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

Cover Page

Order ID : Q3078

Project ID : Waste Water 2025

Client : Garden State Laboratories, Inc.

Lab Sample Number	Client Sample Number
Q3078-01	250910074-01-VOA
Q3078-02	250910064-01-TRIP-BLANK

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

Signature : _____

Date: 9/19/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Garden State Laboratories, Inc.
Project Name: Waste Water 2025
Project # N/A
Order ID # Q3078
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
2 Water samples were received on 09/11/2025.

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 624.1.

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 met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
"As per method, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead."

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <35% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount

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

for all compounds using Linear Regression when the %RSD value for a compound is > 35% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q3078**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **SOHIL JODHANI** **Date:** **09/19/2025**

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

LAB CHRONICLE

OrderID:	Q3078	**OrderDate:**	9/11/2025 10:27:00 AM
Client:	Garden State Laboratories, Inc.	**Project:**	Waste Water 2025
Contact:	Sharon Ercoliani	**Location:**	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3078-01	**250910074-01-VOA**	**Water**			**09/10/25**			**09/11/25**
			VOCMS Group1	624.1			09/12/25	
			VOCMS Group2	8260-Low			09/11/25	
Q3078-01DL	**250910074-01-VOADL**	**Water**			**09/10/25**			**09/11/25**
			VOCMS Group2	8260-Low			09/11/25	
Q3078-02	**250910064-04-TRIP-BLANK**	**Water**			**09/10/25**			**09/11/25**
			VOCMS Group1	624.1			09/12/25	
			VOCMS Group2	8260-Low			09/11/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q3078

Client: Garden State Laboratories, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								

0

Total Voc :

Total Concentration:

QC SUMMARY

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

Surrogate Summary

SDG No.: Q3078

Client: Garden State Laboratories, Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3078-01	250910074-01-VOA	1,2-Dichloroethane-d4	30	30.1	100		91	110
		Toluene-d8	30	28.9	96		91	112
		4-Bromofluorobenzene	30	28.2	94		63	112
Q3078-02	250910064-04-TRIP-BLANK	1,2-Dichloroethane-d4	30	29.3	98		91	110
		Toluene-d8	30	28.2	94		91	112
		4-Bromofluorobenzene	30	24.8	83		63	112
VN0912WBL01	VN0912WBL01	1,2-Dichloroethane-d4	30	29.2	97		91	110
		Toluene-d8	30	29.5	98		91	112
		4-Bromofluorobenzene	30	25.9	86		63	112
VN0912WBS01	VN0912WBS01	1,2-Dichloroethane-d4	30	29.2	97		91	110
		Toluene-d8	30	30.1	100		91	112
		4-Bromofluorobenzene	30	30.2	101		63	112
VN0912WBSD0	VN0912WBSD01	1,2-Dichloroethane-d4	30	27.7	92		91	110
		Toluene-d8	30	29.9	100		91	112
		4-Bromofluorobenzene	30	29.3	98		63	112

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3078**	**Analytical Method:**	**SW624.1**
Client:	**Garden State Laboratories, Inc.**	**Datafile :**	VN087812.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0912WBS01	Acrolein	100	99.6	ug/L	100			60	140	
	Acrylonitrile	100	89.7	ug/L	90			60	140	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3078 **Analytical Method:** SW624.1

Client: Garden State Laboratories, Inc. **Datafile :** VN087813.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0912WBSD01	Acrolein	100	97.9	ug/L	98	2		60	140	20
	Acrylonitrile	100	87.6	ug/L	88	2		60	140	20

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VN0912WBL01

Lab Name: Alliance | Contract: GARD04

Lab Code: ACE | SDG NO.: Q3078

Lab File ID: VN087814.D | Lab Sample ID: VN0912WBL01

Date Analyzed: 09/12/2025 | Time Analyzed: 11:40

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
VN0912WBS01	VN0912WBS01	VN087812.D	09/12/2025
VN0912WBSD01	VN0912WBSD01	VN087813.D	09/12/2025
250910064-04-TRIP-BLANK	Q3078-02	VN087815.D	09/12/2025
250910074-01-VOA	Q3078-01	VN087816.D	09/12/2025

COMMENTS:

Raw Data: **VN087713.D**

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: GARD04

Lab Code: ACE | SDG NO.: Q3078

Lab File ID: VN087713.D | BFB Injection Date: 09/04/2025

Instrument ID: MSVOA_N | BFB Injection Time: 10:10

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.1
75	30.0 - 60.0% of mass 95	57.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.3) 1
174	50.0 - 100.0% of mass 95	67
175	5.0 - 9.0% of mass 174	5.4 (8.1) 1
176	95.0 - 101.0% of mass 174	65.8 (98.3) 1
177	5.0 - 9.0% of mass 176	4.7 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VN087725.D	09/04/2025	16:23
VSTDICCC020	VSTDICCC020	VN087726.D	09/04/2025	16:44
VSTDICC050	VSTDICC050	VN087727.D	09/04/2025	17:05
VSTDICC100	VSTDICC100	VN087728.D	09/04/2025	17:25
VSTDICC150	VSTDICC150	VN087729.D	09/04/2025	17:46

Raw Data: **VN087810.D**

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: GARD04
Lab Code: ACE
SDG NO.: Q3078
Lab File ID: VN087810.D
BFB Injection Date: 09/12/2025
Instrument ID: MSVOA_N
BFB Injection Time: 08:23
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.1
75	30.0 - 60.0% of mass 95	54.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.3 (1.8) 1
174	50.0 - 100.0% of mass 95	72.2
175	5.0 - 9.0% of mass 174	6.2 (8.5) 1
176	95.0 - 101.0% of mass 174	71 (98.3) 1
177	5.0 - 9.0% of mass 176	4.8 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VN087811.D	09/12/2025	10:04
VN0912WBS01	VN0912WBS01	VN087812.D	09/12/2025	10:45
VN0912WBSD01	VN0912WBSD01	VN087813.D	09/12/2025	11:06
VN0912WBL01	VN0912WBL01	VN087814.D	09/12/2025	11:40
250910064-04-TRIP-BLANK	Q3078-02	VN087815.D	09/12/2025	12:19
250910074-01-VOA	Q3078-01	VN087816.D	09/12/2025	12:40

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GARD04

Lab Code: ACE SDG NO.: Q3078

Lab File ID: VN087811.D Date Analyzed: 09/12/2025

Instrument ID: MSVOA_N Time Analyzed: 10:04

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	60784	7.80	303424	9.08	286682	11.85
UPPER LIMIT	121568	8.3	606848	9.582	573364	12.347
LOWER LIMIT	30392	7.3	151712	8.582	143341	11.347
EPA SAMPLE NO.						
250910074-01-VOA	55446	7.79	279587	9.08	261896	11.85
250910064-04-TRIP-BLANK	47676	7.80	237316	9.08	222106	11.85
VN0912WBL01	57083	7.80	279905	9.08	254454	11.84
VN0912WBS01	57185	7.79	292500	9.08	270542	11.84
VN0912WBSD01	60654	7.80	293305	9.08	272699	11.85

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

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GARD04

Lab Code: ACE SDG NO.: Q3078

Lab File ID: VN087811.D Date Analyzed: 09/12/2025

Instrument ID: MSVOA_N Time Analyzed: 10:04

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

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
250910074-01-VOA	0	0.00				
250910064-01-TRIP-BLANK	0	0.00				
VN0912WBL01	0	0.00				
VN0912WBS01	0	0.00				
VN0912WBSD01	0	0.00				

IS4 =

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

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

SAMPLE DATA

Raw Data: **VN087816.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	09/10/25
Project:	Waste Water 2025	Date Received:	09/11/25
Client Sample ID:	250910074-01-VOA	SDG No.:	Q3078
Lab Sample ID:	Q3078-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087816.D	1	09/12/25 12:40	VN091225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.0		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	28.9		91 - 112	96%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.2		63 - 112	94%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	55400	7.794			
540-36-3	1,4-Difluorobenzene	280000	9.082			
3114-55-4	Chlorobenzene-d5	262000	11.847			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087816.D
Acq On : 12 Sep 2025 12:40
Operator : JC\MD
Sample : Q3078-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

Quant Time: Sep 12 22:52:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.794	128	55446	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.082	114	279587	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.847	117	261896	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.559	65	142320	30.048	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.167%				
60) 4-Bromofluorobenzene	12.829	95	118936	28.244	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.133%				
63) Toluene-d8	10.541	98	352072	28.907	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.367%				
Target Compounds							Qvalue
3) Chloromethane	2.383	50	2566	0.709	ug/l	#	70
8) Diethyl Ether	3.953	74	12129	4.792	ug/l		97
12) Methyl Acetate	5.018	43	11241	2.179	ug/l		94
15) Acetone	4.418	58	650497	938.888	ug/l		89
16) Carbon Disulfide	4.706	76	15578m	1.695	ug/l		
23) tert-Butyl Alcohol	5.518	59	3109972	3961.284	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	18741m	1.568	ug/l		
30) 2-Butanone	7.465	43	3544664	1132.450	ug/l		97
34) Benzene	8.582	78	43742	2.979	ug/l	#	85
45) 1,4-Dioxane	9.677	88	4155m	65.719	ug/l		
58) 4-Methyl-2-Pentanone	10.424	43	76210	12.307	ug/l		92
62) Toluene	10.606	91	109194	6.893	ug/l		98
64) Chlorobenzene	11.865	112	11337	1.166	ug/l		98
66) Ethyl Benzene	11.941	91	111813	6.542	ug/l		96
67) m/p-Xylenes	12.047	106	38245	6.028	ug/l		90
68) o-Xylene	12.376	106	20779	3.378	ug/l		86
70) Isopropylbenzene	12.676	105	10813	0.693	ug/l		96
74) n-propylbenzene	13.012	91	8823	0.448	ug/l		98
76) 1,3,5-Trimethylbenzene	13.147	105	8210	0.623	ug/l		93
80) 1,2,4-Trimethylbenzene	13.459	105	28180	2.087	ug/l		95
82) p-Isopropyltoluene	13.706	119	29215	2.186	ug/l		84
84) 1,4-Dichlorobenzene	13.794	146	23903	3.242	ug/l		97
91) Naphthalene	15.611	128	299400	20.608	ug/l		98

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

Sample Results: **VN087816.D**

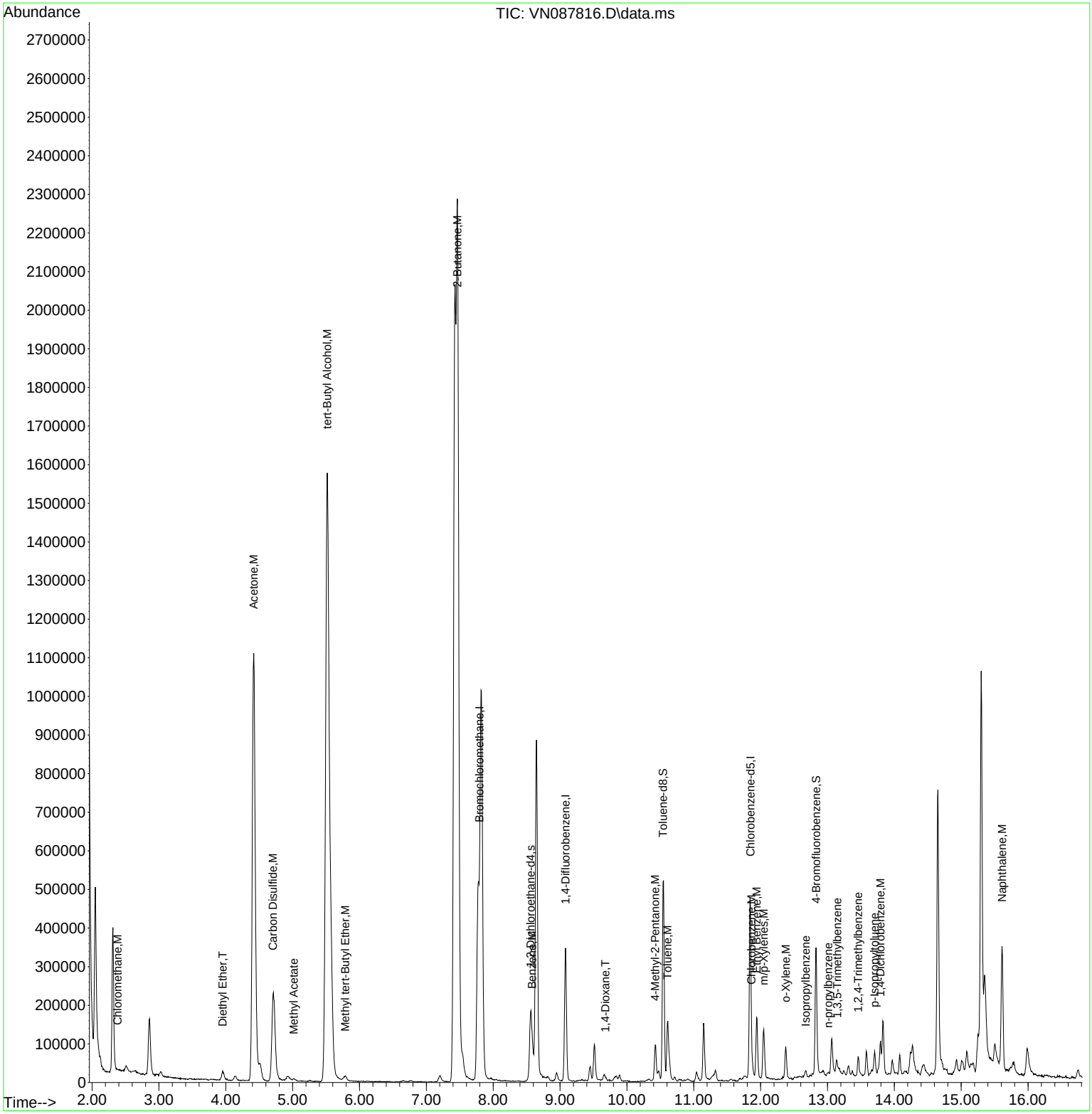
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087816.D
Acq On : 12 Sep 2025 12:40
Operator : JC\MD
Sample : Q3078-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

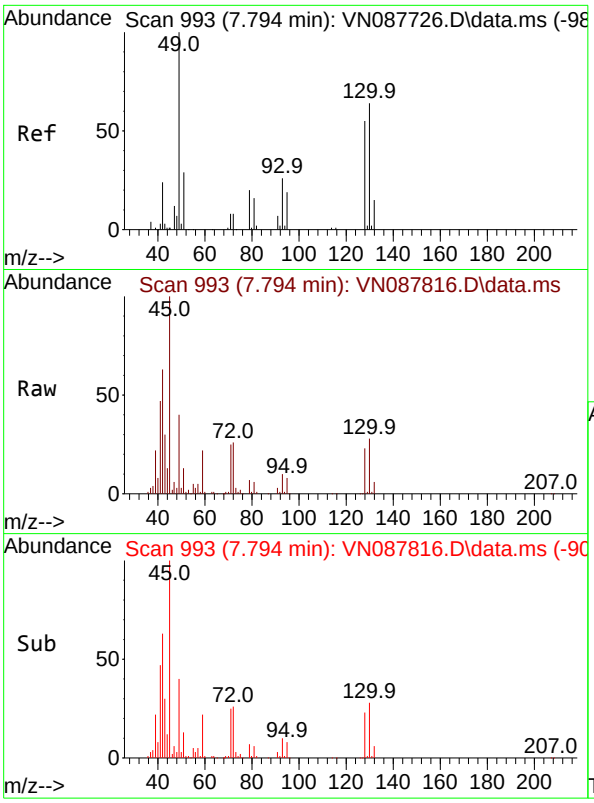
Quant Time: Sep 12 22:52:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

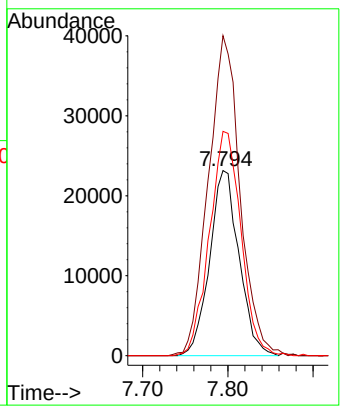




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion:128 Resp: 5544

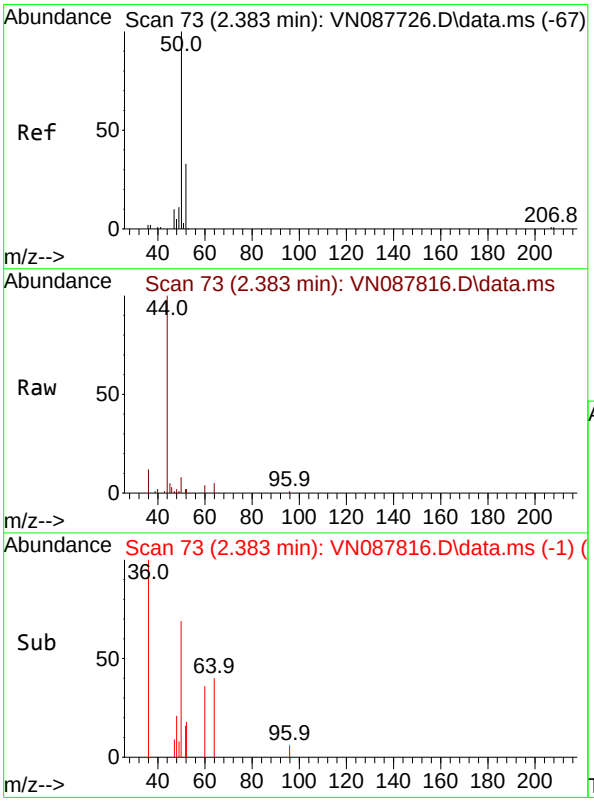
Ion	Ratio	Lower	Upper
128	100		
49	186.4	0.0	464.3
130	129.7	0.0	300.5



Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

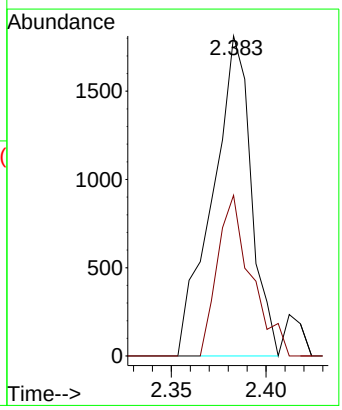
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

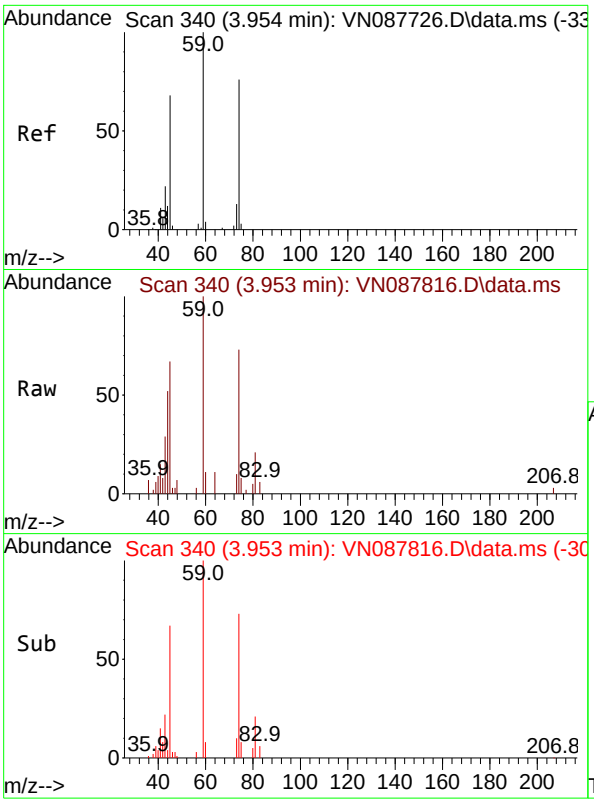


#3
Chloromethane
Concen: 0.709 ug/l
RT: 2.383 min Scan# 73
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 50 Resp: 2566

Ion	Ratio	Lower	Upper
50	100		
52	50.2	26.6	40.0#





#8
Diethyl Ether
Concen: 4.792 ug/l
RT: 3.953 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

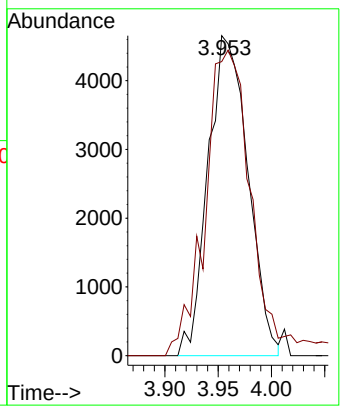
Tgt Ion: 74 Resp: 1212

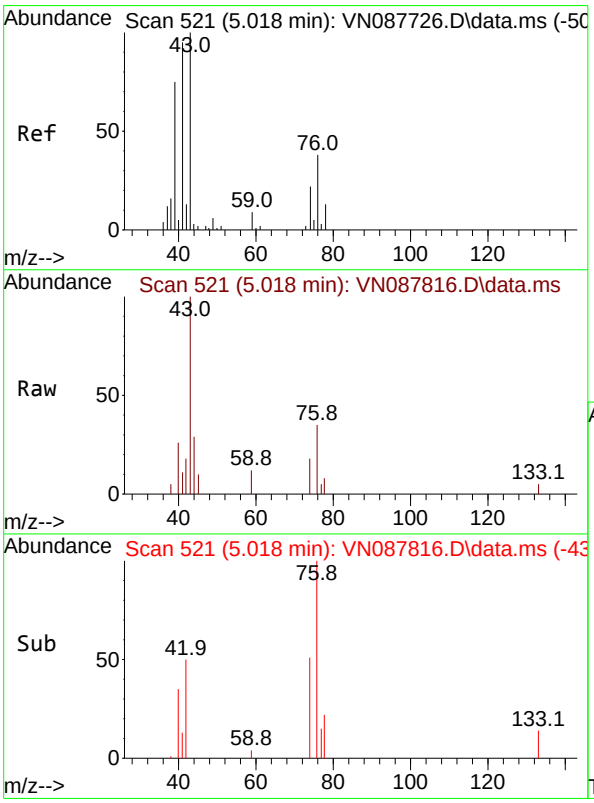
Ion	Ratio	Lower	Upper
74	100		
45	105.4	20.4	183.8

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

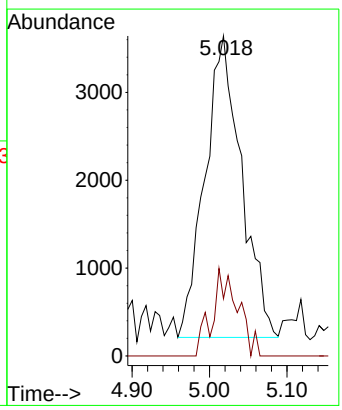


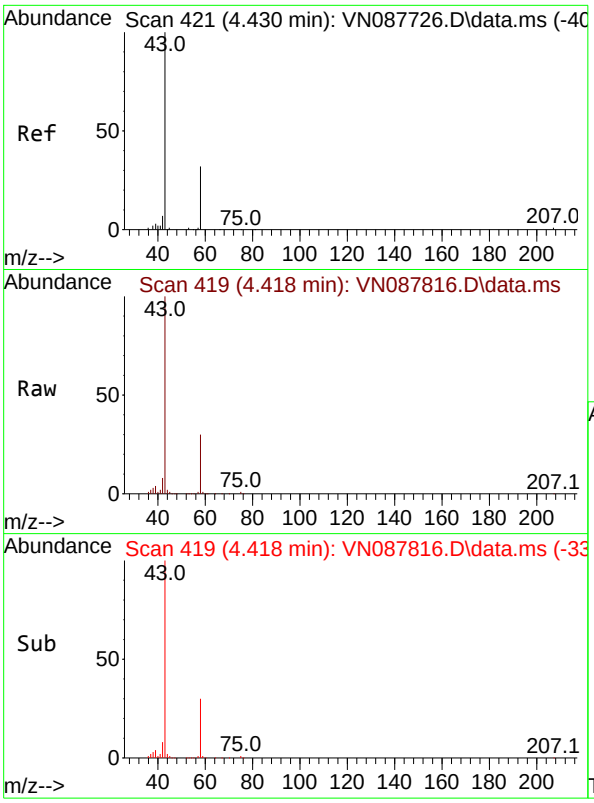


#12
Methyl Acetate
Concen: 2.179 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 43 Resp: 11241

Ion	Ratio	Lower	Upper
43	100		
74	19.1	17.5	26.3

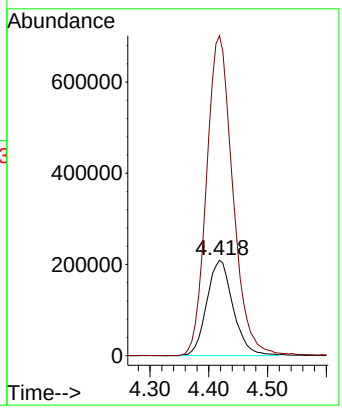




#15
Acetone
Concen: 938.888 ug/l
RT: 4.418 min Scan# 4
Delta R.T. -0.012 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 58 Resp: 65049

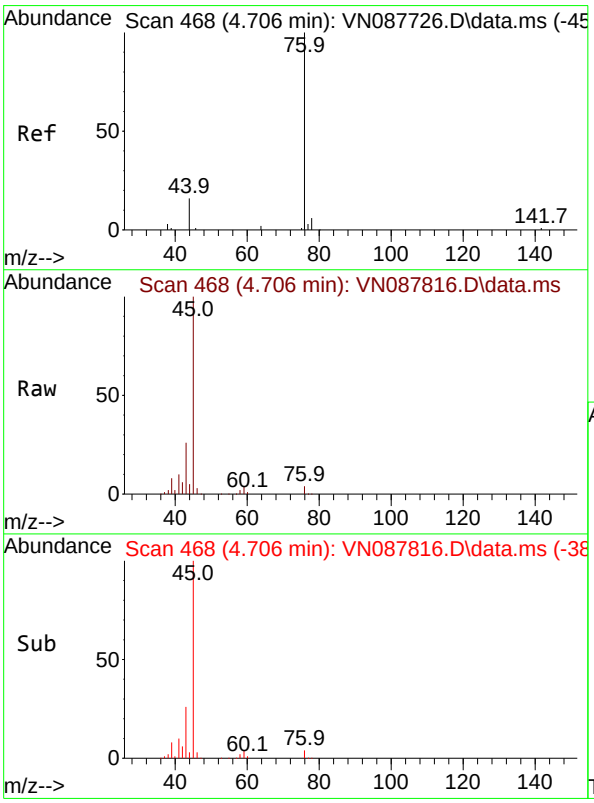
Ion	Ratio	Lower	Upper
58	100		
43	335.1	250.6	376.0



Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

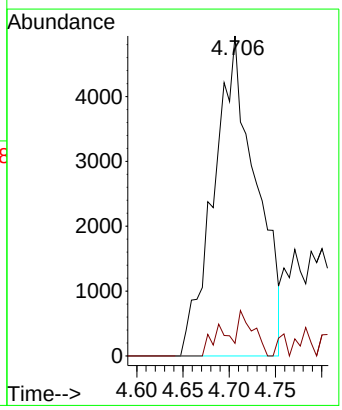
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

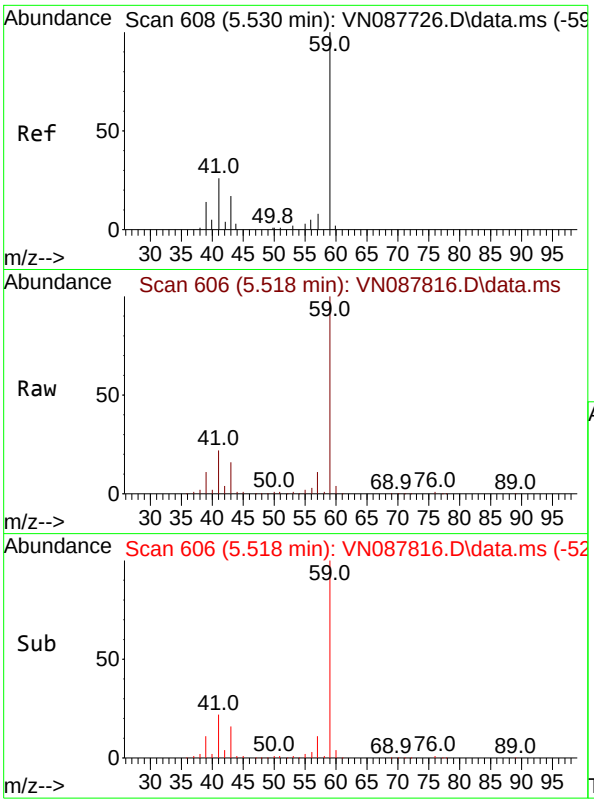


#16
Carbon Disulfide
Concen: 1.695 ug/l m
RT: 4.706 min Scan# 468
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 76 Resp: 15578

Ion	Ratio	Lower	Upper
76	100		
78	4.0	5.0	7.6#





#23
tert-Butyl Alcohol
Concen: 3961.284 ug/l
RT: 5.518 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

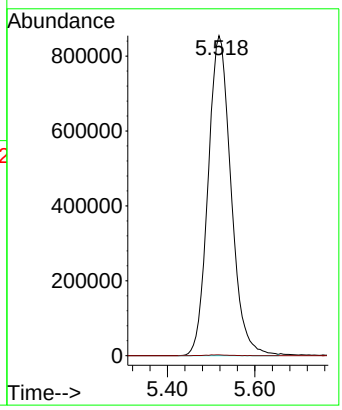
Tgt Ion: 59 Resp: 310997

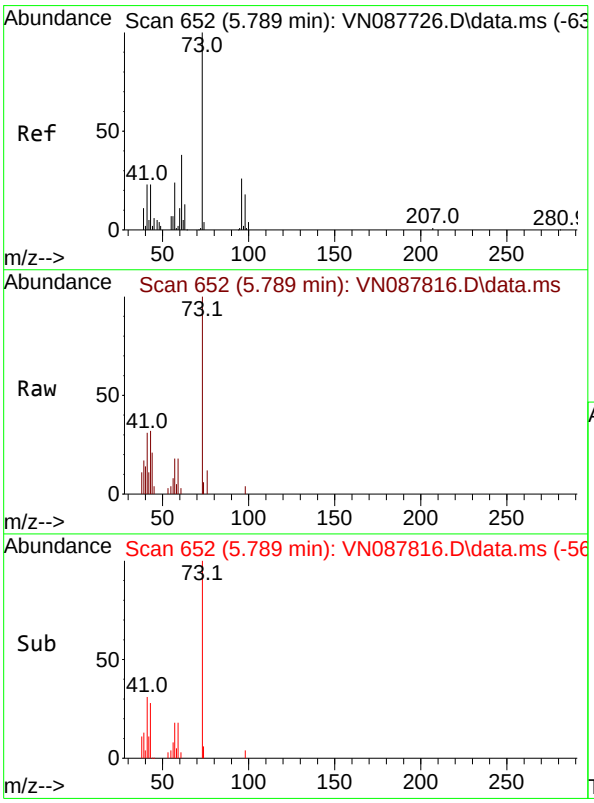
Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.0	0.0#

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

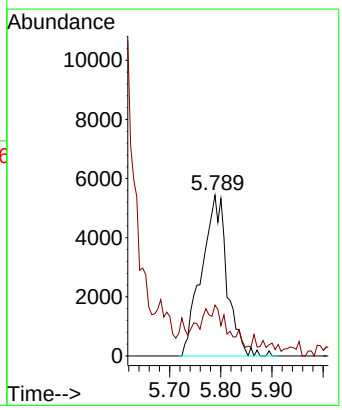


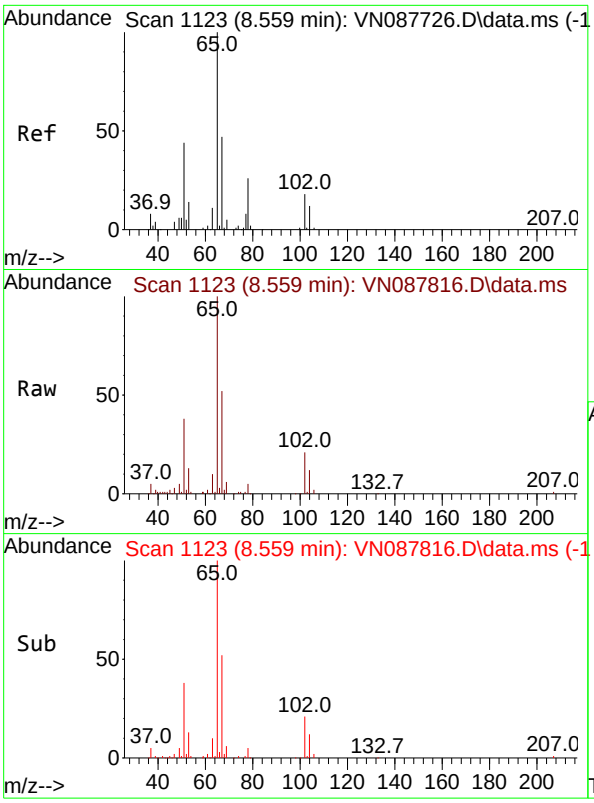


#24
Methyl tert-Butyl Ether
Concen: 1.568 ug/l m
RT: 5.789 min Scan# 652
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 73 Resp: 18741

Ion	Ratio	Lower	Upper
73	100		
43	14.9	16.8	25.2#





#27
1,2-Dichloroethane-d4
Concen: 30.048 ug/l
RT: 8.559 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

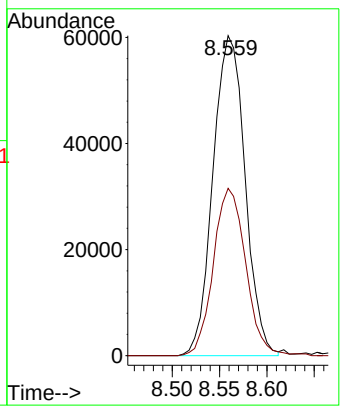
Tgt Ion: 65 Resp: 14232

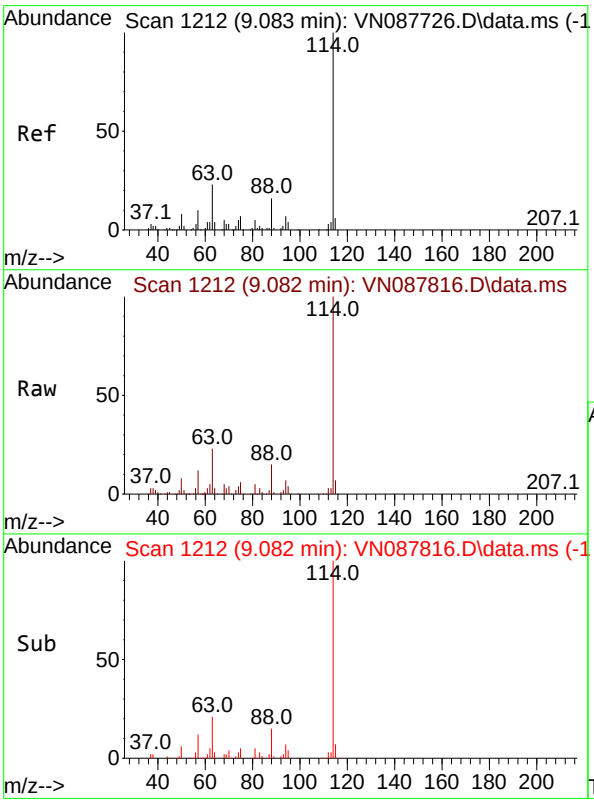
Ion	Ratio	Lower	Upper
65	100		
67	52.5	39.6	59.4

