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

Cover Page

Order ID : Q2302

Project ID : Waste Water 2025

Client : Garden State Laboratories, Inc.

Lab Sample Number	Client Sample Number
Q2302-01	250611078-02-VOA
Q2302-02	250611056-09-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: 6/20/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2302**

	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: **PRADIP PRAJAPATI** **Date:** **06/20/2025**

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LAB CHRONICLE

OrderID:	Q2302	**OrderDate:**	6/12/2025 12:09:00 PM
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
Q2302-01	**250611078-02-VOA**	**Water**			**06/11/25**			**06/12/25**
			VOCMS Group1	624.1			06/13/25	
Q2302-02	**250611056-09-TRIP-BLANK**	**Water**			**06/11/25**			**06/12/25**
			VOCMS Group1	624.1			06/13/25	

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Hit Summary Sheet

624.1

SDG No.: Q2302

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

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Surrogate Summary

SDG No.: Q2302

Client: Garden State Laboratories, Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2302-01	250611078-02-VOA	1,2-Dichloroethane-d4	30	30.8	103	91	110
		Toluene-d8	30	28.8	96	91	112
		4-Bromofluorobenzene	30	30.4	101	63	112
Q2302-02	250611056-09-TRIP-BLANK	1,2-Dichloroethane-d4	30	32.1	107	91	110
		Toluene-d8	30	28.3	94	91	112
		4-Bromofluorobenzene	30	27.9	93	63	112
VX0613WBL01	VX0613WBL01	1,2-Dichloroethane-d4	30	29.0	97	91	110
		Toluene-d8	30	29.2	97	91	112
		4-Bromofluorobenzene	30	28.8	96	63	112
VX0613WBS01	VX0613WBS01	1,2-Dichloroethane-d4	30	29.7	99	91	110
		Toluene-d8	30	30.1	100	91	112
		4-Bromofluorobenzene	30	30.7	102	63	112
VX0613WBSD0	VX0613WBSD01	1,2-Dichloroethane-d4	30	31.1	104	91	110
		Toluene-d8	30	29.8	99	91	112
		4-Bromofluorobenzene	30	29.9	99	63	112

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2302

Client: Garden State Laboratories, Inc.

Analytical Method: SW624.1 **Datafile :** VX046676.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0613WBS01	Acrolein	100	160	ug/L	160		*	60	140	
	Acrylonitrile	100	95.2	ug/L	95			60	140	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2302

Client: Garden State Laboratories, Inc.

Analytical Method: SW624.1 **Datafile :** VX046677.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0613WBSD01	Acrolein	100	190	ug/L	190	17	*	60	140	20
	Acrylonitrile	100	100	ug/L	100	5		60	140	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0613WBL01

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2302 SAS No.: Q2302 SDG NO.: Q2302

Lab File ID: VX046678.D Lab Sample ID: VX0613WBL01

Date Analyzed: 06/13/2025 Time Analyzed: 10:47

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0613WBS01	VX0613WBS01	VX046676.D	06/13/2025
VX0613WBSD01	VX0613WBSD01	VX046677.D	06/13/2025
250611056-09-TRIP-BLANK	Q2302-02	VX046679.D	06/13/2025
250611078-02-VOA	Q2302-01	VX046680.D	06/13/2025

COMMENTS:

Raw Data: **VX046613.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2302 SAS No.: Q2302 SDG NO.: Q2302

Lab File ID: VX046613.D BFB Injection Date: 06/10/2025

Instrument ID: MSVOA_X BFB Injection Time: 19:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	53.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	70
175	5.0 - 9.0% of mass 174	5.2 (7.4) 1
176	95.0 - 101.0% of mass 174	66.7 (95.2) 1
177	5.0 - 9.0% of mass 176	4.6 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VX046614.D	06/10/2025	20:19
VSTDICCC020	VSTDICCC020	VX046615.D	06/10/2025	20:40
VSTDICC050	VSTDICC050	VX046616.D	06/10/2025	21:01
VSTDICC100	VSTDICC100	VX046617.D	06/10/2025	21:22
VSTDICC150	VSTDICC150	VX046618.D	06/10/2025	21:44

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2302 SAS No.: Q2302 SDG NO.: Q2302

Lab File ID: VX046674.D BFB Injection Date: 06/13/2025

Instrument ID: MSVOA_X BFB Injection Time: 08:50

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.9
75	30.0 - 60.0% of mass 95	54.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	70.1
175	5.0 - 9.0% of mass 174	5.5 (7.8) 1
176	95.0 - 101.0% of mass 174	67.1 (95.7) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VX046675.D	06/13/2025	09:26
VX0613WBS01	VX0613WBS01	VX046676.D	06/13/2025	09:58
VX0613WBSD01	VX0613WBSD01	VX046677.D	06/13/2025	10:25
VX0613WBL01	VX0613WBL01	VX046678.D	06/13/2025	10:47
250611056-09-TRIP-BLANK	Q2302-02	VX046679.D	06/13/2025	11:15
250611078-02-VOA	Q2302-01	VX046680.D	06/13/2025	11:37

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2302 SAS No.: Q2302 SDG NO.: Q2302

Lab File ID: VX046675.D Date Analyzed: 06/13/2025

Instrument ID: MSVOA_X Time Analyzed: 09:26

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	24017	4.90	128745	6.76	115567	10.06
UPPER LIMIT	48034	5.403	257490	7.263	231134	10.555
LOWER LIMIT	12008.5	4.403	64372.5	6.263	57783.5	9.555
EPA SAMPLE NO.						
250611078-02-VOA	15679	4.92	86832	6.78	80444	10.06
250611056-09-TRIP-BLANK	16270	4.91	91078	6.77	85692	10.06
VX0613WBL01	18213	4.92	98625	6.77	90050	10.06
VX0613WBS01	18987	4.90	100504	6.76	91686	10.06
VX0613WBSD01	17593	4.91	94872	6.76	87146	10.06

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.

SAMPLE DATA

Raw Data: **VX046680.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	06/11/25
Project:	Waste Water 2025	Date Received:	06/12/25
Client Sample ID:	250611078-02-VOA	SDG No.:	Q2302
Lab Sample ID:	Q2302-01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046680.D	1		06/13/25 11:37	VX061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	6.60	UQ	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	30.8		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	28.8		91 - 112	96%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.4		63 - 112	101%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	15700	4.916			
540-36-3	1,4-Difluorobenzene	86800	6.775			
3114-55-4	Chlorobenzene-d5	80400	10.055			

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_X\Data\VX061325\
Data File : VX046680.D
Acq On : 13 Jun 2025 11:37
Operator : JC/MD
Sample : Q2302-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Quant Time: Jun 13 23:03:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

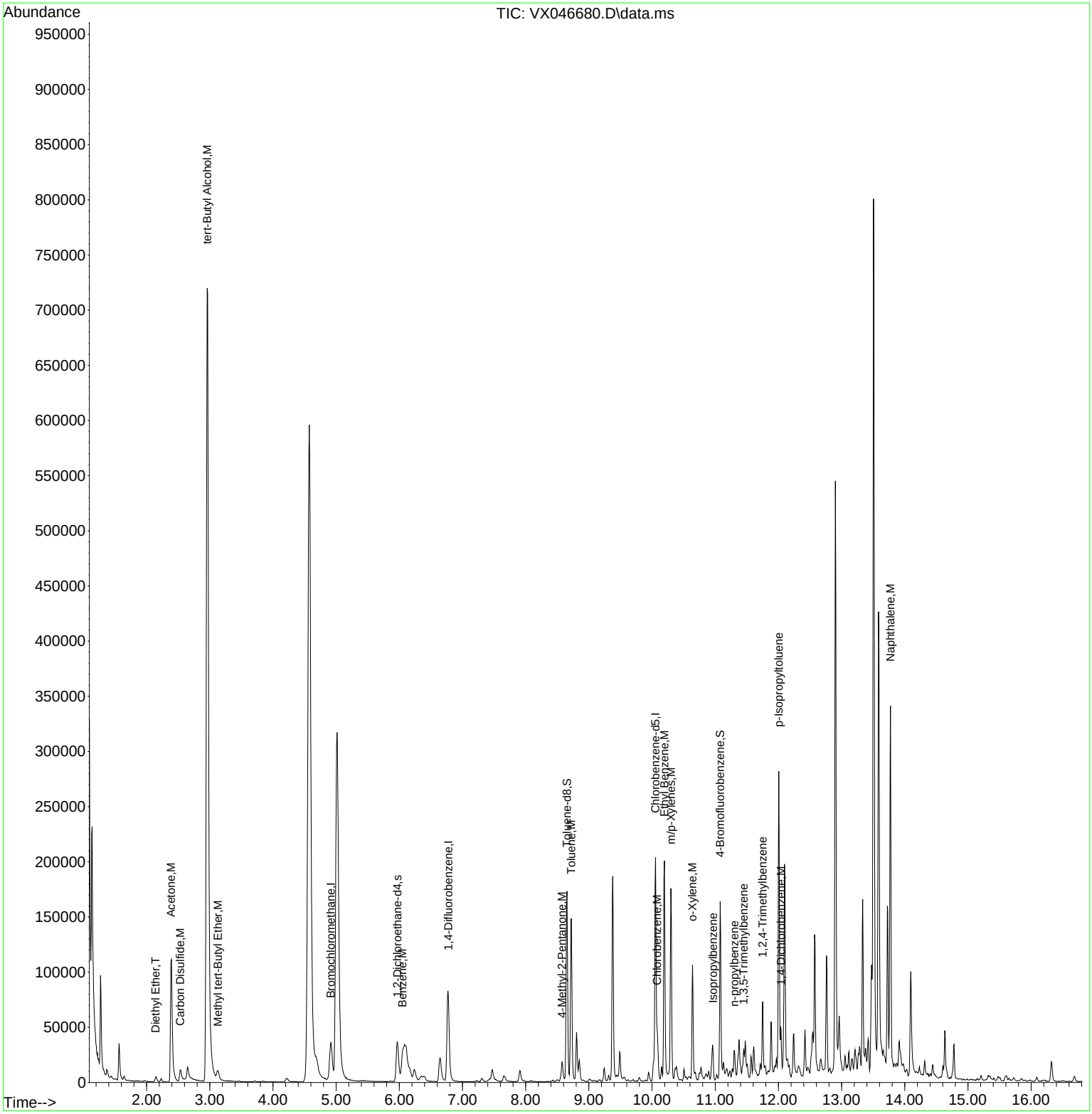
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	4.916	128	15679	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	6.775	114	86832	30.000	ug/l		0.00
57) Chlorobenzene-d5	10.055	117	80444	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	5.970	65	39052	30.770	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.567%				
60) 4-Bromofluorobenzene	11.079	95	41185	30.374	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.233%				
63) Toluene-d8	8.653	98	103409	28.779	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 95.933%				
Target Compounds							Qvalue
8) Diethyl Ether	2.142	74	1812	3.566	ug/l		89
15) Acetone	2.386	58	39907	359.957	ug/l		82
16) Carbon Disulfide	2.532	76	12606	4.854	ug/l		96
23) tert-Butyl Alcohol	2.959	59	927414	9470.911	ug/l	#	100
24) Methyl tert-Butyl Ether	3.129	73	9330	3.263	ug/l	#	66
34) Benzene	6.050	78	28695	7.149	ug/l		95
58) 4-Methyl-2-Pentanone	8.574	43	12844	9.816	ug/l		93
62) Toluene	8.720	91	89250	20.472	ug/l		98
64) Chlorobenzene	10.079	112	12516	4.451	ug/l		93
66) Ethyl Benzene	10.195	91	114539	23.010	ug/l		98
67) m/p-Xylenes	10.299	106	38605	20.967	ug/l		99
68) o-Xylene	10.640	106	20737	11.697	ug/l		98
70) Isopropylbenzene	10.963	105	14112	2.966	ug/l		100
74) n-propylbenzene	11.305	91	6594	1.159	ug/l		97
76) 1,3,5-Trimethylbenzene	11.451	105	7346	1.858	ug/l		96
80) 1,2,4-Trimethylbenzene	11.750	105	27339	7.003	ug/l		99
82) p-Isopropyltoluene	12.006	119	111816	27.006	ug/l		99
84) 1,4-Dichlorobenzene	12.042	146	11505	5.511	ug/l		95
91) Naphthalene	13.774	128	183119	43.838	ug/l		100

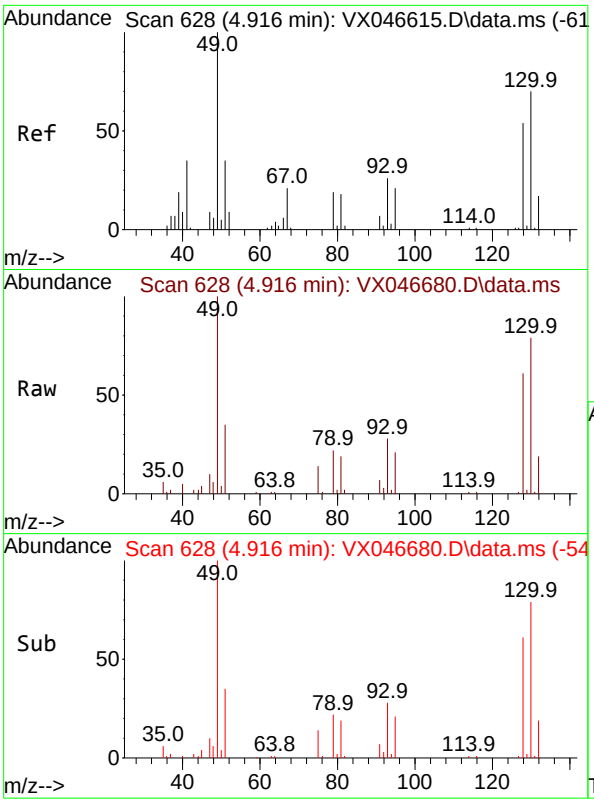
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046680.D
Acq On : 13 Jun 2025 11:37
Operator : JC/MD
Sample : Q2302-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Quant Time: Jun 13 23:03:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration



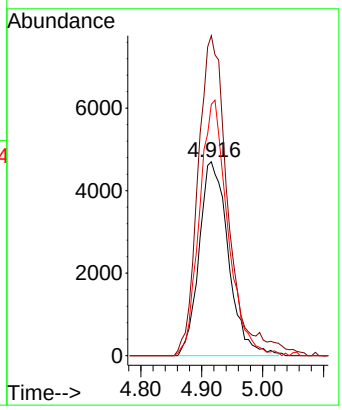


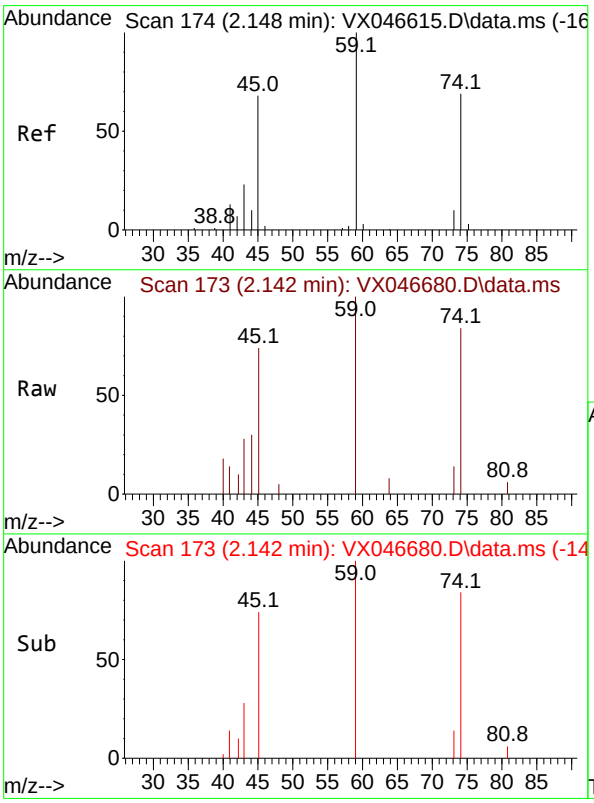
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion:128 Resp: 15679

