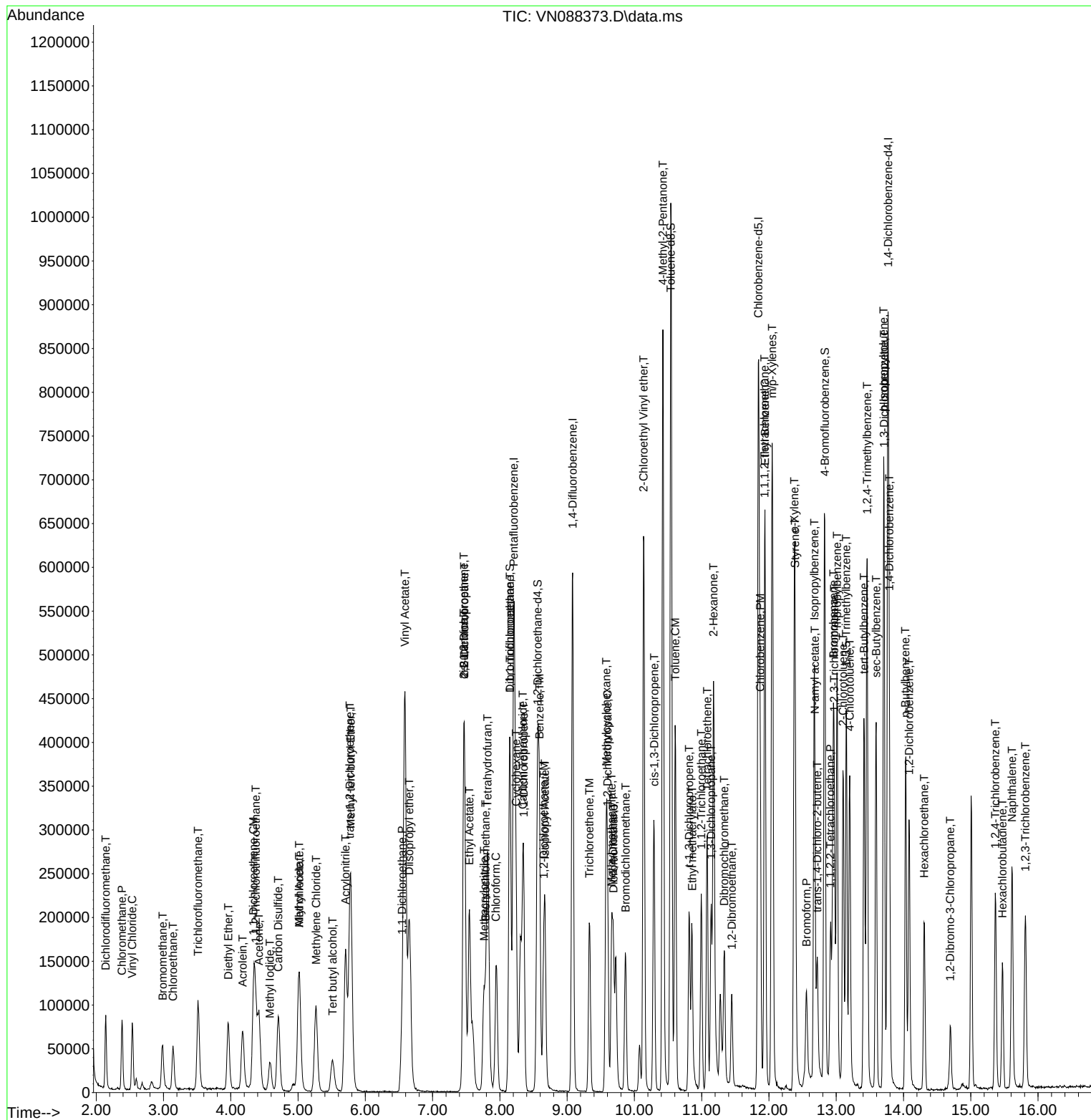
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088373.D
Acq On : 01 Dec 2025 11:27
Operator : JC\MD
Sample : VN1201WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1201WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:10:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
 Data File : VN088400.D
 Acq On : 02 Dec 2025 11:34
 Operator : JC\MD
 Sample : VN1202WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1202WBS02

Manual Integrations APPROVED

Reviewed By : John Carlone 12/03/2025
 Supervised By : Mahesh Dadoda 12/03/2025

Quant Time: Dec 03 01:25:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	245156	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	446464	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	396309	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	188408	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	240662	52.111	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.220%			
35) Dibromofluoromethane	8.147	113	161190	52.098	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.200%			
50) Toluene-d8	10.541	98	580861	50.457	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.920%			
62) 4-Bromofluorobenzene	12.823	95	194910	49.345	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.680%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	70157	19.053	ug/l	95
3) Chloromethane	2.383	50	74084	18.733	ug/l	97
4) Vinyl Chloride	2.536	62	73356	18.233	ug/l	98
5) Bromomethane	2.983	94	37837	19.540	ug/l	97
6) Chloroethane	3.142	64	46465	18.662	ug/l	98
7) Trichlorofluoromethane	3.518	101	106266	18.793	ug/l	98
8) Diethyl Ether	3.959	74	38646	18.209	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	56672	18.826	ug/l	97
10) Methyl Iodide	4.589	142	50851	17.064	ug/l	94
11) Tert butyl alcohol	5.512	59	57939	78.579	ug/l	97
12) 1,1-Dichloroethene	4.342	96	55427	18.532	ug/l	97
13) Acrolein	4.171	56	70631	100.057	ug/l	98
14) Allyl chloride	5.024	41	97630	17.611	ug/l	98
15) Acrylonitrile	5.706	53	197874	93.015	ug/l	98
16) Acetone	4.424	43	146653	87.806	ug/l	94
17) Carbon Disulfide	4.706	76	181733	18.594	ug/l	97
18) Methyl Acetate	5.024	43	98079	19.728	ug/l	96
19) Methyl tert-butyl Ether	5.789	73	219830	19.617	ug/l	100
20) Methylene Chloride	5.265	84	68202	19.086	ug/l	98
21) trans-1,2-Dichloroethene	5.777	96	61577	18.585	ug/l	92
22) Diisopropyl ether	6.653	45	232233	19.622	ug/l	95
23) Vinyl Acetate	6.589	43	948981m	99.519	ug/l	
24) 1,1-Dichloroethane	6.553	63	128842	19.223	ug/l	95
25) 2-Butanone	7.471	43	251629	93.715	ug/l	92
26) 2,2-Dichloropropane	7.471	77	108173	18.698	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	71623	18.601	ug/l	97
28) Bromochloromethane	7.794	49	69751	20.891	ug/l	99
29) Tetrahydrofuran	7.824	42	178128	92.491	ug/l	99
30) Chloroform	7.953	83	129498	19.663	ug/l	99
31) Cyclohexane	8.235	56	114899	18.917	ug/l	97
32) 1,1,1-Trichloroethane	8.147	97	108786	18.786	ug/l	98
36) 1,1-Dichloropropene	8.353	75	87696	18.366	ug/l	98
37) Ethyl Acetate	7.547	43	118314	18.844	ug/l	99
38) Carbon Tetrachloride	8.341	117	90553	19.050	ug/l	98
39) Methylcyclohexane	9.577	83	91293	17.874	ug/l	91
40) Benzene	8.582	78	261591	18.666	ug/l	98