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

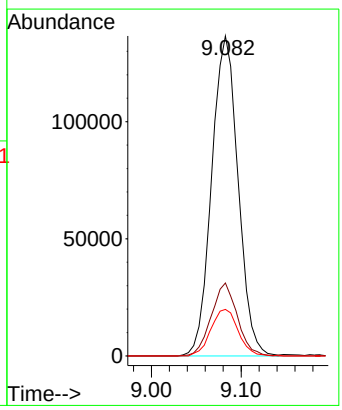


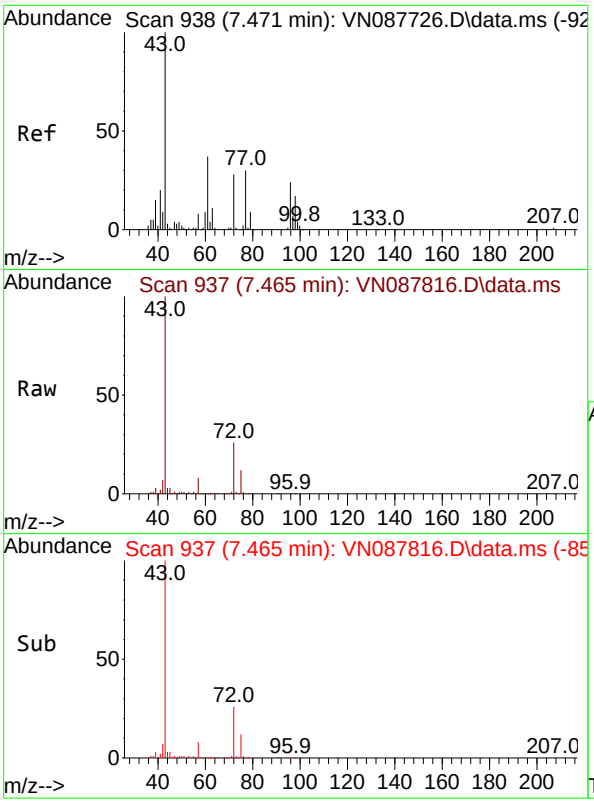


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion:114 Resp: 279587

Ion	Ratio	Lower	Upper
114	100		
63	22.5	18.3	27.5
88	15.0	12.4	18.6





#30
2-Butanone
Concen: 1132.450 ug/l
RT: 7.465 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

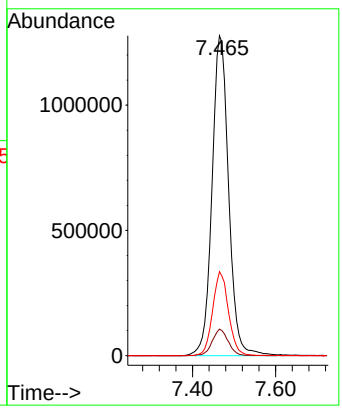
Tgt Ion: 43 Resp: 354466

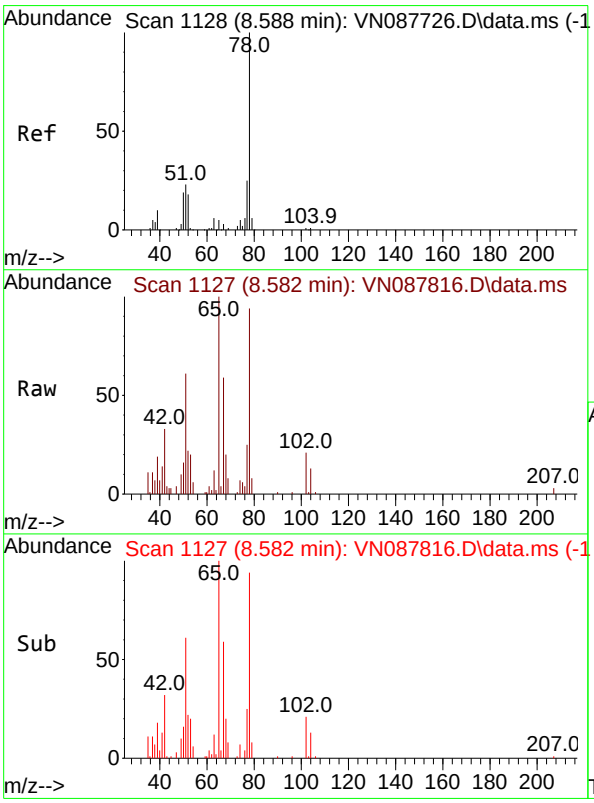
Ion	Ratio	Lower	Upper
43	100		
57	8.0	6.3	9.5
72	25.1	21.4	32.2

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

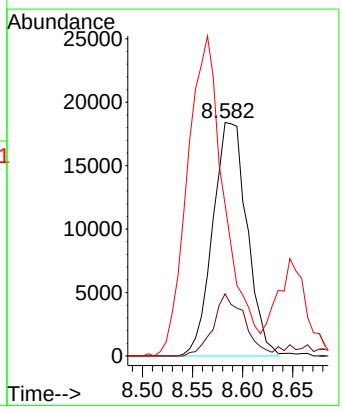


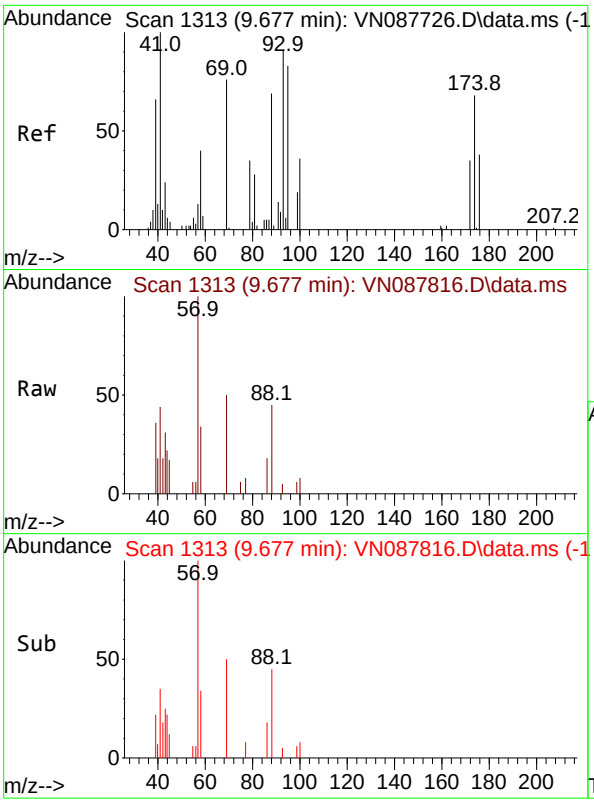


#34
Benzene
Concen: 2.979 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 78 Resp: 43742

Ion	Ratio	Lower	Upper
78	100		
77	26.6	20.3	30.5
51	36.9	18.0	27.0#





#45
1,4-Dioxane
Concen: 65.719 ug/l m
RT: 9.677 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

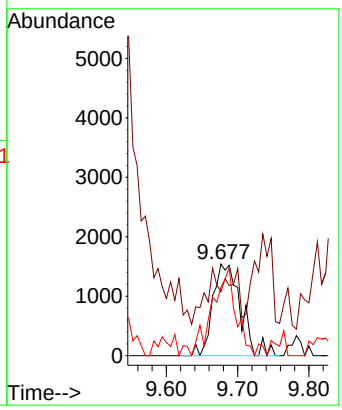
Tgt Ion: 88 Resp: 415

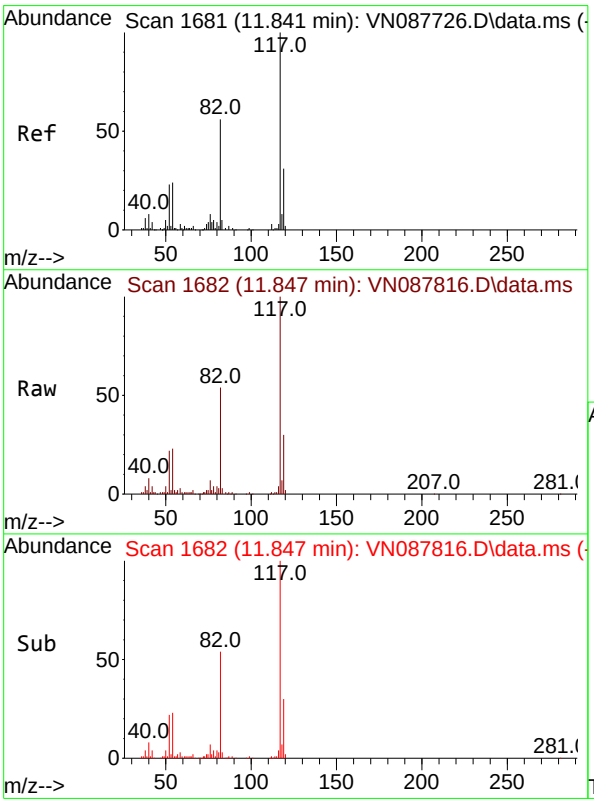
Ion	Ratio	Lower	Upper
88	100		
43	20.1	23.6	35.4
58	73.6	60.5	90.7

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

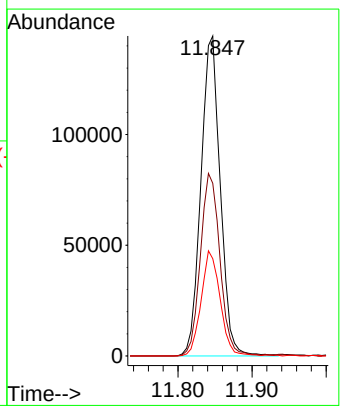


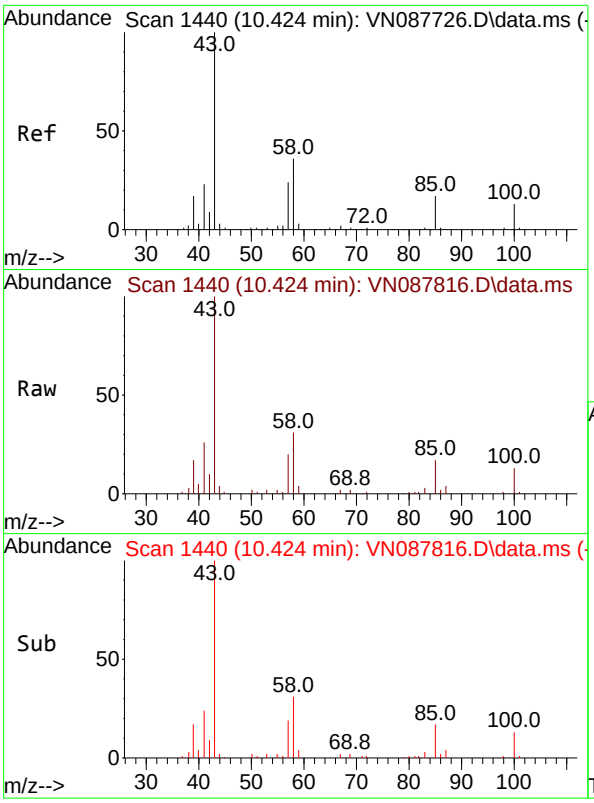


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion:117 Resp: 261896

Ion	Ratio	Lower	Upper
117	100		
82	57.8	45.9	68.9
119	32.3	25.3	37.9





#58
4-Methyl-2-Pentanone
Concen: 12.307 ug/l
RT: 10.424 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

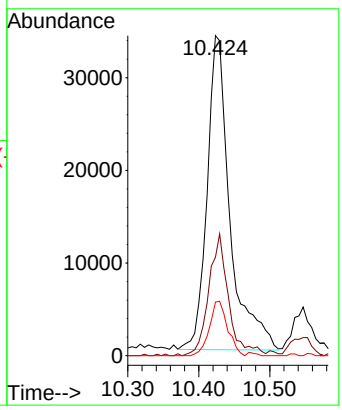
Tgt Ion: 43 Resp: 7621(

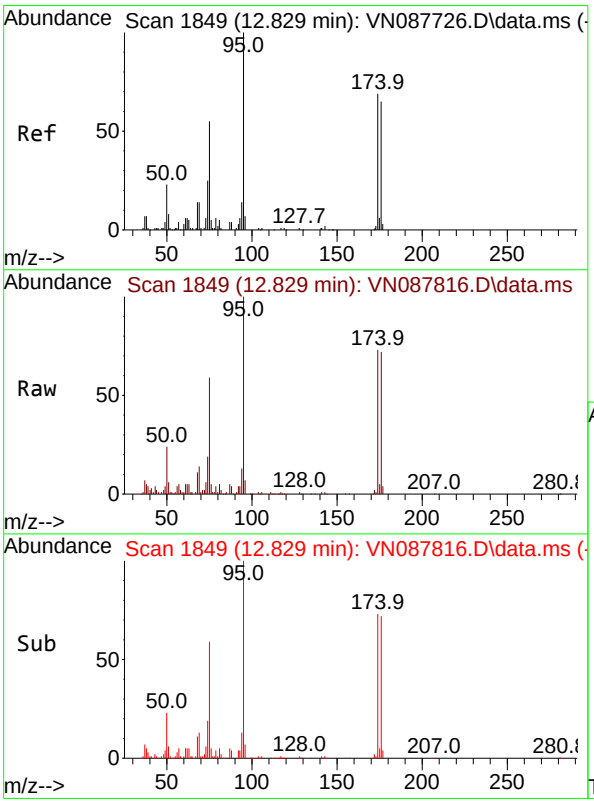
Ion	Ratio	Lower	Upper
43	100		
58	31.8	29.6	44.4
85	13.7	13.0	19.4

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

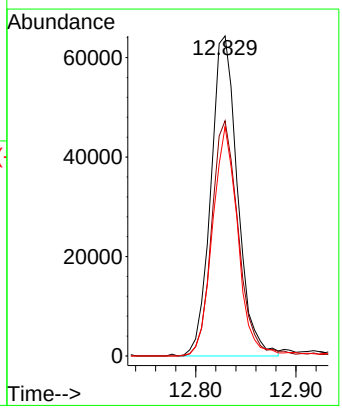


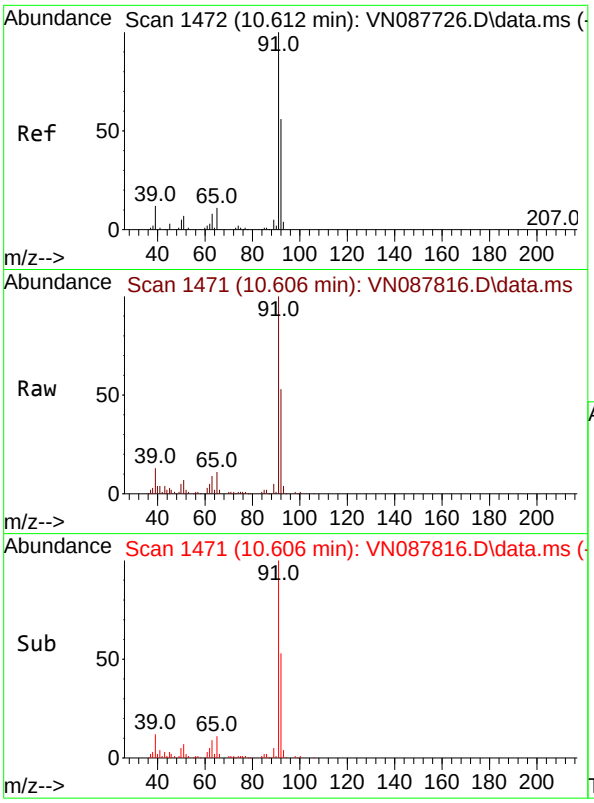


#60
4-Bromofluorobenzene
Concen: 28.244 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 95 Resp: 118936

Ion	Ratio	Lower	Upper
95	100		
174	73.6	55.4	83.0
176	67.8	51.5	77.3





#62
Toluene
Concen: 6.893 ug/l
RT: 10.606 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

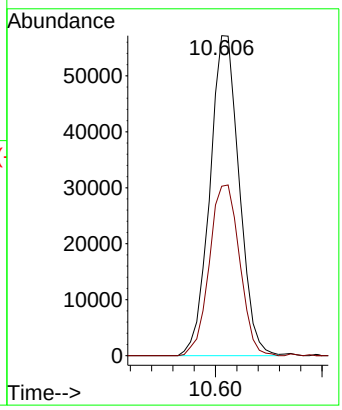
Tgt Ion: 91 Resp: 10919

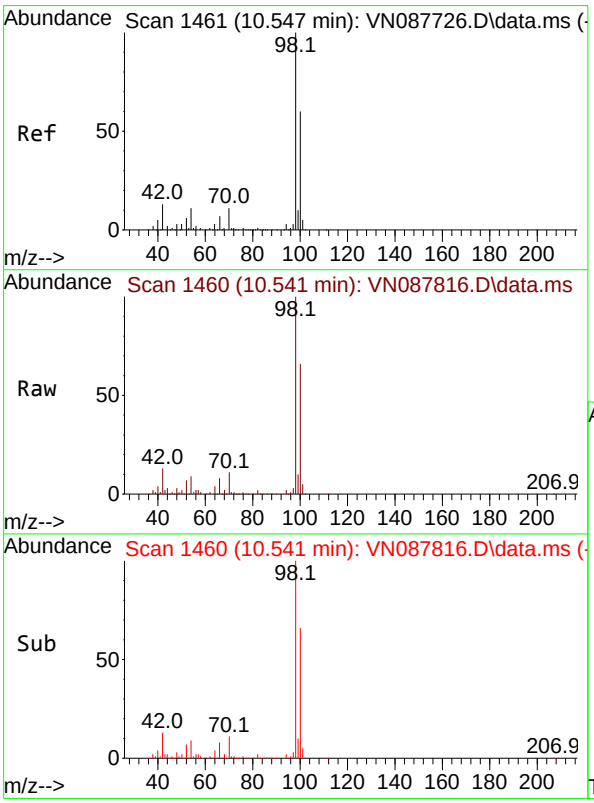
Ion	Ratio	Lower	Upper
91	100		
92	55.0	45.4	68.0

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

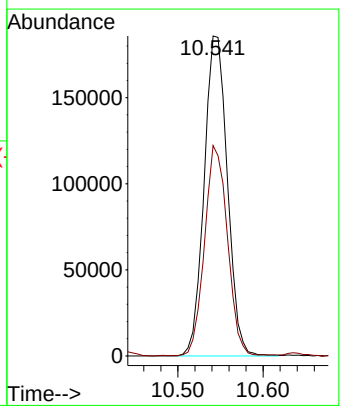


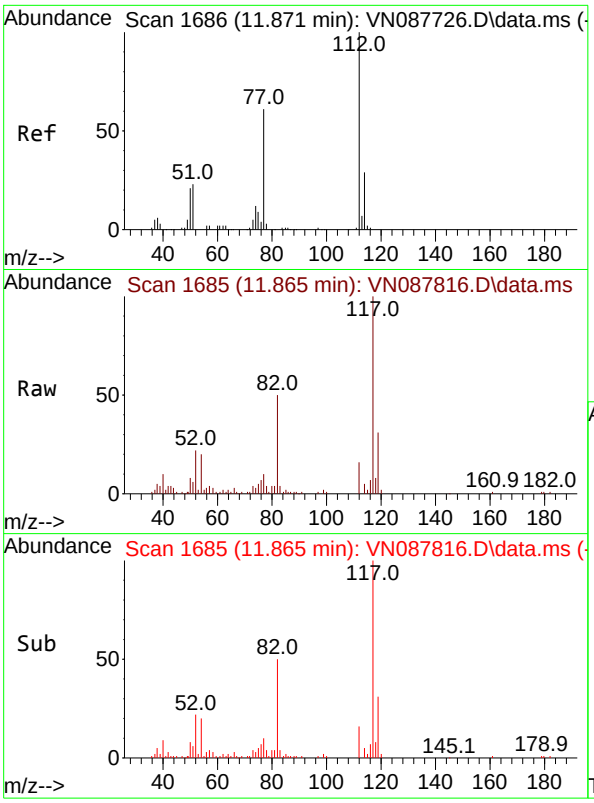


#63
Toluene-d8
Concen: 28.907 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 98 Resp: 352072

Ion	Ratio	Lower	Upper
98	100		
100	64.8	50.6	76.0





#64
Chlorobenzene
Concen: 1.166 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

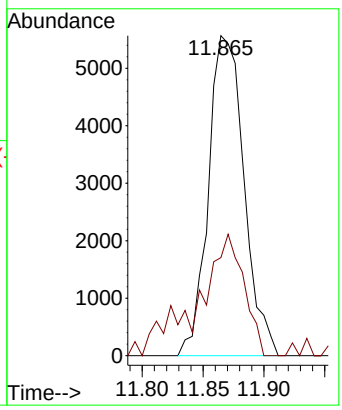
Tgt Ion:112 Resp: 1133

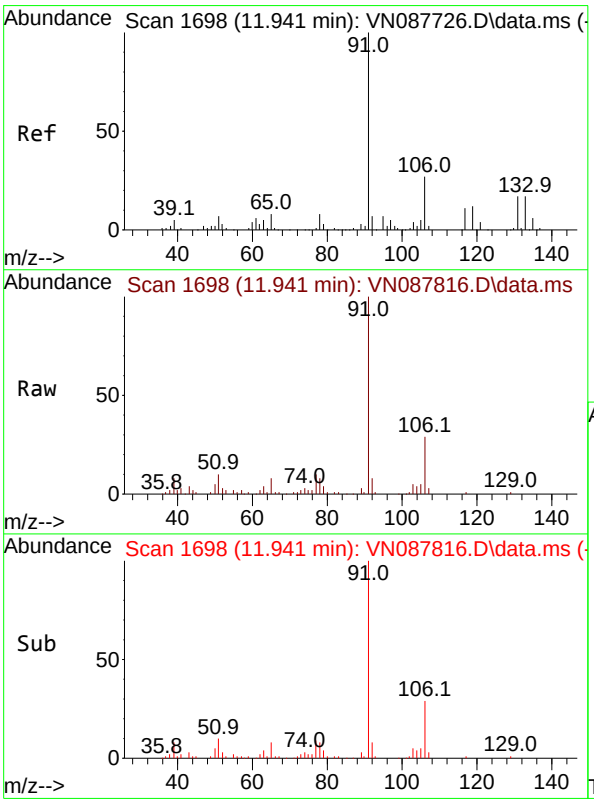
Ion	Ratio	Lower	Upper
112	100		
114	30.6	23.5	35.3

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

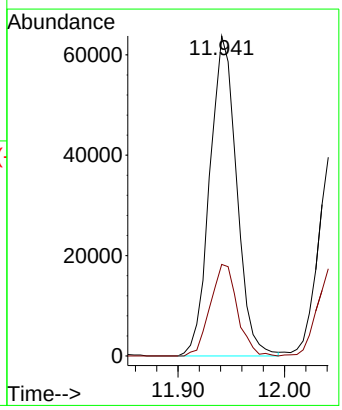


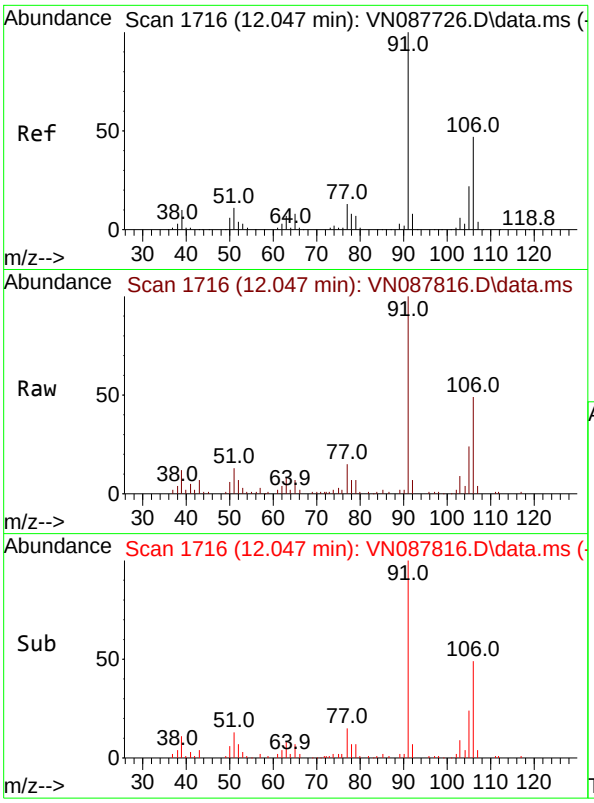


#66
Ethyl Benzene
Concen: 6.542 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 91 Resp: 111813

Ion	Ratio	Lower	Upper
91	100		
106	28.6	21.3	31.9





#67
m/p-Xylenes
Concen: 6.028 ug/l
RT: 12.047 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

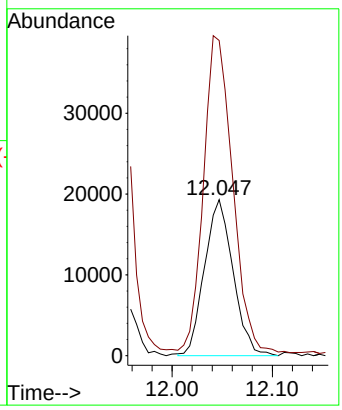
Tgt Ion:106 Resp: 3824

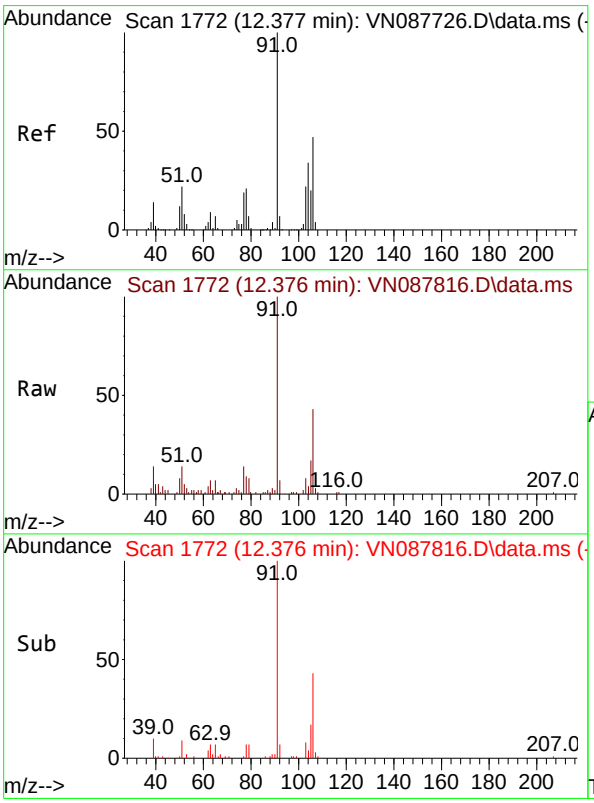
Ion	Ratio	Lower	Upper
106	100		
91	201.6	174.3	261.5

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

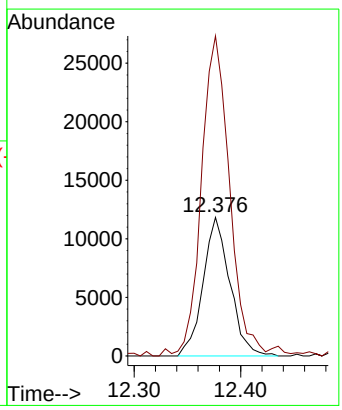


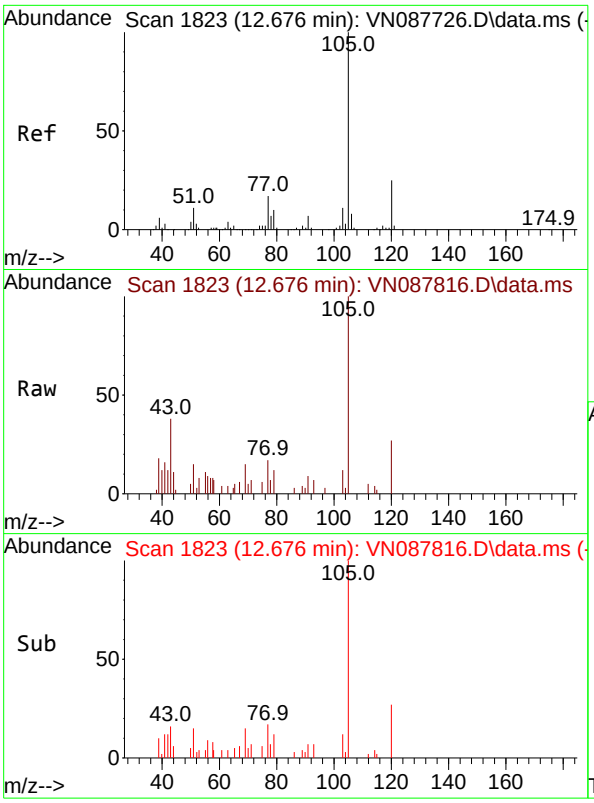


#68
o-Xylene
Concen: 3.378 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion:106 Resp: 20779

Ion	Ratio	Lower	Upper
106	100		
91	237.6	107.7	323.3





#70
Isopropylbenzene
Concen: 0.693 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

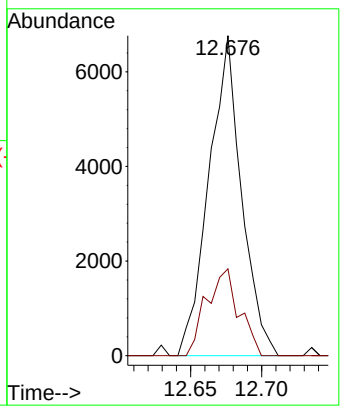
Tgt Ion:105 Resp: 1081

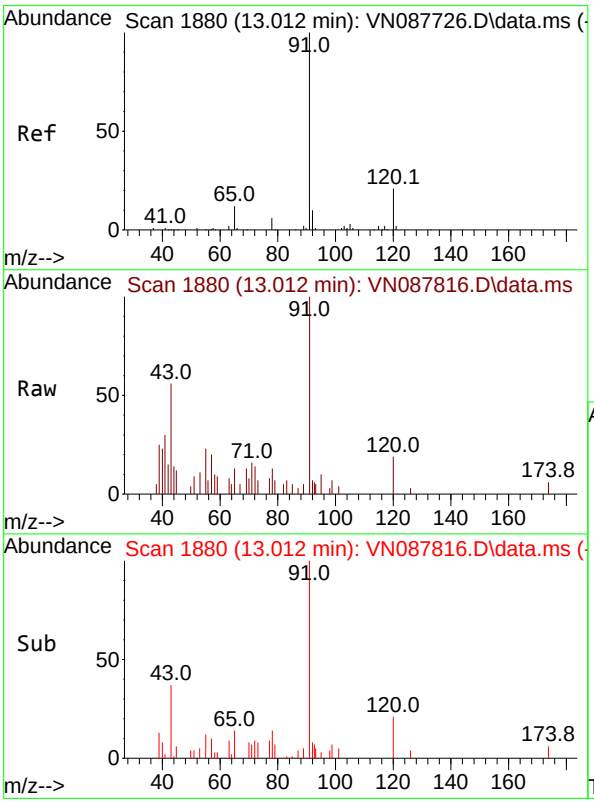
Ion	Ratio	Lower	Upper
105	100		
120	27.2	17.4	32.4

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

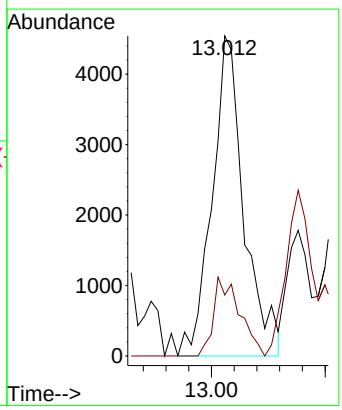


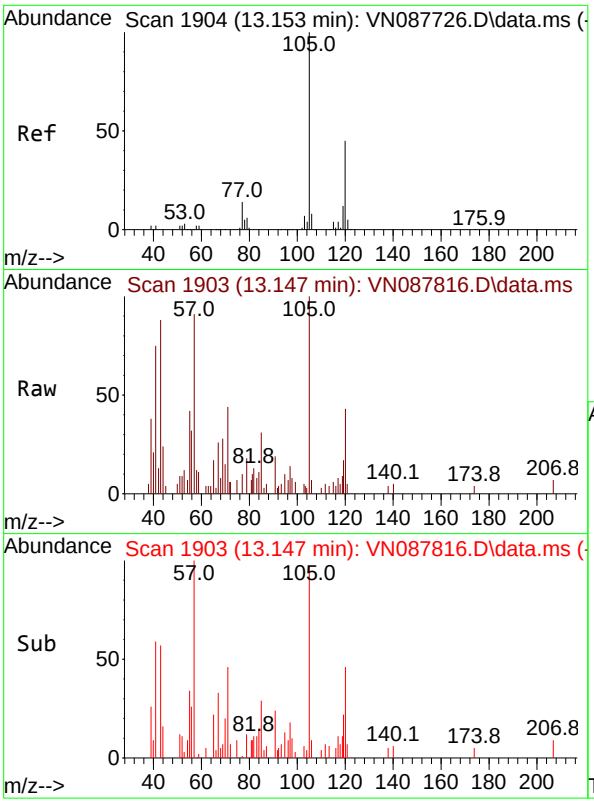


#74
n-propylbenzene
Concen: 0.448 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion: 91 Resp: 8823

Ion	Ratio	Lower	Upper
91	100		
120	20.3	0.0	42.2





#76
1,3,5-Trimethylbenzene
Concen: 0.623 ug/l
RT: 13.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

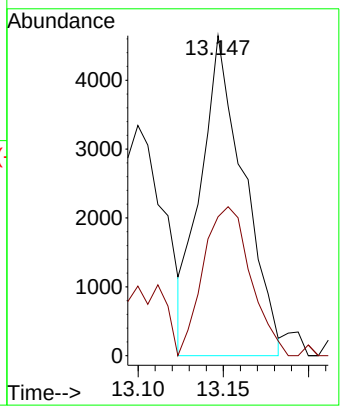
Tgt Ion:105 Resp: 821

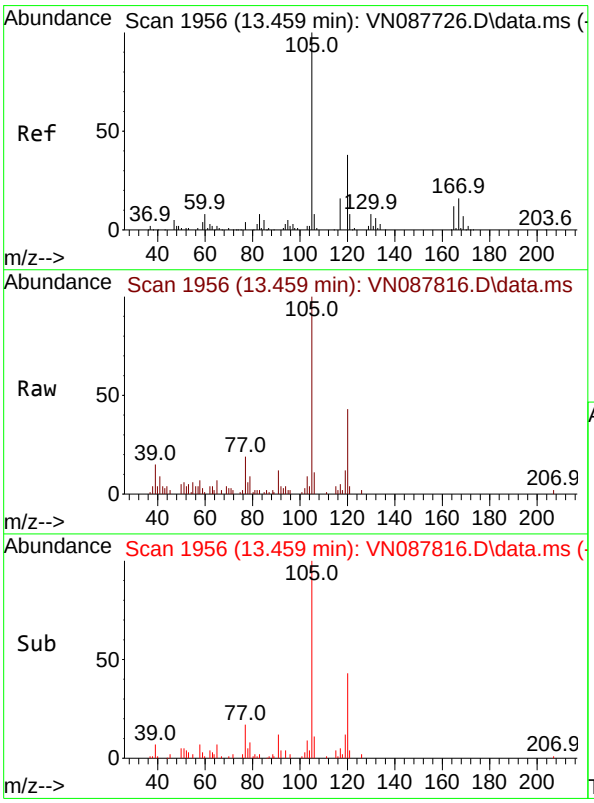
Ion	Ratio	Lower	Upper
105	100		
120	50.9	0.0	92.6