Ion	Ratio	Lower	Upper
128	100		
49	162.2	0.0	448.3
130	126.9	0.0	312.0

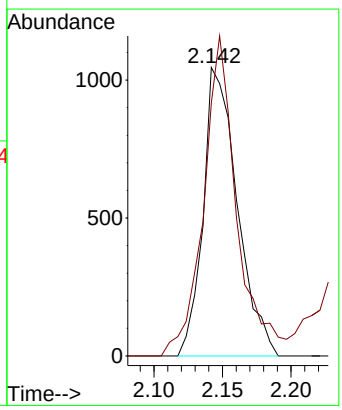


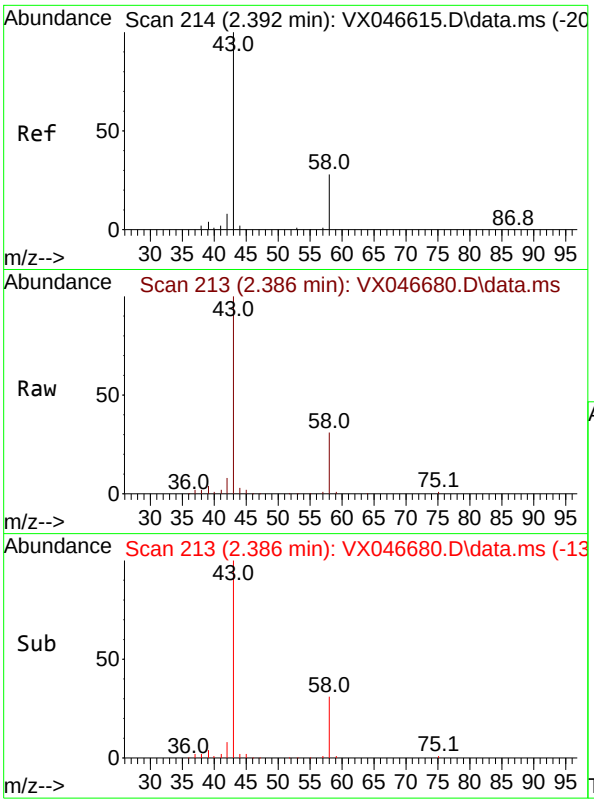


#8
Diethyl Ether
Concen: 3.566 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.006 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 74 Resp: 1812

Ion	Ratio	Lower	Upper
74	100		
45	107.6	19.3	174.1



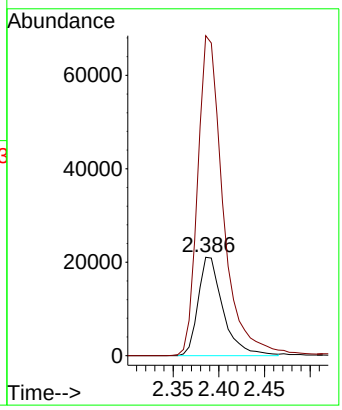


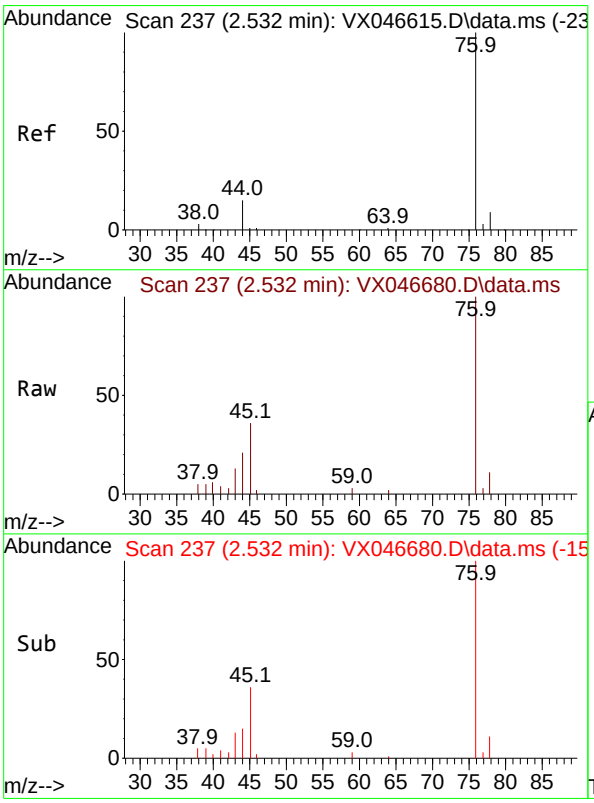
#15
Acetone
Concen: 359.957 ug/l
RT: 2.386 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion: 58 Resp: 39907

Ion	Ratio	Lower	Upper
58	100		
43	324.2	290.6	435.8

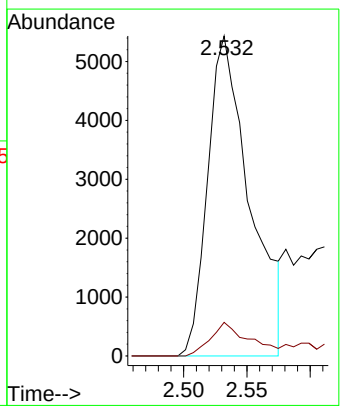


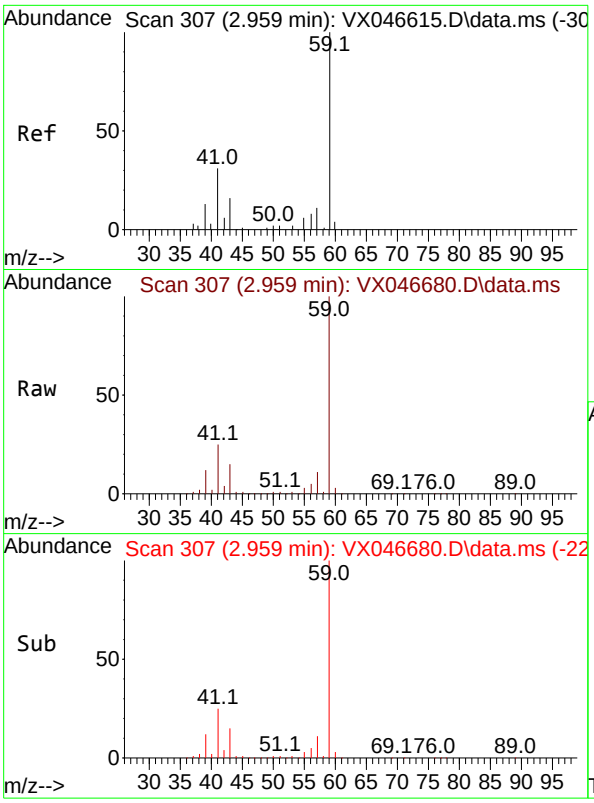


#16
Carbon Disulfide
Concen: 4.854 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 76 Resp: 12606

Ion	Ratio	Lower	Upper
76	100		
78	10.5	7.4	11.0



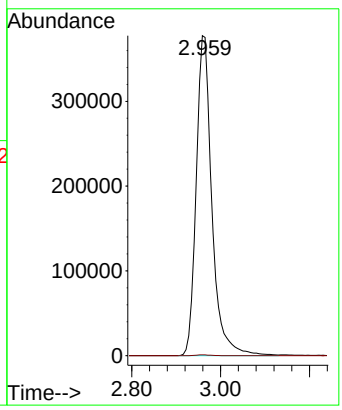


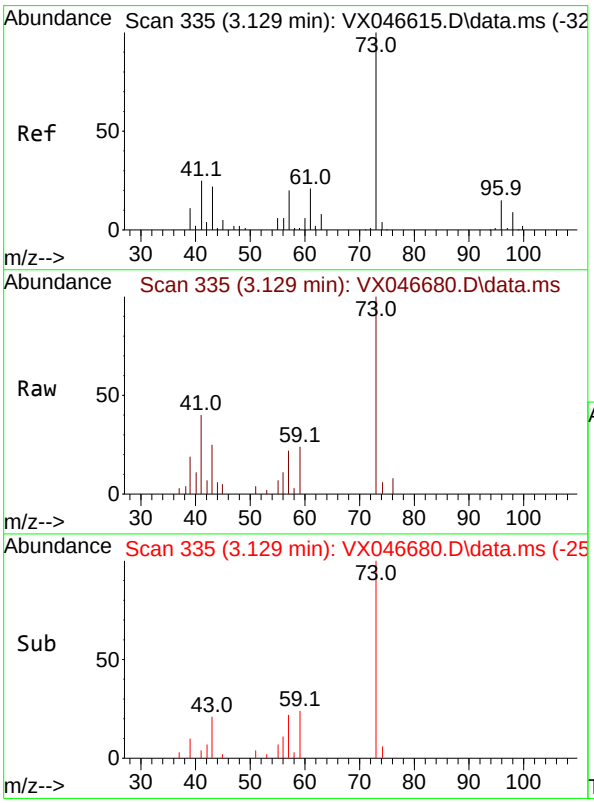
#23
tert-Butyl Alcohol
Concen: 9470.911 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion: 59 Resp: 927414

Ion	Ratio	Lower	Upper
59	100		
52	0.3	0.0	0.0#

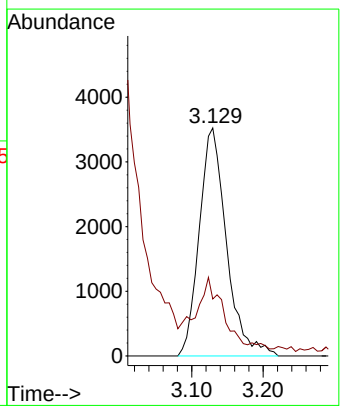


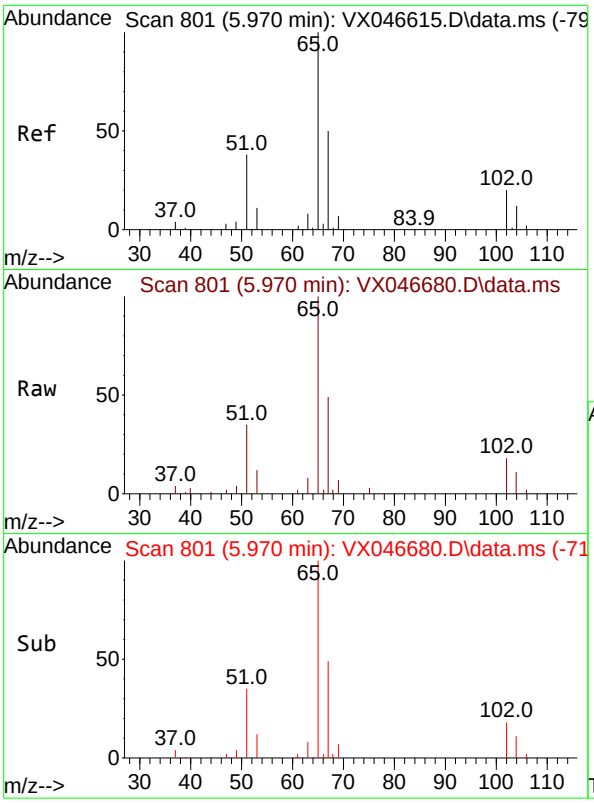


#24
Methyl tert-Butyl Ether
Concen: 3.263 ug/l
RT: 3.129 min Scan# 335
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 73 Resp: 9330

Ion	Ratio	Lower	Upper
73	100		
43	6.4	18.4	27.6#



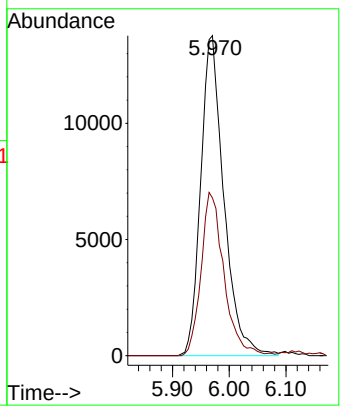


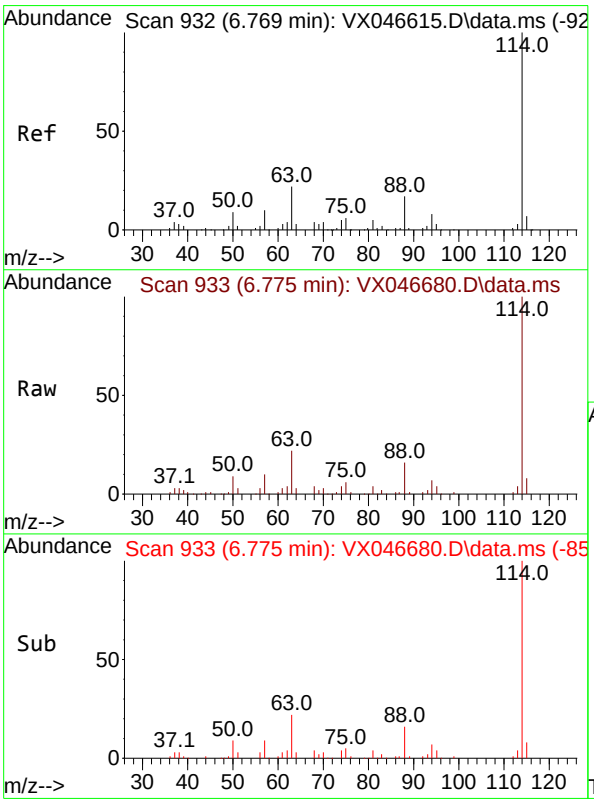
#27
1,2-Dichloroethane-d4
Concen: 30.770 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion: 65 Resp: 39052

Ion	Ratio	Lower	Upper
65	100		
67	50.3	41.4	62.2

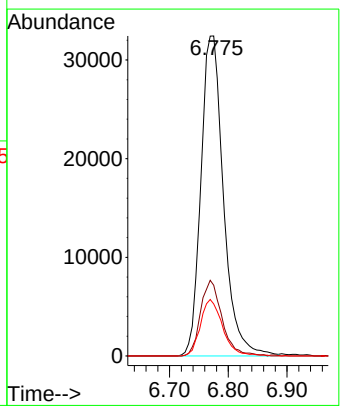


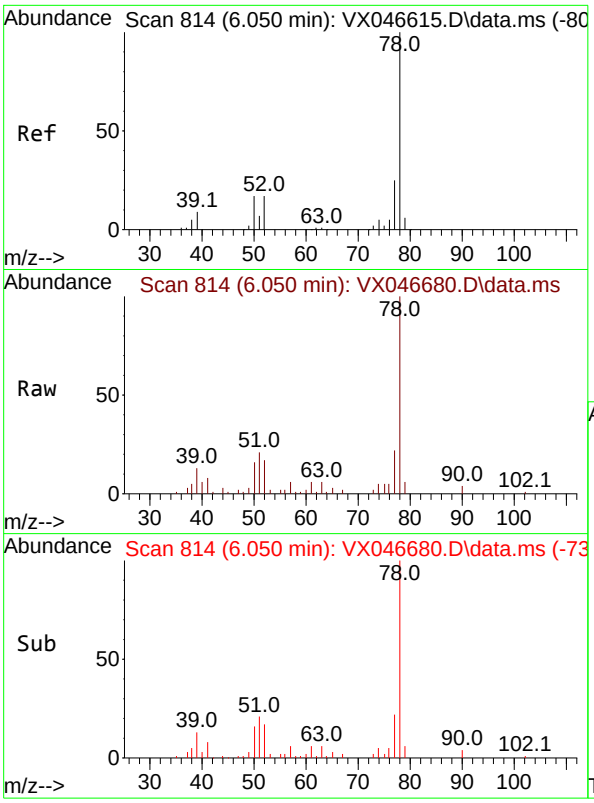


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.775 min Scan# 933
Delta R.T. 0.006 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion:114 Resp: 86832