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
 Data File : VN088400.D
 Acq On : 02 Dec 2025 11:34
 Operator : JC\MD
 Sample : VN1202WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1202WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 12/03/2025
 Supervised By :Mahesh Dadoda 12/03/2025

Quant Time: Dec 03 01:25:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	57900	18.619	ug/l	99
42) 1,2-Dichloroethane	8.647	62	108373	20.268	ug/l	99
43) Isopropyl Acetate	8.671	43	183066	19.084	ug/l	99
44) Trichloroethene	9.335	130	59332	17.917	ug/l	88
45) 1,2-Dichloropropane	9.600	63	68444	19.062	ug/l	89
46) Dibromomethane	9.682	93	50750	19.805	ug/l	100
47) Bromodichloromethane	9.865	83	103508	19.797	ug/l	95
48) Methyl methacrylate	9.665	41	84066	19.207	ug/l	97
49) 1,4-Dioxane	9.682	88	19101	343.156	ug/l #	98
51) 4-Methyl-2-Pentanone	10.424	43	563219	99.609	ug/l	99
52) Toluene	10.606	92	157757	19.495	ug/l	98
53) t-1,3-Dichloropropene	10.812	75	100141	18.659	ug/l	97
54) cis-1,3-Dichloropropene	10.294	75	107513	19.049	ug/l	96
55) 1,1,2-Trichloroethane	10.994	97	62971	20.113	ug/l	96
56) Ethyl methacrylate	10.853	69	96496	19.511	ug/l	96
57) 1,3-Dichloropropane	11.141	76	109205	19.334	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	274912	96.419	ug/l	99
59) 2-Hexanone	11.176	43	334598	93.936	ug/l	97
60) Dibromochloromethane	11.335	129	68805	19.277	ug/l	98
61) 1,2-Dibromoethane	11.447	107	61736	19.472	ug/l	100
64) Tetrachloroethene	11.082	164	52163	16.603	ug/l	97
65) Chlorobenzene	11.871	112	167678	18.836	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.941	131	57320	19.092	ug/l	97
67) Ethyl Benzene	11.941	91	287588	18.484	ug/l	99
68) m/p-Xylenes	12.047	106	216717	37.568	ug/l	100
69) o-Xylene	12.376	106	99322	18.060	ug/l	98
70) Styrene	12.388	104	172048	19.267	ug/l	99
71) Bromoform	12.559	173	43810	19.922	ug/l #	99
73) Isopropylbenzene	12.670	105	259362	18.618	ug/l	99
74) N-amyl acetate	12.682	43	94838m	19.990	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	89094	19.783	ug/l	100
76) 1,2,3-Trichloropropane	12.970	75	90661m	20.545	ug/l	
77) Bromobenzene	12.959	156	61245	19.215	ug/l	95
78) n-propylbenzene	13.012	91	327010	19.188	ug/l	99
79) 2-Chlorotoluene	13.100	91	195499	18.785	ug/l	99
80) 1,3,5-Trimethylbenzene	13.147	105	219187	18.988	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.718	75	28811	18.522	ug/l #	100
82) 4-Chlorotoluene	13.200	91	199887	19.337	ug/l	99
83) tert-Butylbenzene	13.412	119	183448	18.695	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	225422	19.647	ug/l	97
85) sec-Butylbenzene	13.588	105	270952	19.220	ug/l	99
86) p-Isopropyltoluene	13.706	119	223655	19.348	ug/l	98
87) 1,3-Dichlorobenzene	13.712	146	116423	18.764	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	121526	18.698	ug/l	96
89) n-Butylbenzene	14.029	91	209256	18.644	ug/l	99
90) Hexachloroethane	14.306	117	41518	19.661	ug/l	98
91) 1,2-Dichlorobenzene	14.088	146	109481	18.750	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	20576	18.831	ug/l	98
93) 1,2,4-Trichlorobenzene	15.364	180	62996	18.158	ug/l	96
94) Hexachlorobutadiene	15.476	225	24005	19.255	ug/l	98
95) Naphthalene	15.611	128	214287	17.825	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	62555	18.528	ug/l	99

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088400.D
Acq On : 02 Dec 2025 11:34
Operator : JC\MD
Sample : VN1202WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1202WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

Quant Time: Dec 03 01:25:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 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