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

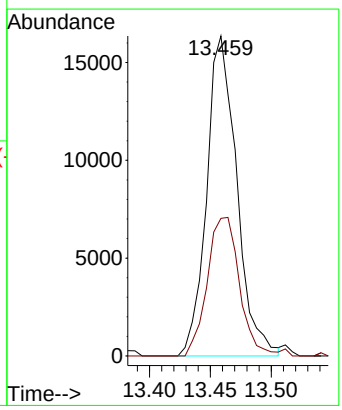


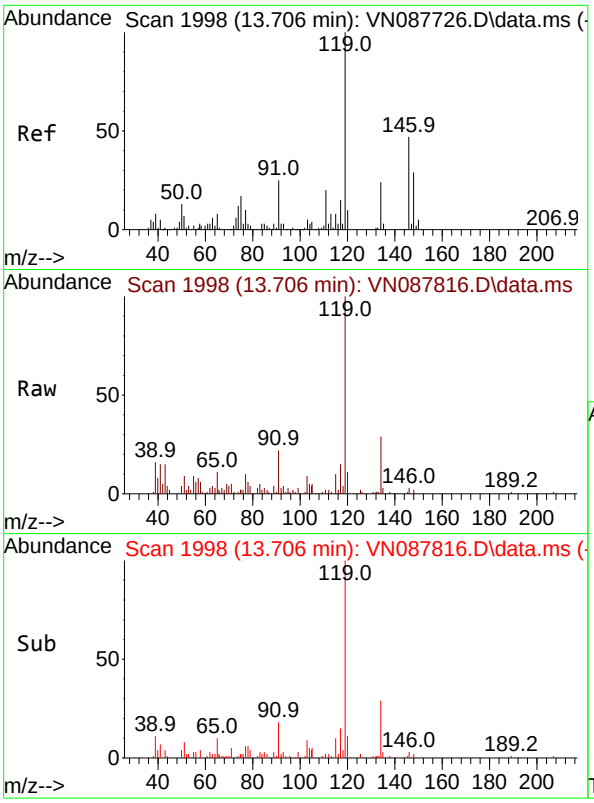


#80
1,2,4-Trimethylbenzene
Concen: 2.087 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion:105 Resp: 28180

Ion	Ratio	Lower	Upper
105	100		
120	46.2	0.0	86.6

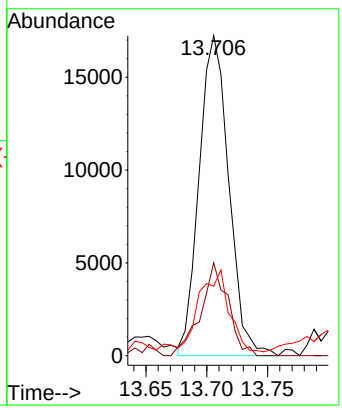




#82
p-Isopropyltoluene
Concen: 2.186 ug/l
RT: 13.706 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion:119 Resp: 2921

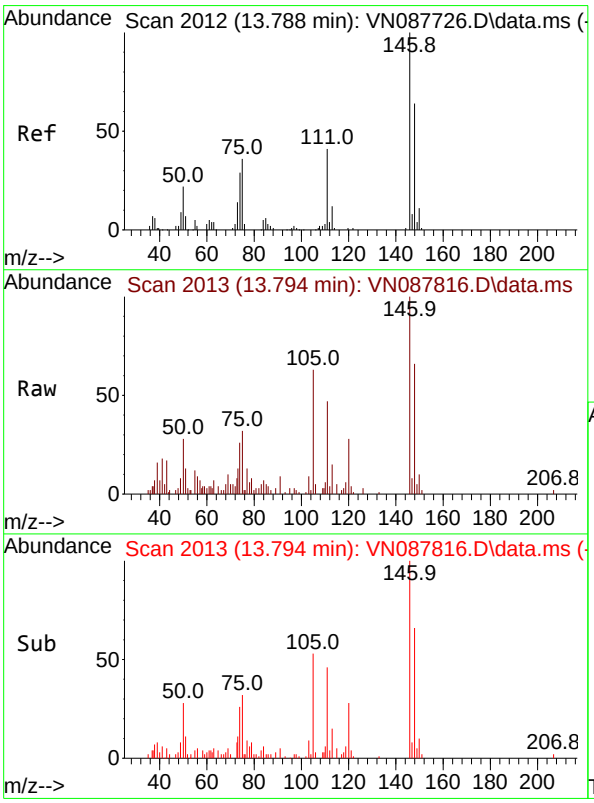
Ion	Ratio	Lower	Upper
119	100		
134	26.7	0.0	49.4
91	11.7	0.0	52.2



Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

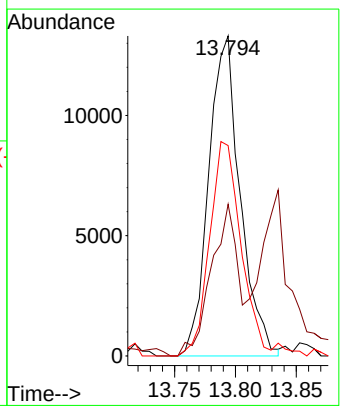
Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

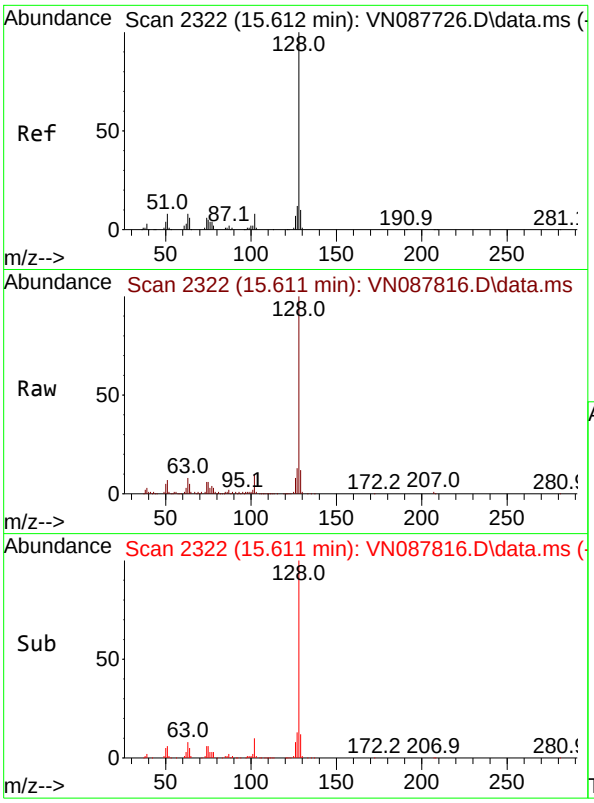


#84
1,4-Dichlorobenzene
Concen: 3.242 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion:146 Resp: 23903

Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.2	60.5
148	66.7	31.5	94.5

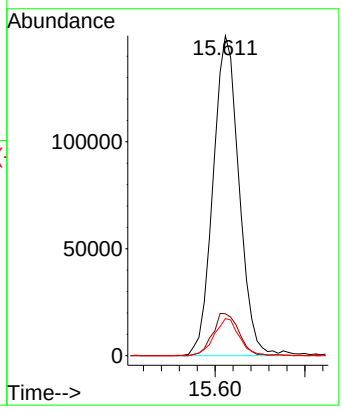




#91
Naphthalene
Concen: 20.608 ug/l
RT: 15.611 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087816.D
Acq: 12 Sep 2025 12:40

Tgt Ion:128 Resp: 29940

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.2	15.4
129	11.3	8.3	12.5



Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

Raw Data: **VN087815.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	09/10/25
Project:	Waste Water 2025	Date Received:	09/11/25
Client Sample ID:	250910064-04-TRIP-BLANK	SDG No.:	Q3078
Lab Sample ID:	Q3078-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087815.D	1	09/12/25 12:19	VN091225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.3		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	28.2		91 - 112	94%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.8		63 - 112	83%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	47700	7.8			
540-36-3	1,4-Difluorobenzene	237000	9.083			
3114-55-4	Chlorobenzene-d5	222000	11.847			

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

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

Sample Results: **VN087815.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087815.D
Acq On : 12 Sep 2025 12:19
Operator : JC\MD
Sample : Q3078-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250910064-01-TRIP-BLANK

Quant Time: Sep 12 22:52:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

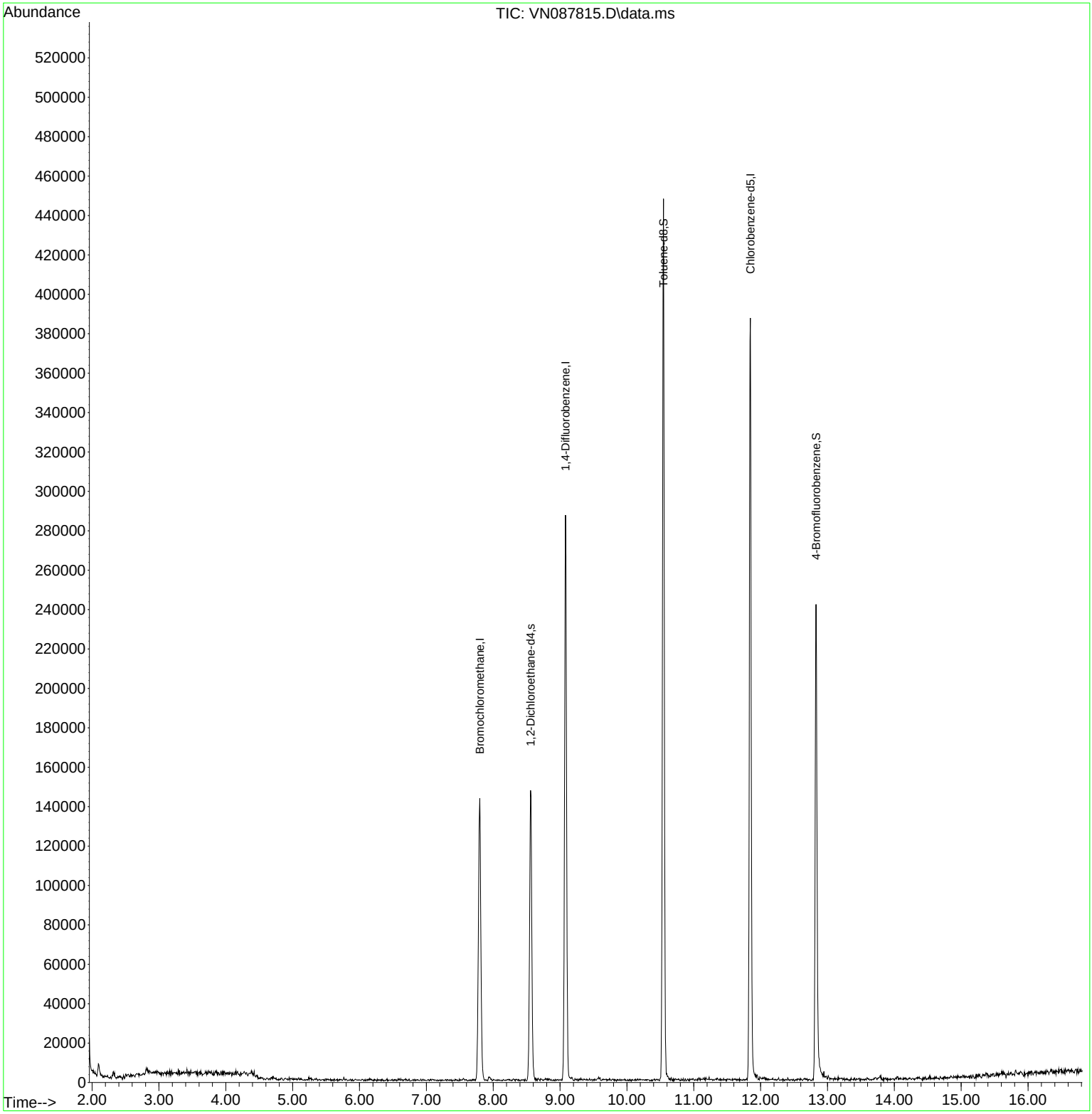
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.800	128	47676	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	237316	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	222106	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	119123	29.250	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 97.500%			
60) 4-Bromofluorobenzene	12.829	95	88528	24.789	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 82.633%			
63) Toluene-d8	10.547	98	291437	28.215	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.067%			
Target Compounds						Qvalue

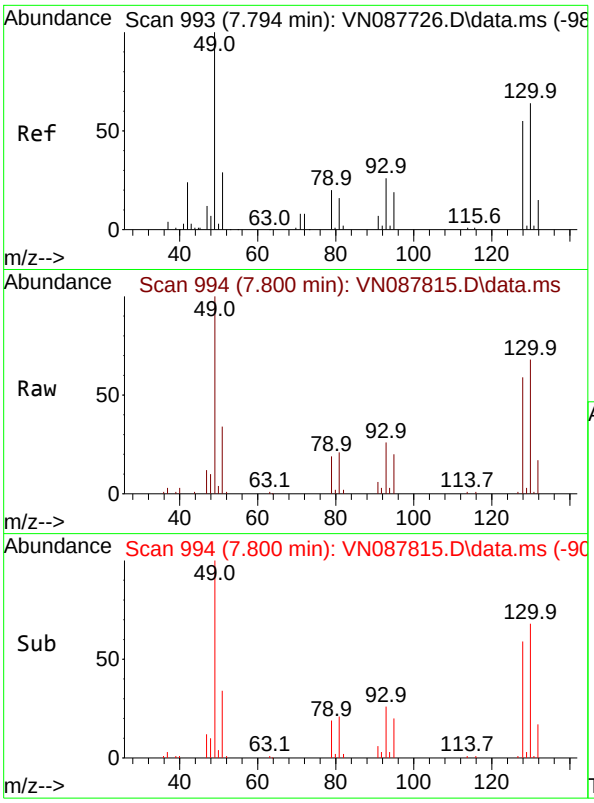
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087815.D
Acq On : 12 Sep 2025 12:19
Operator : JC\MD
Sample : Q3078-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250910064-01-TRIP-BLANK

Quant Time: Sep 12 22:52:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration



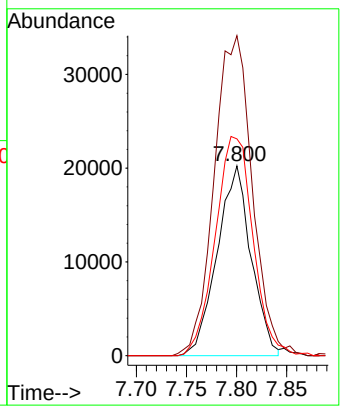


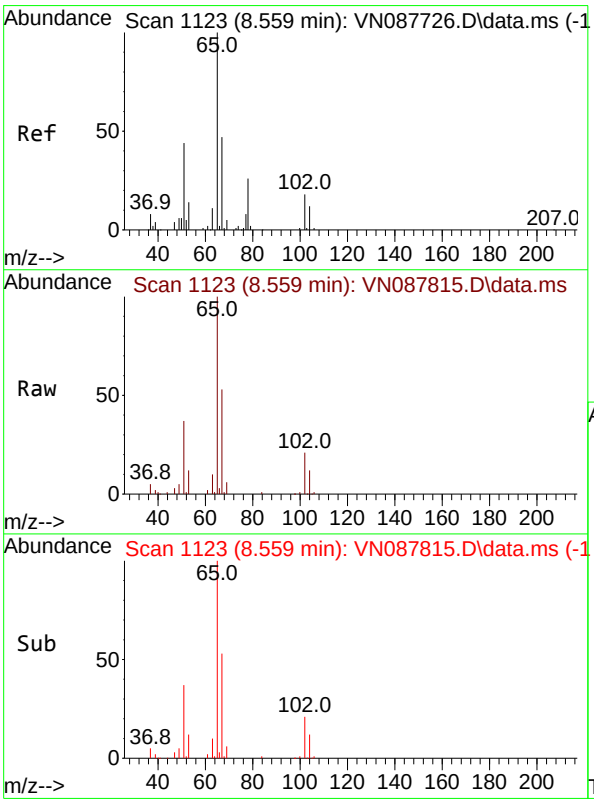
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN087815.D
Acq: 12 Sep 2025 12:19

Instrument :
MSVOA_N
ClientSampleId :
250910064-01-TRIP-BLANK

Tgt Ion:128 Resp: 47676

Ion	Ratio	Lower	Upper
128	100		
49	189.6	0.0	464.3
130	128.5	0.0	300.5

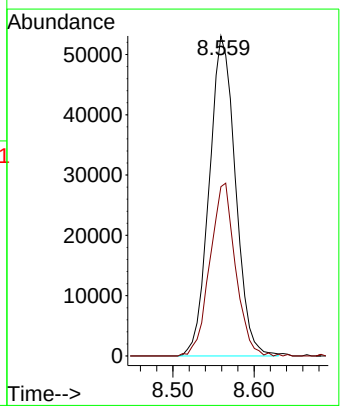


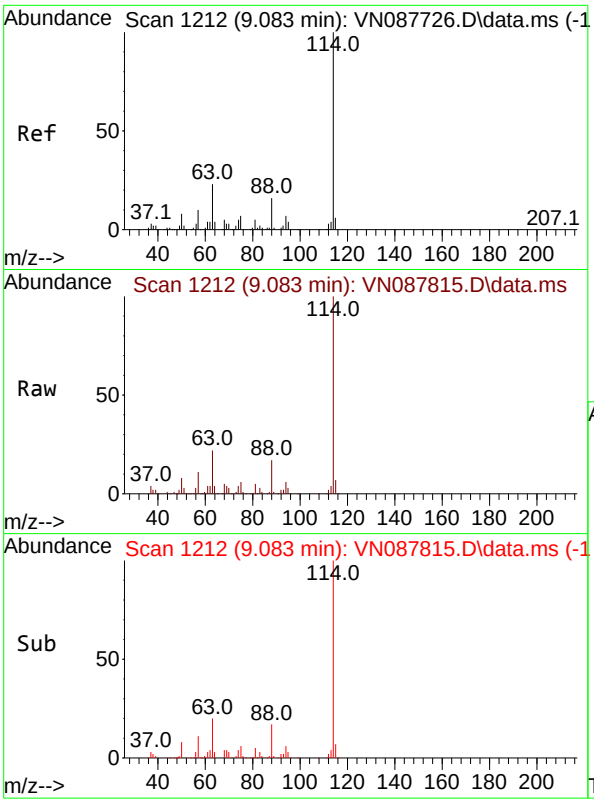


#27
1,2-Dichloroethane-d4
Concen: 29.250 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087815.D
Acq: 12 Sep 2025 12:19

Tgt Ion: 65 Resp: 119123

Ion	Ratio	Lower	Upper
65	100		
67	52.6	39.6	59.4



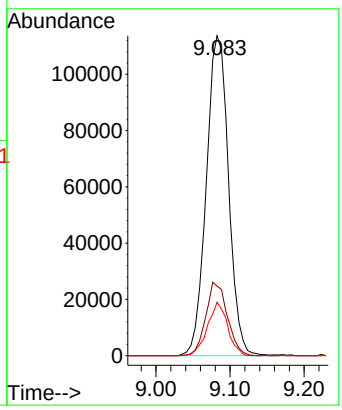


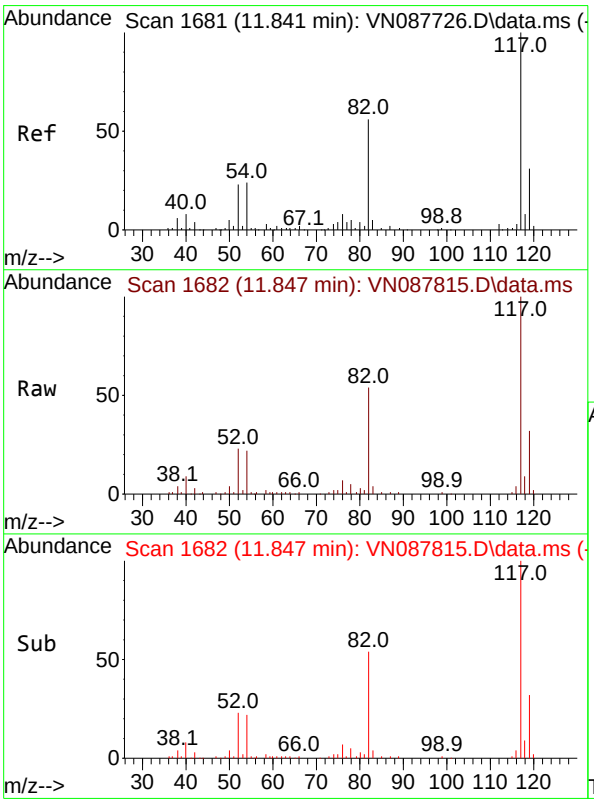
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087815.D
Acq: 12 Sep 2025 12:19

Instrument :
MSVOA_N
ClientSampleId :
250910064-01-TRIP-BLANK

Tgt Ion:114 Resp: 237316

Ion	Ratio	Lower	Upper
114	100		
63	22.2	18.3	27.5
88	15.1	12.4	18.6

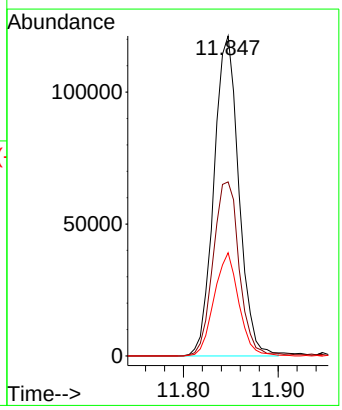


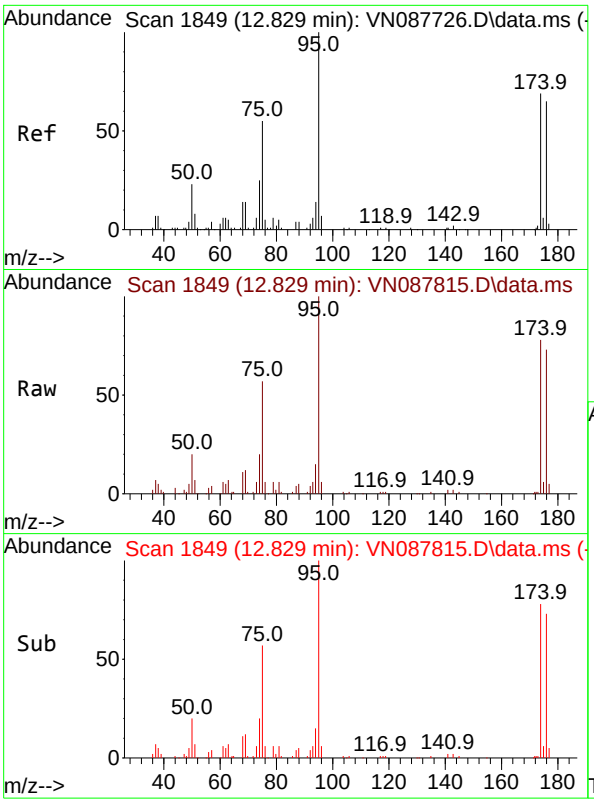


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087815.D
Acq: 12 Sep 2025 12:19

Tgt Ion:117 Resp: 222106

Ion	Ratio	Lower	Upper
117	100		
82	56.6	45.9	68.9
119	31.9	25.3	37.9



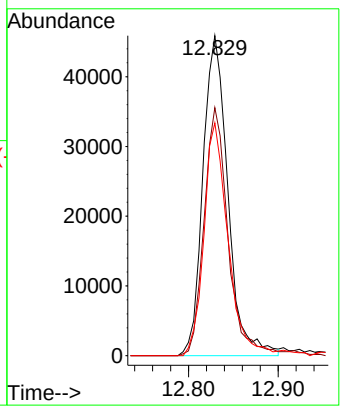


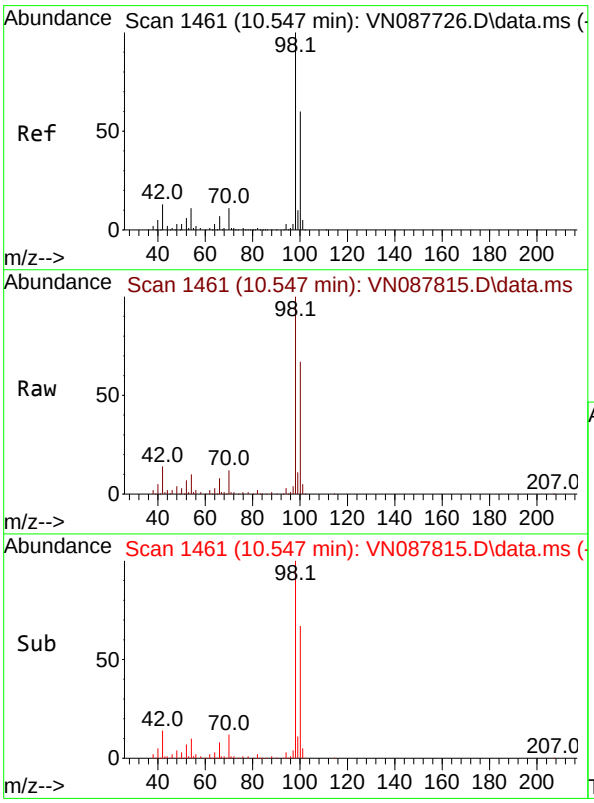
#60
4-Bromofluorobenzene
Concen: 24.789 ug/l
RT: 12.829 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087815.D
Acq: 12 Sep 2025 12:19

Instrument :
MSVOA_N
ClientSampleId :
250910064-01-TRIP-BLANK

Tgt Ion: 95 Resp: 88528

Ion	Ratio	Lower	Upper
95	100		
174	74.2	55.4	83.0
176	70.0	51.5	77.3

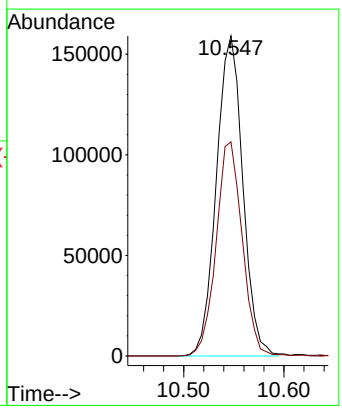




#63
Toluene-d8
Concen: 28.215 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087815.D
Acq: 12 Sep 2025 12:19

Tgt Ion: 98 Resp: 291437

Ion	Ratio	Lower	Upper
98	100		
100	66.0	50.6	76.0



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GARD04

Lab Code: ACE SDG No.: Q3078

Instrument ID: MSVOA_N Calibration Date(s): 09/04/2025 09/04/2025

Heated Purge: (Y/N) N Calibration Time(s): 16:23 17:46

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

LAB FILE ID: RRF005 = VN087725.D RRF020 = VN087726.D RRF050 = VN087727.D
RRF100 = VN087728.D RRF150 = VN087729.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Acrolein	0.523	0.431	0.496	0.518	0.518		0.497	7.7
Acrylonitrile	1.167	1.051	1.253	1.274	1.263		1.202	7.9
1,2-Dichloroethane-d4	2.618	2.509	2.604	2.499	2.583		2.563	2.2
Toluene-d8	1.403	1.411	1.392	1.402	1.369		1.395	1.2
4-Bromofluorobenzene	0.454	0.489	0.475	0.501	0.492		0.482	3.8

* 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.

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 624N090425W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Sep 05 03:29:53 2025
Response Via : Initial Calibration

Calibration Files
5 =VN087725.D 20 =VN087726.D 50 =VN087727.D 100 =VN087728.D 150 =VN087729.D

		Compound	5	20	50	100	150	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	M	Dichlorodifluoro...	1.642	1.750	2.035	2.008	1.888	1.865	9.01
3)	M	Chloromethane	1.939	1.792	2.026	2.037	1.992	1.957	5.12
4)	M	Vinyl Chloride	2.110	2.001	2.388	2.315	2.249	2.213	7.09
5)	M	Bromomethane	1.293	1.108	1.325	1.377	1.387	1.298	8.72
6)	M	Chloroethane	1.599	1.358	1.577	1.521	1.506	1.512	6.25
7)	M	Trichlorofluorom...	3.241	2.904	3.445	3.355	3.271	3.243	6.34
8)	T	Diethyl Ether	1.457	1.168	1.441	1.379	1.403	1.370	8.52
9)		1,1,2-Trichlorot...	1.776	1.591	1.904	1.779	1.733	1.757	6.40
10)	M	1,1-Dichloroethene	1.836	1.575	1.915	1.883	1.846	1.811	7.50
11)		Methyl Iodide	0.809	0.935	1.355	1.579	1.732	1.282	31.21
12)		Methyl Acetate	2.516	2.540	2.953	2.978	2.972	2.792	8.63
13)	M	Acrolein	0.523	0.431	0.496	0.518	0.518	0.497	7.67
14)	M	Acrylonitrile	1.167	1.051	1.253	1.274	1.263	1.202	7.87
15)	M	Acetone	0.487	0.319	0.366	0.355	0.349	0.375	17.29
16)	M	Carbon Disulfide	4.965	4.353	5.190	5.135	5.219	4.972	7.24
17)		Allyl chloride	3.004	2.541	3.014	3.085	3.147	2.958	8.13
18)	M	Methylene Chloride	2.174	1.759	2.150	2.090	2.084	2.052	8.19
19)	M	trans-1,2-Dichlo...	1.709	1.652	1.947	1.965	1.962	1.847	8.31
20)	T	Diisopropyl ether	6.079	5.922	7.317	7.335	7.360	6.802	10.80
21)	M	1,1-Dichloroethane	3.750	3.277	3.899	3.878	3.823	3.725	6.90
22)	M	cis-1,2-Dichloro...	2.078	1.988	2.367	2.370	2.406	2.242	8.64
23)	M	tert-Butyl Alcohol	0.422	0.383	0.436	0.436	0.448	0.425	5.94
24)	M	Methyl tert-Buty...	5.787	5.537	6.897	6.968	7.139	6.466	11.51
25)	M	Chloroform	3.785	3.484	4.143	4.049	4.035	3.899	6.85
26)		Cyclohexane	2.568	2.447	3.169	3.015	2.984	2.837	10.98
27)	s	1,2-Dichloroetha...	2.618	2.509	2.604	2.499	2.583	2.563	2.15
28)	I	1,4-Difluorobenzene	----------ISTD----------						
29)		1,1-Dichloropropene	0.462	0.448	0.506	0.516	0.505	0.488	6.20
30)	M	2-Butanone	0.348	0.303	0.339	0.348	0.342	0.336	5.65
31)		2,2-Dichloropropane	0.613	0.495	0.606	0.616	0.609	0.588	8.81
32)	M	1,1,1-Trichloroe...	0.599	0.582	0.635	0.647	0.628	0.618	4.35
33)	M	Carbon Tetrachlo...	0.526	0.466	0.530	0.533	0.522	0.515	5.45
34)	M	Benzene	1.514	1.442	1.630	1.657	1.636	1.576	5.91
35)		Methacrylonitrile	0.313	0.344	0.357	0.377	0.365	0.351	6.95
36)	M	1,2-Dichloroethane	0.595	0.554	0.609	0.618	0.600	0.595	4.15
37)	M	Trichloroethene	0.352	0.323	0.364	0.366	0.357	0.352	4.96
38)		Methylcyclohexane	0.523	0.476	0.561	0.576	0.548	0.537	7.24
39)	M	1,2-Dichloropropane	0.394	0.374	0.407	0.428	0.415	0.404	5.03
40)		Dibromomethane	0.301	0.275	0.307	0.315	0.304	0.300	5.06
41)	M	Bromodichloromet...	0.612	0.570	0.616	0.647	0.624	0.614	4.54
42)	M	Vinyl Acetate	1.035	1.002	1.168	1.220	1.186	1.122	8.64
43)		Ethyl Acetate	0.673	0.647	0.704	0.704	0.703	0.686	3.78
44)		Isopropyl Acetate	0.957	0.995	1.115	1.175	1.137	1.076	8.78
45)	T	1,4-Dioxane	0.006	0.007	0.007	0.007	0.007	0.007	7.51
46)		Methyl methacrylate	0.457	0.443	0.514	0.544	0.521	0.496	8.79
47)		n-amyl Acetate	0.748	0.518	0.763	0.791	0.816	0.727	16.47
48)	M	t-1,3-Dichloropr...	0.594	0.556	0.653	0.696	0.689	0.638	9.53
49)	T	cis-1,3-Dichloro...	0.607	0.566	0.678	0.712	0.702	0.653	9.73
50)	M	1,1,2-Trichloroe...	0.388	0.354	0.399	0.401	0.398	0.388	5.07
51)		Ethyl methacrylate	0.434	0.513	0.662	0.703	0.706	0.604	20.43
52)		1,3-Dichloropropane	0.636	0.623	0.694	0.719	0.695	0.674	6.16
53)	M	Dibromochloromet...	0.420	0.369	0.454	0.468	0.464	0.435	9.54
54)	M	1,2-Dibromoethane	0.386	0.363	0.421	0.423	0.425	0.404	6.91
55)	M	2-Chloroethyl vi...	0.310	0.319	0.339	0.377	0.384	0.346	9.67
56)	M	Bromoform	0.265	0.242	0.289	0.312	0.313	0.284	10.82

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 624N090425W.M

57)	I	Chlorobenzene-d5	----------ISTD----------						
58)	M	4-Methyl-2-Penta...	0.666	0.655	0.734	0.754	0.738	0.709	6.43
59)	M	2-Hexanone	0.334	0.419	0.508	0.533	0.523	0.464	18.40
60)	S	4-Bromofluoroben...	0.454	0.489	0.475	0.501	0.492	0.482	3.78
61)	M	Tetrachloroethene	0.312	0.279	0.297	0.306	0.300	0.299	4.22
62)	M	Toluene	1.705	1.673	1.868	1.935	1.893	1.815	6.50
63)	S	Toluene-d8	1.403	1.411	1.392	1.402	1.369	1.395	1.16
64)	M	Chlorobenzene	1.063	1.006	1.127	1.191	1.182	1.114	7.10
65)		1,1,1,2-Tetrachl...	0.395	0.354	0.399	0.411	0.401	0.392	5.66
66)	M	Ethyl Benzene	1.736	1.744	2.042	2.145	2.122	1.958	10.34
67)	M	m/p-Xylenes	0.629	0.642	0.776	0.800	0.785	0.727	11.50
68)	M	o-Xylene	0.603	0.639	0.731	0.774	0.776	0.705	11.24
69)	M	Styrene	0.997	1.076	1.311	1.375	1.364	1.225	14.33
70)		Isopropylbenzene	1.538	1.555	1.896	1.984	1.960	1.787	12.39
71)	M	1,1,2,2-Tetrachl...	0.616	0.605	0.666	0.670	0.655	0.642	4.63
72)		1,2,3-Trichlorop...	0.672	0.640	0.612	0.625	0.605	0.631	4.26
73)		Bromobenzene	0.429	0.393	0.442	0.464	0.457	0.437	6.40
74)		n-propylbenzene	1.942	2.018	2.404	2.485	2.423	2.254	11.26
75)		2-Chlorotoluene	1.178	1.243	1.456	1.465	1.442	1.357	10.00
76)		1,3,5-Trimethylb...	1.292	1.352	1.616	1.666	1.617	1.509	11.46
77)		t-1,4-Dichloro-2...	0.155	0.182	0.224	0.247	0.257	0.213	20.35
78)		4-Chlorotoluene	1.091	1.260	1.493	1.505	1.490	1.368	13.57
79)		tert-butylbenzene	1.073	1.133	1.357	1.393	1.360	1.263	11.75
80)		1,2,4-Trimethylb...	1.292	1.405	1.677	1.697	1.663	1.547	12.01
81)		sec-Butylbenzene	1.629	1.677	1.986	2.034	1.966	1.858	10.21
82)		p-Isopropyltoluene	1.311	1.361	1.655	1.693	1.637	1.531	11.78
83)	M	1,3-Dichlorobenzene	0.762	0.789	0.888	0.900	0.874	0.843	7.45
84)	M	1,4-Dichlorobenzene	0.778	0.776	0.895	0.908	0.867	0.845	7.52
85)		n-Butylbenzene	1.249	1.282	1.609	1.636	1.583	1.472	12.88
86)	T	Hexachloroethane	0.287	0.286	0.328	0.330	0.324	0.311	7.24
87)	M	1,2-Dichlorobenzene	0.718	0.733	0.839	0.855	0.828	0.795	8.07
88)		1,2-Dibromo-3-Ch...	0.123	0.139	0.146	0.154	0.152	0.143	8.87
89)		1,2,4-Trichlorob...	0.410	0.400	0.471	0.491	0.488	0.452	9.70
90)		Hexachlorobutadiene	0.146	0.146	0.155	0.160	0.152	0.152	3.95
91)	M	Naphthalene	1.306	1.443	1.764	1.891	1.918	1.664	16.54
92)		1,2,3-Trichlorob...	0.410	0.400	0.471	0.491	0.488	0.452	9.70