Ion	Ratio	Lower	Upper
114	100		
63	22.4	18.1	27.1
88	17.2	14.1	21.1



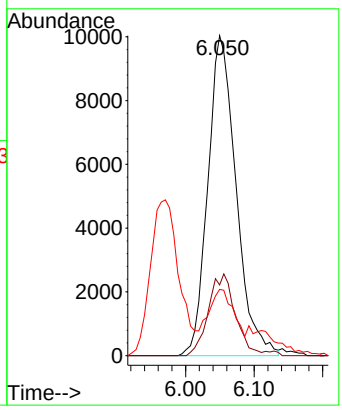


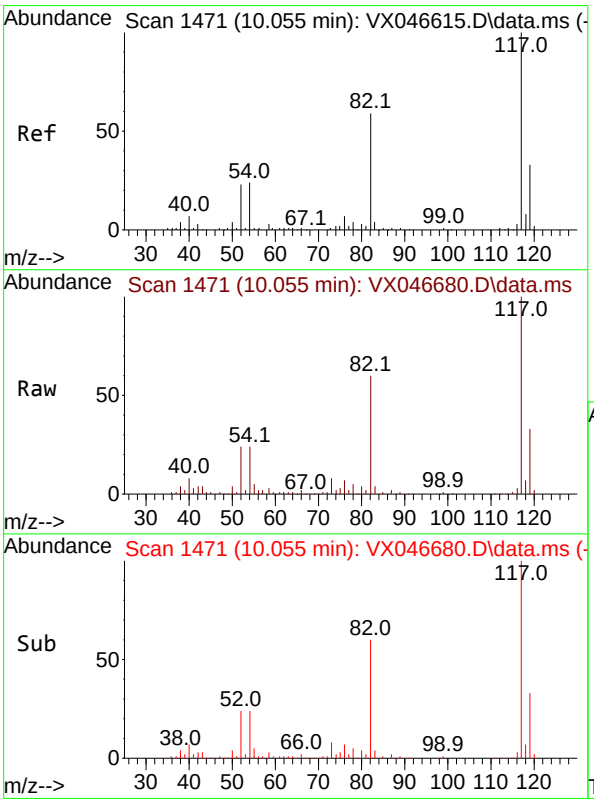
#34
Benzene
Concen: 7.149 ug/l
RT: 6.050 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion: 78 Resp: 28695

Ion	Ratio	Lower	Upper
78	100		
77	22.1	19.8	29.8
51	16.8	14.7	22.1

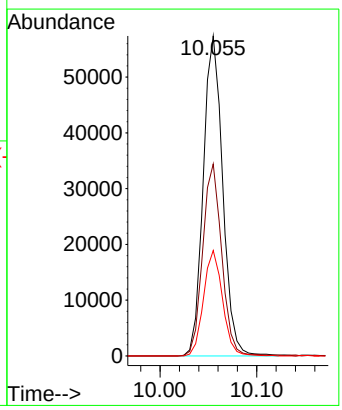


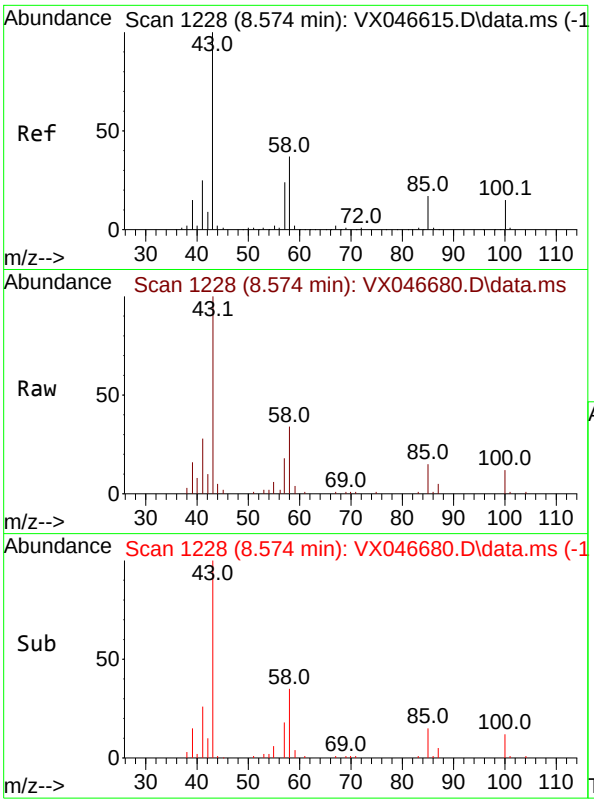


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion:117 Resp: 80444

Ion	Ratio	Lower	Upper
117	100		
82	58.6	46.5	69.7
119	32.2	25.8	38.6



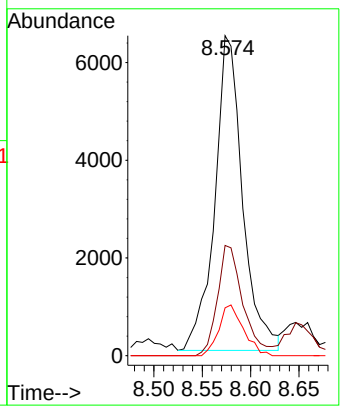


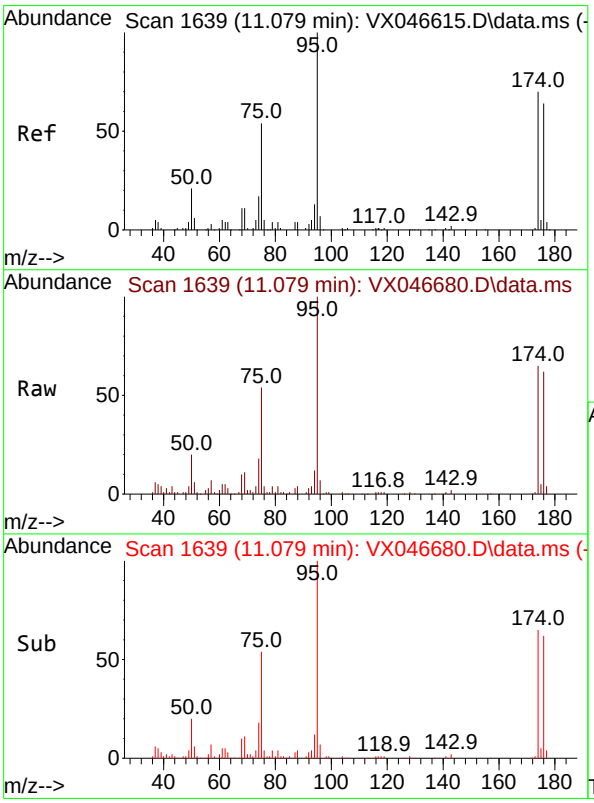
#58
4-Methyl-2-Pentanone
Concen: 9.816 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion: 43 Resp: 12844

Ion	Ratio	Lower	Upper
43	100		
58	32.2	29.4	44.2
85	14.3	13.3	19.9

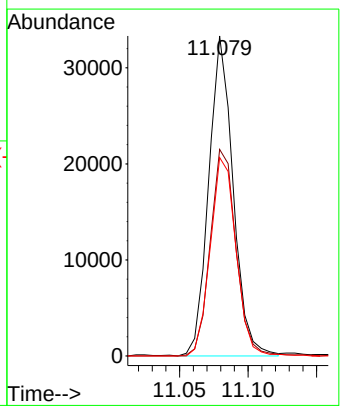


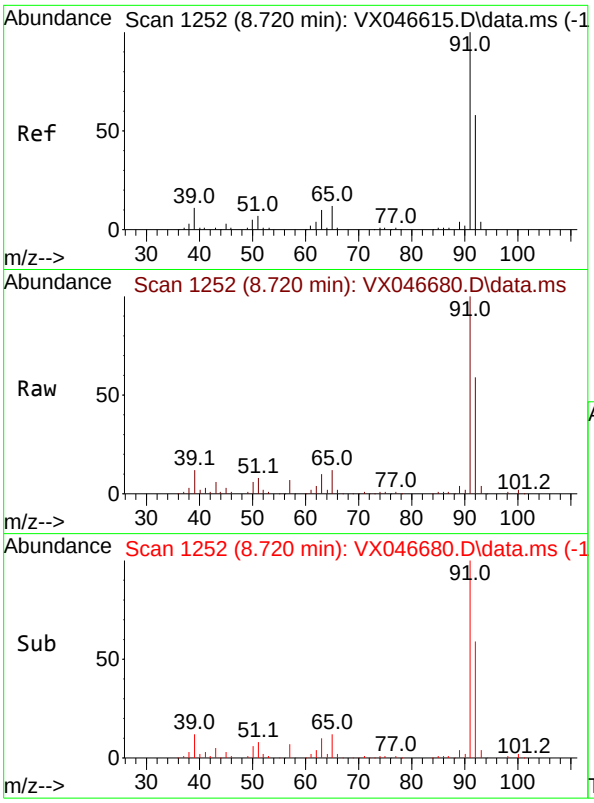


#60
4-Bromofluorobenzene
Concen: 30.374 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 95 Resp: 41185

Ion	Ratio	Lower	Upper
95	100		
174	67.8	56.0	84.0
176	65.5	52.2	78.4



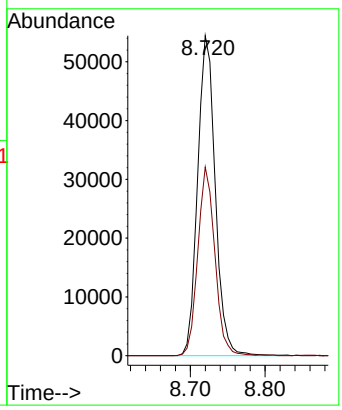


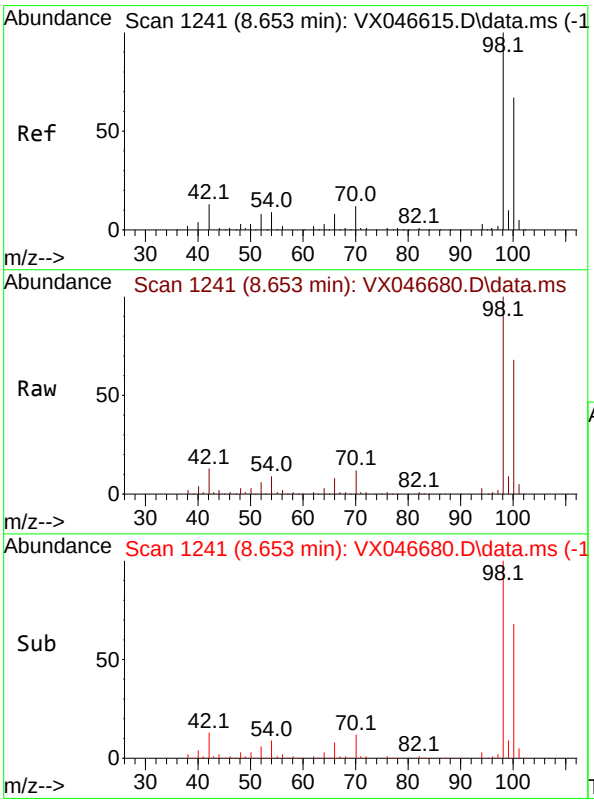
#62
Toluene
Concen: 20.472 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion: 91 Resp: 89250

Ion	Ratio	Lower	Upper
91	100		
92	57.1	46.8	70.2

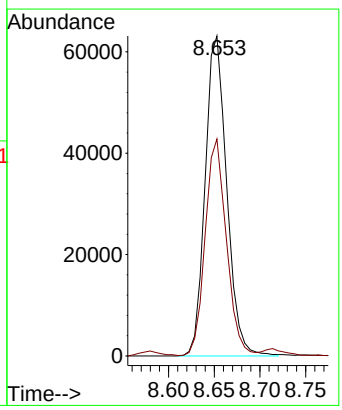


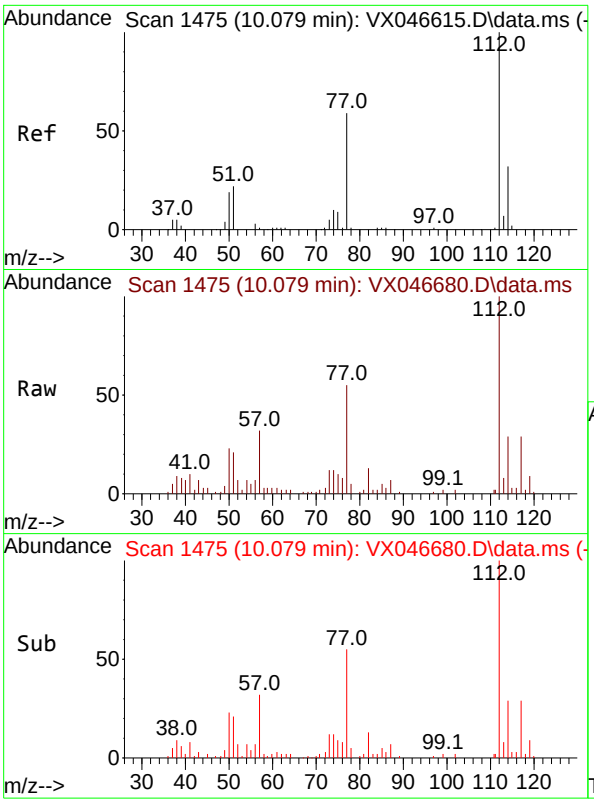


#63
Toluene-d8
Concen: 28.779 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 98 Resp: 103409

Ion	Ratio	Lower	Upper
98	100		
100	67.0	52.6	79.0



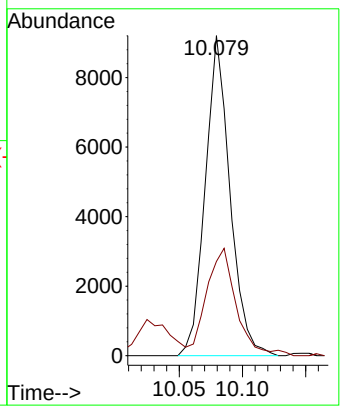


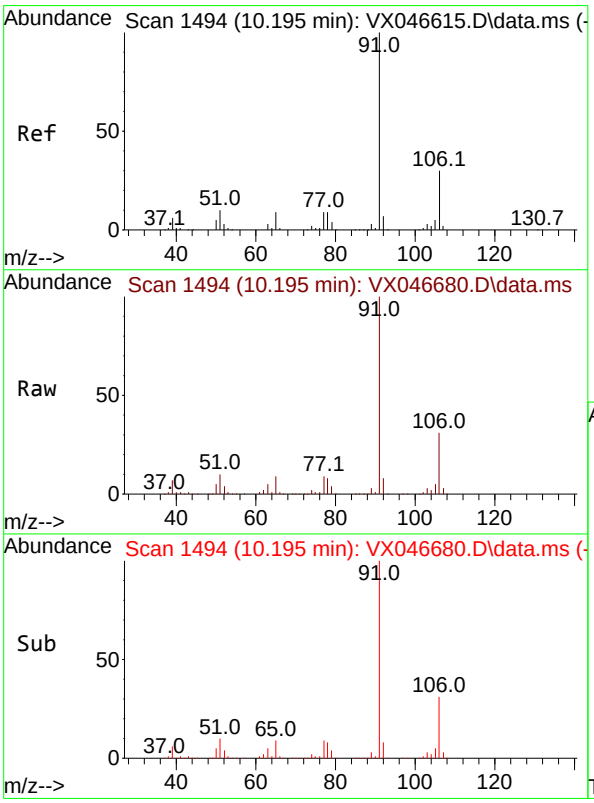
#64
Chlorobenzene
Concen: 4.451 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion:112 Resp: 12516