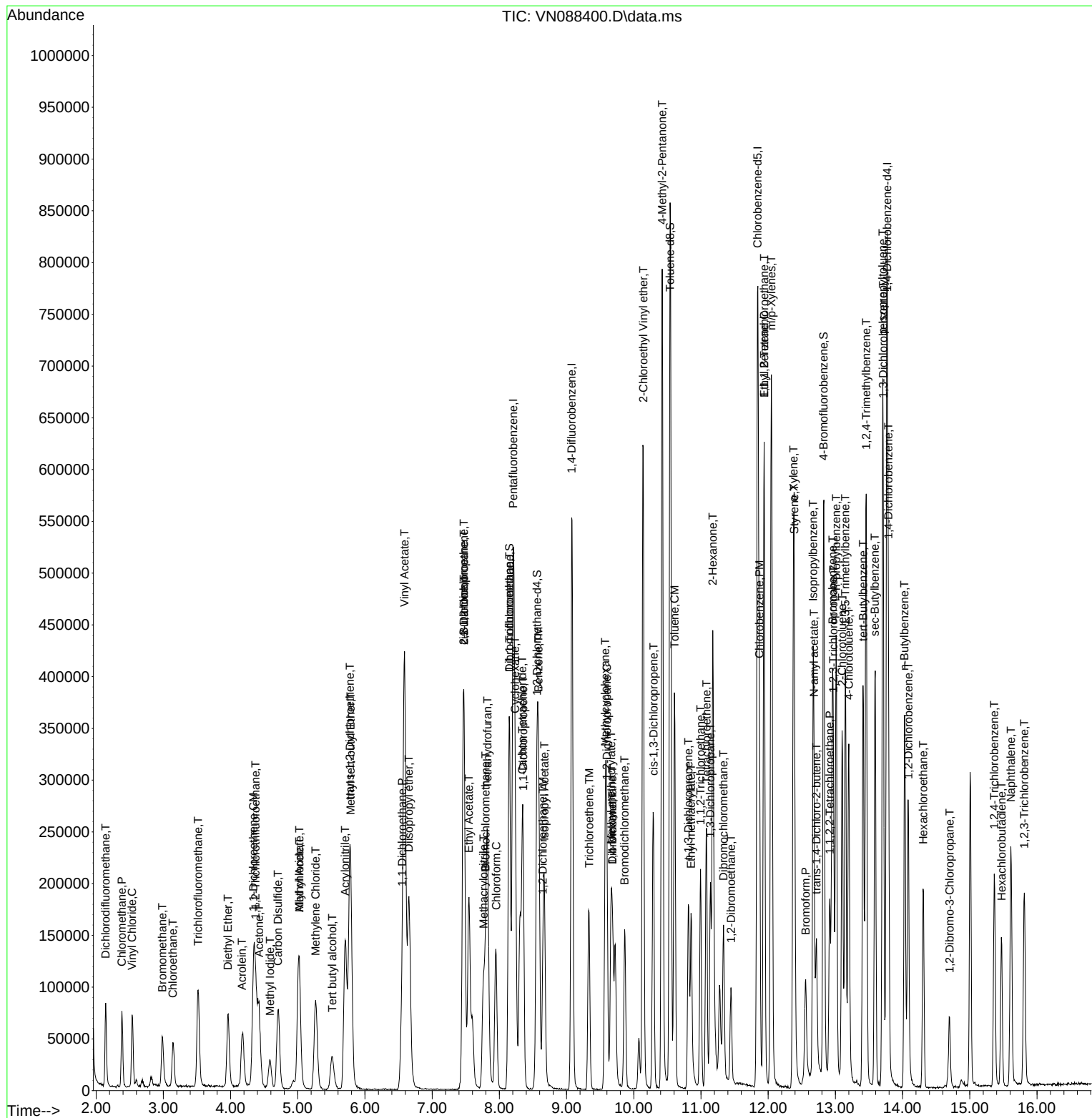
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088400.D
Acq On    : 02 Dec 2025  11:34
Operator  : JC\MD
Sample    : VN1202WBS02
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 7   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN1202WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

Quant Time: Dec 03 01:25:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088374.D
 Acq On : 01 Dec 2025 12:10
 Operator : JC\MD
 Sample : VN1201WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1201WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/02/2025
 Supervised By : Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:11:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	257123	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	472668	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	413438	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	196888	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	252803	52.192	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.380%			
35) Dibromofluoromethane	8.147	113	171251	52.281	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.560%			
50) Toluene-d8	10.541	98	648629	53.220	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.440%			
62) 4-Bromofluorobenzene	12.829	95	213607	51.080	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.160%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	72877	18.870	ug/l	98
3) Chloromethane	2.383	50	80587	19.429	ug/l	94
4) Vinyl Chloride	2.536	62	79060	18.736	ug/l	99
5) Bromomethane	2.989	94	40980	20.178	ug/l	99
6) Chloroethane	3.148	64	50269	19.250	ug/l	90
7) Trichlorofluoromethane	3.512	101	110683	18.663	ug/l	99
8) Diethyl Ether	3.965	74	42809	19.231	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	58334	18.476	ug/l	98
10) Methyl Iodide	4.583	142	60569	19.379	ug/l	96
11) Tert butyl alcohol	5.512	59	68039	87.983	ug/l #	81
12) 1,1-Dichloroethene	4.347	96	58831	18.754	ug/l	84
13) Acrolein	4.177	56	87619	118.346	ug/l	97
14) Allyl chloride	5.012	41	104505	17.974	ug/l	98
15) Acrylonitrile	5.706	53	213646	95.755	ug/l	98
16) Acetone	4.418	43	152332	86.961	ug/l	98
17) Carbon Disulfide	4.706	76	192813	18.810	ug/l	100
18) Methyl Acetate	5.018	43	99171	19.019	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	228498	19.442	ug/l	95
20) Methylene Chloride	5.259	84	75693	20.196	ug/l	83
21) trans-1,2-Dichloroethene	5.771	96	68139	19.608	ug/l	92
22) Diisopropyl ether	6.653	45	244953	19.733	ug/l	96
23) Vinyl Acetate	6.588	43	972820m	97.271	ug/l	
24) 1,1-Dichloroethane	6.553	63	134006	19.063	ug/l	95
25) 2-Butanone	7.465	43	270811	96.165	ug/l	97
26) 2,2-Dichloropropane	7.477	77	112288	18.506	ug/l	95
27) cis-1,2-Dichloroethene	7.465	96	78314	19.392	ug/l	96
28) Bromochloromethane	7.794	49	64631	18.456	ug/l	99
29) Tetrahydrofuran	7.824	42	193749	95.919	ug/l	99
30) Chloroform	7.947	83	135282	19.585	ug/l	96
31) Cyclohexane	8.235	56	117687	18.475	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	115347	18.992	ug/l	95
36) 1,1-Dichloropropene	8.353	75	89956	17.794	ug/l	98
37) Ethyl Acetate	7.547	43	123427	18.569	ug/l	98
38) Carbon Tetrachloride	8.347	117	94617	18.801	ug/l	96
39) Methylcyclohexane	9.576	83	99985	18.491	ug/l	93
40) Benzene	8.588	78	284116	19.149	ug/l	98