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087725.D
Acq On : 04 Sep 2025 16:23
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 05 02:55:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.800	128	42575	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.082	114	216859	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.841	117	197903	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.559	65	111481	29.081	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 96.933%				
60) 4-Bromofluorobenzene	12.829	95	89929	26.721	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 89.067%				
63) Toluene-d8	10.547	98	277568	30.356	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.142	85	11648	4.330	ug/l		98
3) Chloromethane	2.383	50	13757	5.010	ug/l		97
4) Vinyl Chloride	2.542	62	14969	5.086	ug/l		96
5) Bromomethane	2.977	94	9176	5.656	ug/l	#	80
6) Chloroethane	3.136	64	11348	5.889	ug/l		95
7) Trichlorofluoromethane	3.512	101	22997	5.390	ug/l		92
8) Diethyl Ether	3.965	74	10337m	5.839	ug/l		
9) 1,1,2-Trichlorotrifluo...	4.371	101	12605m	5.679	ug/l		
10) 1,1-Dichloroethene	4.330	96	13028	5.695	ug/l	#	69
11) Methyl Iodide	4.594	142	5738m	3.195	ug/l		
12) Methyl Acetate	5.024	43	17852	4.306	ug/l		99
13) Acrolein	4.183	56	18545	28.610	ug/l	#	68
14) Acrylonitrile	5.712	53	41406	23.088	ug/l		66
15) Acetone	4.418	58	17262m	33.931	ug/l		
16) Carbon Disulfide	4.694	76	35228	5.033	ug/l		97
17) Allyl chloride	5.012	41	21319m	4.722	ug/l		
18) Methylene Chloride	5.265	84	15429	5.346	ug/l		94
19) trans-1,2-Dichloroethene	5.771	96	12127m	4.541	ug/l		
20) Diisopropyl ether	6.659	45	43135	4.193	ug/l	#	97
21) 1,1-Dichloroethane	6.553	63	26606	4.973	ug/l		95
22) cis-1,2-Dichloroethene	7.477	96	14747	4.514	ug/l		91
23) tert-Butyl Alcohol	5.524	59	14989m	20.107	ug/l		
24) Methyl tert-Butyl Ether	5.777	73	41065m	4.097	ug/l		
25) Chloroform	7.947	83	26857	4.769	ug/l		89
26) Cyclohexane	8.241	56	18224	4.308	ug/l	#	95
29) 1,1-Dichloropropene	8.347	75	16714	4.808	ug/l		81
30) 2-Butanone	7.471	43	62809	24.948	ug/l		94
31) 2,2-Dichloropropane	7.482	77	22147m	5.085	ug/l		
32) 1,1,1-Trichloroethane	8.147	97	21664	4.859	ug/l		97
33) Carbon Tetrachloride	8.347	117	18997	5.178	ug/l		91
34) Benzene	8.588	78	54727	4.965	ug/l	#	82
35) Methacrylonitrile	7.765	41	11323	4.140	ug/l		82
36) 1,2-Dichloroethane	8.647	62	21499	4.893	ug/l	#	88
37) Trichloroethene	9.335	130	12724	5.242	ug/l		91
38) Methylcyclohexane	9.582	83	18908	4.768	ug/l		96
39) 1,2-Dichloropropane	9.600	63	14250	5.045	ug/l		94
40) Dibromomethane	9.688	93	10862	5.143	ug/l		97
41) Bromodichloromethane	9.871	83	22133	5.018	ug/l		96
42) Vinyl Acetate	6.594	43	187082	22.588	ug/l	#	92

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087725.D
Acq On : 04 Sep 2025 16:23
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Sep 05 02:55:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
43) Ethyl Acetate	7.553	43	24321	4.902 ug/l		98
44) Isopropyl Acetate	8.677	43	34598	4.192 ug/l	#	73
45) 1,4-Dioxane	9.688	88	4349	82.302 ug/l	#	52
46) Methyl methacrylate	9.665	41	16516m	4.275 ug/l		
47) n-amyl Acetate	12.900	43	27025m	5.631 ug/l		
48) t-1,3-Dichloropropene	10.812	75	21459	4.564 ug/l		93
49) cis-1,3-Dichloropropene	10.288	75	21937	4.623 ug/l	#	93
50) 1,1,2-Trichloroethane	10.994	97	14010	5.222 ug/l	#	91
51) Ethyl methacrylate	10.859	69	15678	3.425 ug/l		96
52) 1,3-Dichloropropane	11.141	76	23001	4.782 ug/l		100
53) Dibromochloromethane	11.335	129	15190	4.974 ug/l		86
54) 1,2-Dibromoethane	11.447	107	13958	4.937 ug/l		97
55) 2-Chloroethyl vinyl ether	10.141	63	55971	22.629 ug/l		96
56) Bromoform	12.559	173	9575	4.732 ug/l	#	94
58) 4-Methyl-2-Pentanone	10.429	43	109790	22.421 ug/l		99
59) 2-Hexanone	11.182	43	55125	16.623 ug/l		100
61) Tetrachloroethene	11.082	164	10301	5.392 ug/l		92
62) Toluene	10.606	91	56231	4.722 ug/l		99
64) Chlorobenzene	11.870	112	35078	4.801 ug/l		94
65) 1,1,1,2-Tetrachloroethane	11.941	131	13029	5.065 ug/l		95
66) Ethyl Benzene	11.947	91	57255	4.362 ug/l		94
67) m/p-Xylenes	12.047	106	41515	8.594 ug/l		97
68) o-Xylene	12.376	106	19899	4.176 ug/l		87
69) Styrene	12.388	104	32885	4.057 ug/l		99
70) Isopropylbenzene	12.676	105	50734	4.232 ug/l		99
71) 1,1,2,2-Tetrachloroethane	12.917	83	20319	4.858 ug/l		100
72) 1,2,3-Trichloropropane	12.976	75	22173m	5.682 ug/l		
73) Bromobenzene	12.964	156	14160	4.997 ug/l		93
74) n-propylbenzene	13.012	91	64047	4.247 ug/l		97
75) 2-Chlorotoluene	13.100	91	38851	4.188 ug/l		97
76) 1,3,5-Trimethylbenzene	13.153	105	42622	4.143 ug/l		99
77) t-1,4-Dichloro-2-butene	12.723	75	5106	3.485 ug/l		92
78) 4-Chlorotoluene	13.200	91	35970	3.810 ug/l		99
79) tert-butylbenzene	13.417	119	35406	4.085 ug/l		96
80) 1,2,4-Trimethylbenzene	13.459	105	42618	4.107 ug/l		98
81) sec-Butylbenzene	13.594	105	53746	4.253 ug/l		99
82) p-Isopropyltoluene	13.706	119	43232	4.132 ug/l		97
83) 1,3-Dichlorobenzene	13.712	146	25121	4.627 ug/l		95
84) 1,4-Dichlorobenzene	13.794	146	25650	4.693 ug/l		95
85) n-Butylbenzene	14.029	91	41201	4.055 ug/l		99
86) Hexachloroethane	14.311	117	9454	4.553 ug/l		98
87) 1,2-Dichlorobenzene	14.082	146	23694	4.602 ug/l		94
88) 1,2-Dibromo-3-Chloropr...	14.700	75	4041m	3.875 ug/l		
89) 1,2,4-Trichlorobenzene	15.811	180	13520	4.443 ug/l		93
90) Hexachlorobutadiene	15.470	225	4812	4.125 ug/l		90
91) Naphthalene	15.617	128	43072	3.756 ug/l	#	91
92) 1,2,3-Trichlorobenzene	15.811	180	13520	4.443 ug/l		93

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

ICAL Form

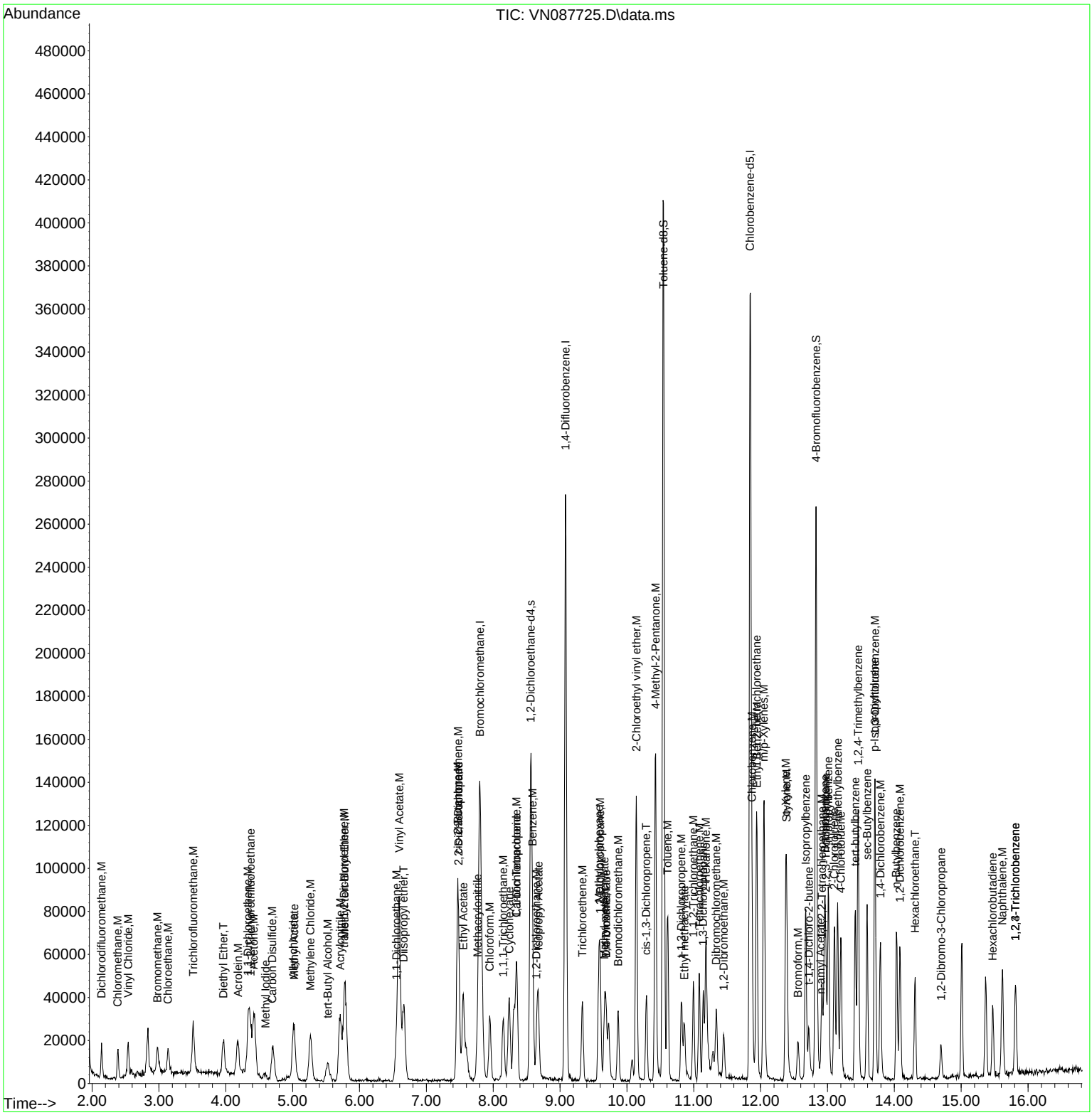
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087725.D
Acq On : 04 Sep 2025 16:23
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 05 02:55:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087726.D
Acq On : 04 Sep 2025 16:44
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 02:56:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	42809	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	211459	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	198266	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	107398	27.862	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 92.867%			
60) 4-Bromofluorobenzene	12.829	95	96997	28.768	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.900%			
63) Toluene-d8	10.547	98	279660	30.528	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	49949	18.465	ug/l	100
3) Chloromethane	2.383	50	51138	18.521	ug/l	100
4) Vinyl Chloride	2.542	62	57095	19.294	ug/l	100
5) Bromomethane	2.977	94	31609	19.377	ug/l	100
6) Chloroethane	3.142	64	38748	19.998	ug/l	100
7) Trichlorofluoromethane	3.512	101	82866	19.315	ug/l	100
8) Diethyl Ether	3.954	74	33334	18.728	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	45396	20.339	ug/l	100
10) 1,1-Dichloroethene	4.342	96	44944	19.539	ug/l	100
11) Methyl Iodide	4.583	142	26688	14.779	ug/l	100
12) Methyl Acetate	5.018	43	72499	17.391	ug/l	100
13) Acrolein	4.177	56	61563	94.456	ug/l	100
14) Acrylonitrile	5.718	53	149903m	83.131	ug/l	
15) Acetone	4.430	58	45452	88.853	ug/l	100
16) Carbon Disulfide	4.706	76	124233	17.652	ug/l	100
17) Allyl chloride	5.018	41	72506	15.970	ug/l	100
18) Methylene Chloride	5.265	84	50199	17.300	ug/l	100
19) trans-1,2-Dichloroethene	5.777	96	47153m	17.562	ug/l	
20) Diisopropyl ether	6.659	45	169008	16.339	ug/l	100
21) 1,1-Dichloroethane	6.553	63	93521	17.386	ug/l	100
22) cis-1,2-Dichloroethene	7.465	96	56746	17.275	ug/l	100
23) tert-Butyl Alcohol	5.530	59	54584	72.820	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	158036	15.680	ug/l	100
25) Chloroform	7.953	83	99433	17.558	ug/l	100
26) Cyclohexane	8.241	56	69837	16.417	ug/l #	100
29) 1,1-Dichloropropene	8.353	75	63171	18.638	ug/l	100
30) 2-Butanone	7.471	43	213338	86.904	ug/l	100
31) 2,2-Dichloropropane	7.471	77	69833	16.445	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	81988	18.860	ug/l	100
33) Carbon Tetrachloride	8.341	117	65653	18.352	ug/l	100
34) Benzene	8.588	78	203295	18.914	ug/l	100
35) Methacrylonitrile	7.765	41	48528	18.198	ug/l	100
36) 1,2-Dichloroethane	8.653	62	78112	18.230	ug/l	100
37) Trichloroethene	9.336	130	45484	19.215	ug/l	100
38) Methylcyclohexane	9.583	83	67168	17.371	ug/l	100
39) 1,2-Dichloropropane	9.600	63	52783	19.162	ug/l	100
40) Dibromomethane	9.688	93	38777	18.828	ug/l	100
41) Bromodichloromethane	9.871	83	80402	18.694	ug/l	100
42) Vinyl Acetate	6.589	43	706403	87.467	ug/l	100

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087726.D
Acq On : 04 Sep 2025 16:44
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 05 02:56:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	91142	18.839	ug/l	100
44) Isopropyl Acetate	8.677	43	140215	17.422	ug/l	100
45) 1,4-Dioxane	9.677	88	18742	363.739	ug/l	100
46) Methyl methacrylate	9.665	41	62431	16.572	ug/l	100
47) n-amyl Acetate	12.671	43	73018m	15.604	ug/l	
48) t-1,3-Dichloropropene	10.818	75	78438	17.108	ug/l	100
49) cis-1,3-Dichloropropene	10.288	75	79831	17.252	ug/l	100
50) 1,1,2-Trichloroethane	10.994	97	49901	19.075	ug/l	100
51) Ethyl methacrylate	10.853	69	72347	16.207	ug/l	100
52) 1,3-Dichloropropane	11.141	76	87839	18.729	ug/l	100
53) Dibromochloromethane	11.335	129	51982	17.456	ug/l	100
54) 1,2-Dibromoethane	11.447	107	51152	18.556	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	225137	93.348	ug/l	100
56) Bromoform	12.559	173	34081	17.274	ug/l	100
58) 4-Methyl-2-Pentanone	10.424	43	432636	88.189	ug/l	100
59) 2-Hexanone	11.177	43	276879	83.339	ug/l	100
61) Tetrachloroethene	11.082	164	36848	19.253	ug/l	100
62) Toluene	10.612	91	221067	18.530	ug/l	100
64) Chlorobenzene	11.871	112	132910	18.156	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.935	131	46772	18.150	ug/l	100
66) Ethyl Benzene	11.941	91	230526	17.532	ug/l	100
67) m/p-Xylenes	12.047	106	169788	35.082	ug/l	100
68) o-Xylene	12.377	106	84505	17.701	ug/l	100
69) Styrene	12.388	104	142280	17.520	ug/l	100
70) Isopropylbenzene	12.676	105	205573	17.117	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	79973	19.086	ug/l	100
72) 1,2,3-Trichloropropane	12.971	75	84570m	21.633	ug/l	
73) Bromobenzene	12.953	156	51969	18.305	ug/l	100
74) n-propylbenzene	13.012	91	266688	17.651	ug/l	100
75) 2-Chlorotoluene	13.106	91	164311	17.679	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	178698	17.339	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	24084	16.407	ug/l	100
78) 4-Chlorotoluene	13.200	91	166605	17.614	ug/l	100
79) tert-butylbenzene	13.418	119	149770	17.250	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	185683	17.861	ug/l	100
81) sec-Butylbenzene	13.594	105	221613	17.504	ug/l	100
82) p-Isopropyltoluene	13.706	119	179893	17.164	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	104338	19.181	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	102608	18.737	ug/l	100
85) n-Butylbenzene	14.035	91	169464	16.646	ug/l	100
86) Hexachloroethane	14.312	117	37845	18.193	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	96835	18.773	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.694	75	18320	17.534	ug/l	100
89) 1,2,4-Trichlorobenzene	15.812	180	52849	17.337	ug/l	100
90) Hexachlorobutadiene	15.470	225	19260	16.481	ug/l	100
91) Naphthalene	15.612	128	190673	16.595	ug/l	100
92) 1,2,3-Trichlorobenzene	15.812	180	52849	17.337	ug/l	100

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

ICAL Form

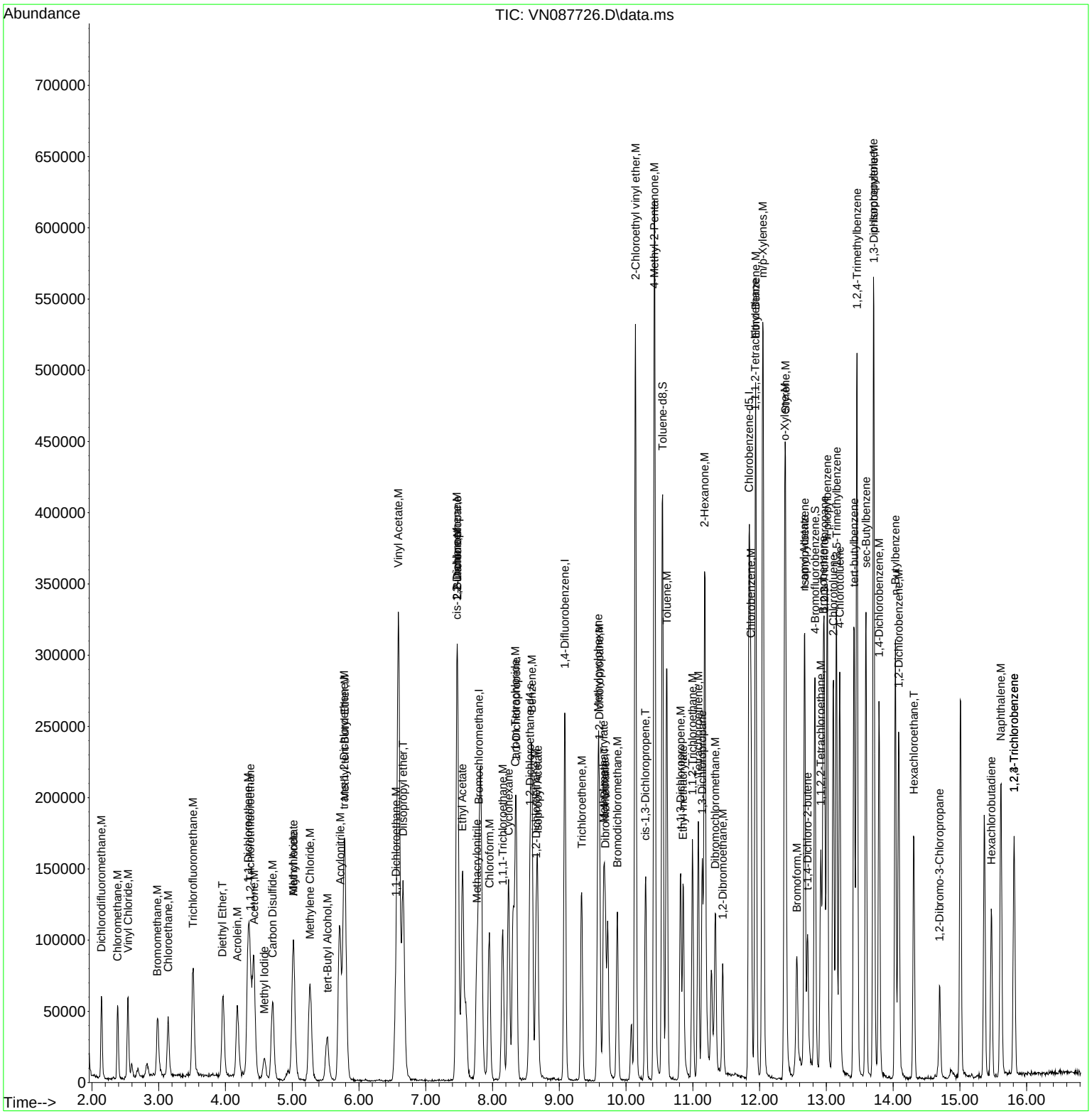
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087726.D
Acq On : 04 Sep 2025 16:44
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 05 02:56:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087727.D
Acq On : 04 Sep 2025 17:05
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 05 02:57:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.800	128	44084	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.082	114	235930	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.841	117	223338	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.565	65	114806	28.923	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 96.400%				
60) 4-Bromofluorobenzene	12.829	95	106071	27.928	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.100%				
63) Toluene-d8	10.547	98	310800	30.119	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.400%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.142	85	149532	53.681	ug/l		98
3) Chloromethane	2.383	50	148881	52.361	ug/l		98
4) Vinyl Chloride	2.536	62	175465	57.579	ug/l		94
5) Bromomethane	2.977	94	97326	57.939	ug/l		97
6) Chloroethane	3.142	64	115833	58.053	ug/l		88
7) Trichlorofluoromethane	3.512	101	253094	57.285	ug/l		93
8) Diethyl Ether	3.965	74	105850	57.749	ug/l		96
9) 1,1,2-Trichlorotrifluo...	4.365	101	139857	60.848	ug/l		78
10) 1,1-Dichloroethene	4.336	96	140735	59.413	ug/l		94
11) Methyl Iodide	4.577	142	99554	53.536	ug/l		91
12) Methyl Acetate	5.018	43	216966	50.540	ug/l		95
13) Acrolein	4.177	56	182140	271.375	ug/l	#	41
14) Acrylonitrile	5.706	53	460378	247.925	ug/l		97
15) Acetone	4.424	58	134357	255.056	ug/l		97
16) Carbon Disulfide	4.706	76	381348	52.616	ug/l	#	95
17) Allyl chloride	5.018	41	221421	47.360	ug/l		97
18) Methylene Chloride	5.265	84	157997	52.875	ug/l		88
19) trans-1,2-Dichloroethene	5.777	96	143067	51.744	ug/l		94
20) Diisopropyl ether	6.659	45	537577	50.467	ug/l		97
21) 1,1-Dichloroethane	6.559	63	286450	51.711	ug/l		94
22) cis-1,2-Dichloroethene	7.471	96	173910	51.413	ug/l		96
23) tert-Butyl Alcohol	5.530	59	160023	207.312	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	506717	48.821	ug/l		96
25) Chloroform	7.947	83	304392	52.195	ug/l		95
26) Cyclohexane	8.241	56	232867	53.159	ug/l	#	95
29) 1,1-Dichloropropene	8.353	75	199005	52.624	ug/l		100
30) 2-Butanone	7.471	43	666350	243.287	ug/l		97
31) 2,2-Dichloropropane	7.477	77	238304	50.297	ug/l		99
32) 1,1,1-Trichloroethane	8.153	97	249576	51.457	ug/l		98
33) Carbon Tetrachloride	8.347	117	208479	52.233	ug/l		96
34) Benzene	8.588	78	640994	53.450	ug/l		95
35) Methacrylonitrile	7.759	41	140382	47.182	ug/l		98
36) 1,2-Dichloroethane	8.653	62	239430	50.083	ug/l		98
37) Trichloroethene	9.335	130	142957	54.130	ug/l		97
38) Methylcyclohexane	9.582	83	220447	51.099	ug/l		98
39) 1,2-Dichloropropane	9.600	63	159981	52.056	ug/l		99
40) Dibromomethane	9.688	93	120754	52.549	ug/l		99
41) Bromodichloromethane	9.871	83	242124	50.456	ug/l		97
42) Vinyl Acetate	6.589	43	2296328	254.840	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087727.D
Acq On : 04 Sep 2025 17:05
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 05 02:57:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	276887	51.296	ug/l	98
44) Isopropyl Acetate	8.677	43	438553	48.838	ug/l	99
45) 1,4-Dioxane	9.677	88	53248	926.233	ug/l	95
46) Methyl methacrylate	9.659	41	202256	48.120	ug/l	98
47) n-amyl Acetate	12.500	43	299916m	57.443	ug/l	
48) t-1,3-Dichloropropene	10.818	75	256762	50.194	ug/l	96
49) cis-1,3-Dichloropropene	10.294	75	266622	51.643	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	156835	53.732	ug/l	98
51) Ethyl methacrylate	10.859	69	260502	52.305	ug/l	97
52) 1,3-Dichloropropane	11.141	76	273053	52.180	ug/l	100
53) Dibromochloromethane	11.341	129	178488	53.720	ug/l	94
54) 1,2-Dibromoethane	11.447	107	165403	53.777	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	667057	247.892	ug/l	99
56) Bromoform	12.559	173	113619	51.614	ug/l	100
58) 4-Methyl-2-Pentanone	10.424	43	1366907	247.352	ug/l	100
59) 2-Hexanone	11.176	43	945587	252.664	ug/l	98
61) Tetrachloroethene	11.082	164	110439	51.225	ug/l	98
62) Toluene	10.606	91	695370	51.744	ug/l	99
64) Chlorobenzene	11.871	112	419478	50.870	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.941	131	148563	51.179	ug/l	97
66) Ethyl Benzene	11.941	91	760061	51.315	ug/l	95
67) m/p-Xylenes	12.047	106	578021	106.025	ug/l	94
68) o-Xylene	12.376	106	272027	50.584	ug/l	94
69) Styrene	12.388	104	488107	53.357	ug/l	100
70) Isopropylbenzene	12.670	105	705735	52.168	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	247798	52.498	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	227694m	51.707	ug/l	
73) Bromobenzene	12.959	156	164633	51.479	ug/l	97
74) n-propylbenzene	13.012	91	894796	52.574	ug/l	100
75) 2-Chlorotoluene	13.100	91	542010	51.771	ug/l	98
76) 1,3,5-Trimethylbenzene	13.147	105	601688	51.829	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	83260	50.352	ug/l	85
78) 4-Chlorotoluene	13.200	91	555670	52.151	ug/l	97
79) tert-butylbenzene	13.417	119	505286	51.663	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	624111	53.295	ug/l	99
81) sec-Butylbenzene	13.594	105	739231	51.833	ug/l	98
82) p-Isopropyltoluene	13.706	119	616043	52.179	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	330543	53.944	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	332962	53.977	ug/l	99
85) n-Butylbenzene	14.035	91	598838	52.220	ug/l	99
86) Hexachloroethane	14.312	117	122090	52.103	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	312431	53.771	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	54360	46.188	ug/l	93
89) 1,2,4-Trichlorobenzene	15.811	180	175450	51.096	ug/l	96
90) Hexachlorobutadiene	15.470	225	57621	43.773	ug/l	92
91) Naphthalene	15.611	128	656553	50.727	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	175450	51.096	ug/l	96

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

ICAL Form

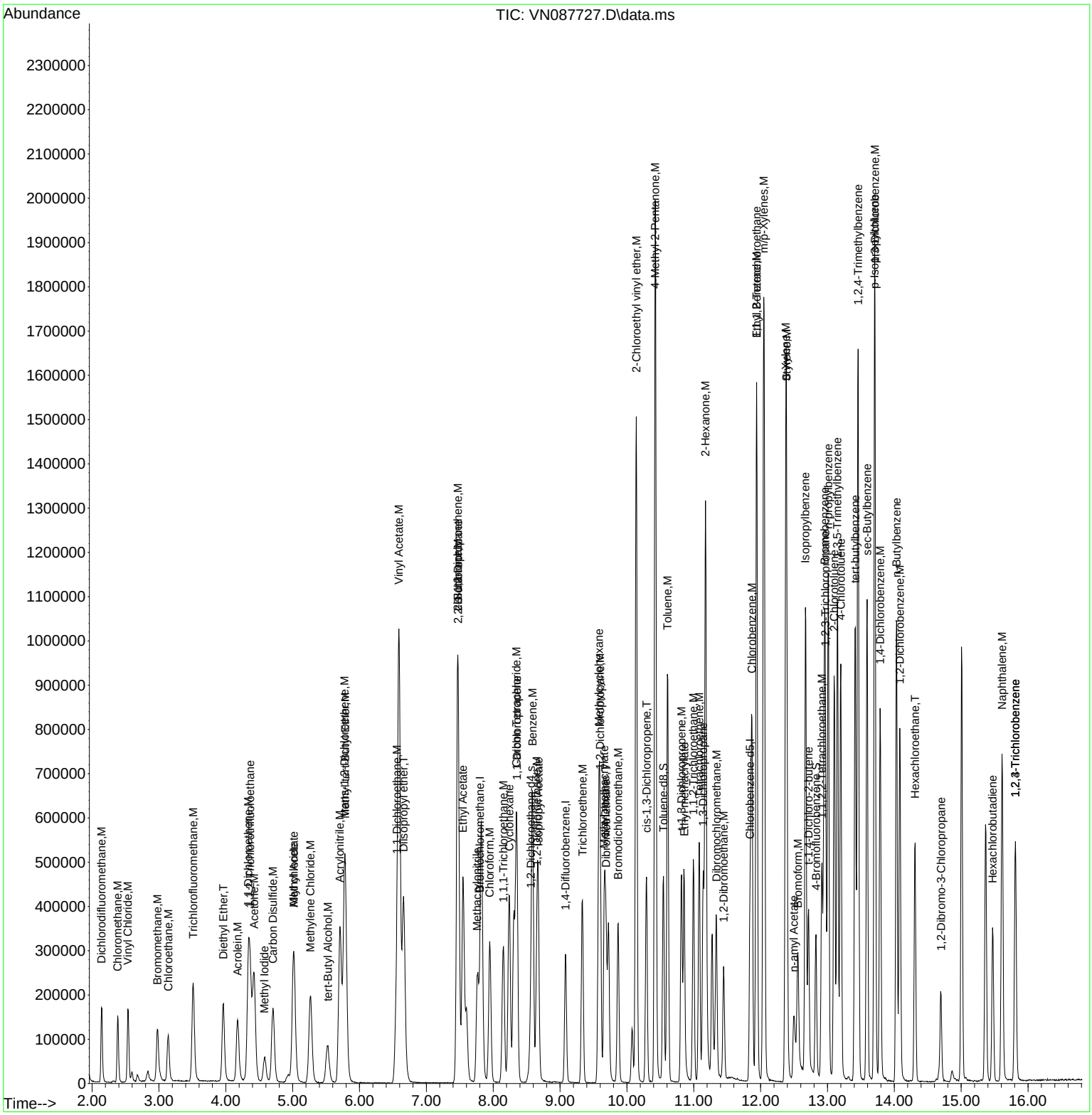
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087727.D
Acq On : 04 Sep 2025 17:05
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 05 02:57:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087728.D
Acq On : 04 Sep 2025 17:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 05 02:58:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.800	128	46852	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.082	114	242946	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.847	117	230623	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.559	65	117102	27.758	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 92.533%				
60) 4-Bromofluorobenzene	12.823	95	115538	29.459	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.200%				
63) Toluene-d8	10.547	98	323414	30.351	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.167%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.142	85	313567	105.918	ug/l		98
3) Chloromethane	2.383	50	318166	105.287	ug/l		96
4) Vinyl Chloride	2.536	62	361611	111.652	ug/l		98
5) Bromomethane	2.965	94	215103	120.487	ug/l		94
6) Chloroethane	3.130	64	237607	112.048	ug/l		88
7) Trichlorofluoromethane	3.512	101	524031	111.602	ug/l		87
8) Diethyl Ether	3.959	74	215410	110.579	ug/l		98
9) 1,1,2-Trichlorotrifluo...	4.365	101	277895	113.762	ug/l		42
10) 1,1-Dichloroethene	4.336	96	294057	116.806	ug/l		92
11) Methyl Iodide	4.583	142	246645	124.799	ug/l		90
12) Methyl Acetate	5.018	43	465095	101.938	ug/l		99
13) Acrolein	4.177	56	404438m	566.983	ug/l		
14) Acrylonitrile	5.712	53	995146	504.249	ug/l		99
15) Acetone	4.424	58	276885	494.569	ug/l		84
16) Carbon Disulfide	4.706	76	801928	104.109	ug/l	#	91
17) Allyl chloride	5.012	41	481807	96.965	ug/l		92
18) Methylene Chloride	5.265	84	326426	102.788	ug/l		94
19) trans-1,2-Dichloroethene	5.777	96	306937	104.453	ug/l		94
20) Diisopropyl ether	6.659	45	1145464	101.181	ug/l		95
21) 1,1-Dichloroethane	6.553	63	605635	102.873	ug/l		97
22) cis-1,2-Dichloroethene	7.471	96	370129	102.956	ug/l		96
23) tert-Butyl Alcohol	5.530	59	340216	414.715	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	1088266	98.657	ug/l		97
25) Chloroform	7.947	83	632337	102.023	ug/l		95
26) Cyclohexane	8.235	56	470916	101.149	ug/l	#	99
29) 1,1-Dichloropropene	8.353	75	418041	107.353	ug/l		99
30) 2-Butanone	7.471	43	1409990	499.926	ug/l		98
31) 2,2-Dichloropropane	7.477	77	498763	102.230	ug/l		99
32) 1,1,1-Trichloroethane	8.153	97	524015	104.920	ug/l		99
33) Carbon Tetrachloride	8.341	117	431973	105.102	ug/l		98
34) Benzene	8.588	78	1341472	108.630	ug/l		96
35) Methacrylonitrile	7.765	41	305644	99.759	ug/l		96
36) 1,2-Dichloroethane	8.653	62	500793	101.728	ug/l		99
37) Trichloroethene	9.335	130	296546	109.044	ug/l		97
38) Methylcyclohexane	9.582	83	466295	104.964	ug/l		97
39) 1,2-Dichloropropane	9.600	63	346311	109.431	ug/l		98
40) Dibromomethane	9.688	93	255456	107.958	ug/l		98
41) Bromodichloromethane	9.871	83	524173	106.078	ug/l		96
42) Vinyl Acetate	6.588	43	4938740	532.259	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087728.D
Acq On : 04 Sep 2025 17:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 05 02:58:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	7.547	43	570267	102.596 ug/l	99
44) Isopropyl Acetate	8.671	43	951384	102.889 ug/l	99
45) 1,4-Dioxane	9.682	88	116145	1961.964 ug/l #	81
46) Methyl methacrylate	9.665	41	440189	101.703 ug/l	97
47) n-amyl Acetate	12.488	43	640178m	119.074 ug/l	
48) t-1,3-Dichloropropene	10.818	75	563552	106.986 ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	576775	108.492 ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	324897	108.095 ug/l	97
51) Ethyl methacrylate	10.853	69	569562	111.057 ug/l	96
52) 1,3-Dichloropropane	11.141	76	582005	108.009 ug/l	100
53) Dibromochloromethane	11.341	129	378765	110.707 ug/l	93
54) 1,2-Dibromoethane	11.447	107	342831	108.245 ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	1528234	551.521 ug/l	99
56) Bromoform	12.559	173	252313	111.308 ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	2897553	507.772 ug/l	99
59) 2-Hexanone	11.176	43	2049165	530.247 ug/l	97
61) Tetrachloroethene	11.082	164	234889	105.508 ug/l	94
62) Toluene	10.612	91	1487570	107.196 ug/l	99
64) Chlorobenzene	11.870	112	915703	107.540 ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.941	131	316148	105.470 ug/l	97
66) Ethyl Benzene	11.941	91	1649107	107.822 ug/l	94
67) m/p-Xylenes	12.047	106	1230087	218.504 ug/l	96
68) o-Xylene	12.376	106	594671	107.086 ug/l	95
69) Styrene	12.388	104	1056802	111.873 ug/l	99
70) Isopropylbenzene	12.670	105	1525065	109.171 ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	514778	105.616 ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	480400m	105.647 ug/l	
73) Bromobenzene	12.959	156	356832	108.052 ug/l	98
74) n-propylbenzene	13.012	91	1910176	108.687 ug/l	100
75) 2-Chlorotoluene	13.100	91	1125992	104.153 ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	1280589	106.824 ug/l	98
77) t-1,4-Dichloro-2-butene	12.717	75	189778	111.145 ug/l	85
78) 4-Chlorotoluene	13.200	91	1157012	105.159 ug/l	98
79) tert-butylbenzene	13.417	119	1071115	106.056 ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	1304823	107.903 ug/l	98
81) sec-Butylbenzene	13.594	105	1563520	106.168 ug/l	98
82) p-Isopropyltoluene	13.706	119	1301395	106.747 ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	691902	109.350 ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	697980	109.576 ug/l	100
85) n-Butylbenzene	14.035	91	1257557	106.198 ug/l	99
86) Hexachloroethane	14.311	117	253844	104.907 ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	657359	109.561 ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.694	75	118055	97.139 ug/l	93
89) 1,2,4-Trichlorobenzene	15.811	180	377288	106.405 ug/l	99
90) Hexachlorobutadiene	15.476	225	122782	90.327 ug/l	94
91) Naphthalene	15.611	128	1453918	108.784 ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	377288	106.405 ug/l	99