Ion	Ratio	Lower	Upper
112	100		
114	27.7	25.4	38.0

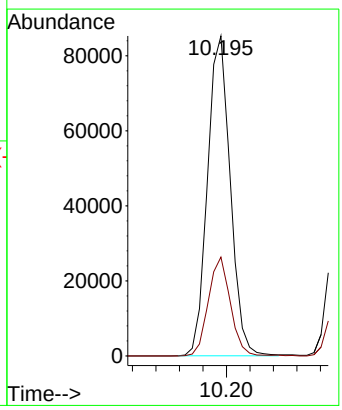


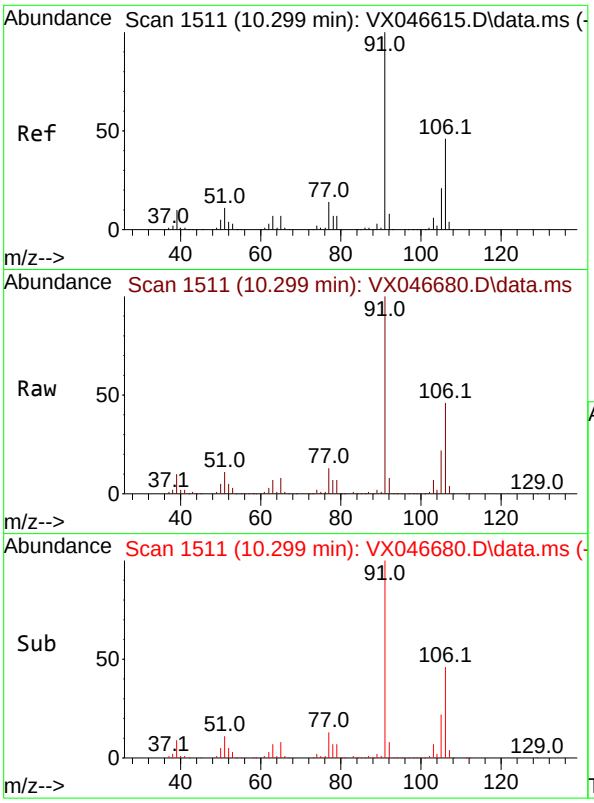


#66
Ethyl Benzene
Concen: 23.010 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 91 Resp: 114539

Ion	Ratio	Lower	Upper
91	100		
106	30.9	23.9	35.9



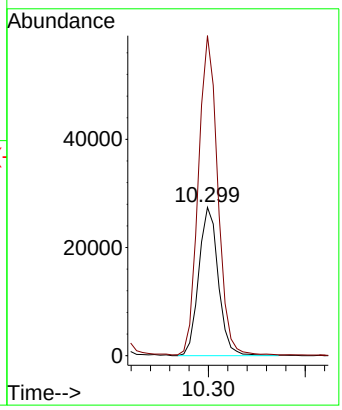


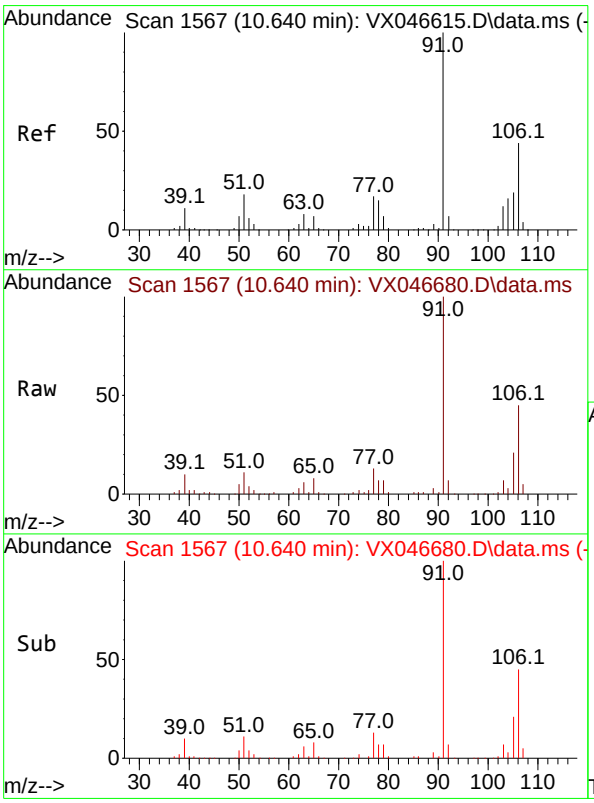
#67
m/p-Xylenes
Concen: 20.967 ug/l
RT: 10.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion:106 Resp: 38605

Ion	Ratio	Lower	Upper
106	100		
91	213.5	171.5	257.3

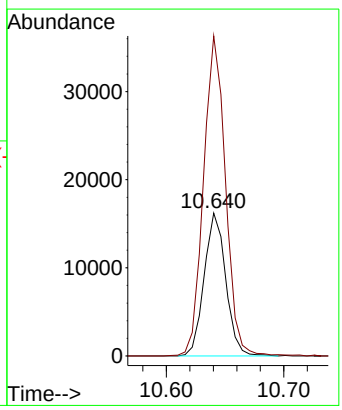


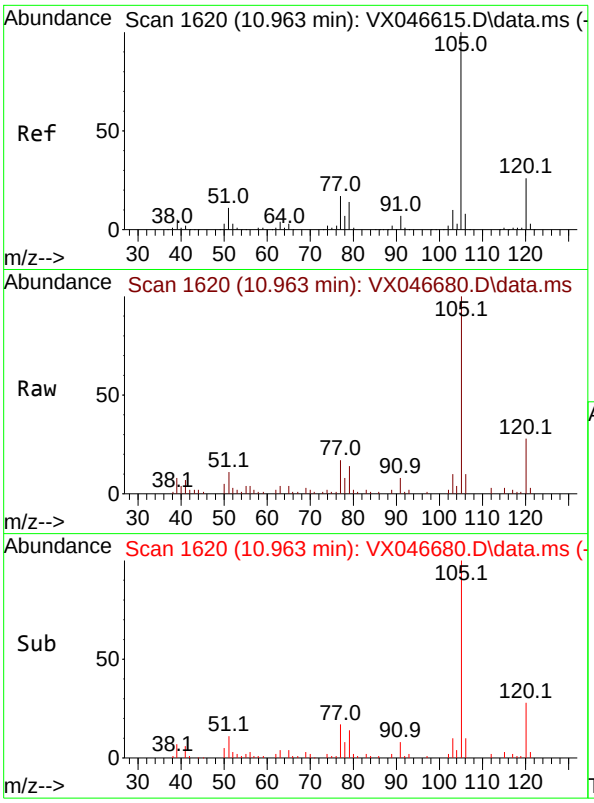


#68
o-Xylene
Concen: 11.697 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion:106 Resp: 20737

Ion	Ratio	Lower	Upper
106	100		
91	227.2	112.3	336.9



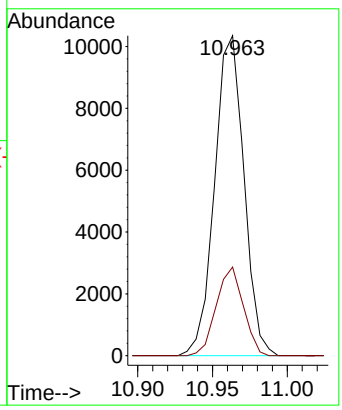


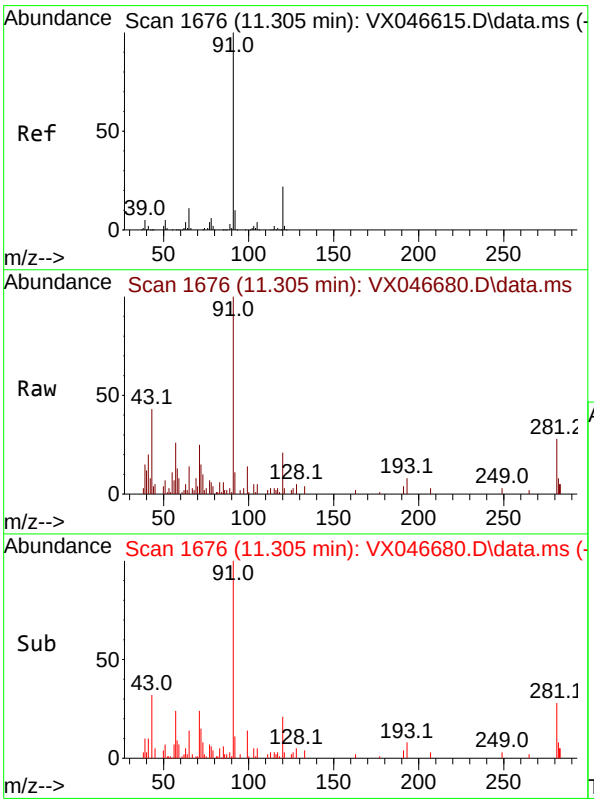
#70
Isopropylbenzene
Concen: 2.966 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion:105 Resp: 14112

Ion	Ratio	Lower	Upper
105	100		
120	25.6	18.1	33.5

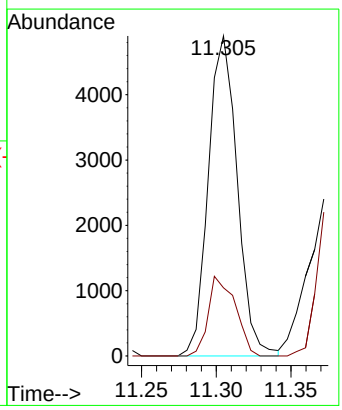


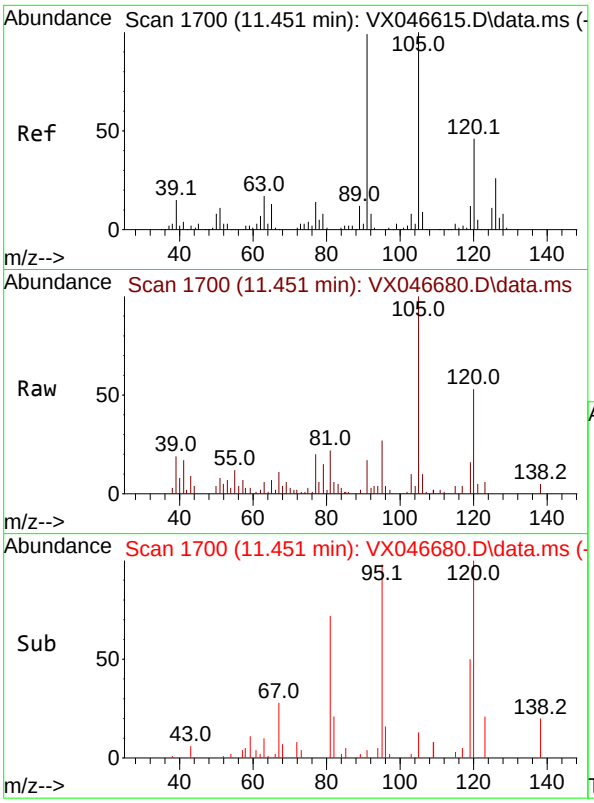


#74
n-propylbenzene
Concen: 1.159 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion: 91 Resp: 6594

Ion	Ratio	Lower	Upper
91	100		
120	23.3	0.0	43.8



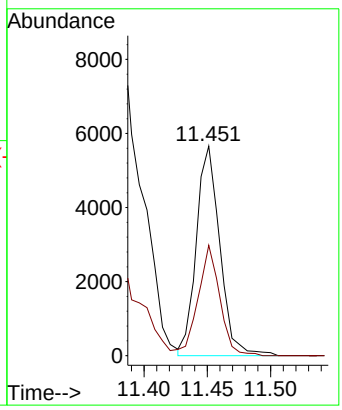


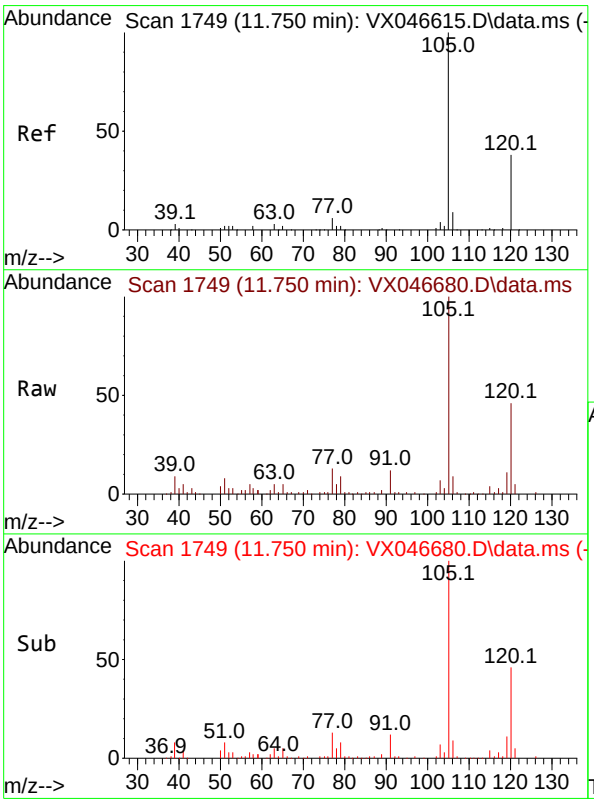
#76
1,3,5-Trimethylbenzene
Concen: 1.858 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion:105 Resp: 7346

Ion	Ratio	Lower	Upper
105	100		
120	49.0	0.0	92.8

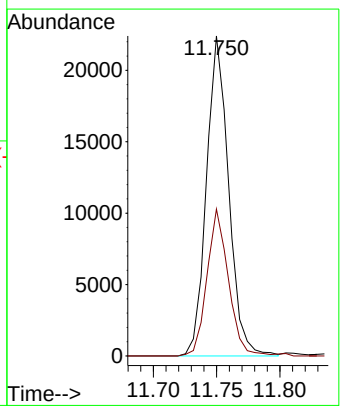


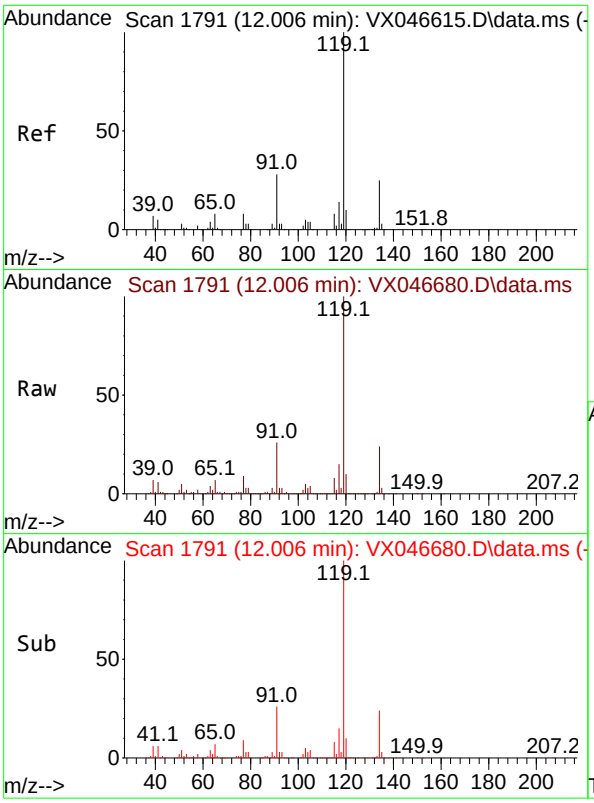


#80
1,2,4-Trimethylbenzene
Concen: 7.003 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion:105 Resp: 27339