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088374.D
 Acq On : 01 Dec 2025 12:10
 Operator : JC\MD
 Sample : VN1201WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1201WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/02/2025
 Supervised By :Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:11:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	63105	19.168	ug/l	98
42) 1,2-Dichloroethane	8.647	62	109703	19.380	ug/l	98
43) Isopropyl Acetate	8.671	43	192472	18.952	ug/l	99
44) Trichloroethene	9.329	130	66801	19.054	ug/l	90
45) 1,2-Dichloropropane	9.600	63	72843	19.162	ug/l	100
46) Dibromomethane	9.688	93	54401	20.053	ug/l	98
47) Bromodichloromethane	9.865	83	106876	19.308	ug/l #	93
48) Methyl methacrylate	9.659	41	84615	18.260	ug/l	99
49) 1,4-Dioxane	9.676	88	22017	373.614	ug/l #	99
51) 4-Methyl-2-Pentanone	10.424	43	589357	98.453	ug/l	99
52) Toluene	10.606	92	170024	19.846	ug/l	98
53) t-1,3-Dichloropropene	10.818	75	108520	19.099	ug/l	99
54) cis-1,3-Dichloropropene	10.288	75	116758	19.541	ug/l	97
55) 1,1,2-Trichloroethane	10.994	97	66233	19.982	ug/l	95
56) Ethyl methacrylate	10.853	69	104863	20.028	ug/l	97
57) 1,3-Dichloropropane	11.141	76	120668	20.179	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	276569	91.622	ug/l	99
59) 2-Hexanone	11.176	43	355826	94.358	ug/l	98
60) Dibromochloromethane	11.335	129	76699	20.298	ug/l	98
61) 1,2-Dibromoethane	11.447	107	66826	19.909	ug/l	97
64) Tetrachloroethene	11.076	164	62208	18.980	ug/l	95
65) Chlorobenzene	11.870	112	183680	19.779	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.941	131	61851	19.747	ug/l	99
67) Ethyl Benzene	11.941	91	306102	18.859	ug/l	97
68) m/p-Xylenes	12.053	106	227659	37.830	ug/l	99
69) o-Xylene	12.376	106	109896	19.155	ug/l	95
70) Styrene	12.388	104	181083	19.438	ug/l	99
71) Bromoform	12.559	173	46125	20.106	ug/l #	99
73) Isopropylbenzene	12.670	105	280946	19.299	ug/l	100
74) N-amyl acetate	12.682	43	97186m	19.603	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	91931	19.534	ug/l	97
76) 1,2,3-Trichloropropane	12.970	75	93113m	20.192	ug/l	
77) Bromobenzene	12.959	156	65049	19.529	ug/l	96
78) n-propylbenzene	13.012	91	348515	19.569	ug/l	100
79) 2-Chlorotoluene	13.100	91	204279	18.783	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	234071	19.404	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.717	75	28199	17.348	ug/l #	96
82) 4-Chlorotoluene	13.200	91	211139	19.546	ug/l	97
83) tert-Butylbenzene	13.412	119	192736	18.795	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	235984	19.682	ug/l	100
85) sec-Butylbenzene	13.594	105	283289	19.230	ug/l	100
86) p-Isopropyltoluene	13.706	119	228290	18.898	ug/l	98
87) 1,3-Dichlorobenzene	13.712	146	126657	19.534	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	129333	19.042	ug/l	98
89) n-Butylbenzene	14.029	91	219415	18.707	ug/l	99
90) Hexachloroethane	14.306	117	41810	18.946	ug/l	96
91) 1,2-Dichlorobenzene	14.082	146	115702	18.962	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	21103	18.481	ug/l	98
93) 1,2,4-Trichlorobenzene	15.370	180	65316	18.016	ug/l	95
94) Hexachlorobutadiene	15.470	225	24556	18.849	ug/l	94
95) Naphthalene	15.611	128	231154	18.400	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	67438	19.114	ug/l	98

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
Data File : VN088374.D
Acq On : 01 Dec 2025 12:10
Operator : JC\MD
Sample : VN1201WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1201WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:11:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