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

ICAL Form

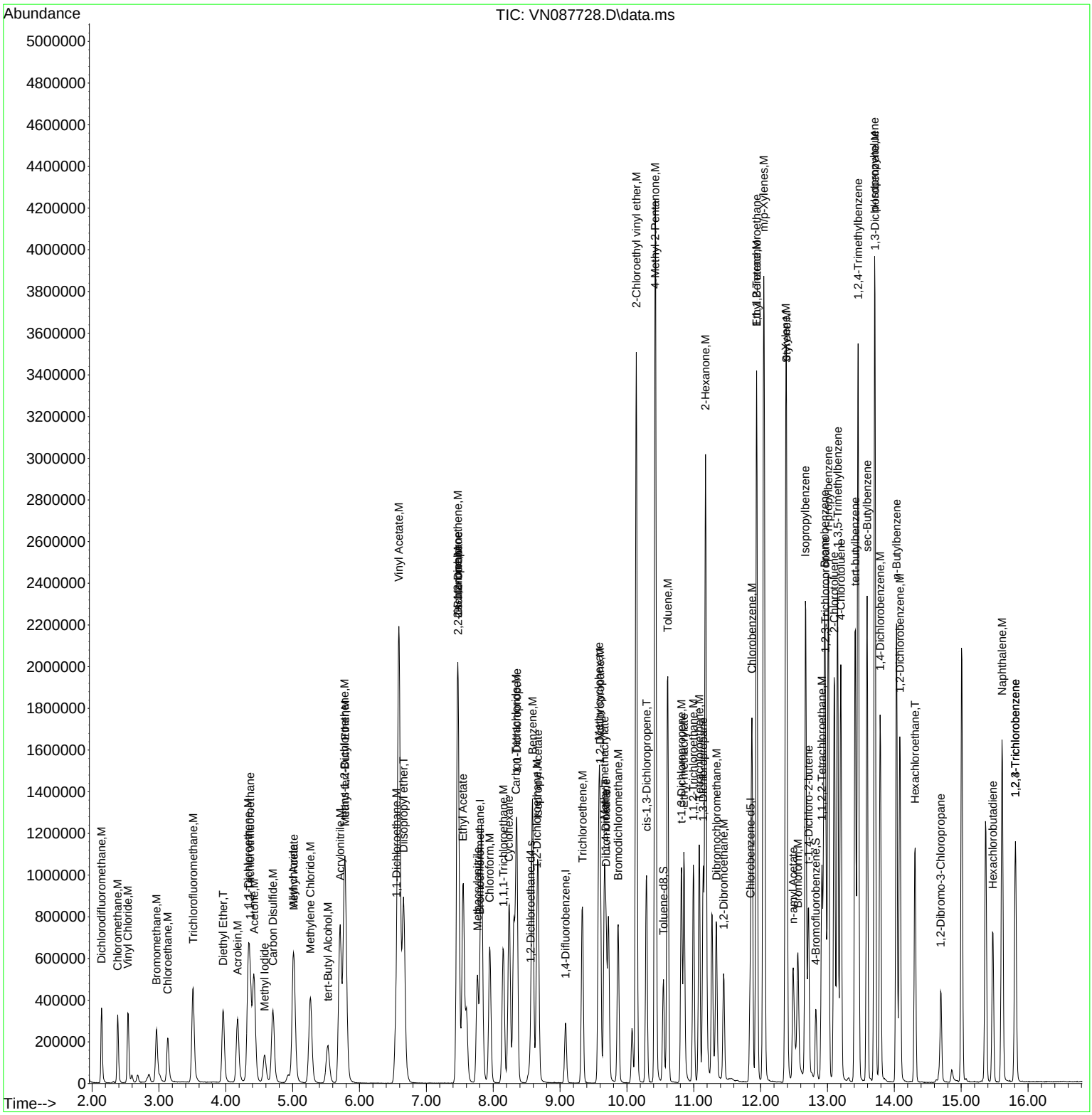
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087728.D
Acq On : 04 Sep 2025 17:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 05 02:58:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087729.D
Acq On : 04 Sep 2025 17:46
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 03:00:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.800	128	48732	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.082	114	256987	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.841	117	242434	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.559	65	125853	28.682	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 95.600%				
60) 4-Bromofluorobenzene	12.829	95	119357	28.950	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.500%				
63) Toluene-d8	10.547	98	331838	29.625	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.733%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.142	85	460014	149.391	ug/l		99
3) Chloromethane	2.383	50	485468	154.452	ug/l		99
4) Vinyl Chloride	2.536	62	548014	162.679	ug/l		97
5) Bromomethane	2.953	94	338024	182.035	ug/l		96
6) Chloroethane	3.124	64	366963	166.372	ug/l	#	85
7) Trichlorofluoromethane	3.506	101	797041	163.196	ug/l		91
8) Diethyl Ether	3.959	74	341803	168.693	ug/l		96
9) 1,1,2-Trichlorotrifluo...	4.359	101	422322	166.217	ug/l		78
10) 1,1-Dichloroethene	4.336	96	449863	171.802	ug/l		95
11) Methyl Iodide	4.577	142	421989	205.284	ug/l		90
12) Methyl Acetate	5.012	43	724097	152.583	ug/l		100
13) Acrolein	4.177	56	630478m	849.771	ug/l		
14) Acrylonitrile	5.706	53	1538968	749.724	ug/l		98
15) Acetone	4.424	58	425162	730.123	ug/l		90
16) Carbon Disulfide	4.700	76	1271777m	158.737	ug/l		
17) Allyl chloride	5.012	41	766742	148.357	ug/l		92
18) Methylene Chloride	5.259	84	507725	153.709	ug/l		91
19) trans-1,2-Dichloroethene	5.771	96	477957	156.377	ug/l		96
20) Diisopropyl ether	6.659	45	1793426	152.305	ug/l		94
21) 1,1-Dichloroethane	6.553	63	931404	152.104	ug/l		97
22) cis-1,2-Dichloroethene	7.471	96	586326	156.802	ug/l		99
23) tert-Butyl Alcohol	5.530	59	545385	639.163	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	1739496	151.610	ug/l		98
25) Chloroform	7.947	83	983285	152.526	ug/l		95
26) Cyclohexane	8.241	56	727166	150.164	ug/l	#	99
29) 1,1-Dichloropropene	8.353	75	648804	157.510	ug/l		99
30) 2-Butanone	7.471	43	2196856	736.360	ug/l		98
31) 2,2-Dichloropropane	7.477	77	781979	151.522	ug/l		100
32) 1,1,1-Trichloroethane	8.153	97	806677	152.690	ug/l		99
33) Carbon Tetrachloride	8.341	117	670757	154.283	ug/l		97
34) Benzene	8.588	78	2101924	160.910	ug/l		95
35) Methacrylonitrile	7.759	41	468477	144.552	ug/l		97
36) 1,2-Dichloroethane	8.653	62	770632	147.988	ug/l		100
37) Trichloroethene	9.335	130	458415	159.355	ug/l		94
38) Methylcyclohexane	9.582	83	704436	149.907	ug/l		98
39) 1,2-Dichloropropane	9.600	63	532904	159.192	ug/l		100
40) Dibromomethane	9.688	93	390063	155.837	ug/l		99
41) Bromodichloromethane	9.871	83	801266	153.294	ug/l	#	94
42) Vinyl Acetate	6.588	43	7618340	776.186	ug/l		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087729.D
Acq On : 04 Sep 2025 17:46
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 05 03:00:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Ethyl Acetate	7.547	43	903610	153.686	ug/l		98
44) Isopropyl Acetate	8.671	43	1460618	149.330	ug/l		100
45) 1,4-Dioxane	9.682	88	187970	3001.771	ug/l	#	91
46) Methyl methacrylate	9.665	41	670040	146.351	ug/l		100
47) n-amyl Acetate	12.482	43	1048336m	184.337	ug/l		
48) t-1,3-Dichloropropene	10.818	75	885111	158.851	ug/l		97
49) cis-1,3-Dichloropropene	10.294	75	901540	160.315	ug/l		94
50) 1,1,2-Trichloroethane	10.994	97	511317	160.824	ug/l		98
51) Ethyl methacrylate	10.853	69	906831	167.159	ug/l		94
52) 1,3-Dichloropropane	11.141	76	893642	156.782	ug/l		100
53) Dibromochloromethane	11.335	129	596338	164.776	ug/l		92
54) 1,2-Dibromoethane	11.447	107	546357	163.081	ug/l		100
55) 2-Chloroethyl vinyl ether	10.141	63	2464831	840.927	ug/l		98
56) Bromoform	12.559	173	402223	167.746	ug/l		97
58) 4-Methyl-2-Pentanone	10.424	43	4473520	745.754	ug/l		99
59) 2-Hexanone	11.176	43	3170935	780.545	ug/l		97
61) Tetrachloroethene	11.082	164	363806	155.454	ug/l		97
62) Toluene	10.612	91	2294262	157.273	ug/l		99
64) Chlorobenzene	11.870	112	1432339	160.019	ug/l		97
65) 1,1,1,2-Tetrachloroethane	11.941	131	486507	154.396	ug/l		98
66) Ethyl Benzene	11.941	91	2571632	159.947	ug/l		95
67) m/p-Xylenes	12.047	106	1904203	321.770	ug/l		95
68) o-Xylene	12.376	106	940685	161.143	ug/l		95
69) Styrene	12.388	104	1653060	166.468	ug/l		99
70) Isopropylbenzene	12.670	105	2375492	161.764	ug/l		99
71) 1,1,2,2-Tetrachloroethane	12.917	83	793928	154.952	ug/l		100
72) 1,2,3-Trichloropropane	12.970	75	732764m	153.295	ug/l		
73) Bromobenzene	12.959	156	553482	159.435	ug/l		98
74) n-propylbenzene	13.012	91	2937041	158.973	ug/l		99
75) 2-Chlorotoluene	13.106	91	1747793	153.793	ug/l		97
76) 1,3,5-Trimethylbenzene	13.153	105	1960149	155.546	ug/l		99
77) t-1,4-Dichloro-2-butene	12.717	75	311177	173.364	ug/l		89
78) 4-Chlorotoluene	13.200	91	1806216	156.166	ug/l		97
79) tert-butylbenzene	13.417	119	1648726	155.295	ug/l		97
80) 1,2,4-Trimethylbenzene	13.459	105	2015689	158.567	ug/l		99
81) sec-Butylbenzene	13.594	105	2383484	153.961	ug/l		99
82) p-Isopropyltoluene	13.706	119	1983862	154.798	ug/l		98
83) 1,3-Dichlorobenzene	13.712	146	1059997	159.363	ug/l		99
84) 1,4-Dichlorobenzene	13.788	146	1050951	156.951	ug/l		98
85) n-Butylbenzene	14.035	91	1919423	154.195	ug/l		100
86) Hexachloroethane	14.311	117	392690	154.382	ug/l		99
87) 1,2-Dichlorobenzene	14.082	146	1004257	159.224	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	14.694	75	184176	144.163	ug/l		93
89) 1,2,4-Trichlorobenzene	15.811	180	591983	158.821	ug/l		97
90) Hexachlorobutadiene	15.470	225	183756	128.598	ug/l		95
91) Naphthalene	15.611	128	2324387	165.441	ug/l		99
92) 1,2,3-Trichlorobenzene	15.811	180	591983	158.821	ug/l		97

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

ICAL Form

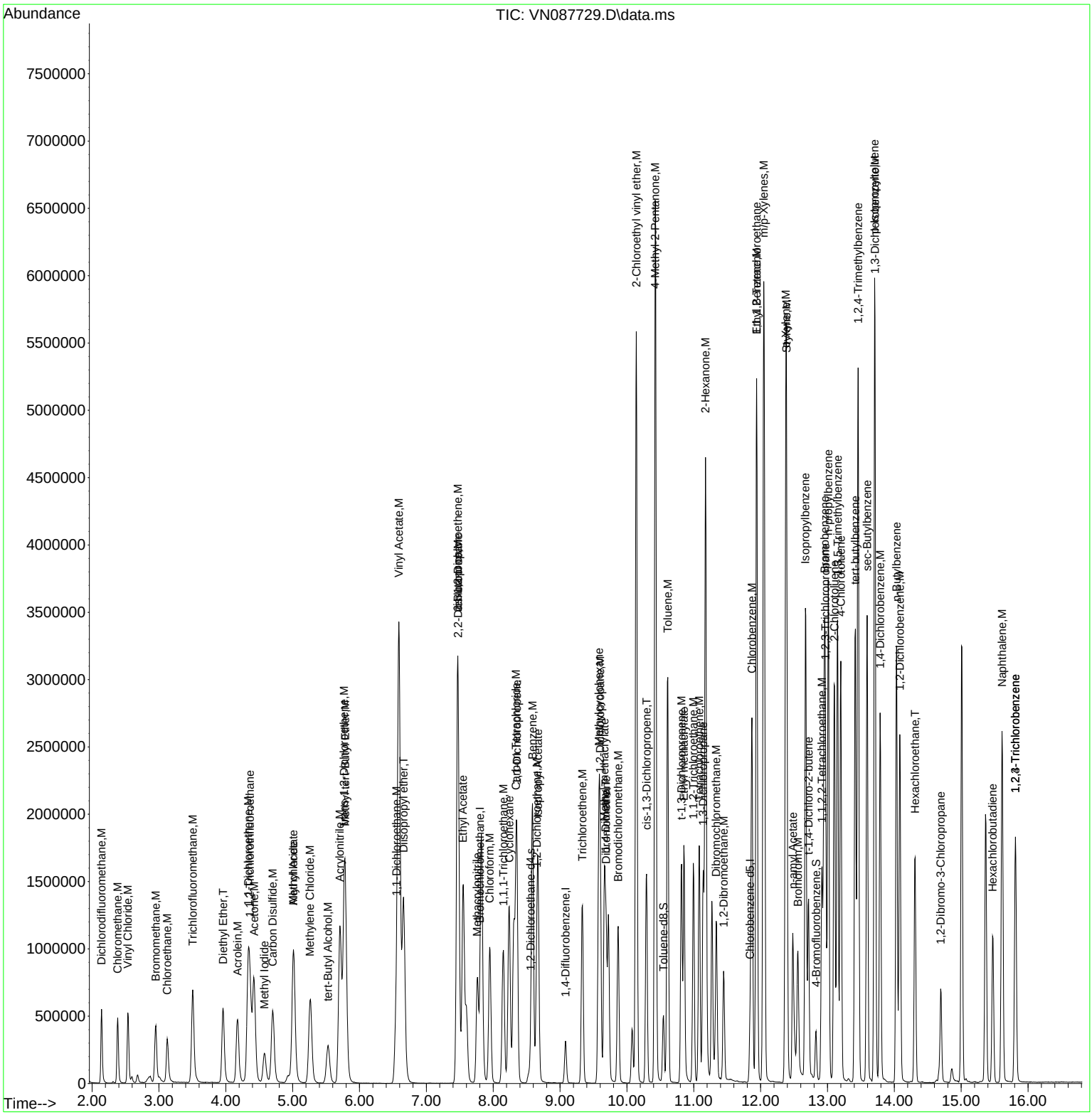
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087729.D
Acq On : 04 Sep 2025 17:46
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 05 03:00:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 02:54:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087731.D
Acq On : 04 Sep 2025 18:28
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN090425

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 03:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.800	128	45925	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.082	114	235644	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.841	117	221185	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.565	65	118609	30.234	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.767%				
60) 4-Bromofluorobenzene	12.829	95	103848	29.200	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.333%				
63) Toluene-d8	10.547	98	305314	29.682	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.933%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.148	85	52434	18.370	ug/l		100
3) Chloromethane	2.383	50	54083	18.050	ug/l		91
4) Vinyl Chloride	2.536	62	59288	17.504	ug/l		99
5) Bromomethane	2.989	94	35460	17.846	ug/l		95
6) Chloroethane	3.136	64	39572	17.094	ug/l	#	77
7) Trichlorofluoromethane	3.512	101	85267	17.175	ug/l		86
8) Diethyl Ether	3.959	74	36966	17.632	ug/l		99
9) 1,1,2-Trichlorotrifluo...	4.371	101	46222	17.189	ug/l		97
10) 1,1-Dichloroethene	4.342	96	48502	17.494	ug/l	#	89
11) Methyl Iodide	4.594	142	29628m	15.097	ug/l		
12) Methyl Acetate	5.012	43	78049	18.262	ug/l		98
13) Acrolein	4.177	56	69346m	91.132	ug/l		
14) Acrylonitrile	5.712	53	162624	88.404	ug/l		99
15) Acetone	4.424	58	48575	84.645	ug/l		81
16) Carbon Disulfide	4.712	76	136485	17.930	ug/l	#	94
17) Allyl chloride	5.012	41	77276	17.065	ug/l		94
18) Methylene Chloride	5.265	84	55915	17.804	ug/l		89
19) trans-1,2-Dichloroethene	5.777	96	49711	17.581	ug/l		93
20) Diisopropyl ether	6.653	45	173212	16.633	ug/l	#	99
21) 1,1-Dichloroethane	6.553	63	100521	17.627	ug/l		97
22) cis-1,2-Dichloroethene	7.471	96	59360	17.296	ug/l		95
23) tert-Butyl Alcohol	5.518	59	58538	90.020	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	171206	17.297	ug/l	#	83
25) Chloroform	7.947	83	103557	17.349	ug/l		94
26) Cyclohexane	8.235	56	75387	17.359	ug/l	#	100
29) 1,1-Dichloropropene	8.347	75	65482	17.099	ug/l		99
30) 2-Butanone	7.471	43	231480	87.744	ug/l		97
31) 2,2-Dichloropropane	7.477	77	78485	17.001	ug/l	#	78
32) 1,1,1-Trichloroethane	8.153	97	85693	17.650	ug/l		98
33) Carbon Tetrachloride	8.347	117	69645	17.204	ug/l	#	93
34) Benzene	8.588	78	218694	17.669	ug/l		93
35) Methacrylonitrile	7.765	41	51135	18.531	ug/l		93
36) 1,2-Dichloroethane	8.653	62	82106	17.562	ug/l		99
37) Trichloroethene	9.341	130	45924	16.598	ug/l		92
38) Methylcyclohexane	9.582	83	70612	16.745	ug/l		99
39) 1,2-Dichloropropane	9.600	63	54676	17.248	ug/l	#	83
40) Dibromomethane	9.682	93	42325	17.941	ug/l		97
41) Bromodichloromethane	9.871	83	83672	17.353	ug/l	#	85
42) Vinyl Acetate	6.594	43	777536	88.211	ug/l		100

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087731.D
Acq On : 04 Sep 2025 18:28
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 05 03:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN090425

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Ethyl Acetate	7.547	43	93344	17.318	ug/l		98
44) Isopropyl Acetate	8.671	43	147433	17.448	ug/l		98
45) 1,4-Dioxane	9.682	88	18809	352.976	ug/l	#	53
46) Methyl methacrylate	9.665	41	67807	17.410	ug/l		93
47) n-amyl Acetate	12.570	43	86602m	15.166	ug/l		
48) t-1,3-Dichloropropene	10.818	75	85569	17.087	ug/l		97
49) cis-1,3-Dichloropropene	10.294	75	88428	17.239	ug/l		98
50) 1,1,2-Trichloroethane	10.994	97	53774	17.648	ug/l		89
51) Ethyl methacrylate	10.853	69	82131	17.320	ug/l		94
52) 1,3-Dichloropropane	11.141	76	93581	17.687	ug/l		100
53) Dibromochloromethane	11.335	129	59265	17.347	ug/l		92
54) 1,2-Dibromoethane	11.447	107	54662	17.241	ug/l		99
55) 2-Chloroethyl vinyl ether	10.141	63	233941	86.104	ug/l		99
56) Bromoform	12.559	173	39062	17.508	ug/l		96
58) 4-Methyl-2-Pentanone	10.424	43	460953	88.138	ug/l		99
59) 2-Hexanone	11.182	43	291153	85.197	ug/l		98
61) Tetrachloroethene	11.082	164	38600	17.528	ug/l		95
62) Toluene	10.612	91	238533	17.829	ug/l		98
64) Chlorobenzene	11.870	112	142733	17.382	ug/l		99
65) 1,1,1,2-Tetrachloroethane	11.935	131	49466	17.110	ug/l		97
66) Ethyl Benzene	11.941	91	250582	17.361	ug/l		93
67) m/p-Xylenes	12.047	106	185180	34.562	ug/l		95
68) o-Xylene	12.376	106	90271	17.377	ug/l		98
69) Styrene	12.394	104	151670	16.798	ug/l		98
70) Isopropylbenzene	12.670	105	224221	17.022	ug/l		99
71) 1,1,2,2-Tetrachloroethane	12.912	83	83832	17.703	ug/l		98
72) 1,2,3-Trichloropropane	12.970	75	79021m	16.995	ug/l		
73) Bromobenzene	12.959	156	55283	17.154	ug/l		96
74) n-propylbenzene	13.012	91	284881	17.141	ug/l		99
75) 2-Chlorotoluene	13.106	91	171781	17.173	ug/l		96
76) 1,3,5-Trimethylbenzene	13.153	105	193466	17.393	ug/l		97
77) t-1,4-Dichloro-2-butene	12.717	75	23921	15.243	ug/l		75
78) 4-Chlorotoluene	13.200	91	184349	18.280	ug/l		96
79) tert-butylbenzene	13.412	119	162429	17.436	ug/l		96
80) 1,2,4-Trimethylbenzene	13.459	105	195624	17.154	ug/l		98
81) sec-Butylbenzene	13.594	105	238215	17.385	ug/l		98
82) p-Isopropyltoluene	13.706	119	195729	17.337	ug/l		99
83) 1,3-Dichlorobenzene	13.712	146	106089	17.075	ug/l		98
84) 1,4-Dichlorobenzene	13.788	146	107657	17.287	ug/l		98
85) n-Butylbenzene	14.035	91	188710	17.390	ug/l		98
86) Hexachloroethane	14.312	117	41219	17.975	ug/l		99
87) 1,2-Dichlorobenzene	14.082	146	105569	18.016	ug/l		96
88) 1,2-Dibromo-3-Chloropr...	14.694	75	19130	18.204	ug/l		96
89) 1,2,4-Trichlorobenzene	15.811	180	58341	17.505	ug/l		98
90) Hexachlorobutadiene	15.470	225	20419	18.275	ug/l		95
91) Naphthalene	15.617	128	208469	16.990	ug/l		99
92) 1,2,3-Trichlorobenzene	15.811	180	58341	17.505	ug/l		98

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

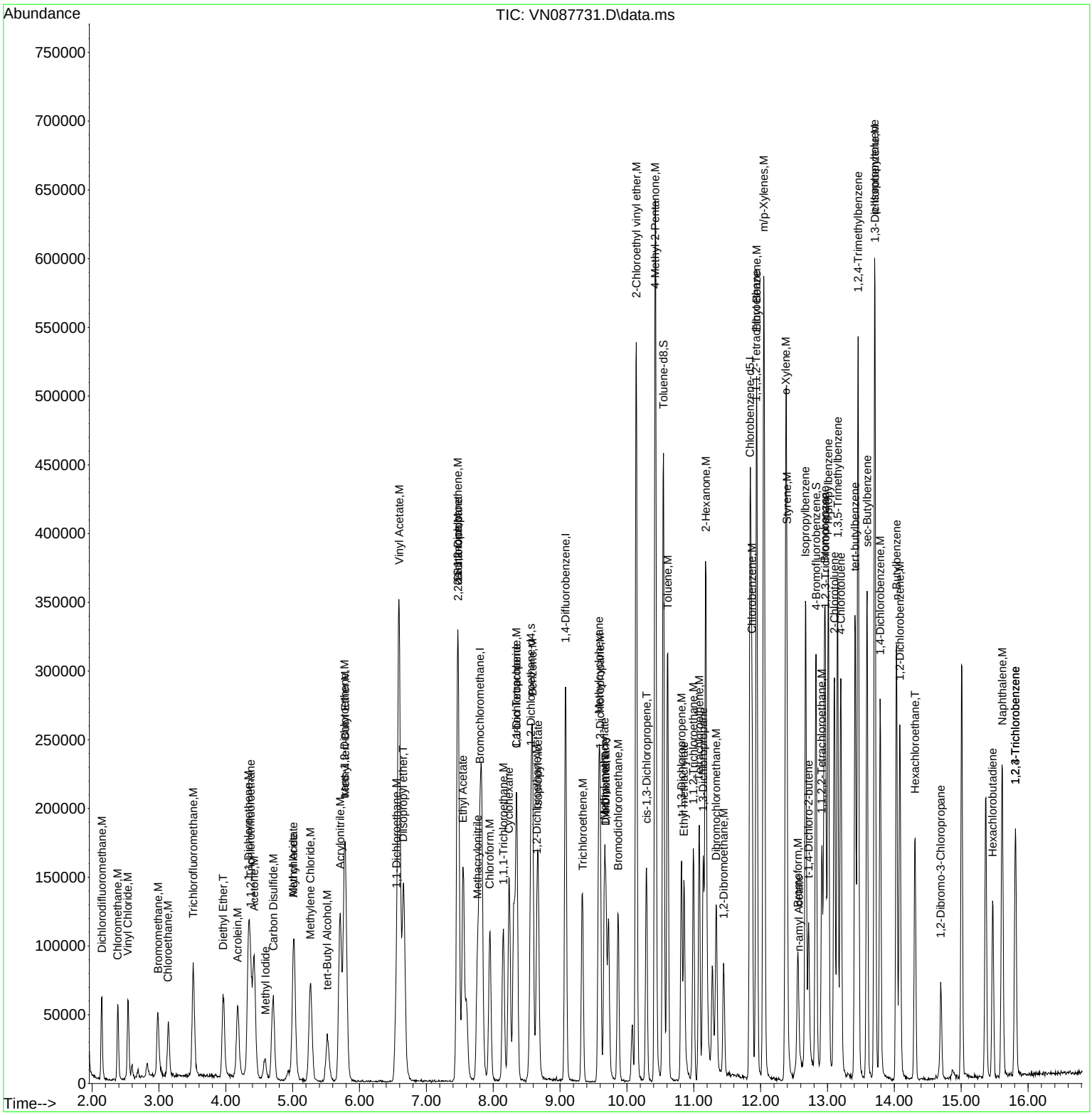
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087731.D
Acq On : 04 Sep 2025 18:28
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 05 03:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN090425

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087731.D
Acq On : 04 Sep 2025 18:28
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN090425

Quant Time: Sep 05 03:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	107	0.00
2	M	Dichlorodifluoromethane	1.865	1.713	8.2	105	0.00
3	M	Chloromethane	1.957	1.766	9.8	106	0.00
4	M	Vinyl Chloride	2.213	1.936	12.5	104	0.00
5	M	Bromomethane	1.298	1.158	10.8	112	0.01
6	M	Chloroethane	1.512	1.292	14.6	102	0.00
7	M	Trichlorofluoromethane	3.243	2.785	14.1	103	0.00
8	T	Diethyl Ether	1.370	1.207	11.9	111	0.00
9		1,1,2-Trichlorotrifluoroeth	1.757	1.510	14.1	102	0.00
10	M	1,1-Dichloroethene	1.811	1.584	12.5	108	0.00
11		Methyl Iodide	1.282	0.968	24.5	111	0.01
12		Methyl Acetate	2.792	2.549	8.7	108	0.00
13	M	Acrolein	0.497	0.453	8.9	113	0.00
14	M	Acrylonitrile	1.202	1.062	11.6	108	0.00
15	M	Acetone	0.375	0.317	15.5	107	0.00
16	M	Carbon Disulfide	4.972	4.458	10.3	110	0.00
17		Allyl chloride	2.958	2.524	14.7	107	0.00
18	M	Methylene Chloride	2.052	1.826	11.0	111	0.00
19	M	trans-1,2-Dichloroethene	1.847	1.624	12.1	105	0.00
20	T	Diisopropyl ether	6.802	5.657	16.8	102	0.00
21	M	1,1-Dichloroethane	3.725	3.283	11.9	107	0.00
22	M	cis-1,2-Dichloroethene	2.242	1.939	13.5	105	0.00
23	M	tert-Butyl Alcohol	0.425	0.382	10.1	107	-0.01
24	M	Methyl tert-Butyl Ether	6.466	5.592	13.5	108	0.00
25	M	Chloroform	3.899	3.382	13.3	104	0.00
26		Cyclohexane	2.837	2.462	13.2	108	0.00
27	s	1,2-Dichloroethane-d4	2.563	2.583	-0.8	110	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	111	0.00
29		1,1-Dichloropropene	0.488	0.417	14.5	104	0.00
30	M	2-Butanone	0.336	0.295	12.2	109	0.00
31		2,2-Dichloropropane	0.588	0.500	15.0	112	0.00
32	M	1,1,1-Trichloroethane	0.618	0.545	11.8	105	0.00
33	M	Carbon Tetrachloride	0.515	0.443	14.0	106	0.00
34	M	Benzene	1.576	1.392	11.7	108	0.00
35		Methacrylonitrile	0.351	0.326	7.1	105	0.00
36	M	1,2-Dichloroethane	0.595	0.523	12.1	105	0.00
37	M	Trichloroethene	0.352	0.292	17.0	101	0.00
38		Methylcyclohexane	0.537	0.449	16.4	105	0.00
39	M	1,2-Dichloropropane	0.404	0.348	13.9	104	0.00
40		Dibromomethane	0.300	0.269	10.3	109	0.00
41	M	Bromodichloromethane	0.614	0.533	13.2	104	0.00
42	M	Vinyl Acetate	1.122	0.990	11.8	110	0.00
43		Ethyl Acetate	0.686	0.594	13.4	102	0.00
44		Isopropyl Acetate	1.076	0.938	12.8	105	0.00
45	T	1,4-Dioxane	0.007	0.006	14.3	100	0.00
46		Methyl methacrylate	0.496	0.432	12.9	109	0.00
47		n-amyl Acetate	0.727	0.551	24.2	119	-0.10
48	M	t-1,3-Dichloropropene	0.638	0.545	14.6	109	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087731.D
Acq On : 04 Sep 2025 18:28
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN090425

Quant Time: Sep 05 03:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	cis-1,3-Dichloropropene	0.653	0.563	13.8	111	0.00
50	M	1,1,2-Trichloroethane	0.388	0.342	11.9	108	0.00
51		Ethyl methacrylate	0.604	0.523	13.4	114	0.00
52		1,3-Dichloropropane	0.674	0.596	11.6	107	0.00
53	M	Dibromochloromethane	0.435	0.377	13.3	114	0.00
54	M	1,2-Dibromoethane	0.404	0.348	13.9	107	0.00
55	M	2-Chloroethyl vinyl ether	0.346	0.298	13.9	104	0.00
56	M	Bromoform	0.284	0.249	12.3	115	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
58	M	4-Methyl-2-Pentanone	0.709	0.625	11.8	107	0.00
59	M	2-Hexanone	0.464	0.395	14.9	105	0.00
60	S	4-Bromofluorobenzene	0.482	0.470	2.5	107	0.00
61	M	Tetrachloroethene	0.299	0.262	12.4	105	0.00
62	M	Toluene	1.815	1.618	10.9	108	0.00
63	S	Toluene-d8	1.395	1.380	1.1	109	0.00
64	M	Chlorobenzene	1.114	0.968	13.1	107	0.00
65		1,1,1,2-Tetrachloroethane	0.392	0.335	14.5	106	0.00
66	M	Ethyl Benzene	1.958	1.699	13.2	109	0.00
67	M	m/p-Xylenes	0.727	0.628	13.6	109	0.00
68	M	o-Xylene	0.705	0.612	13.2	107	0.00
69	M	Styrene	1.225	1.029	16.0	107	0.00
70		Isopropylbenzene	1.787	1.521	14.9	109	0.00
71	M	1,1,2,2-Tetrachloroethane	0.642	0.569	11.4	105	0.00
72		1,2,3-Trichloropropane	0.631	0.536	15.1	93	0.00
73		Bromobenzene	0.437	0.375	14.2	106	0.00
74		n-propylbenzene	2.254	1.932	14.3	107	0.00
75		2-Chlorotoluene	1.357	1.165	14.1	105	0.00
76		1,3,5-Trimethylbenzene	1.509	1.312	13.1	108	0.00
77		t-1,4-Dichloro-2-butene	0.213	0.162	23.9	99	0.00
78		4-Chlorotoluene	1.368	1.250	8.6	111	0.00
79		tert-butylbenzene	1.263	1.102	12.7	108	0.00
80		1,2,4-Trimethylbenzene	1.547	1.327	14.2	105	0.00
81		sec-Butylbenzene	1.858	1.615	13.1	107	0.00
82		p-Isopropyltoluene	1.531	1.327	13.3	109	0.00
83	M	1,3-Dichlorobenzene	0.843	0.719	14.7	102	0.00
84	M	1,4-Dichlorobenzene	0.845	0.730	13.6	105	0.00
85		n-Butylbenzene	1.472	1.280	13.0	111	0.00
86	T	Hexachloroethane	0.311	0.280	10.0	109	0.00
87	M	1,2-Dichlorobenzene	0.795	0.716	9.9	109	0.00
88		1,2-Dibromo-3-Chloropropane	0.143	0.130	9.1	104	0.00
89		1,2,4-Trichlorobenzene	0.452	0.396	12.4	110	0.00
90		Hexachlorobutadiene	0.152	0.138	9.2	106	0.00
91	M	Naphthalene	1.664	1.414	15.0	109	0.00
92		1,2,3-Trichlorobenzene	0.452	0.396	12.4	110	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087731.D
Acq On : 04 Sep 2025 18:28
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN090425