Ion	Ratio	Lower	Upper
105	100		
120	44.2	0.0	89.6



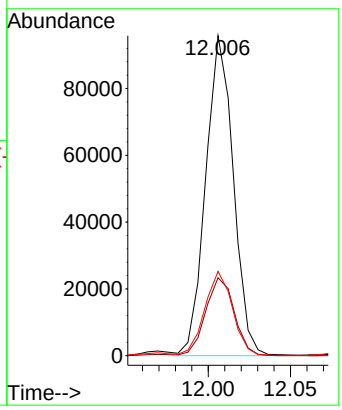


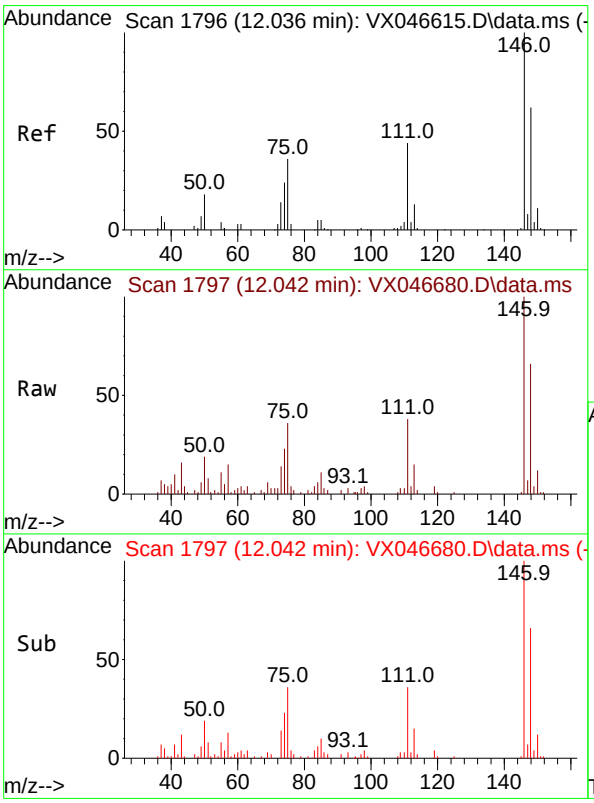
#82
p-Isopropyltoluene
Concen: 27.006 ug/l
RT: 12.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion:119 Resp: 111816

Ion	Ratio	Lower	Upper
119	100		
134	25.2	0.0	50.0
91	26.0	0.0	54.0

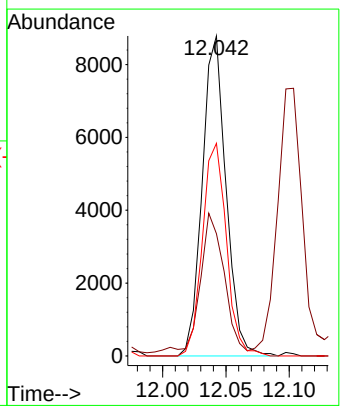


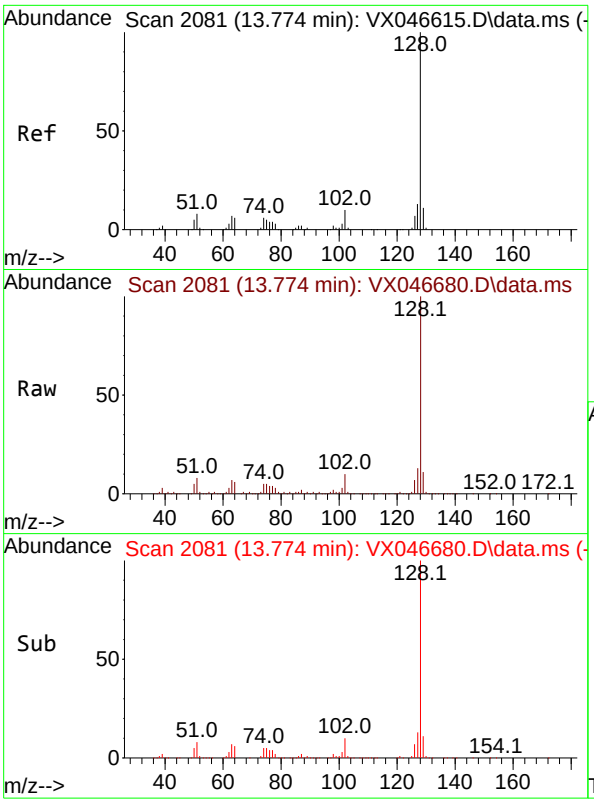


#84
1,4-Dichlorobenzene
Concen: 5.511 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Tgt Ion:146 Resp: 11505

Ion	Ratio	Lower	Upper
146	100		
111	44.8	21.3	63.7
148	67.0	31.4	94.3



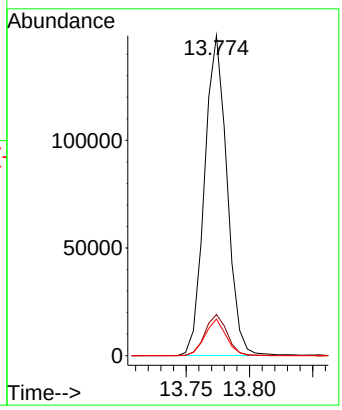


#91
Naphthalene
Concen: 43.838 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046680.D
Acq: 13 Jun 2025 11:37

Instrument :
MSVOA_X
ClientSampleId :
250611078-02-VOA

Tgt Ion:128 Resp: 183119

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	10.9	8.8	13.2



Raw Data: **VX046679.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:	06/11/25
Project:	Waste Water 2025	Date Received:	06/12/25
Client Sample ID:	250611056-09-TRIP-BLANK	SDG No.:	Q2302
Lab Sample ID:	Q2302-02	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046679.D	1		06/13/25 11:15	VX061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	6.60	UQ	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	32.1		91 - 110	107%	SPK: 30
2037-26-5	Toluene-d8	28.3		91 - 112	94%	SPK: 30
460-00-4	4-Bromofluorobenzene	27.9		63 - 112	93%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	16300	4.91			
540-36-3	1,4-Difluorobenzene	91100	6.769			
3114-55-4	Chlorobenzene-d5	85700	10.055			

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_X\Data\VX061325\
Data File : VX046679.D
Acq On : 13 Jun 2025 11:15
Operator : JC/MD
Sample : Q2302-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
250611056-09-TRIP-BLANK

Quant Time: Jun 13 23:02:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.910	128	16270	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	91078	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	85692	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	42261	32.088	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.967%			
60) 4-Bromofluorobenzene	11.079	95	40335	27.926	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.100%			
63) Toluene-d8	8.647	98	108466	28.338	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.467%			
Target Compounds						Qvalue

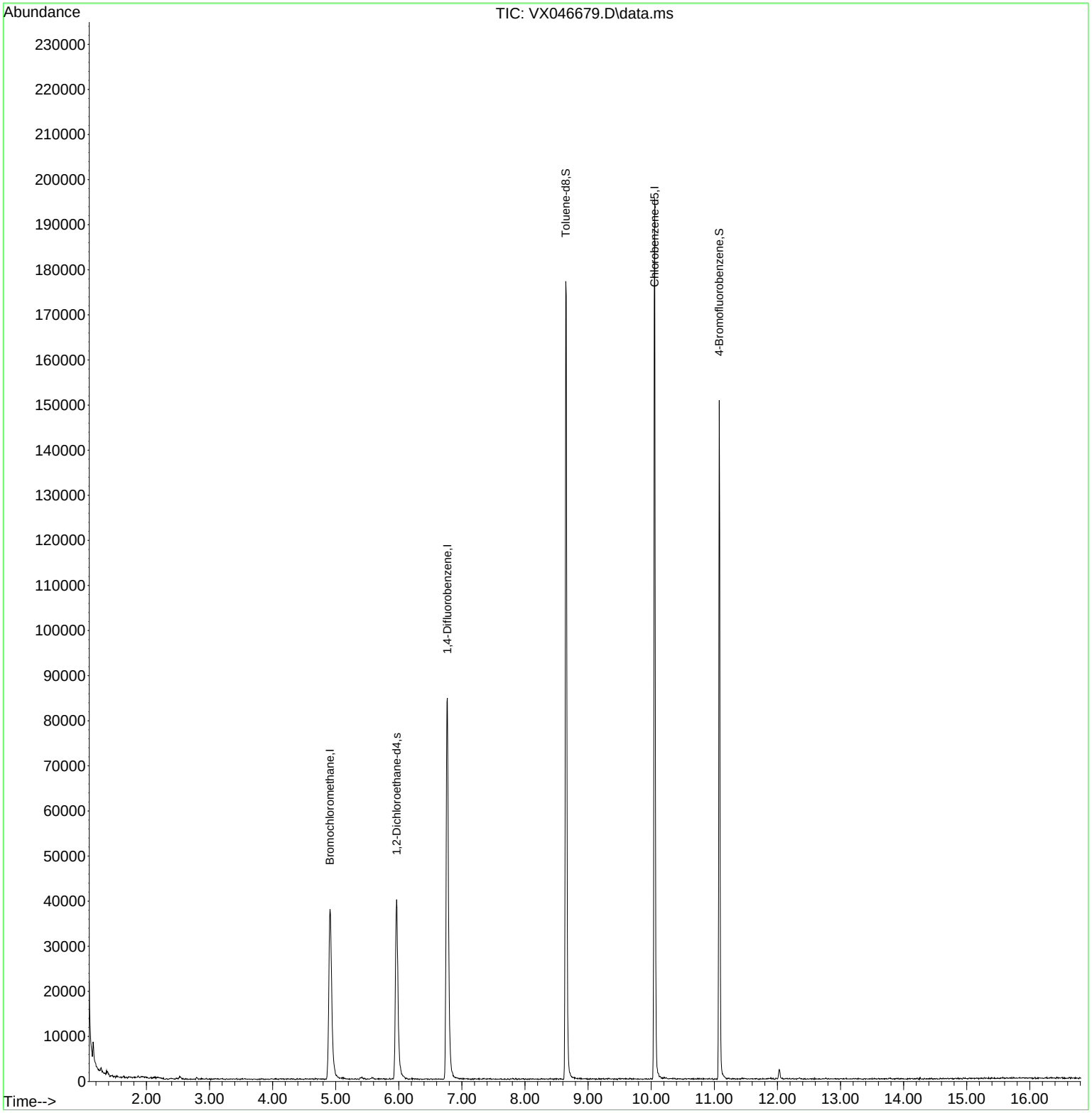
(#) = qualifier out of range (m) = manual integration (+) = signals summed

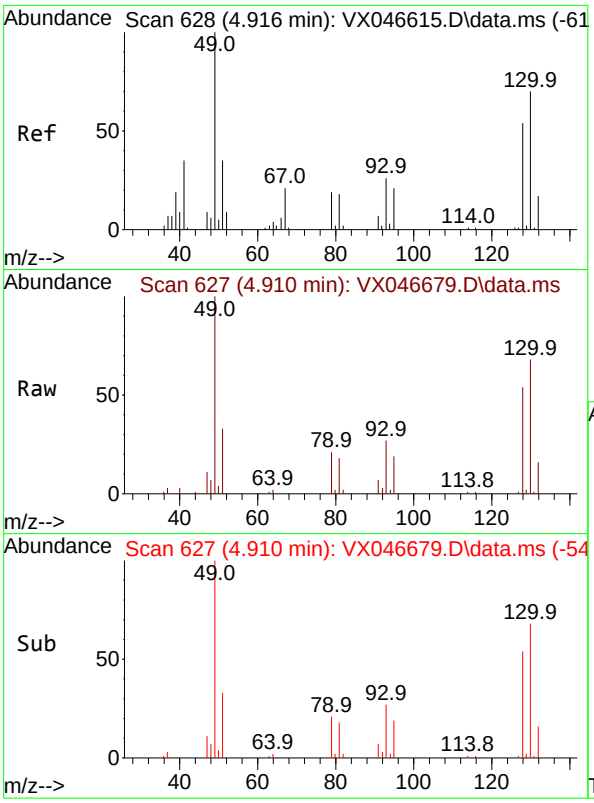
Sample Results: **VX046679.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046679.D
Acq On : 13 Jun 2025 11:15
Operator : JC/MD
Sample : Q2302-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
250611056-09-TRIP-BLANK

Quant Time: Jun 13 23:02:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration



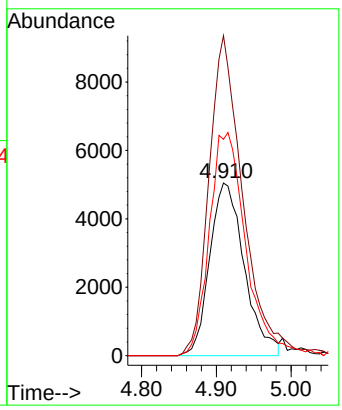


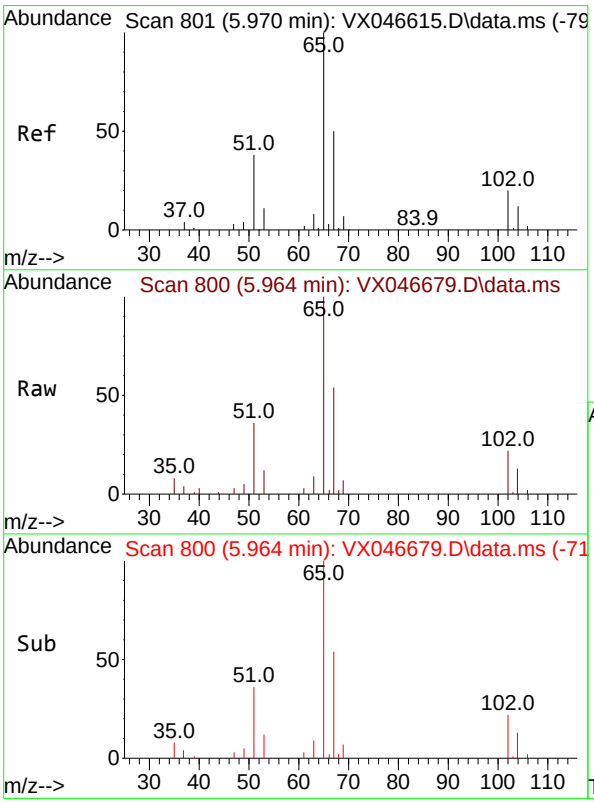
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX046679.D
Acq: 13 Jun 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
250611056-09-TRIP-BLANK