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

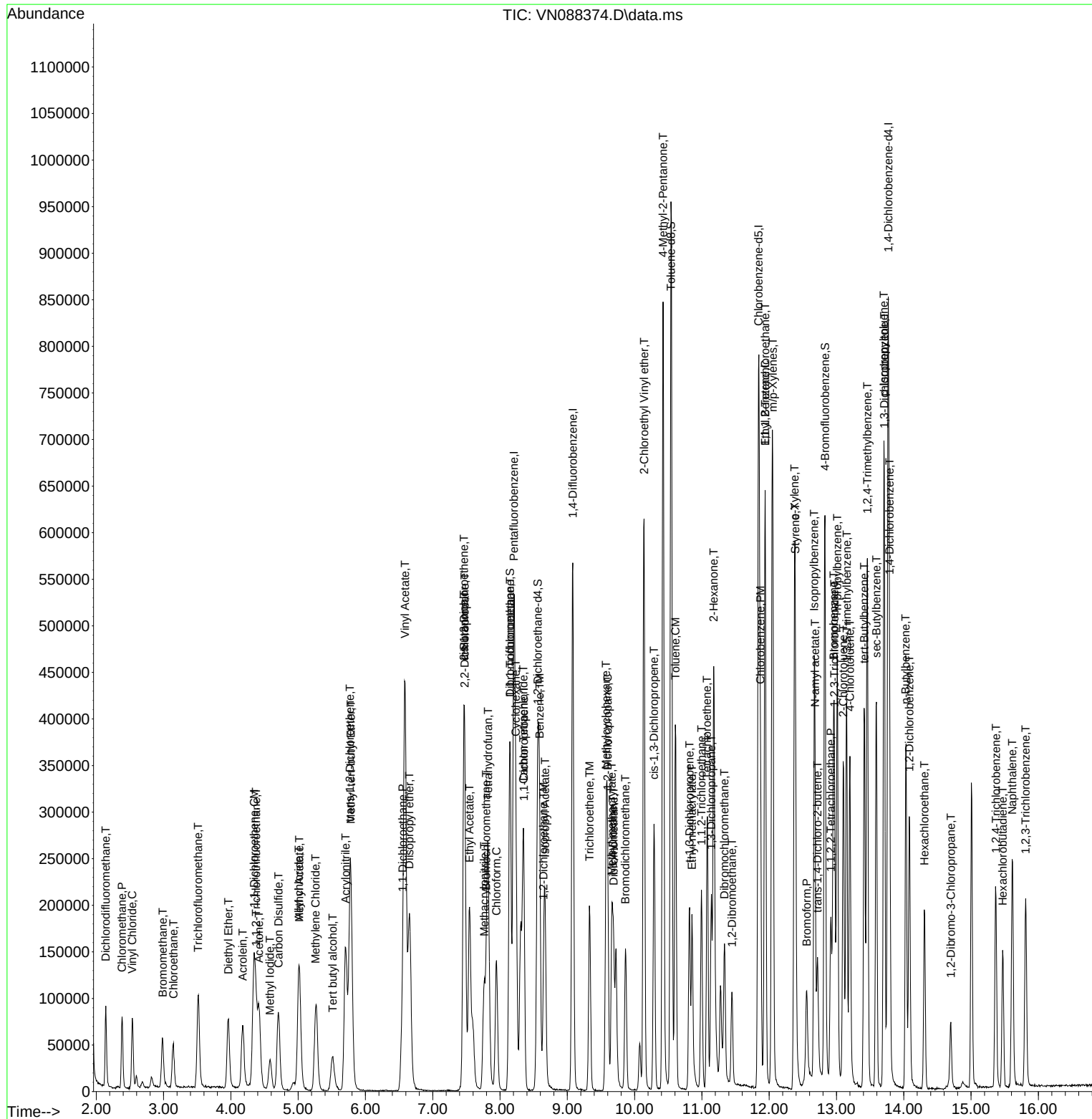
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Data File : VN088374.D
Acq On : 01 Dec 2025 12:10
Operator : JC\MD
Sample : VN1201WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1201WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:11:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VN112425	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN088344.D	1,1-Dichloroethene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	1,4-Dichlorobenzene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	2-Hexanone	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	cis-1,2-Dichloroethene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	Diisopropyl ether	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC005	VN088345.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:00 AM	MMDadoda	11/26/2025 1:51:51 PM	Peak Integrated by Software
VSTDICC005	VN088345.D	Vinyl Acetate	JOHN	11/25/2025 9:36:00 AM	MMDadoda	11/26/2025 1:51:51 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	N-amyl acetate	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	Vinyl Acetate	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICCC050	VN088347.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:10 AM	MMDadoda	11/26/2025 1:51:58 PM	Peak Integrated by Software
VSTDICCC050	VN088347.D	Vinyl Acetate	JOHN	11/25/2025 9:36:10 AM	MMDadoda	11/26/2025 1:51:58 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN112425	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN088348.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC100	VN088348.D	Allyl chloride	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC100	VN088348.D	Vinyl Acetate	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	Allyl chloride	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	Vinyl Acetate	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	N-amyl acetate	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	Vinyl Acetate	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN120125	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088370.D	1,2,3-Trichloropropane	JOHN	12/2/2025 7:49:00 AM	MMDadoda	12/2/2025 1:11:28 PM	Peak Integrated by Software
VSTDCCC050	VN088370.D	Methacrylonitrile	JOHN	12/2/2025 7:49:00 AM	MMDadoda	12/2/2025 1:11:28 PM	Peak Integrated by Software
VSTDCCC050	VN088370.D	N-amyl acetate	JOHN	12/2/2025 7:49:00 AM	MMDadoda	12/2/2025 1:11:28 PM	Peak Integrated by Software
VSTDCCC050	VN088370.D	Vinyl Acetate	JOHN	12/2/2025 7:49:00 AM	MMDadoda	12/2/2025 1:11:28 PM	Peak Integrated by Software
VN1201WBS01	VN088373.D	1,2,3-Trichloropropane	JOHN	12/2/2025 7:49:05 AM	MMDadoda	12/2/2025 1:11:32 PM	Peak Integrated by Software
VN1201WBS01	VN088373.D	N-amyl acetate	JOHN	12/2/2025 7:49:05 AM	MMDadoda	12/2/2025 1:11:32 PM	Peak Integrated by Software
VN1201WBS01	VN088373.D	Vinyl Acetate	JOHN	12/2/2025 7:49:05 AM	MMDadoda	12/2/2025 1:11:32 PM	Peak Integrated by Software
VN1201WBSD01	VN088374.D	1,2,3-Trichloropropane	JOHN	12/2/2025 7:49:10 AM	MMDadoda	12/2/2025 1:11:38 PM	Peak Integrated by Software
VN1201WBSD01	VN088374.D	N-amyl acetate	JOHN	12/2/2025 7:49:10 AM	MMDadoda	12/2/2025 1:11:38 PM	Peak Integrated by Software
VN1201WBSD01	VN088374.D	Vinyl Acetate	JOHN	12/2/2025 7:49:10 AM	MMDadoda	12/2/2025 1:11:38 PM	Peak Integrated by Software
Q3738-02	VN088384.D	n-Butylbenzene	JOHN	12/2/2025 7:49:38 AM	MMDadoda	12/2/2025 1:11:59 PM	Peak Integrated by Software
Q3738-02	VN088384.D	o-Xylene	JOHN	12/2/2025 7:49:38 AM	MMDadoda	12/2/2025 1:11:59 PM	Peak Integrated by Software
VSTDCCC050	VN088394.D	1,2,3-Trichloropropane	JOHN	12/2/2025 7:49:42 AM	MMDadoda	12/2/2025 1:12:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN120125	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088394.D	N-amyl acetate	JOHN	12/2/2025 7:49:42 AM	MMDadoda	12/2/2025 1:12:07 PM	Peak Integrated by Software
VSTDCCC050	VN088394.D	Vinyl Acetate	JOHN	12/2/2025 7:49:42 AM	MMDadoda	12/2/2025 1:12:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN120225	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088396.D	1,2,3-Trichloropropane	JOHN	12/3/2025 8:05:17 AM	MMDadoda	12/3/2025 2:27:54 PM	Peak Integrated by Software
VSTDCCC050	VN088396.D	Vinyl Acetate	JOHN	12/3/2025 8:05:17 AM	MMDadoda	12/3/2025 2:27:54 PM	Peak Integrated by Software
VN1202WBS02	VN088400.D	1,2,3-Trichloropropane	JOHN	12/3/2025 8:05:27 AM	MMDadoda	12/3/2025 2:28:01 PM	Peak Integrated by Software
VN1202WBS02	VN088400.D	N-amyl acetate	JOHN	12/3/2025 8:05:27 AM	MMDadoda	12/3/2025 2:28:01 PM	Peak Integrated by Software
VN1202WBS02	VN088400.D	Vinyl Acetate	JOHN	12/3/2025 8:05:27 AM	MMDadoda	12/3/2025 2:28:01 PM	Peak Integrated by Software
VSTDCCC050	VN088414.D	1,2,3-Trichloropropane	JOHN	12/3/2025 8:06:31 AM	MMDadoda	12/3/2025 2:28:38 PM	Peak Integrated by Software
VSTDCCC050	VN088414.D	Vinyl Acetate	JOHN	12/3/2025 8:06:31 AM	MMDadoda	12/3/2025 2:28:38 PM	Peak Integrated by Software