Quant Time: Sep 05 03:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	30.000	30.000	0.0	107	0.00
2	M	Dichlorodifluoromethane	20.000	18.370	8.1	105	0.00
3	M	Chloromethane	20.000	18.050	9.7	106	0.00
4	M	Vinyl Chloride	20.000	17.504	12.5	104	0.00
5	M	Bromomethane	20.000	17.846	10.8	112	0.01
6	M	Chloroethane	20.000	17.094	14.5	102	0.00
7	M	Trichlorofluoromethane	20.000	17.175	14.1	103	0.00
8	T	Diethyl Ether	20.000	17.632	11.8	111	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	17.189	14.1	102	0.00
10	M	1,1-Dichloroethene	20.000	17.494	12.5	108	0.00
11		Methyl Iodide	20.000	15.097	24.5	111	0.01
12		Methyl Acetate	20.000	18.262	8.7	108	0.00
13	M	Acrolein	100.000	91.132	8.9	113	0.00
14	M	Acrylonitrile	100.000	88.404	11.6	108	0.00
15	M	Acetone	100.000	84.645	15.4	107	0.00
16	M	Carbon Disulfide	20.000	17.930	10.4	110	0.00
17		Allyl chloride	20.000	17.065	14.7	107	0.00
18	M	Methylene Chloride	20.000	17.804	11.0	111	0.00
19	M	trans-1,2-Dichloroethene	20.000	17.581	12.1	105	0.00
20	T	Diisopropyl ether	20.000	16.633	16.8	102	0.00
21	M	1,1-Dichloroethane	20.000	17.627	11.9	107	0.00
22	M	cis-1,2-Dichloroethene	20.000	17.296	13.5	105	0.00
23	M	tert-Butyl Alcohol	100.000	90.020	10.0	107	-0.01
24	M	Methyl tert-Butyl Ether	20.000	17.297	13.5	108	0.00
25	M	Chloroform	20.000	17.349	13.3	104	0.00
26		Cyclohexane	20.000	17.359	13.2	108	0.00
27	s	1,2-Dichloroethane-d4	30.000	30.234	-0.8	110	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	111	0.00
29		1,1-Dichloropropene	20.000	17.099	14.5	104	0.00
30	M	2-Butanone	100.000	87.744	12.3	109	0.00
31		2,2-Dichloropropane	20.000	17.001	15.0	112	0.00
32	M	1,1,1-Trichloroethane	20.000	17.650	11.8	105	0.00
33	M	Carbon Tetrachloride	20.000	17.204	14.0	106	0.00
34	M	Benzene	20.000	17.669	11.7	108	0.00
35		Methacrylonitrile	20.000	18.531	7.3	105	0.00
36	M	1,2-Dichloroethane	20.000	17.562	12.2	105	0.00
37	M	Trichloroethene	20.000	16.598	17.0	101	0.00
38		Methylcyclohexane	20.000	16.745	16.3	105	0.00
39	M	1,2-Dichloropropane	20.000	17.248	13.8	104	0.00
40		Dibromomethane	20.000	17.941	10.3	109	0.00
41	M	Bromodichloromethane	20.000	17.353	13.2	104	0.00
42	M	Vinyl Acetate	100.000	88.211	11.8	110	0.00
43		Ethyl Acetate	20.000	17.318	13.4	102	0.00
44		Isopropyl Acetate	20.000	17.448	12.8	105	0.00
45	T	1,4-Dioxane	400.000	352.976	11.8	100	0.00
46		Methyl methacrylate	20.000	17.410	13.0	109	0.00
47		n-amyl Acetate	20.000	15.166	24.2	119	-0.10
48	M	t-1,3-Dichloropropene	20.000	17.087	14.6	109	0.00

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087731.D
Acq On : 04 Sep 2025 18:28
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN090425

Quant Time: Sep 05 03:32:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	cis-1,3-Dichloropropene	20.000	17.239	13.8	111	0.00
50	M	1,1,2-Trichloroethane	20.000	17.648	11.8	108	0.00
51		Ethyl methacrylate	20.000	17.320	13.4	114	0.00
52		1,3-Dichloropropane	20.000	17.687	11.6	107	0.00
53	M	Dibromochloromethane	20.000	17.347	13.3	114	0.00
54	M	1,2-Dibromoethane	20.000	17.241	13.8	107	0.00
55	M	2-Chloroethyl vinyl ether	100.000	86.104	13.9	104	0.00
56	M	Bromoform	20.000	17.508	12.5	115	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	112	0.00
58	M	4-Methyl-2-Pentanone	100.000	88.138	11.9	107	0.00
59	M	2-Hexanone	100.000	85.197	14.8	105	0.00
60	S	4-Bromofluorobenzene	30.000	29.200	2.7	107	0.00
61	M	Tetrachloroethene	20.000	17.528	12.4	105	0.00
62	M	Toluene	20.000	17.829	10.9	108	0.00
63	S	Toluene-d8	30.000	29.682	1.1	109	0.00
64	M	Chlorobenzene	20.000	17.382	13.1	107	0.00
65		1,1,1,2-Tetrachloroethane	20.000	17.110	14.5	106	0.00
66	M	Ethyl Benzene	20.000	17.361	13.2	109	0.00
67	M	m/p-Xylenes	40.000	34.562	13.6	109	0.00
68	M	o-Xylene	20.000	17.377	13.1	107	0.00
69	M	Styrene	20.000	16.798	16.0	107	0.00
70		Isopropylbenzene	20.000	17.022	14.9	109	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	17.703	11.5	105	0.00
72		1,2,3-Trichloropropane	20.000	16.995	15.0	93	0.00
73		Bromobenzene	20.000	17.154	14.2	106	0.00
74		n-propylbenzene	20.000	17.141	14.3	107	0.00
75		2-Chlorotoluene	20.000	17.173	14.1	105	0.00
76		1,3,5-Trimethylbenzene	20.000	17.393	13.0	108	0.00
77		t-1,4-Dichloro-2-butene	20.000	15.243	23.8	99	0.00
78		4-Chlorotoluene	20.000	18.280	8.6	111	0.00
79		tert-butylbenzene	20.000	17.436	12.8	108	0.00
80		1,2,4-Trimethylbenzene	20.000	17.154	14.2	105	0.00
81		sec-Butylbenzene	20.000	17.385	13.1	107	0.00
82		p-Isopropyltoluene	20.000	17.337	13.3	109	0.00
83	M	1,3-Dichlorobenzene	20.000	17.075	14.6	102	0.00
84	M	1,4-Dichlorobenzene	20.000	17.287	13.6	105	0.00
85		n-Butylbenzene	20.000	17.390	13.0	111	0.00
86	T	Hexachloroethane	20.000	17.975	10.1	109	0.00
87	M	1,2-Dichlorobenzene	20.000	18.016	9.9	109	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	18.204	9.0	104	0.00
89		1,2,4-Trichlorobenzene	20.000	17.505	12.5	110	0.00
90		Hexachlorobutadiene	20.000	18.275	8.6	106	0.00
91	M	Naphthalene	20.000	16.990	15.1	109	0.00
92		1,2,3-Trichlorobenzene	20.000	17.505	12.5	110	0.00

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	GARD04		
Lab Code:	ACE	SDG No.:	Q3078		
Instrument ID:	MSVOA_N	Calibration Date/Time:	09/12/2025	10:04	
Lab File ID:	VN087811.D	Init. Calib. Date(s):	09/04/2025	09/04/2025	
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	16:23	17:46	

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Acrolein	0.497	0.474		-4.63	
Acrylonitrile	1.202	0.967		-19.55	
1,2-Dichloroethane-d4	2.563	2.485	0.01	-3.04	
Toluene-d8	1.395	1.380	0.01	-1.08	
4-Bromofluorobenzene	0.482	0.491	0.2	1.87	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087811.D
Acq On : 12 Sep 2025 10:04
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 22:49:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.800	128	60784	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.082	114	303424	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.847	117	286682	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.559	65	151019	29.085	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 96.933%				
60) 4-Bromofluorobenzene	12.823	95	140888	30.564	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.867%				
63) Toluene-d8	10.547	98	395502	29.665	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.148	85	65399	17.311	ug/l		93
3) Chloromethane	2.383	50	63571	16.030	ug/l		98
4) Vinyl Chloride	2.536	62	73556	16.408	ug/l		91
5) Bromomethane	2.983	94	34972	13.298	ug/l		87
6) Chloroethane	3.136	64	46438	15.156	ug/l	#	86
7) Trichlorofluoromethane	3.512	101	111490	16.967	ug/l	#	84
8) Diethyl Ether	3.965	74	43275	15.596	ug/l		98
9) 1,1,2-Trichlorotrifluo...	4.365	101	60106	16.888	ug/l		60
10) 1,1-Dichloroethene	4.336	96	59702	16.270	ug/l		86
11) Methyl Iodide	4.577	142	30279m	11.657	ug/l		
12) Methyl Acetate	5.018	43	94087	16.633	ug/l		99
13) Acrolein	4.177	56	96064m	95.383	ug/l		
14) Acrylonitrile	5.706	53	195852	80.440	ug/l		98
15) Acetone	4.418	58	64299	84.655	ug/l		89
16) Carbon Disulfide	4.700	76	172763	17.148	ug/l	#	93
17) Allyl chloride	5.012	41	98716	16.471	ug/l		96
18) Methylene Chloride	5.259	84	69382	16.692	ug/l		87
19) trans-1,2-Dichloroethene	5.777	96	62759	16.770	ug/l		91
20) Diisopropyl ether	6.659	45	217984	15.816	ug/l		95
21) 1,1-Dichloroethane	6.547	63	123875	16.412	ug/l		98
22) cis-1,2-Dichloroethene	7.471	96	73827	16.252	ug/l		96
23) tert-Butyl Alcohol	5.530	59	67900	78.891	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	215930	16.483	ug/l	#	81
25) Chloroform	7.947	83	130701	16.544	ug/l		97
26) Cyclohexane	8.230	56	94965	16.522	ug/l	#	98
29) 1,1-Dichloropropene	8.359	75	81944	16.617	ug/l		98
30) 2-Butanone	7.465	43	284761	83.828	ug/l		98
31) 2,2-Dichloropropane	7.471	77	108005	18.169	ug/l		100
32) 1,1,1-Trichloroethane	8.153	97	105895	16.939	ug/l		99
33) Carbon Tetrachloride	8.347	117	87831	16.849	ug/l		91
34) Benzene	8.588	78	267682	16.796	ug/l	#	93
35) Methacrylonitrile	7.765	41	62901	17.703	ug/l		97
36) 1,2-Dichloroethane	8.653	62	101452	16.853	ug/l		99
37) Trichloroethene	9.335	130	63376	17.789	ug/l		94
38) Methylcyclohexane	9.582	83	93927	17.298	ug/l		97
39) 1,2-Dichloropropane	9.600	63	68081	16.679	ug/l		95
40) Dibromomethane	9.688	93	53122	17.488	ug/l		98
41) Bromodichloromethane	9.871	83	107797	17.362	ug/l		98
42) Vinyl Acetate	6.589	43	903232	79.581	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087811.D
Acq On : 12 Sep 2025 10:04
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 22:49:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Ethyl Acetate	7.547	43	117417	16.918	ug/l		95
44) Isopropyl Acetate	8.671	43	175405	16.122	ug/l		99
45) 1,4-Dioxane	9.682	88	24502	357.098	ug/l		92
46) Methyl methacrylate	9.665	41	68329	13.625	ug/l		98
47) n-amyl Acetate	12.541	43	95971m	13.053	ug/l		
48) t-1,3-Dichloropropene	10.818	75	106559	16.525	ug/l		98
49) cis-1,3-Dichloropropene	10.288	75	111066	16.816	ug/l		92
50) 1,1,2-Trichloroethane	10.994	97	69186	17.634	ug/l		95
51) Ethyl methacrylate	10.859	69	93517	15.316	ug/l		97
52) 1,3-Dichloropropane	11.141	76	115632	16.972	ug/l		99
53) Dibromochloromethane	11.335	129	76459	17.380	ug/l		88
54) 1,2-Dibromoethane	11.447	107	68179	16.700	ug/l		95
55) 2-Chloroethyl vinyl ether	10.141	63	327174	93.520	ug/l		98
56) Bromoform	12.559	173	47879	16.666	ug/l	#	98
58) 4-Methyl-2-Pentanone	10.424	43	561146	82.782	ug/l		99
59) 2-Hexanone	11.176	43	354546	80.044	ug/l		99
61) Tetrachloroethene	11.082	164	51713	18.118	ug/l		96
62) Toluene	10.606	91	290761	16.767	ug/l		99
64) Chlorobenzene	11.871	112	182160	17.115	ug/l		92
65) 1,1,1,2-Tetrachloroethane	11.935	131	66968	17.872	ug/l		93
66) Ethyl Benzene	11.941	91	314142	16.792	ug/l		97
67) m/p-Xylenes	12.047	106	232560	33.488	ug/l		95
68) o-Xylene	12.376	106	113988	16.929	ug/l		100
69) Styrene	12.394	104	190780	16.302	ug/l		99
70) Isopropylbenzene	12.676	105	289180	16.938	ug/l		98
71) 1,1,2,2-Tetrachloroethane	12.918	83	104036	16.950	ug/l		98
72) 1,2,3-Trichloropropane	12.970	75	97739m	16.218	ug/l		
73) Bromobenzene	12.959	156	71391	17.091	ug/l		93
74) n-propylbenzene	13.012	91	367468	17.059	ug/l		100
75) 2-Chlorotoluene	13.106	91	216456	16.695	ug/l		95
76) 1,3,5-Trimethylbenzene	13.147	105	244576	16.964	ug/l		96
77) t-1,4-Dichloro-2-butene	12.718	75	29221	14.366	ug/l		96
78) 4-Chlorotoluene	13.200	91	216873	16.592	ug/l		99
79) tert-butylbenzene	13.418	119	209027	17.312	ug/l		95
80) 1,2,4-Trimethylbenzene	13.459	105	251821	17.037	ug/l		97
81) sec-Butylbenzene	13.594	105	311772	17.555	ug/l		98
82) p-Isopropyltoluene	13.706	119	257669	17.609	ug/l		99
83) 1,3-Dichlorobenzene	13.712	146	142868	17.741	ug/l		98
84) 1,4-Dichlorobenzene	13.788	146	143919	17.830	ug/l		97
85) n-Butylbenzene	14.035	91	252867	17.978	ug/l		98
86) Hexachloroethane	14.312	117	51642	17.375	ug/l		100
87) 1,2-Dichlorobenzene	14.082	146	137930	18.161	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	21522	15.801	ug/l		85
89) 1,2,4-Trichlorobenzene	15.811	180	76825	17.784	ug/l		97
90) Hexachlorobutadiene	15.476	225	31231	21.566	ug/l		91
91) Naphthalene	15.611	128	257449	16.188	ug/l		98
92) 1,2,3-Trichlorobenzene	15.811	180	76825	17.784	ug/l		97

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

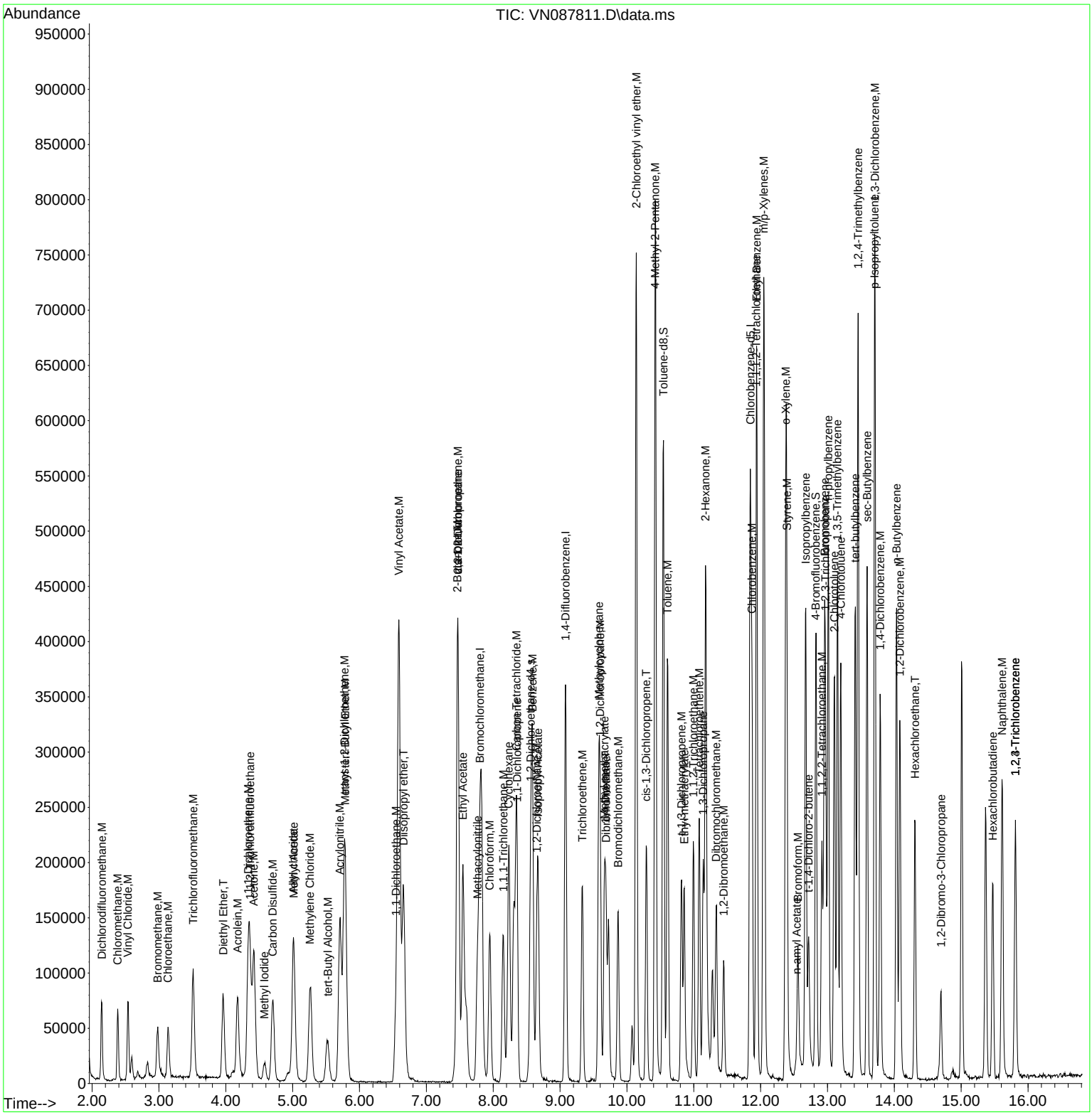
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087811.D
Acq On : 12 Sep 2025 10:04
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 22:49:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



Sample Results: **VN087811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087811.D
Acq On : 12 Sep 2025 10:04
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Sep 12 22:49:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	142	0.00
2	M	Dichlorodifluoromethane	1.865	1.614	13.5	131	0.00
3	M	Chloromethane	1.957	1.569	19.8	124	0.00
4	M	Vinyl Chloride	2.213	1.815	18.0	129	0.00
5	M	Bromomethane	1.298	0.863	33.5#	111	0.00
6	M	Chloroethane	1.512	1.146	24.2	120	0.00
7	M	Trichlorofluoromethane	3.243	2.751	15.2	135	0.00
8	T	Diethyl Ether	1.370	1.068	22.0	130	0.01
9		1,1,2-Trichlorotrifluoroeth	1.757	1.483	15.6	132	0.00
10	M	1,1-Dichloroethene	1.811	1.473	18.7	133	0.00
11		Methyl Iodide	1.282	0.747	41.7#	113	0.00
12		Methyl Acetate	2.792	2.322	16.8	130	0.00
13	M	Acrolein	0.497	0.474	4.6	156#	0.00
14	M	Acrylonitrile	1.202	0.967	19.6	131	-0.01
15	M	Acetone	0.375	0.317	15.5	141	-0.01
16	M	Carbon Disulfide	4.972	4.263	14.3	139	0.00
17		Allyl chloride	2.958	2.436	17.6	136	0.00
18	M	Methylene Chloride	2.052	1.712	16.6	138	0.00
19	M	trans-1,2-Dichloroethene	1.847	1.549	16.1	133	0.00
20	T	Diisopropyl ether	6.802	5.379	20.9	129	0.00
21	M	1,1-Dichloroethane	3.725	3.057	17.9	132	0.00
22	M	cis-1,2-Dichloroethene	2.242	1.822	18.7	130	0.00
23	M	tert-Butyl Alcohol	0.425	0.335	21.2	124	0.00
24	M	Methyl tert-Butyl Ether	6.466	5.329	17.6	137	0.00
25	M	Chloroform	3.899	3.225	17.3	131	0.00
26		Cyclohexane	2.837	2.344	17.4	136	-0.01
27	s	1,2-Dichloroethane-d4	2.563	2.485	3.0	141	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	143	0.00
29		1,1-Dichloropropene	0.488	0.405	17.0	130	0.00
30	M	2-Butanone	0.336	0.282	16.1	133	0.00
31		2,2-Dichloropropane	0.588	0.534	9.2	155#	0.00
32	M	1,1,1-Trichloroethane	0.618	0.524	15.2	129	0.00
33	M	Carbon Tetrachloride	0.515	0.434	15.7	134	0.00
34	M	Benzene	1.576	1.323	16.1	132	0.00
35		Methacrylonitrile	0.351	0.311	11.4	130	0.00
36	M	1,2-Dichloroethane	0.595	0.502	15.6	130	0.00
37	M	Trichloroethene	0.352	0.313	11.1	139	0.00
38		Methylcyclohexane	0.537	0.464	13.6	140	0.00
39	M	1,2-Dichloropropane	0.404	0.337	16.6	129	0.00
40		Dibromomethane	0.300	0.263	12.3	137	0.00
41	M	Bromodichloromethane	0.614	0.533	13.2	134	0.00
42	M	Vinyl Acetate	1.122	0.893	20.4	128	0.00
43		Ethyl Acetate	0.686	0.580	15.5	129	0.00
44		Isopropyl Acetate	1.076	0.867	19.4	125	0.00
45	T	1,4-Dioxane	0.007	0.006	14.3	131	0.00
46		Methyl methacrylate	0.496	0.338	31.9#	109	0.00
47		n-amyl Acetate	0.727	0.474	34.8#	131	-0.13
48	M	t-1,3-Dichloropropene	0.638	0.527	17.4	136	0.00

Sample Results: **VN087811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087811.D
Acq On : 12 Sep 2025 10:04
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Sep 12 22:49:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	cis-1,3-Dichloropropene	0.653	0.549	15.9	139	0.00
50	M	1,1,2-Trichloroethane	0.388	0.342	11.9	139	0.00
51		Ethyl methacrylate	0.604	0.462	23.5	129	0.00
52		1,3-Dichloropropane	0.674	0.572	15.1	132	0.00
53	M	Dibromochloromethane	0.435	0.378	13.1	147	0.00
54	M	1,2-Dibromoethane	0.404	0.337	16.6	133	0.00
55	M	2-Chloroethyl vinyl ether	0.346	0.323	6.6	145	0.00
56	M	Bromoform	0.284	0.237	16.5	140	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	145	0.00
58	M	4-Methyl-2-Pentanone	0.709	0.587	17.2	130	0.00
59	M	2-Hexanone	0.464	0.371	20.0	128	0.00
60	S	4-Bromofluorobenzene	0.482	0.491	-1.9	145	0.00
61	M	Tetrachloroethene	0.299	0.271	9.4	140	0.00
62	M	Toluene	1.815	1.521	16.2	132	0.00
63	S	Toluene-d8	1.395	1.380	1.1	141	0.00
64	M	Chlorobenzene	1.114	0.953	14.5	137	0.00
65		1,1,1,2-Tetrachloroethane	0.392	0.350	10.7	143	0.00
66	M	Ethyl Benzene	1.958	1.644	16.0	136	0.00
67	M	m/p-Xylenes	0.727	0.608	16.4	137	0.00
68	M	o-Xylene	0.705	0.596	15.5	135	0.00
69	M	Styrene	1.225	0.998	18.5	134	0.00
70		Isopropylbenzene	1.787	1.513	15.3	141	0.00
71	M	1,1,2,2-Tetrachloroethane	0.642	0.544	15.3	130	0.00
72		1,2,3-Trichloropropane	0.631	0.511	19.0	116	0.00
73		Bromobenzene	0.437	0.374	14.4	137	0.00
74		n-propylbenzene	2.254	1.923	14.7	138	0.00
75		2-Chlorotoluene	1.357	1.133	16.5	132	0.00
76		1,3,5-Trimethylbenzene	1.509	1.280	15.2	137	0.00
77		t-1,4-Dichloro-2-butene	0.213	0.153	28.2#	121	0.00
78		4-Chlorotoluene	1.368	1.135	17.0	130	0.00
79		tert-butylbenzene	1.263	1.094	13.4	140	0.00
80		1,2,4-Trimethylbenzene	1.547	1.318	14.8	136	0.00
81		sec-Butylbenzene	1.858	1.631	12.2	141	0.00
82		p-Isopropyltoluene	1.531	1.348	12.0	143	0.00
83	M	1,3-Dichlorobenzene	0.843	0.748	11.3	137	0.00
84	M	1,4-Dichlorobenzene	0.845	0.753	10.9	140	0.00
85		n-Butylbenzene	1.472	1.323	10.1	149	0.00
86	T	Hexachloroethane	0.311	0.270	13.2	136	0.00
87	M	1,2-Dichlorobenzene	0.795	0.722	9.2	142	0.00
88		1,2-Dibromo-3-Chloropropane	0.143	0.113	21.0	117	0.00
89		1,2,4-Trichlorobenzene	0.452	0.402	11.1	145	0.00
90		Hexachlorobutadiene	0.152	0.163	-7.2	162#	0.00
91	M	Naphthalene	1.664	1.347	19.1	135	0.00
92		1,2,3-Trichlorobenzene	0.452	0.402	11.1	145	0.00

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

Sample Results: **VN087811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087811.D
Acq On : 12 Sep 2025 10:04
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Sep 12 22:49:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	30.000	30.000	0.0	142	0.00
2	M	Dichlorodifluoromethane	20.000	17.311	13.4	131	0.00
3	M	Chloromethane	20.000	16.030	19.8	124	0.00
4	M	Vinyl Chloride	20.000	16.408	18.0	129	0.00
5	M	Bromomethane	20.000	13.298	33.5#	111	0.00
6	M	Chloroethane	20.000	15.156	24.2	120	0.00
7	M	Trichlorofluoromethane	20.000	16.967	15.2	135	0.00
8	T	Diethyl Ether	20.000	15.596	22.0	130	0.01
9		1,1,2-Trichlorotrifluoroeth	20.000	16.888	15.6	132	0.00
10	M	1,1-Dichloroethene	20.000	16.270	18.7	133	0.00
11		Methyl Iodide	20.000	11.657	41.7#	113	0.00
12		Methyl Acetate	20.000	16.633	16.8	130	0.00
13	M	Acrolein	100.000	95.383	4.6	156	0.00
14	M	Acrylonitrile	100.000	80.440	19.6	131	-0.01
15	M	Acetone	100.000	84.655	15.3	141	-0.01
16	M	Carbon Disulfide	20.000	17.148	14.3	139	0.00
17		Allyl chloride	20.000	16.471	17.6	136	0.00
18	M	Methylene Chloride	20.000	16.692	16.5	138	0.00
19	M	trans-1,2-Dichloroethene	20.000	16.770	16.2	133	0.00
20	T	Diisopropyl ether	20.000	15.816	20.9	129	0.00
21	M	1,1-Dichloroethane	20.000	16.412	17.9	132	0.00
22	M	cis-1,2-Dichloroethene	20.000	16.252	18.7	130	0.00
23	M	tert-Butyl Alcohol	100.000	78.891	21.1	124	0.00
24	M	Methyl tert-Butyl Ether	20.000	16.483	17.6	137	0.00
25	M	Chloroform	20.000	16.544	17.3	131	0.00
26		Cyclohexane	20.000	16.522	17.4	136	-0.01
27	s	1,2-Dichloroethane-d4	30.000	29.085	3.0	141	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	143	0.00
29		1,1-Dichloropropene	20.000	16.617	16.9	130	0.00
30	M	2-Butanone	100.000	83.828	16.2	133	0.00
31		2,2-Dichloropropane	20.000	18.169	9.2	155	0.00
32	M	1,1,1-Trichloroethane	20.000	16.939	15.3	129	0.00
33	M	Carbon Tetrachloride	20.000	16.849	15.8	134	0.00
34	M	Benzene	20.000	16.796	16.0	132	0.00
35		Methacrylonitrile	20.000	17.703	11.5	130	0.00
36	M	1,2-Dichloroethane	20.000	16.853	15.7	130	0.00
37	M	Trichloroethene	20.000	17.789	11.1	139	0.00
38		Methylcyclohexane	20.000	17.298	13.5	140	0.00
39	M	1,2-Dichloropropane	20.000	16.679	16.6	129	0.00
40		Dibromomethane	20.000	17.488	12.6	137	0.00
41	M	Bromodichloromethane	20.000	17.362	13.2	134	0.00
42	M	Vinyl Acetate	100.000	79.581	20.4	128	0.00
43		Ethyl Acetate	20.000	16.918	15.4	129	0.00
44		Isopropyl Acetate	20.000	16.122	19.4	125	0.00
45	T	1,4-Dioxane	400.000	357.098	10.7	131	0.00
46		Methyl methacrylate	20.000	13.625	31.9#	109	0.00
47		n-amyl Acetate	20.000	13.053	34.7#	131	-0.13
48	M	t-1,3-Dichloropropene	20.000	16.525	17.4	136	0.00

Sample Results: **VN087811.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087811.D
Acq On : 12 Sep 2025 10:04
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC020

Quant Time: Sep 12 22:49:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	cis-1,3-Dichloropropene	20.000	16.816	15.9	139	0.00
50	M	1,1,2-Trichloroethane	20.000	17.634	11.8	139	0.00
51		Ethyl methacrylate	20.000	15.316	23.4	129	0.00
52		1,3-Dichloropropane	20.000	16.972	15.1	132	0.00
53	M	Dibromochloromethane	20.000	17.380	13.1	147	0.00
54	M	1,2-Dibromoethane	20.000	16.700	16.5	133	0.00
55	M	2-Chloroethyl vinyl ether	100.000	93.520	6.5	145	0.00
56	M	Bromoform	20.000	16.666	16.7	140	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	145	0.00
58	M	4-Methyl-2-Pentanone	100.000	82.782	17.2	130	0.00
59	M	2-Hexanone	100.000	80.044	20.0	128	0.00
60	S	4-Bromofluorobenzene	30.000	30.564	-1.9	145	0.00
61	M	Tetrachloroethene	20.000	18.118	9.4	140	0.00
62	M	Toluene	20.000	16.767	16.2	132	0.00
63	S	Toluene-d8	30.000	29.665	1.1	141	0.00
64	M	Chlorobenzene	20.000	17.115	14.4	137	0.00
65		1,1,1,2-Tetrachloroethane	20.000	17.872	10.6	143	0.00
66	M	Ethyl Benzene	20.000	16.792	16.0	136	0.00
67	M	m/p-Xylenes	40.000	33.488	16.3	137	0.00
68	M	o-Xylene	20.000	16.929	15.4	135	0.00
69	M	Styrene	20.000	16.302	18.5	134	0.00
70		Isopropylbenzene	20.000	16.938	15.3	141	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	16.950	15.3	130	0.00
72		1,2,3-Trichloropropane	20.000	16.218	18.9	116	0.00
73		Bromobenzene	20.000	17.091	14.5	137	0.00
74		n-propylbenzene	20.000	17.059	14.7	138	0.00
75		2-Chlorotoluene	20.000	16.695	16.5	132	0.00
76		1,3,5-Trimethylbenzene	20.000	16.964	15.2	137	0.00
77		t-1,4-Dichloro-2-butene	20.000	14.366	28.2#	121	0.00
78		4-Chlorotoluene	20.000	16.592	17.0	130	0.00
79		tert-butylbenzene	20.000	17.312	13.4	140	0.00
80		1,2,4-Trimethylbenzene	20.000	17.037	14.8	136	0.00
81		sec-Butylbenzene	20.000	17.555	12.2	141	0.00
82		p-Isopropyltoluene	20.000	17.609	12.0	143	0.00
83	M	1,3-Dichlorobenzene	20.000	17.741	11.3	137	0.00
84	M	1,4-Dichlorobenzene	20.000	17.830	10.9	140	0.00
85		n-Butylbenzene	20.000	17.978	10.1	149	0.00
86	T	Hexachloroethane	20.000	17.375	13.1	136	0.00
87	M	1,2-Dichlorobenzene	20.000	18.161	9.2	142	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	15.801	21.0	117	0.00
89		1,2,4-Trichlorobenzene	20.000	17.784	11.1	145	0.00
90		Hexachlorobutadiene	20.000	21.566	-7.8	162	0.00
91	M	Naphthalene	20.000	16.188	19.1	135	0.00
92		1,2,3-Trichlorobenzene	20.000	17.784	11.1	145	0.00

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

QC SAMPLE DATA

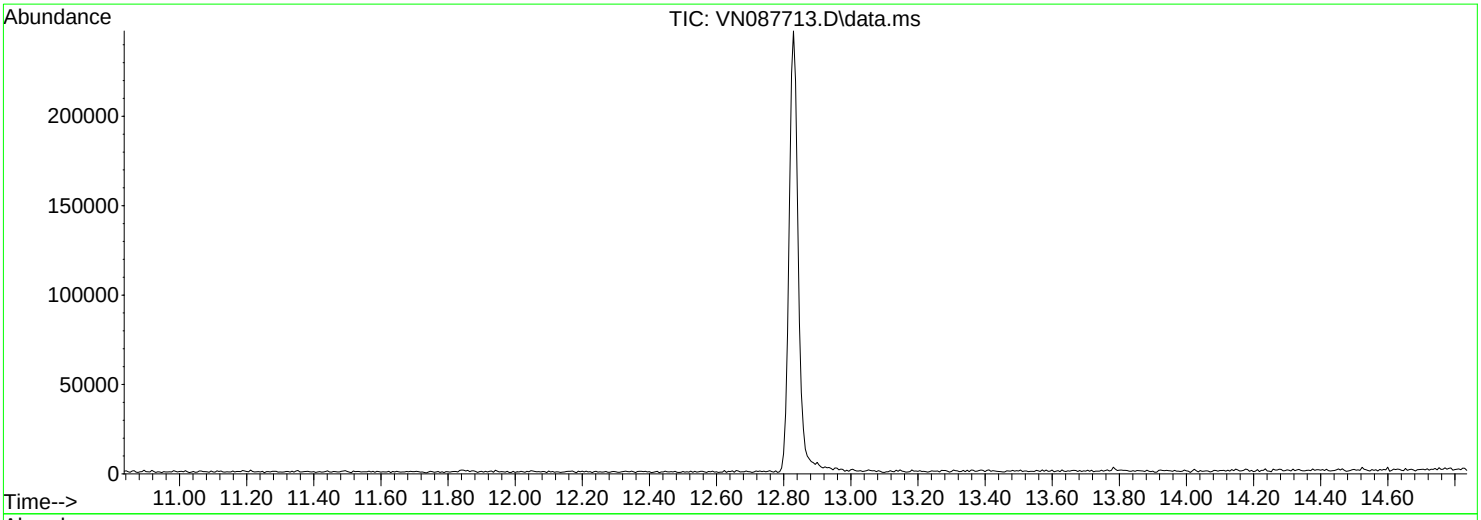
Sample Results: **VN087713.D**

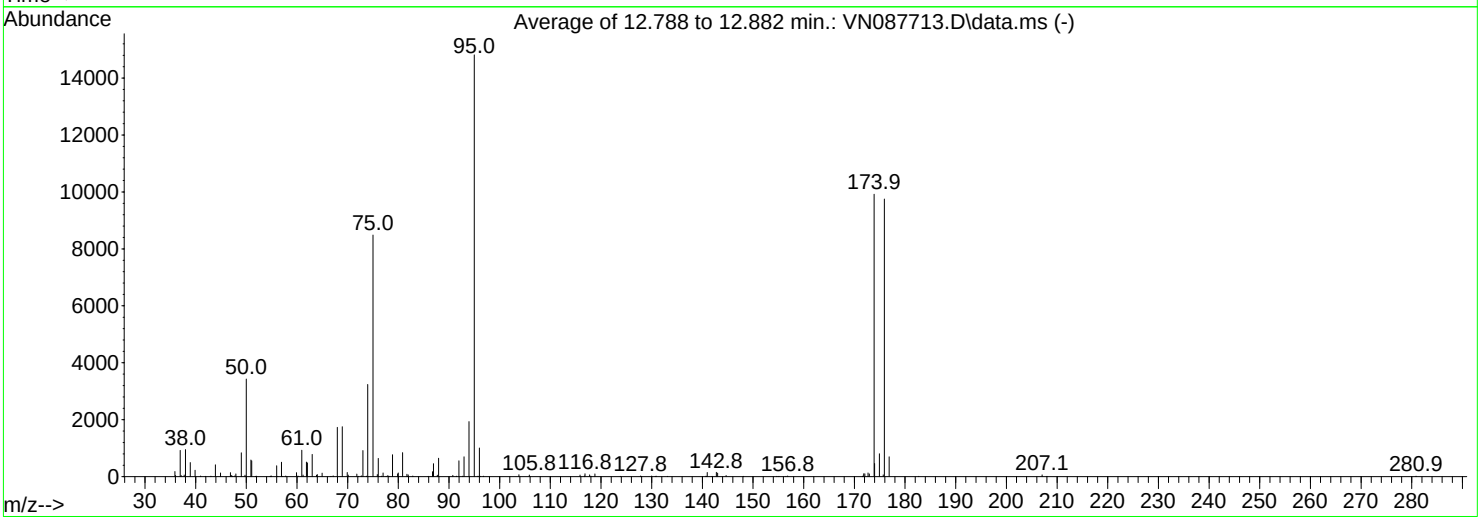
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
Data File : VN087713.D
Acq On : 04 Sep 2025 10:10
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Sep 05 03:29:53 2025