Tgt Ion:128 Resp: 16270

Ion	Ratio	Lower	Upper
128	100		
49	180.7	0.0	448.3
130	136.1	0.0	312.0

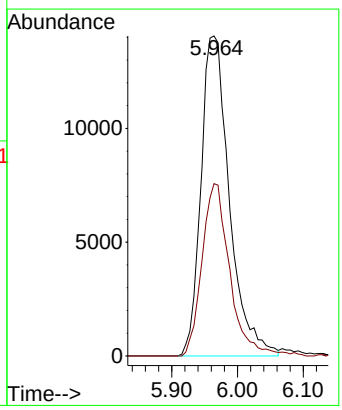


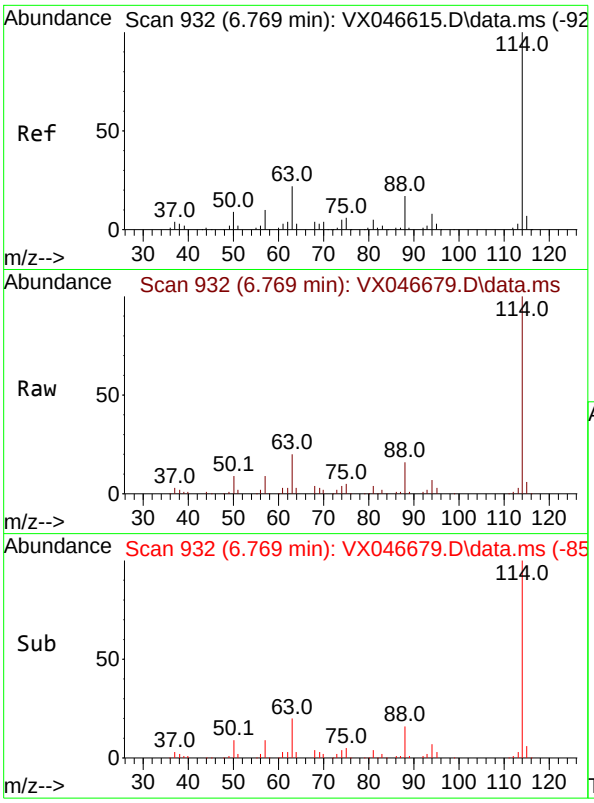


#27
1,2-Dichloroethane-d4
Concen: 32.088 ug/l
RT: 5.964 min Scan# 800
Delta R.T. -0.006 min
Lab File: VX046679.D
Acq: 13 Jun 2025 11:15

Tgt Ion: 65 Resp: 42261

Ion	Ratio	Lower	Upper
65	100		
67	52.1	41.4	62.2



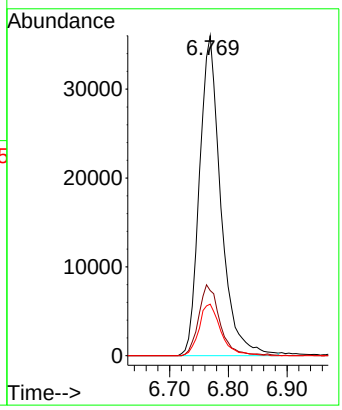


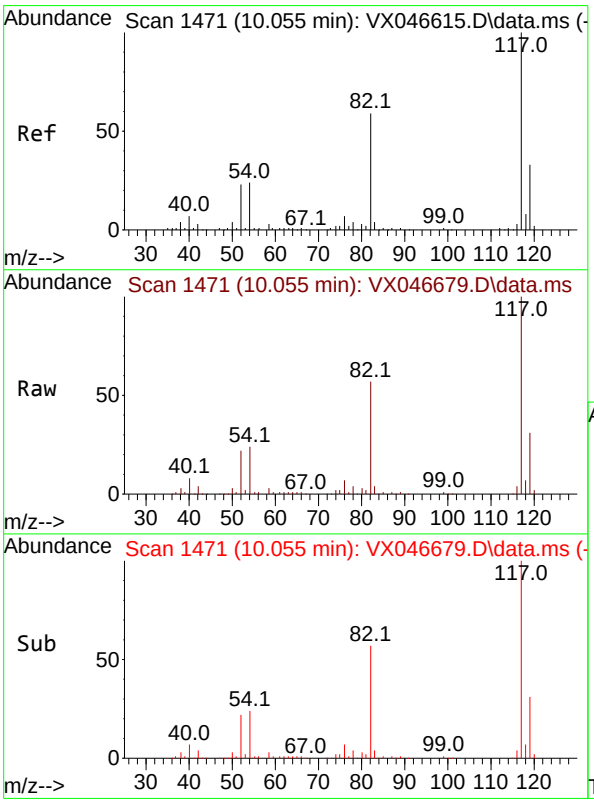
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046679.D
Acq: 13 Jun 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
250611056-09-TRIP-BLANK

Tgt Ion:114 Resp: 91078

Ion	Ratio	Lower	Upper
114	100		
63	21.6	18.1	27.1
88	16.0	14.1	21.1

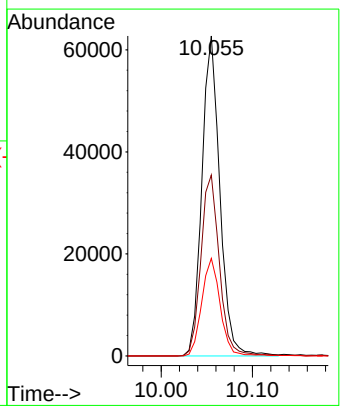


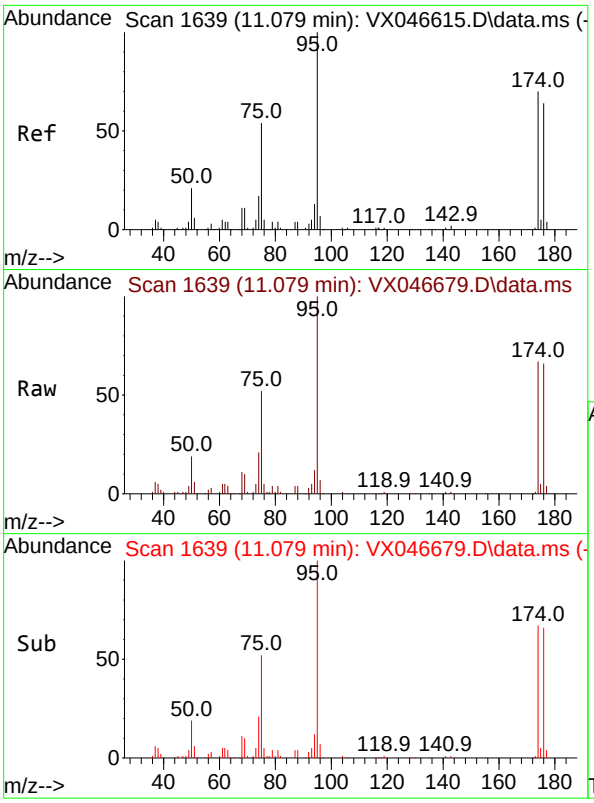


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046679.D
Acq: 13 Jun 2025 11:15

Tgt Ion:117 Resp: 85692

Ion	Ratio	Lower	Upper
117	100		
82	57.7	46.5	69.7
119	31.0	25.8	38.6



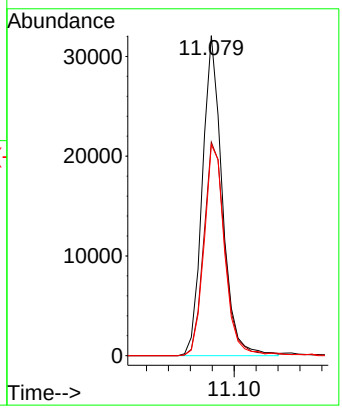


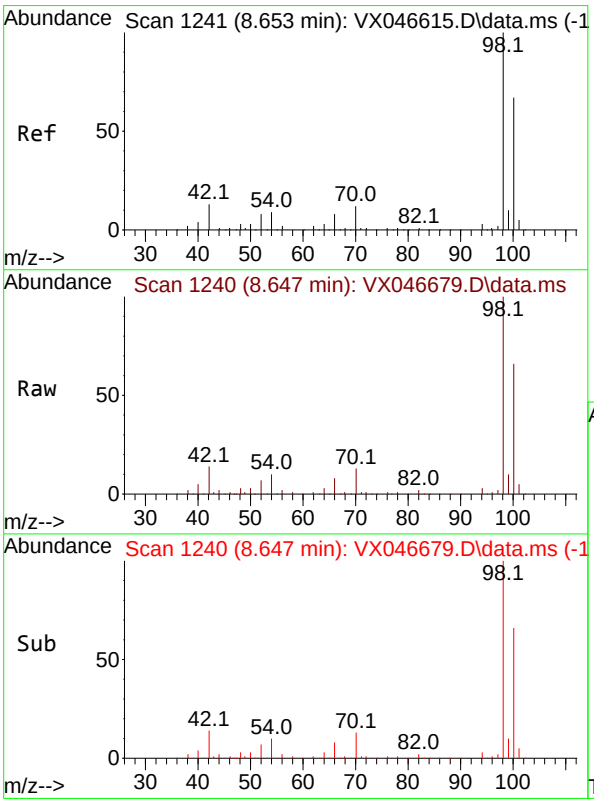
#60
4-Bromofluorobenzene
Concen: 27.926 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046679.D
Acq: 13 Jun 2025 11:15

Instrument :
MSVOA_X
ClientSampleId :
250611056-09-TRIP-BLANK

Tgt Ion: 95 Resp: 40335

Ion	Ratio	Lower	Upper
95	100		
174	71.6	56.0	84.0
176	67.8	52.2	78.4

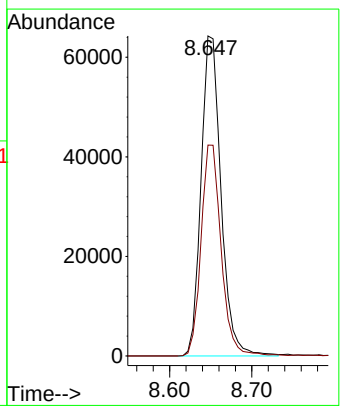




#63
Toluene-d8
Concen: 28.338 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX046679.D
Acq: 13 Jun 2025 11:15

Tgt Ion: 98 Resp: 108466

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.6	79.0



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2302 SAS No.: Q2302 SDG No.: Q2302

Instrument ID: MSVOA_X Calibration Date(s): 06/10/2025 06/10/2025

Heated Purge: (Y/N) N Calibration Time(s): 20:19 21:44

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF005 = VX046614.D RRF020 = VX046615.D RRF050 = VX046616.D
RRF100 = VX046617.D RRF150 = VX046618.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Acrolein	0.228	0.207	0.189	0.261	0.221		0.221	12.2
Acrylonitrile	0.972	0.976	0.832	0.985	0.873		0.928	7.5
1,2-Dichloroethane-d4	2.549	2.442	2.160	2.504	2.486		2.428	6.4
Toluene-d8	1.359	1.354	1.307	1.342	1.337		1.340	1.5
4-Bromofluorobenzene	0.515	0.506	0.505	0.497	0.505		0.506	1.2

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

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 624X061025W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Wed Jun 11 06:20:28 2025
Response Via : Initial Calibration

Calibration Files
5 =VX046614.D 20 =VX046615.D 50 =VX046616.D 100 =VX046617.D 150 =VX046618.D

		Compound	5	20	50	100	150	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	M	Dichlorodifluoro...	1.938	2.037	1.917	2.061	1.799	1.950	5.37
3)	M	Chloromethane	2.074	2.119	1.934	2.075	1.846	2.010	5.74
4)	M	Vinyl Chloride	1.964	2.039	1.866	2.045	1.772	1.937	6.05
5)	M	Bromomethane	1.292	1.283	1.129	1.091	0.990	1.157	11.20
6)	M	Chloroethane	1.143	1.108	1.106	1.162	1.046	1.113	3.99
7)	M	Trichlorofluorom...	2.825	2.970	2.572	2.960	2.547	2.775	7.37
8)	T	Diethyl Ether	1.052	1.034	0.828	1.024	0.924	0.972	9.75
9)		1,1,2-Trichlorot...	1.957	1.939	1.689	1.916	1.729	1.846	6.87
10)	M	1,1-Dichloroethene	1.851	1.842	1.661	1.911	1.690	1.791	6.11
11)		Methyl Iodide	2.305	2.520	2.360	2.641	2.382	2.442	5.61
12)		Methyl Acetate	2.402	3.119	1.734	2.182	1.850	2.257	24.34
13)	M	Acrolein	0.228	0.207	0.189	0.261	0.221	0.221	12.19
14)	M	Acrylonitrile	0.972	0.976	0.832	0.985	0.873	0.928	7.54
15)	M	Acetone	0.210	0.221	0.198	0.231	0.200	0.212	6.57
16)	M	Carbon Disulfide	4.793	5.206	4.642	5.359	4.843	4.969	6.06
17)		Allyl chloride	3.327	3.381	2.928	3.483	3.128	3.249	6.81
18)	M	Methylene Chloride	2.161	2.078	1.819	2.024	1.799	1.976	8.10
19)	M	trans-1,2-Dichlo...	1.935	1.920	1.756	1.939	1.731	1.856	5.58
20)	T	Diisopropyl ether	6.089	6.535	5.660	6.592	5.862	6.147	6.66
21)	M	1,1-Dichloroethane	3.710	3.704	3.211	3.694	3.291	3.522	7.07
22)	M	cis-1,2-Dichloro...	2.201	2.288	2.041	2.261	2.029	2.164	5.64
23)	M	tert-Butyl Alcohol	0.182	0.185	0.167	0.211	0.192	0.187	8.57
24)	M	Methyl tert-Buty...	5.273	5.726	5.109	5.977	5.269	5.471	6.67
25)	M	Chloroform	3.918	3.837	3.244	3.783	3.345	3.625	8.49
26)		Cyclohexane	3.367	3.389	2.899	3.406	3.008	3.214	7.51
27)	s	1,2-Dichloroetha...	2.549	2.442	2.160	2.504	2.486	2.428	6.37
28)	I	1,4-Difluorobenzene	----------ISTD----------						
29)		1,1-Dichloropropene	0.496	0.515	0.431	0.484	0.433	0.472	8.09
30)	M	2-Butanone	0.207	0.225	0.201	0.223	0.196	0.210	6.14
31)		2,2-Dichloropropane	0.428	0.439	0.396	0.441	0.392	0.419	5.69
32)	M	1,1,1-Trichloroe...	0.599	0.628	0.537	0.613	0.539	0.583	7.31
33)	M	Carbon Tetrachlo...	0.524	0.556	0.490	0.542	0.477	0.518	6.49
34)	M	Benzene	1.464	1.500	1.310	1.415	1.244	1.387	7.72
35)		Methacrylonitrile	0.246	0.266	0.255	0.278	0.245	0.258	5.46
36)	M	1,2-Dichloroethane	0.570	0.582	0.468	0.536	0.467	0.525	10.41
37)	M	Trichloroethene	0.375	0.366	0.339	0.352	0.308	0.348	7.49
38)		Methylcyclohexane	0.584	0.627	0.593	0.624	0.568	0.599	4.24
39)	M	1,2-Dichloropropane	0.361	0.369	0.334	0.352	0.314	0.346	6.39
40)		Dibromomethane	0.279	0.278	0.246	0.260	0.230	0.259	8.11
41)	M	Bromodichloromet...	0.526	0.576	0.504	0.548	0.480	0.527	7.06
42)	M	Vinyl Acetate	0.855	0.868	0.896	1.019	0.901	0.908	7.18
43)		Ethyl Acetate	0.436	0.471	0.420	0.478	0.423	0.446	6.14
44)		Isopropyl Acetate	0.655	0.716	0.628	0.789	0.696	0.697	8.91
45)	T	1,4-Dioxane	0.004	0.005	0.004	0.005	0.004	0.004	6.70
46)		Methyl methacrylate	0.354	0.408	0.360	0.414	0.365	0.380	7.50
47)		n-amyl Acetate	0.571	0.565	0.681	0.687	0.613	0.623	9.38
48)	M	t-1,3-Dichloropr...	0.444	0.475	0.463	0.517	0.463	0.472	5.78
49)	T	cis-1,3-Dichloro...	0.503	0.547	0.515	0.566	0.505	0.527	5.33
50)	M	1,1,2-Trichloroe...	0.341	0.352	0.322	0.324	0.291	0.326	7.11
51)		Ethyl methacrylate	0.454	0.517	0.497	0.536	0.473	0.496	6.65
52)		1,3-Dichloropropane	0.580	0.623	0.559	0.569	0.508	0.568	7.30
53)	M	Dibromochloromet...	0.375	0.406	0.388	0.398	0.354	0.384	5.34
54)	M	1,2-Dibromoethane	0.362	0.362	0.340	0.346	0.304	0.343	6.95
55)	M	2-Chloroethyl vi...	0.252	0.286	0.268	0.296	0.193	0.259	15.64
56)	M	Bromoform	0.226	0.249	0.241	0.249	0.222	0.237	5.26