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN112425

Review By	John Carlone	Review On	11/25/2025 9:36:43 AM		
Supervise By	Maresh Dadoda	Supervise On	11/26/2025 1:52:19 PM		
SubDirectory	VN112425	HP Acquire Method	MSVOA_N	HP Processing Method	82N112425W.M
STD. NAME		STD REF.#			
Tune/Reschk		VP136378			
Initial Calibration Stds		VP136444,VP136445,VP136446,VP136447,VP136448,VP136449			
CCC					
Internal Standard/PEM					
ICV/I.BLK		VP136450			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088343.D	24 Nov 2025 08:17	JC\MD	Ok
2	VSTDIC001	VN088344.D	24 Nov 2025 12:38	JC\MD	Ok,M
3	VSTDIC005	VN088345.D	24 Nov 2025 13:11	JC\MD	Ok,M
4	VSTDIC020	VN088346.D	24 Nov 2025 13:32	JC\MD	Ok,M
5	VSTDIC050	VN088347.D	24 Nov 2025 13:53	JC\MD	Ok,M
6	VSTDIC100	VN088348.D	24 Nov 2025 14:14	JC\MD	Ok,M
7	VSTDIC150	VN088349.D	24 Nov 2025 14:35	JC\MD	Ok,M
8	IBLK	VN088350.D	24 Nov 2025 14:56	JC\MD	Ok
9	VSTDICV050	VN088351.D	24 Nov 2025 15:18	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120125

Review By	Semsettin Yesilyurt	Review On	12/4/2025 10:27:11 AM		
Supervise By	John Carlone	Supervise On	12/4/2025 10:36:07 AM		
SubDirectory	VN120125	HP Acquire Method	MSVOA_N	HP Processing Method	82N112425W.M
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136451			
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard		VP136452,VP136453			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088369.D	01 Dec 2025 08:49	JC\MD	Ok
2	VSTDCCC050	VN088370.D	01 Dec 2025 09:58	JC\MD	Ok,M
3	VN1201MBL01	VN088371.D	01 Dec 2025 10:33	JC\MD	Ok
4	VN1201WBL01	VN088372.D	01 Dec 2025 10:53	JC\MD	Ok
5	VN1201WBS01	VN088373.D	01 Dec 2025 11:27	JC\MD	Ok,M
6	VN1201WBSD01	VN088374.D	01 Dec 2025 12:10	JC\MD	Ok,M
7	Q3715-02	VN088375.D	01 Dec 2025 12:30	JC\MD	Ok,M
8	Q3741-07	VN088376.D	01 Dec 2025 12:51	JC\MD	Ok
9	Q3716-01	VN088377.D	01 Dec 2025 13:11	JC\MD	Dilution
10	Q3716-03	VN088378.D	01 Dec 2025 13:32	JC\MD	Not Ok
11	Q3716-04	VN088379.D	01 Dec 2025 13:52	JC\MD	Dilution
12	Q3715-01	VN088380.D	01 Dec 2025 14:13	JC\MD	ReRun
13	Q3716-02	VN088381.D	01 Dec 2025 14:33	JC\MD	Ok
14	Q3738-01	VN088382.D	01 Dec 2025 14:54	JC\MD	Not Ok
15	Q3738-03	VN088383.D	01 Dec 2025 15:15	JC\MD	Ok
16	Q3738-02	VN088384.D	01 Dec 2025 15:35	JC\MD	Ok,M
17	Q3745-01	VN088385.D	01 Dec 2025 15:56	JC\MD	ReRun
18	Q3745-02	VN088386.D	01 Dec 2025 16:16	JC\MD	Ok
19	Q3745-03	VN088387.D	01 Dec 2025 16:37	JC\MD	Ok
20	Q3745-04	VN088388.D	01 Dec 2025 16:58	JC\MD	Ok
21	Q3743-03	VN088389.D	01 Dec 2025 17:18	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN120125

Review By	Semsettin Yesilyurt	Review On	12/4/2025 10:27:11 AM		
Supervise By	John Carlone	Supervise On	12/4/2025 10:36:07 AM		
SubDirectory	VN120125	HP Acquire Method	MSVOA_N	HP Processing Method	82N112425W.M
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136451			
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard		VP136452,VP136453			

22	Q3743-04	VN088390.D	01 Dec 2025 17:39	JC\MD	Ok
23	Q3743-05	VN088391.D	01 Dec 2025 18:00	JC\MD	Not Ok
24	Q3743-01	VN088392.D	01 Dec 2025 18:20	JC\MD	Ok
25	Q3743-02	VN088393.D	01 Dec 2025 18:41	JC\MD	Ok
26	VSTDCCC050	VN088394.D	01 Dec 2025 19:01	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN120225