AutoFind: Averaged scan 1842 to 1858; Bkg corrected with scan 1841

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.1	3426	PASS
75	95	30	60	57.3	8489	PASS
95	95	100	100	100.0	14815	PASS
96	95	5	9	6.8	1008	PASS
173	174	0.00	2	1.3	131	PASS
174	95	50	100	67.0	9919	PASS
175	174	5	9	8.1	802	PASS
176	174	95	101	98.3	9751	PASS
177	176	5	9	7.1	696	PASS

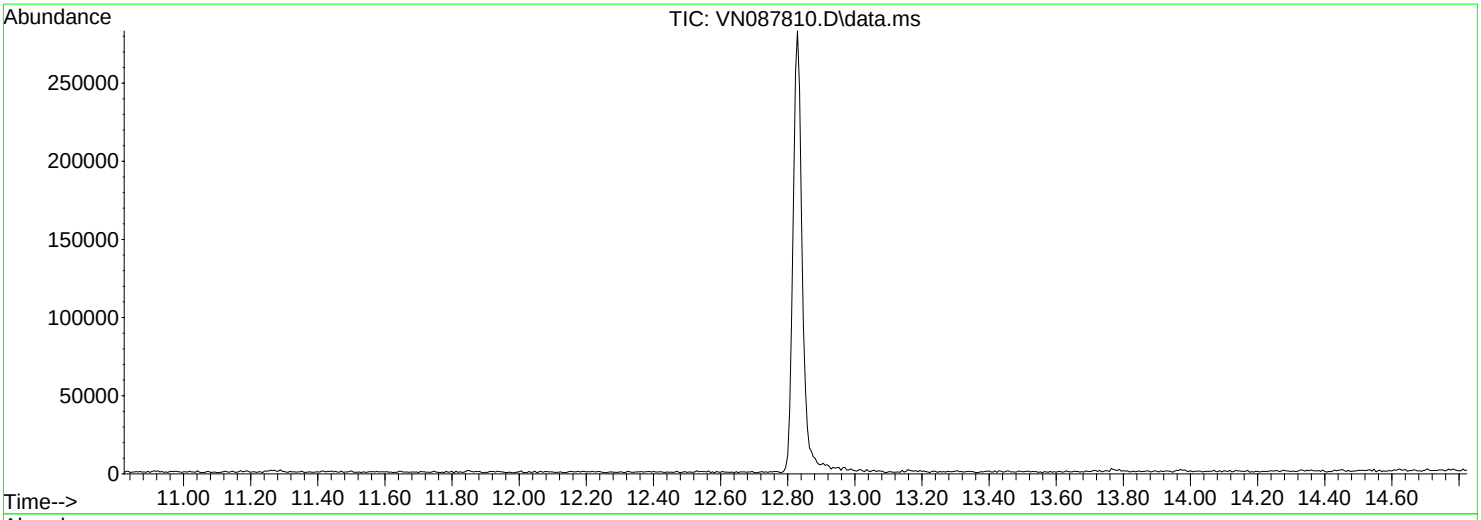
Sample Results: **VN087810.D**

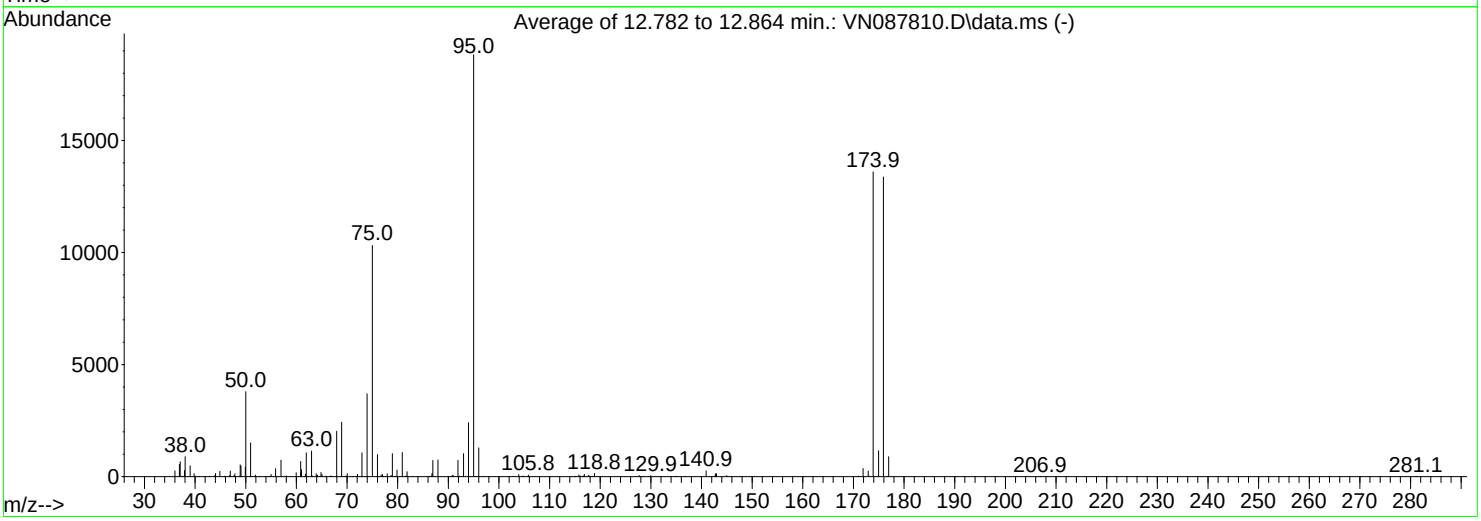
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087810.D
Acq On : 12 Sep 2025 08:23
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Sep 05 03:29:53 2025





AutoFind: Averaged scan 1841 to 1855; Bkg corrected with scan 1840

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	3792	PASS
75	95	30	60	54.8	10319	PASS
95	95	100	100	100.0	18821	PASS
96	95	5	9	6.8	1284	PASS
173	174	0.00	2	1.8	249	PASS
174	95	50	100	72.2	13598	PASS
175	174	5	9	8.5	1158	PASS
176	174	95	101	98.3	13372	PASS
177	176	5	9	6.7	894	PASS

Raw Data: **VN087814.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2025	Date Received:	
Client Sample ID:	VN0912WBL01	SDG No.:	Q3078
Lab Sample ID:	VN0912WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087814.D	1	09/12/25 11:40	VN091225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.2		91 - 110	97%	SPK: 30
2037-26-5	Toluene-d8	29.5		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.9		63 - 112	86%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	57100	7.795			
540-36-3	1,4-Difluorobenzene	280000	9.083			
3114-55-4	Chlorobenzene-d5	254000	11.841			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087814.D
Acq On : 12 Sep 2025 11:40
Operator : JC\MD
Sample : VN0912WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBL01

Quant Time: Sep 12 22:51:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

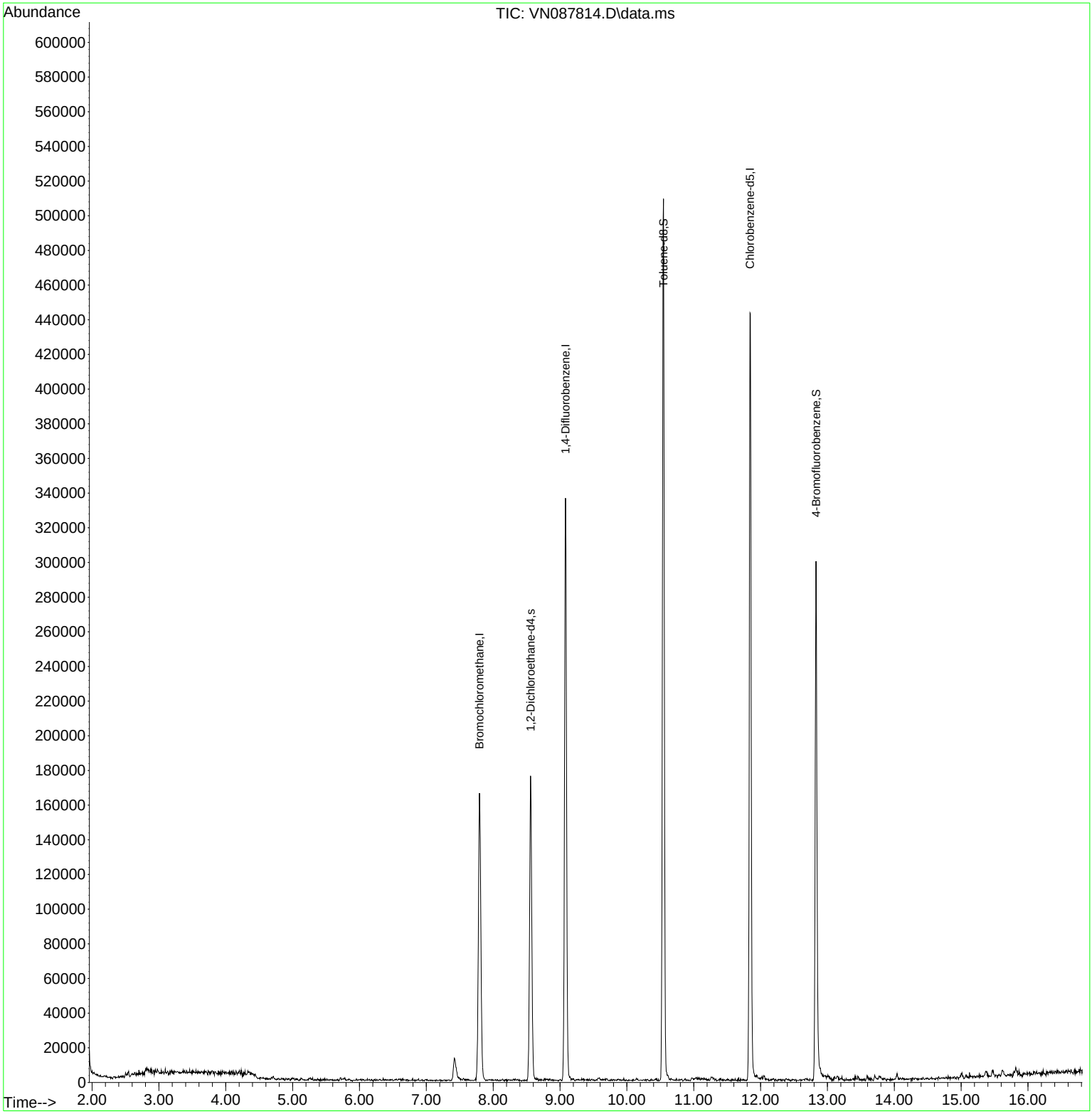
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.795	128	57083	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	279905	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	254454	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	142590	29.242	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 97.467%			
60) 4-Bromofluorobenzene	12.830	95	105772	25.852	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 86.167%			
63) Toluene-d8	10.547	98	349272	29.516	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.400%			
Target Compounds						Qvalue

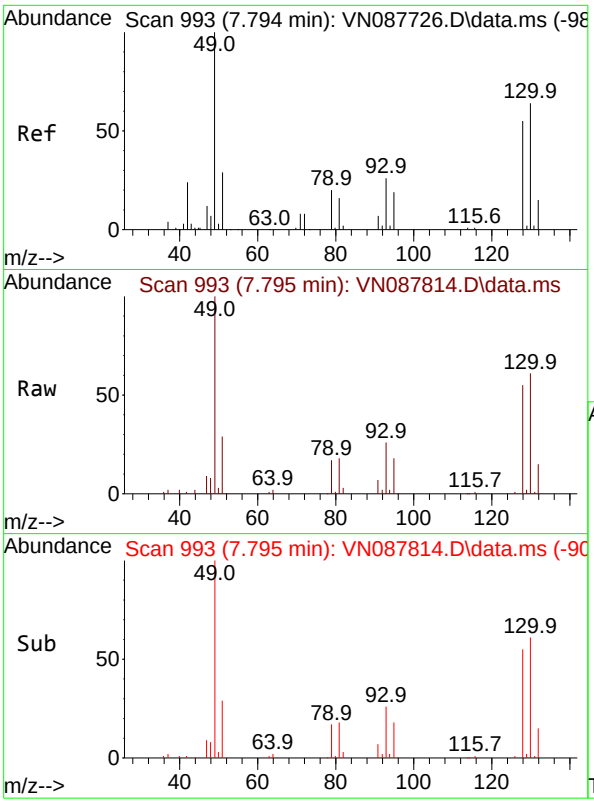
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087814.D
Acq On : 12 Sep 2025 11:40
Operator : JC\MD
Sample : VN0912WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBL01

Quant Time: Sep 12 22:51:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration



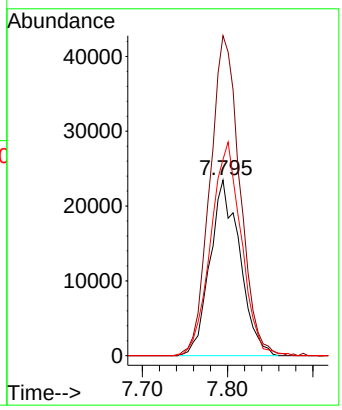


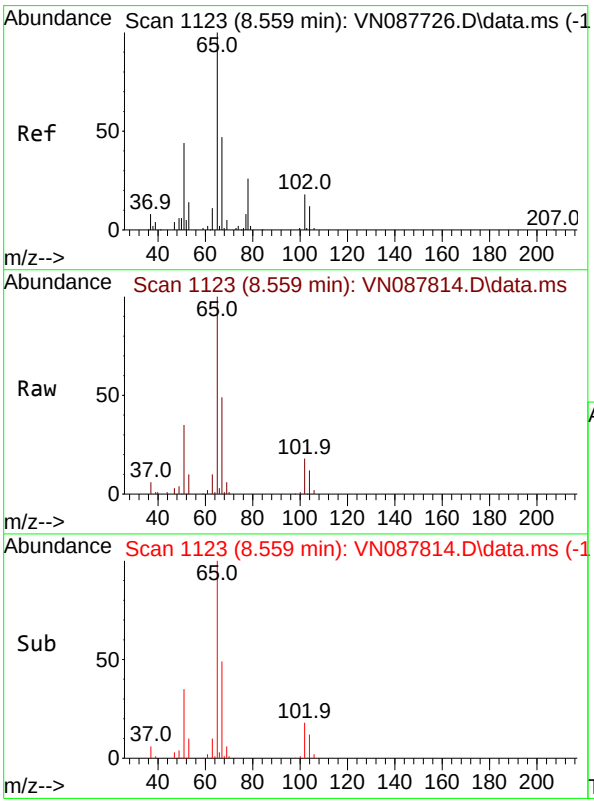
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.795 min Scan# 9
Delta R.T. 0.001 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBL01

Tgt Ion:128 Resp: 57083

Ion	Ratio	Lower	Upper
128	100		
49	182.6	0.0	464.3
130	123.5	0.0	300.5

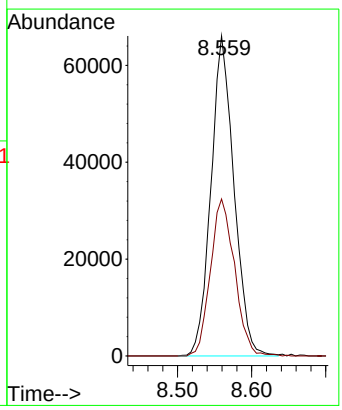


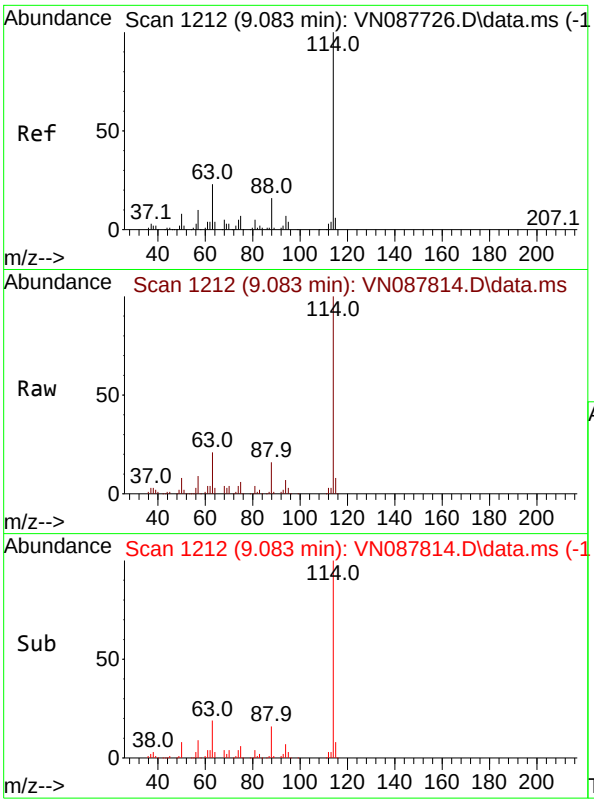


#27
1,2-Dichloroethane-d4
Concen: 29.242 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

Tgt Ion: 65 Resp: 142590

Ion	Ratio	Lower	Upper
65	100		
67	51.3	39.6	59.4



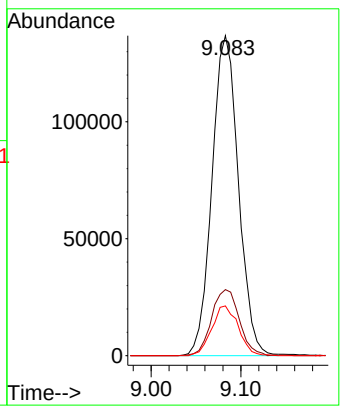


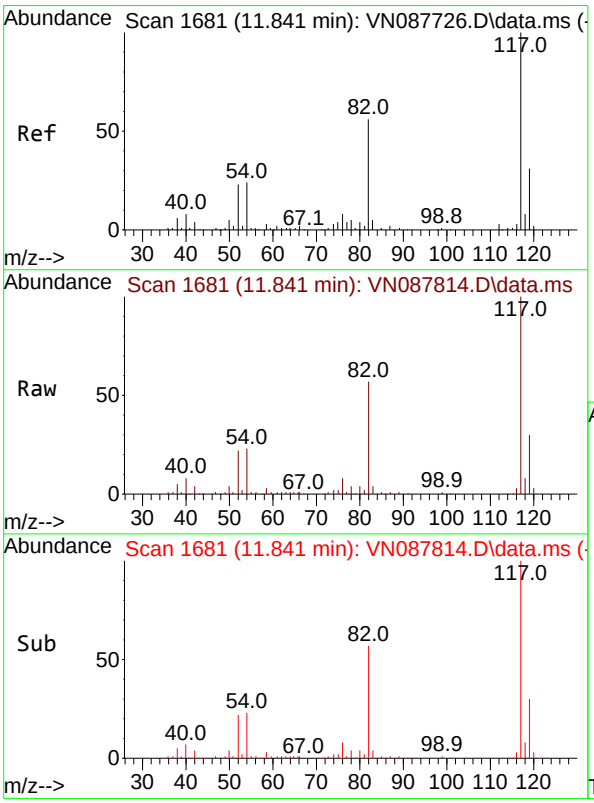
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBL01

Tgt Ion:114 Resp: 279905

Ion	Ratio	Lower	Upper
114	100		
63	21.7	18.3	27.5
88	15.6	12.4	18.6

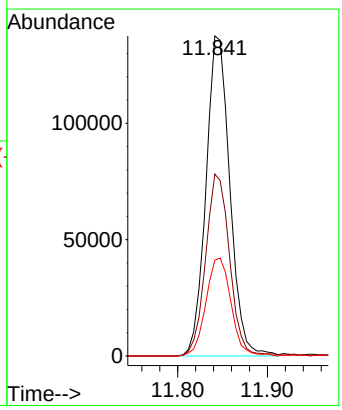


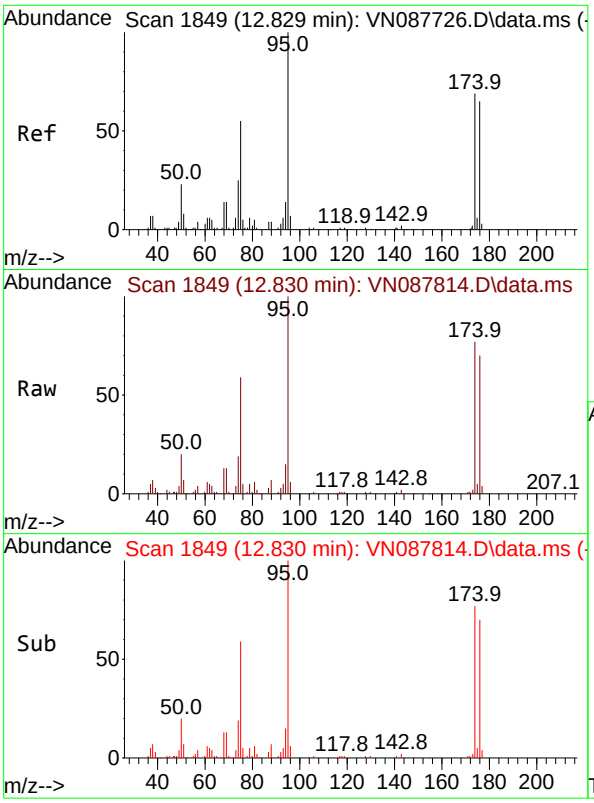


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

Tgt Ion:117 Resp: 254454

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.9	68.9
119	31.9	25.3	37.9



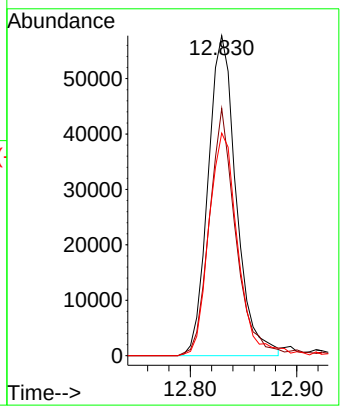


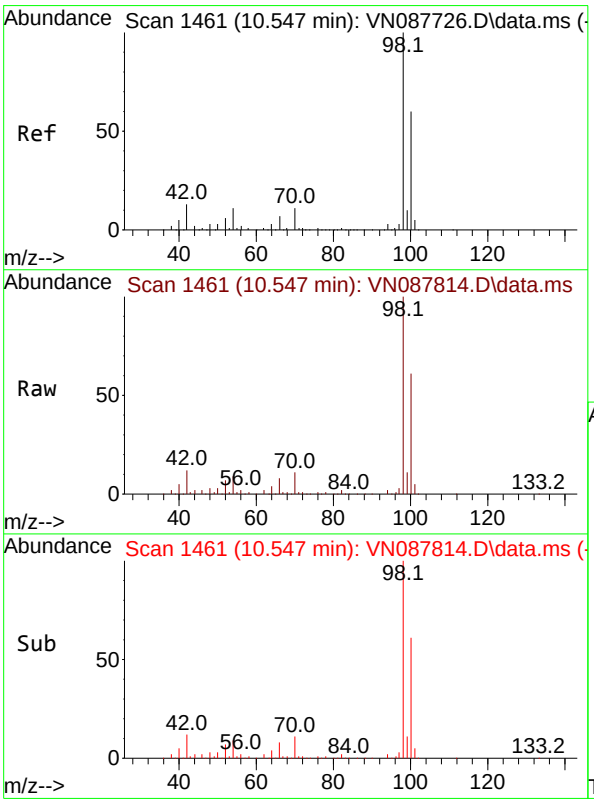
#60
4-Bromofluorobenzene
Concen: 25.852 ug/l
RT: 12.830 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBL01

Tgt Ion: 95 Resp: 105772

Ion	Ratio	Lower	Upper
95	100		
174	72.5	55.4	83.0
176	70.8	51.5	77.3

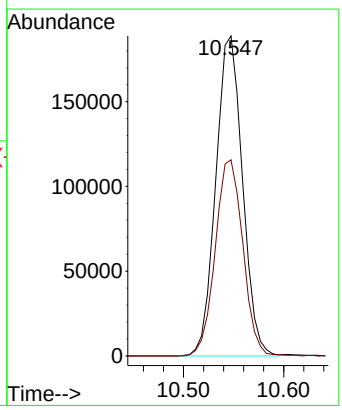




#63
Toluene-d8
Concen: 29.516 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087814.D
Acq: 12 Sep 2025 11:40

Tgt Ion: 98 Resp: 349272

Ion	Ratio	Lower	Upper
98	100		
100	63.3	50.6	76.0



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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2025	Date Received:	
Client Sample ID:	VN0912WBS01	SDG No.:	Q3078
Lab Sample ID:	VN0912WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087812.D	1	09/12/25 10:45	VN091225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	99.6		6.60	25.0	ug/L
107-13-1	Acrylonitrile	89.7		2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.2		91 - 110	97%	SPK: 30
2037-26-5	Toluene-d8	30.1		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.2		63 - 112	101%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	57200	7.794			
540-36-3	1,4-Difluorobenzene	293000	9.083			
3114-55-4	Chlorobenzene-d5	271000	11.841			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087812.D
Acq On : 12 Sep 2025 10:45
Operator : JC\MD
Sample : VN0912WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 22:50:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.794	128	57185	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	292500	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	270542	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	142666	29.205	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 97.367%			
60) 4-Bromofluorobenzene	12.829	95	131180	30.156	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.533%			
63) Toluene-d8	10.547	98	379086	30.130	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.433%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	68525	19.281	ug/l	93
3) Chloromethane	2.383	50	66319	17.775	ug/l	99
4) Vinyl Chloride	2.536	62	77219	18.309	ug/l	93
5) Bromomethane	2.977	94	36008	14.553	ug/l	98
6) Chloroethane	3.142	64	49067	17.022	ug/l	89
7) Trichlorofluoromethane	3.512	101	114377	18.502	ug/l	94
8) Diethyl Ether	3.965	74	47598	18.233	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	60508	18.070	ug/l	75
10) 1,1-Dichloroethene	4.336	96	61911	17.934	ug/l	92
11) Methyl Iodide	4.583	142	31164	12.753	ug/l	89
12) Methyl Acetate	5.018	43	100951	18.970	ug/l	100
13) Acrolein	4.177	56	94404m	99.634	ug/l	
14) Acrylonitrile	5.706	53	205534	89.730	ug/l	96
15) Acetone	4.412	58	64278	89.954	ug/l	99
16) Carbon Disulfide	4.706	76	176078	18.577	ug/l #	94
17) Allyl chloride	5.006	41	96885m	17.182	ug/l	
18) Methylene Chloride	5.265	84	72783	18.612	ug/l #	83
19) trans-1,2-Dichloroethene	5.765	96	66391m	18.857	ug/l	
20) Diisopropyl ether	6.659	45	236619	18.248	ug/l	96
21) 1,1-Dichloroethane	6.553	63	129360	18.218	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	79877	18.691	ug/l	99
23) tert-Butyl Alcohol	5.518	59	75562	93.319	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	222475	18.051	ug/l	96
25) Chloroform	7.947	83	139386	18.753	ug/l	97
26) Cyclohexane	8.236	56	98502	18.216	ug/l #	98
29) 1,1-Dichloropropene	8.347	75	85838	18.057	ug/l	98
30) 2-Butanone	7.471	43	301425	92.048	ug/l	98
31) 2,2-Dichloropropane	7.471	77	113380	19.786	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	115554	19.174	ug/l	97
33) Carbon Tetrachloride	8.347	117	93017	18.511	ug/l	98
34) Benzene	8.588	78	287923	18.741	ug/l	94
35) Methacrylonitrile	7.759	41	59654	17.416	ug/l	94
36) 1,2-Dichloroethane	8.653	62	107653	18.551	ug/l	99
37) Trichloroethene	9.330	130	65834	19.169	ug/l	95
38) Methylcyclohexane	9.583	83	95792	18.301	ug/l	100
39) 1,2-Dichloropropane	9.600	63	76239	19.375	ug/l	90
40) Dibromomethane	9.688	93	55819	19.062	ug/l	98
41) Bromodichloromethane	9.871	83	111252	18.588	ug/l	96
42) Vinyl Acetate	6.589	43	954834	87.269	ug/l #	88

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087812.D
Acq On : 12 Sep 2025 10:45
Operator : JC\MD
Sample : VN0912WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 22:50:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	111964	16.735	ug/l	95
44) Isopropyl Acetate	8.677	43	184704	17.610	ug/l	99
45) 1,4-Dioxane	9.682	88	28270	427.401	ug/l	95
46) Methyl methacrylate	9.665	41	78219	16.180	ug/l	93
47) n-amyl Acetate	12.559	43	106600m	15.040	ug/l	
48) t-1,3-Dichloropropene	10.818	75	114574	18.431	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	116952	18.368	ug/l	99
50) 1,1,2-Trichloroethane	11.000	97	71792	18.982	ug/l	91
51) Ethyl methacrylate	10.859	69	103683	17.615	ug/l	95
52) 1,3-Dichloropropane	11.141	76	121807	18.546	ug/l	99
53) Dibromochloromethane	11.335	129	78785	18.578	ug/l	94
54) 1,2-Dibromoethane	11.447	107	76056	19.325	ug/l	96
55) 2-Chloroethyl vinyl ether	10.141	63	296598	87.946	ug/l	97
56) Bromoform	12.559	173	50966	18.403	ug/l	96
58) 4-Methyl-2-Pentanone	10.424	43	587680	91.869	ug/l	99
59) 2-Hexanone	11.177	43	377128	90.222	ug/l	100
61) Tetrachloroethene	11.077	164	53216	19.756	ug/l	96
62) Toluene	10.606	91	304912	18.633	ug/l	99
64) Chlorobenzene	11.871	112	197108	19.625	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.941	131	69598	19.682	ug/l	95
66) Ethyl Benzene	11.941	91	325835	18.456	ug/l	96
67) m/p-Xylenes	12.047	106	250453	38.217	ug/l	91
68) o-Xylene	12.376	106	120873	19.023	ug/l	98
69) Styrene	12.388	104	200413	18.147	ug/l	100
70) Isopropylbenzene	12.676	105	301954	18.741	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	111961	19.330	ug/l	99
72) 1,2,3-Trichloropropane	12.971	75	105113m	18.483	ug/l	
73) Bromobenzene	12.959	156	74414	18.878	ug/l	93
74) n-propylbenzene	13.012	91	382795	18.830	ug/l	98
75) 2-Chlorotoluene	13.106	91	231074	18.886	ug/l	95
76) 1,3,5-Trimethylbenzene	13.153	105	256966	18.887	ug/l	98
77) t-1,4-Dichloro-2-butene	12.723	75	30952	16.125	ug/l	87
78) 4-Chlorotoluene	13.200	91	243017	19.702	ug/l	96
79) tert-butylbenzene	13.418	119	217008	19.045	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	260652	18.686	ug/l	97
81) sec-Butylbenzene	13.594	105	326802	19.499	ug/l	97
82) p-Isopropyltoluene	13.706	119	268047	19.411	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	154834	20.374	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	150160	19.713	ug/l	99
85) n-Butylbenzene	14.035	91	260262	19.608	ug/l	99
86) Hexachloroethane	14.306	117	53576	19.101	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	143217	19.982	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.700	75	24731	19.240	ug/l	93
89) 1,2,4-Trichlorobenzene	15.812	180	80060	19.639	ug/l	97
90) Hexachlorobutadiene	15.476	225	32228	23.582	ug/l	95
91) Naphthalene	15.612	128	275220	18.338	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	80060	19.639	ug/l	97