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 624X061025W.M

57)	I	Chlorobenzene-d5	----------ISTD----------						
58)	M	4-Methyl-2-Penta...	0.489	0.521	0.452	0.520	0.457	0.488	6.78
59)	M	2-Hexanone	0.327	0.369	0.337	0.365	0.323	0.344	6.26
60)	S	4-Bromofluoroben...	0.515	0.506	0.505	0.497	0.505	0.506	1.22
61)	M	Tetrachloroethene	0.346	0.332	0.299	0.312	0.283	0.314	8.04
62)	M	Toluene	1.663	1.749	1.544	1.682	1.492	1.626	6.47
63)	S	Toluene-d8	1.359	1.354	1.307	1.342	1.337	1.340	1.51
64)	M	Chlorobenzene	1.106	1.099	1.014	1.067	0.957	1.049	5.96
65)		1,1,1,2-Tetrachl...	0.348	0.370	0.348	0.366	0.326	0.351	5.01
66)	M	Ethyl Benzene	1.878	1.964	1.821	1.919	1.700	1.856	5.49
67)	M	m/p-Xylenes	0.688	0.734	0.681	0.704	0.626	0.687	5.73
68)	M	o-Xylene	0.665	0.703	0.652	0.676	0.610	0.661	5.17
69)	M	Styrene	1.121	1.225	1.110	1.167	1.043	1.133	5.96
70)		Isopropylbenzene	1.841	1.878	1.745	1.795	1.612	1.774	5.83
71)	M	1,1,2,2-Tetrachl...	0.571	0.565	0.502	0.513	0.456	0.521	9.12
72)		1,2,3-Trichlorop...	0.465	0.466	0.423	0.434	0.388	0.435	7.48
73)		Bromobenzene	0.447	0.435	0.402	0.420	0.375	0.416	6.83
74)		n-propylbenzene	2.146	2.267	2.103	2.165	1.926	2.122	5.88
75)		2-Chlorotoluene	1.335	1.363	1.235	1.279	1.139	1.270	6.96
76)		1,3,5-Trimethylb...	1.536	1.580	1.447	1.489	1.319	1.474	6.78
77)		t-1,4-Dichloro-2...	0.132	0.145	0.144	0.164	0.150	0.147	7.86
78)		4-Chlorotoluene	1.528	1.596	1.430	1.472	1.321	1.469	7.07
79)		tert-butylbenzene	1.519	1.569	1.436	1.502	1.325	1.470	6.40
80)		1,2,4-Trimethylb...	1.493	1.565	1.423	1.482	1.317	1.456	6.37
81)		sec-Butylbenzene	1.963	2.011	1.841	1.893	1.699	1.881	6.43
82)		p-Isopropyltoluene	1.559	1.660	1.527	1.564	1.411	1.544	5.80
83)	M	1,3-Dichlorobenzene	0.833	0.825	0.753	0.768	0.691	0.774	7.49
84)	M	1,4-Dichlorobenzene	0.850	0.837	0.745	0.766	0.695	0.779	8.31
85)		n-Butylbenzene	1.513	1.603	1.461	1.499	1.362	1.488	5.88
86)	T	Hexachloroethane	0.267	0.279	0.262	0.283	0.250	0.268	5.01
87)	M	1,2-Dichlorobenzene	0.808	0.799	0.721	0.740	0.656	0.745	8.32
88)		1,2-Dibromo-3-Ch...	0.101	0.112	0.106	0.116	0.102	0.108	6.14
89)		1,2,4-Trichlorob...	0.490	0.516	0.473	0.516	0.460	0.491	5.12
90)		Hexachlorobutadiene	0.230	0.228	0.209	0.215	0.199	0.216	5.96
91)	M	Naphthalene	1.505	1.617	1.534	1.649	1.484	1.558	4.61
92)		1,2,3-Trichlorob...	0.485	0.511	0.464	0.504	0.446	0.482	5.62

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046614.D
Acq On : 10 Jun 2025 20:19
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 05:56:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	4.916	128	20339	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	6.769	114	108711	30.000	ug/l		0.00
57) Chlorobenzene-d5	10.055	117	100056	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	5.964	65	51846	27.060	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 90.200%#				
60) 4-Bromofluorobenzene	11.079	95	51515	28.084	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.600%				
63) Toluene-d8	8.653	98	135945	25.528	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 85.100%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.179	85	6570	3.970	ug/l		99
3) Chloromethane	1.307	50	7029	3.631	ug/l		97
4) Vinyl Chloride	1.386	62	6659	3.553	ug/l		100
5) Bromomethane	1.624	94	4379	5.987	ug/l		86
6) Chloroethane	1.703	64	3876	3.884	ug/l		96
7) Trichlorofluoromethane	1.904	101	9576	3.737	ug/l		96
8) Diethyl Ether	2.148	74	3565m	3.737	ug/l		
9) 1,1,2-Trichlorotrifluo...	2.349	101	6635	4.287	ug/l		97
10) 1,1-Dichloroethene	2.331	96	6274	4.171	ug/l		93
11) Methyl Iodide	2.465	142	7812	4.351	ug/l		97
12) Methyl Acetate	2.715	43	8141	4.326	ug/l		99
13) Acrolein	2.246	56	3864m	11.944	ug/l		
14) Acrylonitrile	3.075	53	16477	19.615	ug/l		96
15) Acetone	2.392	58	3564	16.008	ug/l		95
16) Carbon Disulfide	2.526	76	16246	3.799	ug/l		97
17) Allyl chloride	2.685	41	11278	4.010	ug/l		94
18) Methylene Chloride	2.807	84	7325	4.352	ug/l		98
19) trans-1,2-Dichloroethene	3.111	96	6558	4.296	ug/l		96
20) Diisopropyl ether	3.782	45	20640	3.834	ug/l		96
21) 1,1-Dichloroethane	3.623	63	12577	4.190	ug/l		97
22) cis-1,2-Dichloroethene	4.507	96	7461	4.085	ug/l		97
23) tert-Butyl Alcohol	2.965	59	3079	11.259	ug/l	#	100
24) Methyl tert-Butyl Ether	3.130	73	17874	3.672	ug/l		99
25) Chloroform	5.105	83	13281	4.539	ug/l		93
26) Cyclohexane	5.483	56	11414	4.131	ug/l	#	97
29) 1,1-Dichloropropene	5.702	75	8995m	4.533	ug/l		
30) 2-Butanone	4.574	43	18746	17.149	ug/l	#	95
31) 2,2-Dichloropropane	4.495	77	7756	3.602	ug/l		95
32) 1,1,1-Trichloroethane	5.398	97	10859m	4.503	ug/l		
33) Carbon Tetrachloride	5.684	117	9491	4.628	ug/l		98
34) Benzene	6.050	78	26529	4.329	ug/l		99
35) Methacrylonitrile	4.934	41	4456	3.751	ug/l		90
36) 1,2-Dichloroethane	6.111	62	10321	4.805	ug/l		96
37) Trichloroethene	7.135	130	6787	4.704	ug/l		94
38) Methylcyclohexane	7.391	83	10589	4.024	ug/l		99
39) 1,2-Dichloropropane	7.440	63	6540m	4.306	ug/l		
40) Dibromomethane	7.592	93	5059	4.591	ug/l		97
41) Bromodichloromethane	7.824	83	9535	4.313	ug/l	#	96
42) Vinyl Acetate	3.739	43	77412	18.221	ug/l		98

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046614.D
Acq On : 10 Jun 2025 20:19
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 05:56:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Ethyl Acetate	4.739	43	7901	3.772	ug/l	#	93
44) Isopropyl Acetate	6.361	43	11865	3.470	ug/l		98
45) 1,4-Dioxane	7.678	88	1577	47.827	ug/l	#	66
46) Methyl methacrylate	7.702	41	6418m	3.745	ug/l		
47) n-amyl Acetate	10.848	43	10344	3.541	ug/l		99
48) t-1,3-Dichloropropene	8.988	75	8052	3.828	ug/l		97
49) cis-1,3-Dichloropropene	8.373	75	9107	3.855	ug/l		95
50) 1,1,2-Trichloroethane	9.153	97	6180	4.347	ug/l		92
51) Ethyl methacrylate	9.122	69	8230	3.665	ug/l		95
52) 1,3-Dichloropropane	9.311	76	10513	4.209	ug/l		99
53) Dibromochloromethane	9.519	129	6791	4.264	ug/l		97
54) 1,2-Dibromoethane	9.616	107	6561m	4.514	ug/l		
55) 2-Chloroethyl vinyl ether	8.245	63	22805	19.690	ug/l		99
56) Bromoform	10.799	173	4103	4.083	ug/l		98
58) 4-Methyl-2-Pentanone	8.574	43	40811	18.799	ug/l		98
59) 2-Hexanone	9.433	43	27294	17.430	ug/l		99
61) Tetrachloroethene	9.275	164	5776	4.781	ug/l		93
62) Toluene	8.720	91	27732	4.271	ug/l		99
64) Chlorobenzene	10.080	112	18438	4.574	ug/l		98
65) 1,1,1,2-Tetrachloroethane	10.165	131	5797	4.329	ug/l		98
66) Ethyl Benzene	10.195	91	31311	4.369	ug/l		95
67) m/p-Xylenes	10.305	106	22936	8.659	ug/l		97
68) o-Xylene	10.640	106	11097	4.286	ug/l		99
69) Styrene	10.659	104	18699	4.280	ug/l		99
70) Isopropylbenzene	10.964	105	30702	4.557	ug/l		99
71) 1,1,2,2-Tetrachloroethane	11.214	83	9519	4.357	ug/l		99
72) 1,2,3-Trichloropropane	11.238	75	7755m	4.303	ug/l		
73) Bromobenzene	11.201	156	7460	4.799	ug/l		97
74) n-propylbenzene	11.305	91	35787	4.437	ug/l		99
75) 2-Chlorotoluene	11.366	91	22257	4.585	ug/l		99
76) 1,3,5-Trimethylbenzene	11.451	105	25610	4.595	ug/l		100
77) t-1,4-Dichloro-2-butene	11.018	75	2205	3.597	ug/l		73
78) 4-Chlorotoluene	11.457	91	25479	4.653	ug/l		100
79) tert-butylbenzene	11.713	119	25323	4.521	ug/l		99
80) 1,2,4-Trimethylbenzene	11.750	105	24894	4.475	ug/l		98
81) sec-Butylbenzene	11.890	105	32733	4.630	ug/l		99
82) p-Isopropyltoluene	12.006	119	25993	4.517	ug/l		99
83) 1,3-Dichlorobenzene	11.970	146	13898	4.793	ug/l		99
84) 1,4-Dichlorobenzene	12.043	146	14175	4.923	ug/l		98
85) n-Butylbenzene	12.335	91	25235	4.722	ug/l		100
86) Hexachloroethane	12.536	117	4454	4.374	ug/l		96
87) 1,2-Dichlorobenzene	12.335	146	13468	4.757	ug/l		99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1679	3.904	ug/l		95
89) 1,2,4-Trichlorobenzene	13.585	180	8164	4.637	ug/l		99
90) Hexachlorobutadiene	13.725	225	3828	5.291	ug/l		100
91) Naphthalene	13.774	128	25102	4.155	ug/l		98
92) 1,2,3-Trichlorobenzene	13.957	180	8091	4.528	ug/l		99