Review By	John Carlone	Review On	12/4/2025 10:35:47 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 12:12:37 PM
SubDirectory	VN120225	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136457		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136458,VP136459,VP136463,VP136464,VP136465,VP136466,VP136467,VP136468		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088395.D	02 Dec 2025 08:19	JC\MD	Ok
2	VSTDCCC050	VN088396.D	02 Dec 2025 10:00	JC\MD	Ok,M
3	VN1202WBL01	VN088397.D	02 Dec 2025 10:20	JC\MD	Ok
4	VN1202MBL01	VN088398.D	02 Dec 2025 10:40	JC\MD	Ok
5	VN1202WBS01	VN088399.D	02 Dec 2025 11:01	JC\MD	Not Ok
6	VN1202WBS02	VN088400.D	02 Dec 2025 11:34	JC\MD	Ok,M
7	IBLK	VN088401.D	02 Dec 2025 11:54	JC\MD	Ok
8	IBLK	VN088402.D	02 Dec 2025 12:14	JC\MD	Ok
9	Q3738-01	VN088403.D	02 Dec 2025 12:35	JC\MD	Ok
10	Q3716-01DL	VN088404.D	02 Dec 2025 12:55	JC\MD	Ok,M
11	Q3716-04DL	VN088405.D	02 Dec 2025 13:16	JC\MD	Ok,M
12	Q3716-03	VN088406.D	02 Dec 2025 13:36	JC\MD	Ok,M
13	Q3745-01	VN088407.D	02 Dec 2025 13:56	JC\MD	Ok
14	Q3530-07 0.2PPB	VN088408.D	02 Dec 2025 15:02	JC\MD	Ok,M
15	Q3530-07 0.5PPB	VN088409.D	02 Dec 2025 15:22	JC\MD	Ok,M
16	Q3530-07 0.75PPB	VN088410.D	02 Dec 2025 15:42	JC\MD	Ok,M
17	Q3530-07 2.5PPB	VN088411.D	02 Dec 2025 16:03	JC\MD	Ok,M
18	Q3530-08 1.0PPB	VN088412.D	02 Dec 2025 16:23	JC\MD	Ok,M
19	Q3530-08 5.0PPB	VN088413.D	02 Dec 2025 16:44	JC\MD	Ok,M
20	VSTDCCC050	VN088414.D	02 Dec 2025 17:04	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN112425

Review By	John Carlone	Review On	11/25/2025 9:36:43 AM
Supervise By	Mahesh Dadoda	Supervise On	11/26/2025 1:52:19 PM
SubDirectory	VN112425	HP Acquire Method	MSVOA_N HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP136378		
Initial Calibration Stds	VP136444,VP136445,VP136446,VP136447,VP136448,VP136449		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP136450		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088343.D	24 Nov 2025 08:17		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN088344.D	24 Nov 2025 12:38		JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN088345.D	24 Nov 2025 13:11	COM.#74 Peak not detected in 1 and 5 PPB	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN088346.D	24 Nov 2025 13:32		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN088347.D	24 Nov 2025 13:53	Method failed for Comp. #74	JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN088348.D	24 Nov 2025 14:14		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN088349.D	24 Nov 2025 14:35		JC\MD	Ok,M
8	IBLK	IBLK	VN088350.D	24 Nov 2025 14:56		JC\MD	Ok
9	VSTDICV050	ICVVN112425	VN088351.D	24 Nov 2025 15:18		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120125

Review By	Semsettin Yesilyurt	Review On	12/4/2025 10:27:11 AM
Supervise By	John Carlone	Supervise On	12/4/2025 10:36:07 AM
SubDirectory	VN120125	HP Acquire Method	MSVOA_N HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136451		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136452,VP136453		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088369.D	01 Dec 2025 08:49		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088370.D	01 Dec 2025 09:58	pH#Lot#V12668	JC\MD	Ok,M
3	VN1201MBL01	VN1201MBL01	VN088371.D	01 Dec 2025 10:33		JC\MD	Ok
4	VN1201WBL01	VN1201WBL01	VN088372.D	01 Dec 2025 10:53		JC\MD	Ok
5	VN1201WBS01	VN1201WBS01	VN088373.D	01 Dec 2025 11:27		JC\MD	Ok,M
6	VN1201WBSD01	VN1201WBSD01	VN088374.D	01 Dec 2025 12:10		JC\MD	Ok,M
7	Q3715-02	MW6	VN088375.D	01 Dec 2025 12:30	vial A pH<2	JC\MD	Ok,M
8	Q3741-07	TB-1	VN088376.D	01 Dec 2025 12:51	vial A pH<2 TB	JC\MD	Ok
9	Q3716-01	MW5	VN088377.D	01 Dec 2025 13:11	vial A pH<2 Need 20X	JC\MD	Dilution
10	Q3716-03	MW4	VN088378.D	01 Dec 2025 13:32	Need Straight Run	JC\MD	Not Ok
11	Q3716-04	MW7	VN088379.D	01 Dec 2025 13:52	Need 200X	JC\MD	Dilution
12	Q3715-01	MW2	VN088380.D	01 Dec 2025 14:13	E flag of previous sample	JC\MD	ReRun
13	Q3716-02	MW3	VN088381.D	01 Dec 2025 14:33	vial A pH<2	JC\MD	Ok
14	Q3738-01	MW4	VN088382.D	01 Dec 2025 14:54	Run @ Lower Dilution	JC\MD	Not Ok
15	Q3738-03	Field	VN088383.D	01 Dec 2025 15:15	vial A pH<2 FB	JC\MD	Ok
16	Q3738-02	MW5	VN088384.D	01 Dec 2025 15:35	vial A pH<2	JC\MD	Ok,M
17	Q3745-01	STORAGE-BLANK-SO	VN088385.D	01 Dec 2025 15:56	vial A pH<2 Tics Contamination	JC\MD	ReRun
18	Q3745-02	STORAGE-BLANK-WA	VN088386.D	01 Dec 2025 16:16	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120125

Review By	Semsettin Yesilyurt	Review On	12/4/2025 10:27:11 AM		
Supervise By	John Carlone	Supervise On	12/4/2025 10:36:07 AM		
SubDirectory	VN120125	HP Acquire Method	MSVOA_N	HP Processing Method	82N112425W.M
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	VP136451				
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136452,VP136453				

19	Q3745-03	STORAGE-BLANK-WA	VN088387.D	01 Dec 2025 16:37	vial A pH<2	JC\MD	Ok
20	Q3745-04	STORAGE-BLANK-SAM	VN088388.D	01 Dec 2025 16:58	vial A pH<2	JC\MD	Ok
21	Q3743-03	TB	VN088389.D	01 Dec 2025 17:18	vial A pH<2 TB	JC\MD	Ok
22	Q3743-04	TB	VN088390.D	01 Dec 2025 17:39	vial A pH<2 TB	JC\MD	Ok
23	Q3743-05	TB	VN088391.D	01 Dec 2025 18:00	SIM Method on login	JC\MD	Not Ok
24	Q3743-01	TW-1125-1	VN088392.D	01 Dec 2025 18:20	vial A pH<2	JC\MD	Ok
25	Q3743-02	TW-1125-2	VN088393.D	01 Dec 2025 18:41	vial A pH<2	JC\MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VN088394.D	01 Dec 2025 19:01		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120225