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

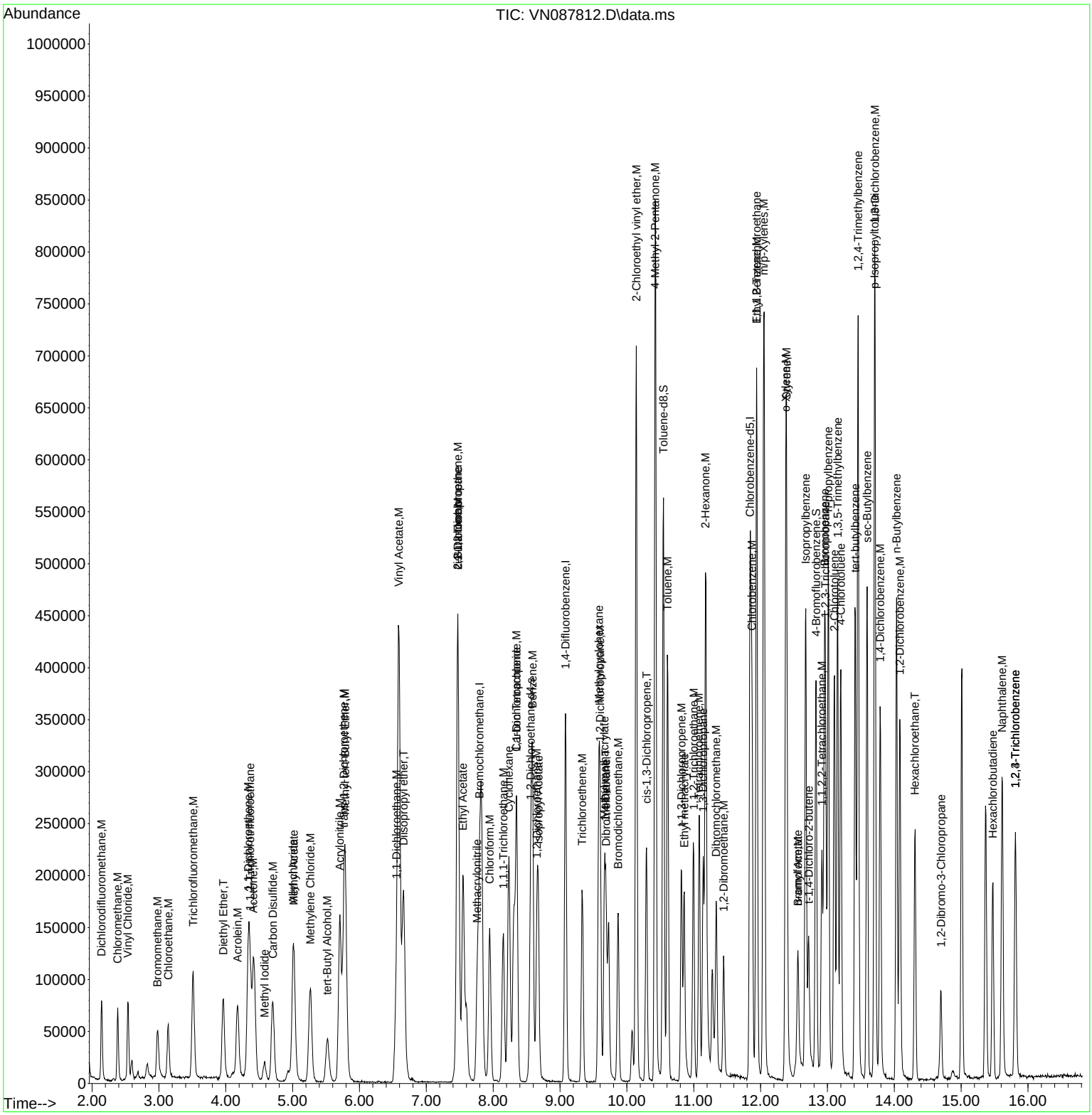
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087812.D
Acq On : 12 Sep 2025 10:45
Operator : JC\MD
Sample : VN0912WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 22:50:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2025	Date Received:	
Client Sample ID:	VN0912WBSD01	SDG No.:	Q3078
Lab Sample ID:	VN0912WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087813.D	1	09/12/25 11:06	VN091225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	97.9		6.60	25.0	ug/L
107-13-1	Acrylonitrile	87.6		2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	27.7		91 - 110	92%	SPK: 30
2037-26-5	Toluene-d8	29.9		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.3		63 - 112	98%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	60700	7.795			
540-36-3	1,4-Difluorobenzene	293000	9.083			
3114-55-4	Chlorobenzene-d5	273000	11.847			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087813.D
Acq On : 12 Sep 2025 11:06
Operator : JC\MD
Sample : VN0912WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 22:50:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.795	128	60654	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	9.083	114	293305	30.000	ug/l		0.00
57) Chlorobenzene-d5	11.847	117	272699	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.559	65	143354	27.668	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 92.233%				
60) 4-Bromofluorobenzene	12.829	95	128618	29.333	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.767%				
63) Toluene-d8	10.541	98	378556	29.850	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.142	85	70692	18.753	ug/l		97
3) Chloromethane	2.383	50	65788	16.624	ug/l		95
4) Vinyl Chloride	2.536	62	77414	17.306	ug/l		98
5) Bromomethane	2.983	94	37922	14.450	ug/l		97
6) Chloroethane	3.136	64	52371	17.130	ug/l	#	82
7) Trichlorofluoromethane	3.512	101	118483	18.070	ug/l		98
8) Diethyl Ether	3.965	74	46193	16.683	ug/l		98
9) 1,1,2-Trichlorotrifluo...	4.371	101	64189	18.073	ug/l		72
10) 1,1-Dichloroethene	4.336	96	65048	17.765	ug/l	#	82
11) Methyl Iodide	4.583	142	32276	12.453	ug/l		75
12) Methyl Acetate	5.018	43	102043	18.078	ug/l		96
13) Acrolein	4.177	56	98389m	97.901	ug/l		
14) Acrylonitrile	5.706	53	212763	87.573	ug/l		71
15) Acetone	4.418	58	66683	87.982	ug/l		82
16) Carbon Disulfide	4.701	76	185457	18.447	ug/l	#	92
17) Allyl chloride	5.018	41	101915	17.041	ug/l		98
18) Methylene Chloride	5.259	84	75185	18.127	ug/l		89
19) trans-1,2-Dichloroethene	5.765	96	66922	17.920	ug/l		98
20) Diisopropyl ether	6.659	45	233418	16.972	ug/l		97
21) 1,1-Dichloroethane	6.553	63	129018	17.131	ug/l		99
22) cis-1,2-Dichloroethene	7.471	96	80981	17.865	ug/l		97
23) tert-Butyl Alcohol	5.524	59	70963	82.627	ug/l	#	100
24) Methyl tert-Butyl Ether	5.789	73	222545	17.024	ug/l		95
25) Chloroform	7.947	83	135454	17.182	ug/l		90
26) Cyclohexane	8.242	56	103613	18.065	ug/l	#	100
29) 1,1-Dichloropropene	8.347	75	91303	19.154	ug/l		98
30) 2-Butanone	7.471	43	306372	93.302	ug/l		97
31) 2,2-Dichloropropane	7.465	77	115065	20.025	ug/l		99
32) 1,1,1-Trichloroethane	8.147	97	116352	19.253	ug/l		98
33) Carbon Tetrachloride	8.342	117	98183	19.485	ug/l		90
34) Benzene	8.589	78	292219	18.968	ug/l	#	93
35) Methacrylonitrile	7.759	41	63619	18.523	ug/l		96
36) 1,2-Dichloroethane	8.647	62	109367	18.794	ug/l		96
37) Trichloroethene	9.336	130	67222	19.520	ug/l		94
38) Methylcyclohexane	9.583	83	100988	19.241	ug/l		98
39) 1,2-Dichloropropane	9.600	63	76246	19.324	ug/l		99
40) Dibromomethane	9.689	93	54707	18.631	ug/l		97
41) Bromodichloromethane	9.871	83	107952	17.987	ug/l	#	94
42) Vinyl Acetate	6.595	43	962355	87.715	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087813.D
Acq On : 12 Sep 2025 11:06
Operator : JC\MD
Sample : VN0912WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 22:50:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	114815	17.114	ug/l	95
44) Isopropyl Acetate	8.677	43	184887	17.579	ug/l	98
45) 1,4-Dioxane	9.677	88	26538	400.115	ug/l	96
46) Methyl methacrylate	9.665	41	85538	17.645	ug/l	93
47) n-amyl Acetate	12.571	43	105619m	14.861	ug/l	
48) t-1,3-Dichloropropene	10.818	75	110087	17.661	ug/l	99
49) cis-1,3-Dichloropropene	10.288	75	119926	18.784	ug/l	90
50) 1,1,2-Trichloroethane	10.994	97	71598	18.878	ug/l	95
51) Ethyl methacrylate	10.859	69	107837	18.270	ug/l	99
52) 1,3-Dichloropropane	11.141	76	122386	18.583	ug/l	100
53) Dibromochloromethane	11.341	129	81694	19.211	ug/l	92
54) 1,2-Dibromoethane	11.447	107	72329	18.328	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	300818	88.953	ug/l	98
56) Bromoform	12.559	173	51291	18.470	ug/l	97
58) 4-Methyl-2-Pentanone	10.424	43	599526	92.979	ug/l	99
59) 2-Hexanone	11.177	43	379850	90.154	ug/l	98
61) Tetrachloroethene	11.083	164	57018	21.000	ug/l	93
62) Toluene	10.612	91	306195	18.563	ug/l	99
64) Chlorobenzene	11.871	112	188308	18.600	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.935	131	66801	18.741	ug/l	99
66) Ethyl Benzene	11.941	91	329763	18.531	ug/l	92
67) m/p-Xylenes	12.053	106	250458	37.915	ug/l	93
68) o-Xylene	12.377	106	120504	18.815	ug/l	100
69) Styrene	12.388	104	201054	18.061	ug/l	100
70) Isopropylbenzene	12.671	105	309691	19.070	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	110182	18.872	ug/l	97
72) 1,2,3-Trichloropropane	12.971	75	101119m	17.640	ug/l	
73) Bromobenzene	12.959	156	74780	18.821	ug/l	96
74) n-propylbenzene	13.012	91	392483	19.154	ug/l	98
75) 2-Chlorotoluene	13.100	91	231741	18.791	ug/l	97
76) 1,3,5-Trimethylbenzene	13.147	105	267103	19.477	ug/l	97
77) t-1,4-Dichloro-2-butene	12.718	75	31316	16.185	ug/l	95
78) 4-Chlorotoluene	13.200	91	242014	19.465	ug/l	98
79) tert-butylbenzene	13.418	119	229146	19.952	ug/l	95
80) 1,2,4-Trimethylbenzene	13.459	105	271786	19.330	ug/l	99
81) sec-Butylbenzene	13.594	105	346516	20.512	ug/l	99
82) p-Isopropyltoluene	13.706	119	287370	20.646	ug/l	96
83) 1,3-Dichlorobenzene	13.712	146	150754	19.680	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	152124	19.813	ug/l	99
85) n-Butylbenzene	14.035	91	277392	20.733	ug/l	98
86) Hexachloroethane	14.306	117	54896	19.417	ug/l	95
87) 1,2-Dichlorobenzene	14.082	146	143399	19.849	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.694	75	24542	18.942	ug/l	87
89) 1,2,4-Trichlorobenzene	15.806	180	82133	19.988	ug/l	98
90) Hexachlorobutadiene	15.470	225	34886	25.325	ug/l	91
91) Naphthalene	15.612	128	281519	18.610	ug/l	99
92) 1,2,3-Trichlorobenzene	15.806	180	82133	19.988	ug/l	98

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

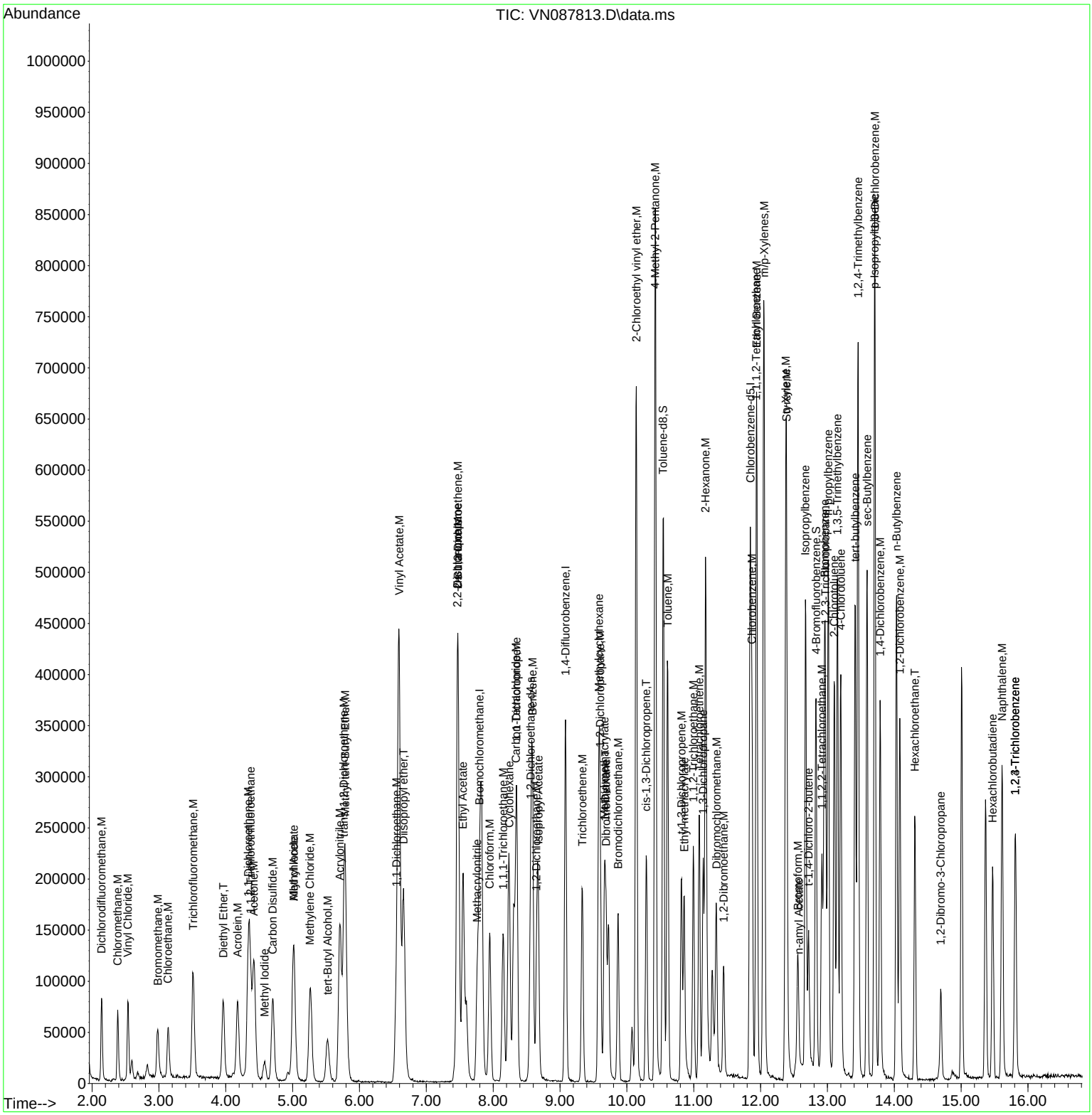
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
Data File : VN087813.D
Acq On : 12 Sep 2025 11:06
Operator : JC\MD
Sample : VN0912WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 12 22:50:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0912WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
Supervised By :Mahesh Dadoda 09/15/2025



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

Manual Integration Report

Sequence:	vn090425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN087714.D	1,2,3-Trichloropropane	sam	9/5/2025 1:44:22 PM	MMDadoda	9/5/2025 2:56:13 PM	Peak Integrated by Software
VSTDCCC020	VN087714.D	Acetone	sam	9/5/2025 1:44:22 PM	MMDadoda	9/5/2025 2:56:13 PM	Peak Integrated by Software
VSTDCCC020	VN087714.D	Allyl chloride	sam	9/5/2025 1:44:22 PM	MMDadoda	9/5/2025 2:56:13 PM	Peak Integrated by Software
VSTDCCC020	VN087714.D	n-amyl Acetate	sam	9/5/2025 1:44:22 PM	MMDadoda	9/5/2025 2:56:13 PM	Peak Integrated by Software
VSTDCCC020	VN087723.D	1,2,3-Trichloropropane	sam	9/5/2025 1:45:37 PM	MMDadoda	9/5/2025 2:56:18 PM	Peak Integrated by Software
VSTDCCC020	VN087723.D	n-amyl Acetate	sam	9/5/2025 1:45:37 PM	MMDadoda	9/5/2025 2:56:18 PM	Peak Integrated by Software
VSTDCCC020	VN087723.D	tert-Butyl Alcohol	sam	9/5/2025 1:45:37 PM	MMDadoda	9/5/2025 2:56:18 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	1,1,2-Trichlorotrifluoroethane	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	1,2,3-Trichloropropane	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	1,2-Dibromo-3-Chloropropane	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	2,2-Dichloropropane	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	Acetone	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	Allyl chloride	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn090425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VN087725.D	Diethyl Ether	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	Methyl Iodide	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	Methyl methacrylate	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	Methyl tert-Butyl Ether	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	n-amyl Acetate	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	tert-Butyl Alcohol	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICC005	VN087725.D	trans-1,2-Dichloroethene	sam	9/5/2025 1:45:43 PM	MMDadoda	9/5/2025 2:56:20 PM	Peak Integrated by Software
VSTDICCC020	VN087726.D	1,2,3-Trichloropropane	sam	9/5/2025 1:45:53 PM	MMDadoda	9/5/2025 2:56:23 PM	Peak Integrated by Software
VSTDICCC020	VN087726.D	Acrylonitrile	sam	9/5/2025 1:45:53 PM	MMDadoda	9/5/2025 2:56:23 PM	Peak Integrated by Software
VSTDICCC020	VN087726.D	n-amyl Acetate	sam	9/5/2025 1:45:53 PM	MMDadoda	9/5/2025 2:56:23 PM	Peak Integrated by Software
VSTDICCC020	VN087726.D	trans-1,2-Dichloroethene	sam	9/5/2025 1:45:53 PM	MMDadoda	9/5/2025 2:56:23 PM	Peak Integrated by Software
VSTDICC050	VN087727.D	1,2,3-Trichloropropane	sam	9/5/2025 1:46:26 PM	MMDadoda	9/5/2025 2:56:24 PM	Peak Integrated by Software
VSTDICC050	VN087727.D	n-amyl Acetate	sam	9/5/2025 1:46:26 PM	MMDadoda	9/5/2025 2:56:24 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn090425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN087728.D	1,2,3-Trichloropropane	sam	9/5/2025 1:46:31 PM	MMDadoda	9/5/2025 2:56:26 PM	Peak Integrated by Software
VSTDICC100	VN087728.D	Acrolein	sam	9/5/2025 1:46:31 PM	MMDadoda	9/5/2025 2:56:26 PM	Peak Integrated by Software
VSTDICC100	VN087728.D	n-amyl Acetate	sam	9/5/2025 1:46:31 PM	MMDadoda	9/5/2025 2:56:26 PM	Peak Integrated by Software
VSTDICC150	VN087729.D	1,2,3-Trichloropropane	sam	9/5/2025 1:45:48 PM	MMDadoda	9/5/2025 2:56:28 PM	Peak Integrated by Software
VSTDICC150	VN087729.D	Acrolein	sam	9/5/2025 1:45:48 PM	MMDadoda	9/5/2025 2:56:28 PM	Peak Integrated by Software
VSTDICC150	VN087729.D	Carbon Disulfide	sam	9/5/2025 1:45:48 PM	MMDadoda	9/5/2025 2:56:28 PM	Peak Integrated by Software
VSTDICC150	VN087729.D	n-amyl Acetate	sam	9/5/2025 1:45:48 PM	MMDadoda	9/5/2025 2:56:28 PM	Peak Integrated by Software
VSTDICV020	VN087731.D	1,2,3-Trichloropropane	sam	9/5/2025 1:46:09 PM	MMDadoda	9/5/2025 2:56:30 PM	Peak Integrated by Software
VSTDICV020	VN087731.D	Acrolein	sam	9/5/2025 1:46:09 PM	MMDadoda	9/5/2025 2:56:30 PM	Peak Integrated by Software
VSTDICV020	VN087731.D	Methyl Iodide	sam	9/5/2025 1:46:09 PM	MMDadoda	9/5/2025 2:56:30 PM	Peak Integrated by Software
VSTDICV020	VN087731.D	n-amyl Acetate	sam	9/5/2025 1:46:09 PM	MMDadoda	9/5/2025 2:56:30 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn091225	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN087811.D	1,2,3-Trichloropropane	sam	9/15/2025 8:11:17 AM	MMDadoda	9/15/2025 2:52:03 PM	Peak Integrated by Software
VSTDCCC020	VN087811.D	Acrolein	sam	9/15/2025 8:11:17 AM	MMDadoda	9/15/2025 2:52:03 PM	Peak Integrated by Software
VSTDCCC020	VN087811.D	Methyl Iodide	sam	9/15/2025 8:11:17 AM	MMDadoda	9/15/2025 2:52:03 PM	Peak Integrated by Software
VSTDCCC020	VN087811.D	n-amyl Acetate	sam	9/15/2025 8:11:17 AM	MMDadoda	9/15/2025 2:52:03 PM	Peak Integrated by Software
VN0912WBS01	VN087812.D	1,2,3-Trichloropropane	sam	9/15/2025 8:11:21 AM	MMDadoda	9/15/2025 2:52:06 PM	Peak Integrated by Software
VN0912WBS01	VN087812.D	Acrolein	sam	9/15/2025 8:11:21 AM	MMDadoda	9/15/2025 2:52:06 PM	Peak Integrated by Software
VN0912WBS01	VN087812.D	Allyl chloride	sam	9/15/2025 8:11:21 AM	MMDadoda	9/15/2025 2:52:06 PM	Peak Integrated by Software
VN0912WBS01	VN087812.D	n-amyl Acetate	sam	9/15/2025 8:11:21 AM	MMDadoda	9/15/2025 2:52:06 PM	Peak Integrated by Software
VN0912WBS01	VN087812.D	trans-1,2-Dichloroethene	sam	9/15/2025 8:11:21 AM	MMDadoda	9/15/2025 2:52:06 PM	Peak Integrated by Software
VN0912WBSD01	VN087813.D	1,2,3-Trichloropropane	sam	9/15/2025 8:11:25 AM	MMDadoda	9/15/2025 2:52:08 PM	Peak Integrated by Software
VN0912WBSD01	VN087813.D	Acrolein	sam	9/15/2025 8:11:25 AM	MMDadoda	9/15/2025 2:52:08 PM	Peak Integrated by Software
VN0912WBSD01	VN087813.D	n-amyl Acetate	sam	9/15/2025 8:11:25 AM	MMDadoda	9/15/2025 2:52:08 PM	Peak Integrated by Software
Q3078-01	VN087816.D	1,4-Dioxane	sam	9/15/2025 8:11:36 AM	MMDadoda	9/15/2025 2:52:11 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn091225	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3078-01	VN087816.D	Carbon Disulfide	sam	9/15/2025 8:11:36 AM	MMDadoda	9/15/2025 2:52:11 PM	Peak Integrated by Software
Q3078-01	VN087816.D	Methyl tert-Butyl Ether	sam	9/15/2025 8:11:36 AM	MMDadoda	9/15/2025 2:52:11 PM	Peak Integrated by Software
VSTDCCC020	VN087818.D	1,2,3-Trichloropropane	sam	9/15/2025 8:11:40 AM	MMDadoda	9/15/2025 2:52:16 PM	Peak Integrated by Software
VSTDCCC020	VN087818.D	Bromochloromethane	sam	9/15/2025 8:11:40 AM	MMDadoda	9/15/2025 2:52:16 PM	Peak Integrated by Software
VSTDCCC020	VN087818.D	n-amyl Acetate	sam	9/15/2025 8:11:40 AM	MMDadoda	9/15/2025 2:52:16 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN090425

Review By	Mahesh Dadoda	Review On	9/5/2025 2:55:23 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/5/2025 2:57:06 PM		
SubDirectory	VN090425	HP Acquire Method		HP Processing Method	624N080525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135371,VP135374
Initial Calibration Stds	VP135375,VP135376,VP135377,VP135378,VP135379
CCC	VP135372,VP135373
Internal Standard/PEM	
ICV/I.BLK	VP135380
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087713.D	04 Sep 2025 10:10	JC\MD	Ok
2	VSTDCCC020	VN087714.D	04 Sep 2025 10:54	JC\MD	Ok,M
3	VN0904WBS01	VN087715.D	04 Sep 2025 12:04	JC\MD	Ok,M
4	VN0904WBSD01	VN087716.D	04 Sep 2025 12:38	JC\MD	Ok,M
5	VN0904WBL01	VN087717.D	04 Sep 2025 12:59	JC\MD	Ok
6	Q3017-01	VN087718.D	04 Sep 2025 13:35	JC\MD	Ok
7	Q3017-02	VN087719.D	04 Sep 2025 13:56	JC\MD	Ok
8	Q3017-04	VN087720.D	04 Sep 2025 14:16	JC\MD	Ok
9	Q3017-05	VN087721.D	04 Sep 2025 14:37	JC\MD	Ok
10	Q3017-03	VN087722.D	04 Sep 2025 14:58	JC\MD	Ok
11	VSTDCCC020	VN087723.D	04 Sep 2025 15:21	JC\MD	Ok,M
12	BLK	VN087724.D	04 Sep 2025 15:41	JC\MD	Ok
13	VSTDICC005	VN087725.D	04 Sep 2025 16:23	JC\MD	Ok,M
14	VSTDICCC020	VN087726.D	04 Sep 2025 16:44	JC\MD	Ok,M
15	VSTDICC050	VN087727.D	04 Sep 2025 17:05	JC\MD	Ok,M
16	VSTDICC100	VN087728.D	04 Sep 2025 17:25	JC\MD	Ok,M
17	VSTDICC150	VN087729.D	04 Sep 2025 17:46	JC\MD	Ok,M
18	IBLK	VN087730.D	04 Sep 2025 18:07	JC\MD	Ok
19	VSTDICV020	VN087731.D	04 Sep 2025 18:28	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091225

Review By	John Carlone	Review On	9/15/2025 8:16:33 AM				
Supervise By	Mahesh Dadoda	Supervise On	9/15/2025 2:58:59 PM				
SubDirectory	VN091225	HP Acquire Method	MSVOA_N	HP Processing Method	624N090425W.M		

STD. NAME	STD REF.#
Tune/Reschk	VP135444
Initial Calibration Stds	
CCC	VP135445,VP135446
Internal Standard/PEM	VP134691
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087810.D	12 Sep 2025 08:23	JC\MD	Ok
2	VSTDCCC020	VN087811.D	12 Sep 2025 10:04	JC\MD	Ok,M
3	VN0912WBS01	VN087812.D	12 Sep 2025 10:45	JC\MD	Ok,M
4	VN0912WBSD01	VN087813.D	12 Sep 2025 11:06	JC\MD	Ok,M
5	VN0912WBL01	VN087814.D	12 Sep 2025 11:40	JC\MD	Ok
6	Q3078-02	VN087815.D	12 Sep 2025 12:19	JC\MD	Ok
7	Q3078-01	VN087816.D	12 Sep 2025 12:40	JC\MD	Ok,M
8	VIBLK	VN087817.D	12 Sep 2025 13:22	JC\MD	Ok
9	VSTDCCC020	VN087818.D	12 Sep 2025 15:51	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN090425

Review By	Mahesh Dadoda	Review On	9/5/2025 2:55:23 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/5/2025 2:57:06 PM		
SubDirectory	VN090425	HP Acquire Method		HP Processing Method	624N080525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135371,VP135374
Initial Calibration Stds	VP135375,VP135376,VP135377,VP135378,VP135379
CCC	VP135372,VP135373
Internal Standard/PEM	
ICV/I.BLK	VP135380
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087713.D	04 Sep 2025 10:10		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN087714.D	04 Sep 2025 10:54		JC\MD	Ok,M
3	VN0904WBS01	VN0904WBS01	VN087715.D	04 Sep 2025 12:04		JC\MD	Ok,M
4	VN0904WBSD01	VN0904WBSD01	VN087716.D	04 Sep 2025 12:38		JC\MD	Ok,M
5	VN0904WBL01	VN0904WBL01	VN087717.D	04 Sep 2025 12:59		JC\MD	Ok
6	Q3017-01	BP-TB-20250903	VN087718.D	04 Sep 2025 13:35	vial A pH<2 TB	JC\MD	Ok
7	Q3017-02	TT-076-IDWGW-20250	VN087719.D	04 Sep 2025 13:56	vial A+B pH<2	JC\MD	Ok
8	Q3017-04	TT-078-IDWGW-20250	VN087720.D	04 Sep 2025 14:16	vial A+B pH<2	JC\MD	Ok
9	Q3017-05	TT-079-IDWGW-20250	VN087721.D	04 Sep 2025 14:37	vial A+B pH<2	JC\MD	Ok
10	Q3017-03	TT-077-IDWGW-20250	VN087722.D	04 Sep 2025 14:58	vial A+B pH<2	JC\MD	Ok
11	VSTDCCC020	VSTDCCC020EC	VN087723.D	04 Sep 2025 15:21		JC\MD	Ok,M
12	BLK	BLK	VN087724.D	04 Sep 2025 15:41		JC\MD	Ok
13	VSTDICC005	VSTDICC005	VN087725.D	04 Sep 2025 16:23		JC\MD	Ok,M
14	VSTDICCC020	VSTDICCC020	VN087726.D	04 Sep 2025 16:44		JC\MD	Ok,M
15	VSTDICC050	VSTDICC050	VN087727.D	04 Sep 2025 17:05		JC\MD	Ok,M
16	VSTDICC100	VSTDICC100	VN087728.D	04 Sep 2025 17:25		JC\MD	Ok,M
17	VSTDICC150	VSTDICC150	VN087729.D	04 Sep 2025 17:46		JC\MD	Ok,M
18	IBLK	IBLK	VN087730.D	04 Sep 2025 18:07		JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN090425

Review By	Mahesh Dadoda	Review On	9/5/2025 2:55:23 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/5/2025 2:57:06 PM		
SubDirectory	VN090425	HP Acquire Method		HP Processing Method	624N080525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135371,VP135374
Initial Calibration Stds	VP135375,VP135376,VP135377,VP135378,VP135379
CCC	VP135372,VP135373
Internal Standard/PEM	
ICV/I.BLK	VP135380
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDICV020	ICVVN090425	VN087731.D	04 Sep 2025 18:28		JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN091225

Review By	John Carlone	Review On	9/15/2025 8:16:33 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/15/2025 2:58:59 PM		
SubDirectory	VN091225	HP Acquire Method	MSVOA_N	HP Processing Method	624N090425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135444
Initial Calibration Stds	
CCC	VP135445,VP135446
Internal Standard/PEM	VP134691
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087810.D	12 Sep 2025 08:23		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN087811.D	12 Sep 2025 10:04		JC\MD	Ok,M
3	VN0912WBS01	VN0912WBS01	VN087812.D	12 Sep 2025 10:45		JC\MD	Ok,M
4	VN0912WBSD01	VN0912WBSD01	VN087813.D	12 Sep 2025 11:06		JC\MD	Ok,M
5	VN0912WBL01	VN0912WBL01	VN087814.D	12 Sep 2025 11:40		JC\MD	Ok
6	Q3078-02	250910064-04-TRIP-BL	VN087815.D	12 Sep 2025 12:19	TB,vial B pH#7	JC\MD	Ok
7	Q3078-01	250910074-01-VOA	VN087816.D	12 Sep 2025 12:40	vial B pH#8	JC\MD	Ok,M
8	VIBLK	VIBLK	VN087817.D	12 Sep 2025 13:22		JC\MD	Ok
9	VSTDCCC020	VSTDCCC020EC	VN087818.D	12 Sep 2025 15:51		JC\MD	Ok,M

M : Manual Integration

SHIPPING DOCUMENTS

Garden State Laboratories, Inc.

Main Lab - 410 Hillside Avenue, Hillside NJ 07205 - NJDEP Lab Cert. #20044
Jersey Shore Lab - 54 Main Street, Waretown NJ 08758 - NJDEP Lab Cert. #15037

Tel. 800-273-8901/908-688-8900 Fax 908-688-8966 www.gslabs.com info@gslabs.com

Office and Drop off Locations

North Jersey Office: 225 Sparta Avenue, Sparta, NJ 07871 Tel. 973-729-1827

West Jersey Office: 2050 Route 31 North, Glen Gardner, NJ 08826 Tel. 908-537-7414

Q3078

OR SAMPLE RECEIVING USE ONLY

DATE/TIME/TEMP. REC'D AT LAB:

Page ____ of ____

GSL CLIENT #

MICRO #

CHEM. #

SAMPLE REC'D BY:

☐ GSL FIELD SAMPLER/PICK-UP

☐ PICK-UP AT DROP OFF LOCATION

☐ DELIVERED BY CLIENT

CHAIN OF CUSTODY RECORD - PRESS HARD AND PRINT CLEARLY - USE BALL POINT PEN

IMPORTANT: PRINTED NAMES & SIGNATURES ARE REQUIRED

CLIENT INFORMATION (REPORT TO BE SENT TO)

Name: Garden State Laboratories, Inc. Contact/Authorized by: Elinor Battler

Mailing Address: 410 Hillside Ave. Phone: 908-688-8900 x 303

City/State/Zip: Hilside, NJ. 07205 Email: ebattler@gslabs.com

SAMPLE INFORMATION

SAMPLE TYPE: WASTE WATER

SAMPLE LOCATI ACUA SW LANDFILL LEACHATE TANKS

Grab	Comp	SAMPLE ID	SAMPLE COLLECTION Date	Time	AM	PM	ANALYSIS REQUIRED (Print Legibly) ☐ List attached Total Pages ____	CONTAINER INFORMATION No.	Type*	Size	Pres.*
X	**	250910074-01 VOA	9/10/25	8:40	X		EPA 8260 TCL LIST + Acrolien & Acrylonitrile	3	V	40mL	A
↓		250910074-01 Trip blank					EPA 8260 TCL LIST + Acrolien & Ac	2	V	40mL	A
		-04 EB 9/25/25									

*KAE 9/10/25

⇨ *Container Type: P = Plastic G = Glass A = Amber Glass T = Sterile Thio V = Vial Other/Specify: ____

⇨ Preservation Code: A = None Preserved B = Sulfuric Acid C = Sodium Hydroxide D = Nitric Acid E = Hydrochloric Acid F = Zinc Acetate G = Sodium Thiosulfate H = Ascorbic Acid I = Cooled Other/Specify: ____

☐ SUBCONTRACTED WORK

TURNAROUND TIME: ☒ Stand ☐ Rush (IF RUSH REQUESTED) Rush Due by:

REPORT FORMA ☒ Standard Report ☐ Other/Specify:

Standard Report + E2 PWS ID#:

SEND TO: Chem Tech

DATE/TIME:

METHOD OF SHIPMEN Deliver

PAYMENT INFORMATION

☐ Sampling/Pick-up Fee: $ ☐ Composite Fee: $ ☐ Rush Fee: $ Amount Due: $

Payment Method: ☐ Credit Card Type: ☐ Check # ☐ Other: See Quote

Note: ATL16

VOA UNPRESERVED DUE TO EFFERVESCENSE - 3 DAY TAT PER JORDAN HE

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION
PLEASE PRINT YOUR NAME LEGIBLY, USE FULL LEGAL SIGNATURE, DATE AND TIME

Sampled by (PRINT):	Signature:	Date/Time:
Client/Client's Representative (PRINT):	Signature:	Date/Time:
1. Received/Relinquished by (PRINT): Kaylee Evans	Signature: Kaylee Evans	Date/Time: 9/10/25 15:04
2. Received/Relinquished by (PRINT): MATT JACKSON	Signature: Matt Jackson	Date/Time: 9/11/25 8:20 AM

9/11/25 0820

4-3°C

From: ELINOR BATTLER <ebattler@gslabs.com>
Sent: Thursday, September 25, 2025 5:40 PM
To: Yazmeen Gomez <yazmeen.gomez@alliancetg.com>
Subject: Re: Report Details For Project Waste Water 2025-Q3078.

Hi Yazmeen,

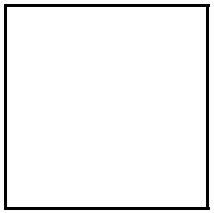
I noticed that the chain of custody we sent to you had an error in our sample ID for the trip blank. The blank should be labeled 250910064-04. Can you please take this amended chain to attach to the report and fix the sample ID listed on your report?

Thank you,

Elinor Battler
Lab Manager
Garden State Laboratories - Jersey Shore
908-688-8900 x 303

From: Data-EWR@alliancetg.com <Data-EWR@alliancetg.com>
Sent: Tuesday, September 23, 2025 9:18 AM

To: ELINOR BATTLER <ebattler@gslabs.com>; Sharon Ercoliani <sercoliani@gslabs.com>
Subject: Report Details For Project Waste Water 2025-Q3078.



To Sharon Ercoliani;

Please see the attached Report for the following project, or download the file using your login credentials from the link below.

Order ID	: Q3078
Project ID	: Waste Water 2025
Download File	: **https://chemtech.net/secureLogin.aspx**
Order Date	: 9/11/2025 10:27:00 AM
Alliance's Project Manager	: YAZMEEN GOMEZ , yazmeen.gomez@alliancetg.com , 908-728-3147
Alliance's Sales Executive	: Jordan Hedvat , jordan.hedvat@alliancetg.com , 908-728-3144

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey **chemtech.net/ClientSurvey.aspx**.

Thank you,

Alliance Technical Group LLC.

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

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

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3078 GARD04
Client Name : Garden State Laboratories, I
Client Contact : Sharon Ercoliani
Invoice Name : Garden State Laboratories, I
Invoice Contact : Sharon Ercoliani

Order Date : 9/11/2025 10:27:00 AM
Project Name : Waste Water 2025
Receive DateTime : 9/11/2025 8:20:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3078-01	250910074-01-VOA	Water	09/10/2025	08:40					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days
Q3078-02	250910064-01-TRIP-BLANK	Water	09/10/2025	08:40					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 9/11/25 1055

Received By :
Date / Time : 9/11/25 10:55 Rgt 4

Storage Area : VOA Refridgerator Room