Review By	John Carlone	Review On	12/4/2025 10:35:47 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 12:12:37 PM
SubDirectory	VN120225	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136457		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136458,VP136459,VP136463,VP136464,VP136465,VP136466,VP136467,VP136468		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088395.D	02 Dec 2025 08:19		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088396.D	02 Dec 2025 10:00	pH#Lot#V12668	JC\MD	Ok,M
3	VN1202WBL01	VN1202WBL01	VN088397.D	02 Dec 2025 10:20		JC\MD	Ok
4	VN1202MBL01	VN1202MBL01	VN088398.D	02 Dec 2025 10:40		JC\MD	Ok
5	VN1202WBS01	VN1202WBS01	VN088399.D	02 Dec 2025 11:01	Recovery failed	JC\MD	Not Ok
6	VN1202WBS02	VN1202WBS02	VN088400.D	02 Dec 2025 11:34		JC\MD	Ok,M
7	IBLK	IBLK	VN088401.D	02 Dec 2025 11:54		JC\MD	Ok
8	IBLK	IBLK	VN088402.D	02 Dec 2025 12:14		JC\MD	Ok
9	Q3738-01	MW4	VN088403.D	02 Dec 2025 12:35	vial A pH<2	JC\MD	Ok
10	Q3716-01DL	MW5DL	VN088404.D	02 Dec 2025 12:55	vial B pH<2	JC\MD	Ok,M
11	Q3716-04DL	MW7DL	VN088405.D	02 Dec 2025 13:16	vial B pH<2	JC\MD	Ok,M
12	Q3716-03	MW4	VN088406.D	02 Dec 2025 13:36	vial A pH<2	JC\MD	Ok,M
13	Q3745-01	STORAGE-BLANK-SO	VN088407.D	02 Dec 2025 13:56	vial B pH<2	JC\MD	Ok
14	Q3530-07 0.2PPB	LOD-MDL-WATER-01-(	VN088408.D	02 Dec 2025 15:02		JC\MD	Ok,M
15	Q3530-07 0.5PPB	LOD-MDL-WATER-01-(	VN088409.D	02 Dec 2025 15:22		JC\MD	Ok,M
16	Q3530-07 0.75PPB	LOD-MDL-WATER-01-(	VN088410.D	02 Dec 2025 15:42		JC\MD	Ok,M
17	Q3530-07 2.5PPB	LOD-MDL-WATER-01-(	VN088411.D	02 Dec 2025 16:03		JC\MD	Ok,M
18	Q3530-08 1.0PPB	LOQ-WATER-02-QT4-2	VN088412.D	02 Dec 2025 16:23		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120225

Review By	John Carlone	Review On	12/4/2025 10:35:47 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 12:12:37 PM
SubDirectory	VN120225	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136457		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136458,VP136459,VP136463,VP136464,VP136465,VP136466,VP136467,VP136468		

19	Q3530-08 5.0PPB	LOQ-WATER-02-QT4-2	VN088413.D	02 Dec 2025 16:44	JC\MD	Ok,M
20	VSTDCCC050	VSTDCCC050EC	VN088414.D	02 Dec 2025 17:04	JC\MD	Ok,M

M : Manual Integration

A

B

C

D

E

F

G

H

I

J

LAB CHRONICLE

OrderID:	Q3738	OrderDate:	11/26/2025 4:09:00 PM
Client:	G Environmental	Project:	ANN
Contact:	Gary Landis	Location:	VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3738-01	MW4	Water	VOCMS Group1	8260-Low	11/26/25		12/02/25	11/26/25
Q3738-02	MW5	Water	VOCMS Group1	8260-Low	11/26/25		12/01/25	11/26/25
Q3738-03	Field	Water	VOCMS Group1	8260-Low	11/26/25		12/01/25	11/26/25



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:
COMPANY: G Environmental
ADDRESS: 8 CARRIAGE
CITY: Success Run STATE: NJ ZIP:
ATTENTION:
PHONE: FAX:

PROJECT NAME: ANN
PROJECT NO.: LOCATION: NJ
PROJECT MANAGER:
e-mail:
PHONE: FAX:

BILL TO: G Environmental
ADDRESS: 8 CARRIAGE
CITY: Success Run STATE: NJ ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

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

☐ 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 pdf
☒ EDD FORMAT excel/11/25/18

ICL VOCHS
FTB

ALLIANCE
SAMPLE
ID

PROJECT
SAMPLE IDENTIFICATION

SAMPLE
MATRIX

SAMPLE
TYPE
COMP GRAB

SAMPLE
COLLECTION
DATE TIME

OF BOTTLES

PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

MW4
MW5
Field

GW
GW
Blank

X 11/26/25
X 11/26/25
X 11/26/25

2
2
2

1
2
3
4
5
6
7
8
9

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:

DATE/TIME: 11/26/25

RECEIVED BY:

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 15°C °C

Comments:

RELINQUISHED BY SAMPLER:

DATE/TIME:

RECEIVED BY:

RELINQUISHED BY SAMPLER:

DATE/TIME:

RECEIVED BY:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

From: Gary Landis <gary@g-environmental.com>
Sent: Wednesday, November 26, 2025 4:30 PM
Subject: Re: COLLECTION TIME

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Mw5 1150
Mw4 1212
Field 1130

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Wednesday, November 26, 2025 4:14 PM
To: Gary Landis <gary@g-environmental.com>
Subject: COLLECTION TIME

missing collection time

Thanks & Regards,



**Alliance**
TECHNICAL GROUP

Deepak Parmar
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com



Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3738 GENV01
Client Name : G Environmental
Client Contact : Gary Landis
Invoice Name : G Environmental
Invoice Contact : Gary Landis

Order Date : 11/26/2025 4:09:00 PM
Project Name : ANN
Receive Date/Time : 11/26/2025 2:42:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Level 1~~ *NT Redwood*
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3738-01	MW4	Water	11/26/2025	12:00 12:12	VOCMS Group1		8260-Low		10 Bus. Days
Q3738-02	MW5	Water	11/26/2025	12:00 11:50	VOCMS Group1		8260-Low		10 Bus. Days
Q3738-03	Field	Water	11/26/2025	12:00 11:30	VOCMS Group1		8260-Low		10 Bus. Days

Relinquished By : *[Signature]*

Date / Time : 11/26/25 1635

Received By : *[Signature]*

Date / Time : 12/01/25 8:30

Storage Area : VOA Refridgerator Room