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

ICAL Form

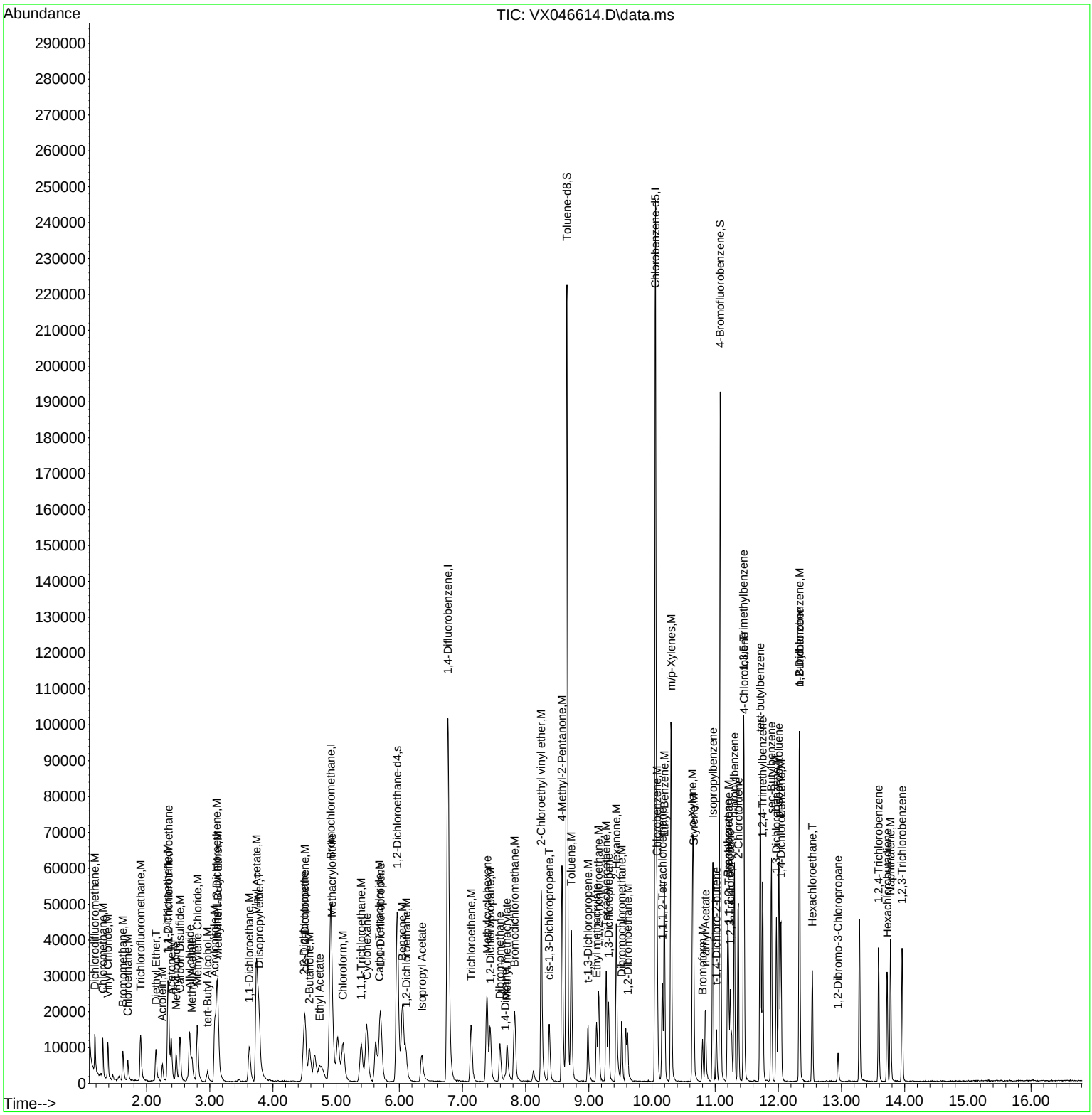
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046614.D
Acq On : 10 Jun 2025 20:19
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 11 05:56:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046615.D
Acq On : 10 Jun 2025 20:40
Operator : JC/MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 05:57:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.916	128	19846	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	104620	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	96769	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	48470	25.927	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 86.433%#			
60) 4-Bromofluorobenzene	11.079	95	48951	27.592	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.967%			
63) Toluene-d8	8.653	98	131066	25.448	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 84.833%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	26946	16.689	ug/l	100
3) Chloromethane	1.307	50	28042	14.844	ug/l	100
4) Vinyl Chloride	1.386	62	26978	14.752	ug/l	100
5) Bromomethane	1.630	94	16981	23.792	ug/l	100
6) Chloroethane	1.703	64	14658	15.053	ug/l	100
7) Trichlorofluoromethane	1.904	101	39293	15.714	ug/l	100
8) Diethyl Ether	2.148	74	13681	14.696	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	25658	16.992	ug/l	100
10) 1,1-Dichloroethene	2.337	96	24368	16.602	ug/l	100
11) Methyl Iodide	2.465	142	33343	19.034	ug/l	100
12) Methyl Acetate	2.715	43	41260	22.468	ug/l	100
13) Acrolein	2.251	56	13684	43.350	ug/l	100
14) Acrylonitrile	3.075	53	64536	78.733	ug/l	100
15) Acetone	2.392	58	14635	67.367	ug/l	100
16) Carbon Disulfide	2.532	76	68876	16.507	ug/l	100
17) Allyl chloride	2.678	41	44732	16.299	ug/l	100
18) Methylene Chloride	2.806	84	27492	16.740	ug/l	100
19) trans-1,2-Dichloroethene	3.111	96	25402	17.055	ug/l	100
20) Diisopropyl ether	3.776	45	86462	16.458	ug/l	100
21) 1,1-Dichloroethane	3.629	63	49010	16.732	ug/l	100
22) cis-1,2-Dichloroethene	4.507	96	30268	16.984	ug/l	100
23) tert-Butyl Alcohol	2.959	59	12258	45.938	ug/l #	100
24) Methyl tert-Butyl Ether	3.129	73	75763	15.953	ug/l	100
25) Chloroform	5.105	83	50765	17.781	ug/l	100
26) Cyclohexane	5.483	56	44838	16.632	ug/l #	100
29) 1,1-Dichloropropene	5.708	75	35945	18.824	ug/l	100
30) 2-Butanone	4.568	43	78333	74.462	ug/l	100
31) 2,2-Dichloropropane	4.495	77	30601	14.766	ug/l	100
32) 1,1,1-Trichloroethane	5.397	97	43830	18.885	ug/l	100
33) Carbon Tetrachloride	5.690	117	38777	19.649	ug/l	100
34) Benzene	6.050	78	104632	17.740	ug/l	100
35) Methacrylonitrile	4.940	41	18569	16.244	ug/l	100
36) 1,2-Dichloroethane	6.098	62	40595	19.638	ug/l	100
37) Trichloroethene	7.135	130	25550	18.401	ug/l	100
38) Methylcyclohexane	7.385	83	43701	17.255	ug/l	100
39) 1,2-Dichloropropane	7.433	63	25723	17.600	ug/l	100
40) Dibromomethane	7.592	93	19378	18.274	ug/l	100
41) Bromodichloromethane	7.824	83	40158	18.873	ug/l	100
42) Vinyl Acetate	3.733	43	302566	74.002	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046615.D
Acq On : 10 Jun 2025 20:40
Operator : JC/MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 05:57:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	32877m	16.308	ug/l	
44) Isopropyl Acetate	6.348	43	49958	15.182	ug/l	100
45) 1,4-Dioxane	7.665	88	6680	210.513	ug/l	100
46) Methyl methacrylate	7.702	41	28485	17.272	ug/l	100
47) n-amyl Acetate	10.841	43	39401	14.016	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	33109	16.357	ug/l	100
49) cis-1,3-Dichloropropene	8.372	75	38153	16.782	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	24532	17.930	ug/l	100
51) Ethyl methacrylate	9.116	69	36066	16.690	ug/l	100
52) 1,3-Dichloropropane	9.311	76	43428	18.066	ug/l	100
53) Dibromochloromethane	9.525	129	28331	18.483	ug/l	100
54) 1,2-Dibromoethane	9.610	107	25214	18.026	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	99715	89.461	ug/l	100
56) Bromoform	10.799	173	17350	17.940	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	168105	80.064	ug/l	100
59) 2-Hexanone	9.433	43	119031	78.596	ug/l	100
61) Tetrachloroethene	9.275	164	21427	18.338	ug/l	100
62) Toluene	8.720	91	112826	17.967	ug/l	100
64) Chlorobenzene	10.079	112	70885	18.184	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	23888	18.443	ug/l	100
66) Ethyl Benzene	10.195	91	126701	18.282	ug/l	100
67) m/p-Xylenes	10.299	106	94670	36.954	ug/l	100
68) o-Xylene	10.640	106	45327	18.103	ug/l	100
69) Styrene	10.652	104	79010	18.701	ug/l	100
70) Isopropylbenzene	10.963	105	121135	18.592	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	36421	17.238	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	30060m	17.246	ug/l	
73) Bromobenzene	11.195	156	28085	18.679	ug/l	100
74) n-propylbenzene	11.305	91	146242	18.746	ug/l	100
75) 2-Chlorotoluene	11.360	91	87919	18.725	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	101937	18.912	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9358	15.786	ug/l	100
78) 4-Chlorotoluene	11.451	91	102991	19.447	ug/l	100
79) tert-butylbenzene	11.713	119	101208	18.685	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	100948	18.762	ug/l	100
81) sec-Butylbenzene	11.890	105	129718	18.971	ug/l	100
82) p-Isopropyltoluene	12.006	119	107112	19.247	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	53209	18.974	ug/l	100
84) 1,4-Dichlorobenzene	12.036	146	53974	19.383	ug/l	100
85) n-Butylbenzene	12.329	91	103405	20.005	ug/l	100
86) Hexachloroethane	12.536	117	17967	18.242	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	51572	18.834	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7234	17.392	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	33278	19.543	ug/l	100
90) Hexachlorobutadiene	13.719	225	14708	21.021	ug/l	100
91) Naphthalene	13.774	128	104308	17.854	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	32955	19.068	ug/l	100

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

ICAL Form

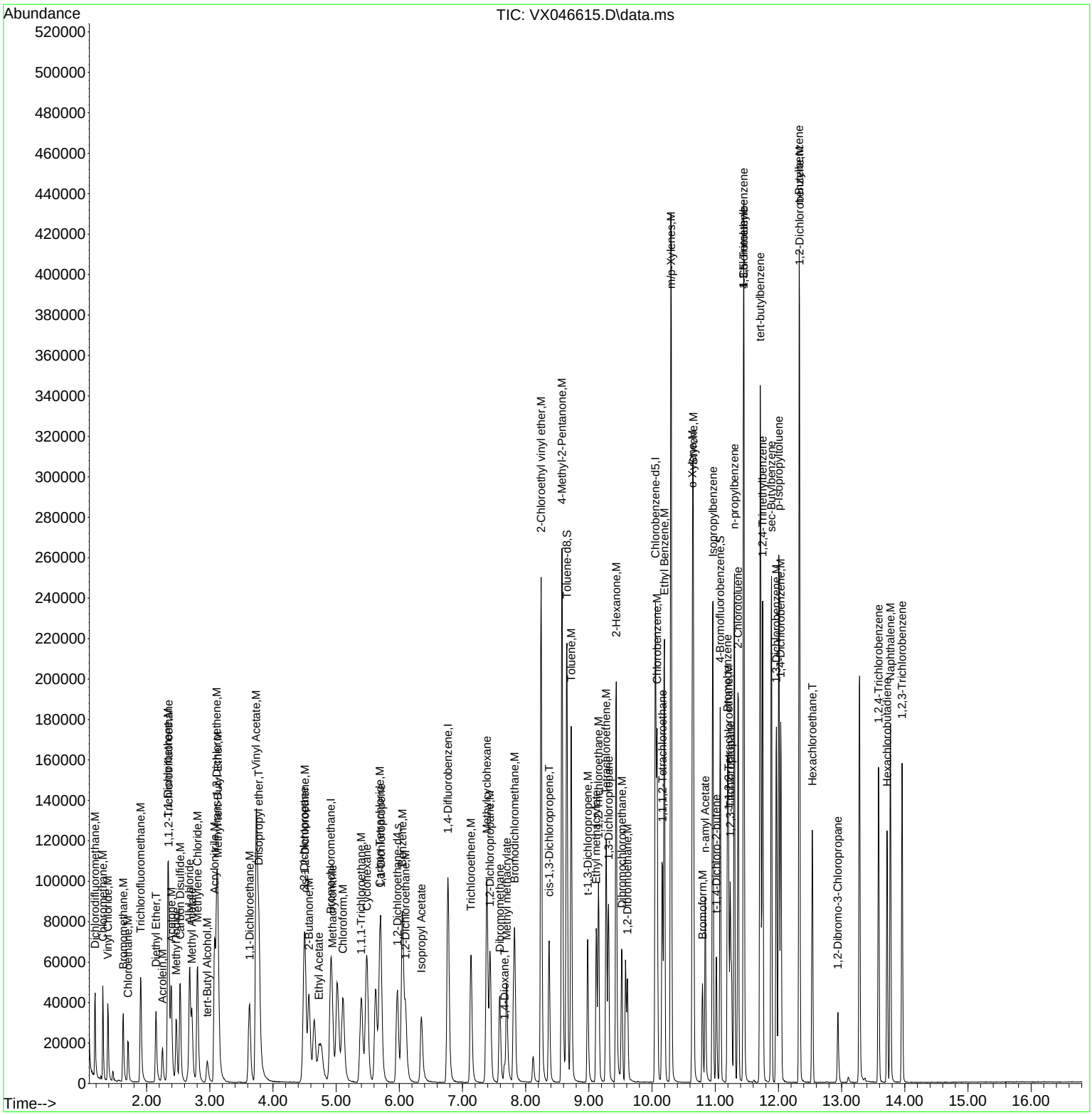
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046615.D
Acq On : 10 Jun 2025 20:40
Operator : JC/MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 11 05:57:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046616.D
Acq On : 10 Jun 2025 21:01
Operator : JC/MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 05:58:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.916	128	21014	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	108888	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	102388	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	45397	22.933	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 76.433%#			
60) 4-Bromofluorobenzene	11.079	95	51686	27.535	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.800%			
63) Toluene-d8	8.653	98	133859	24.564	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 81.867%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	67152	39.278	ug/l	97
3) Chloromethane	1.307	50	67721	33.855	ug/l	97
4) Vinyl Chloride	1.386	62	65364	33.754	ug/l	99
5) Bromomethane	1.624	94	39531	52.308	ug/l	99
6) Chloroethane	1.703	64	38731	37.564	ug/l	100
7) Trichlorofluoromethane	1.904	101	90096	34.029	ug/l	100
8) Diethyl Ether	2.148	74	28989	29.408	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	59156	36.998	ug/l	97
10) 1,1-Dichloroethene	2.337	96	58166	37.425	ug/l	93
11) Methyl Iodide	2.471	142	82662	44.566	ug/l	99
12) Methyl Acetate	2.715	43	60732	31.234	ug/l	93
13) Acrolein	2.252	56	33095	99.015	ug/l	98
14) Acrylonitrile	3.075	53	145764	167.946	ug/l	100
15) Acetone	2.392	58	34647	150.621	ug/l	88
16) Carbon Disulfide	2.532	76	162583	36.799	ug/l	98
17) Allyl chloride	2.678	41	102544	35.288	ug/l	97
18) Methylene Chloride	2.806	84	63723	36.645	ug/l	99
19) trans-1,2-Dichloroethene	3.105	96	61492	38.991	ug/l	100
20) Diisopropyl ether	3.770	45	198220	35.634	ug/l	86
21) 1,1-Dichloroethane	3.629	63	112467	36.263	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	71470	37.873	ug/l	97
23) tert-Butyl Alcohol	2.959	59	29200	103.348	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	178920	35.579	ug/l	97
25) Chloroform	5.111	83	113621	37.584	ug/l	93
26) Cyclohexane	5.483	56	101516	35.563	ug/l #	95
29) 1,1-Dichloropropene	5.708	75	78147	39.321	ug/l	96
30) 2-Butanone	4.568	43	182756	166.916	ug/l	98
31) 2,2-Dichloropropane	4.489	77	71776	33.277	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	97388	40.317	ug/l	97
33) Carbon Tetrachloride	5.690	117	88852	43.258	ug/l	97
34) Benzene	6.050	78	237672	38.717	ug/l	97
35) Methacrylonitrile	4.928	41	46275	38.894	ug/l	98
36) 1,2-Dichloroethane	6.092	62	84980	39.499	ug/l	97
37) Trichloroethene	7.135	130	61466	42.532	ug/l	99
38) Methylcyclohexane	7.385	83	107594	40.817	ug/l	95
39) 1,2-Dichloropropane	7.434	63	60670	39.885	ug/l	96
40) Dibromomethane	7.586	93	44659	40.463	ug/l	98
41) Bromodichloromethane	7.824	83	91514	41.323	ug/l	96
42) Vinyl Acetate	3.733	43	813088	191.071	ug/l	97

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046616.D
Acq On : 10 Jun 2025 21:01
Operator : JC/MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 11 05:58:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Ethyl Acetate	4.727	43	76175	36.304	ug/l	#	88
44) Isopropyl Acetate	6.348	43	113962	33.274	ug/l		100
45) 1,4-Dioxane	7.659	88	15163	459.116	ug/l	#	93
46) Methyl methacrylate	7.696	41	65423	38.115	ug/l		96
47) n-amyl Acetate	10.842	43	123546	42.227	ug/l		98
48) t-1,3-Dichloropropene	8.976	75	83937	39.844	ug/l		100
49) cis-1,3-Dichloropropene	8.366	75	93527	39.526	ug/l		98
50) 1,1,2-Trichloroethane	9.153	97	58480	41.067	ug/l		93
51) Ethyl methacrylate	9.116	69	90255	40.129	ug/l		95
52) 1,3-Dichloropropane	9.311	76	101492	40.566	ug/l		99
53) Dibromochloromethane	9.519	129	70368	44.108	ug/l		99
54) 1,2-Dibromoethane	9.610	107	61792	42.444	ug/l		99
55) 2-Chloroethyl vinyl ether	8.244	63	242780	209.277	ug/l		98
56) Bromoform	10.799	173	43675	43.391	ug/l		98
58) 4-Methyl-2-Pentanone	8.574	43	385957	173.732	ug/l		98
59) 2-Hexanone	9.427	43	287325	179.309	ug/l		98
61) Tetrachloroethene	9.275	164	50960	41.220	ug/l		98
62) Toluene	8.720	91	263456	39.653	ug/l		100
64) Chlorobenzene	10.079	112	173096	41.967	ug/l		99
65) 1,1,1,2-Tetrachloroethane	10.165	131	59332	43.293	ug/l		98
66) Ethyl Benzene	10.195	91	310680	42.368	ug/l		99
67) m/p-Xylenes	10.299	106	232571	85.802	ug/l		97
68) o-Xylene	10.640	106	111285	42.006	ug/l		98
69) Styrene	10.653	104	189444	42.379	ug/l		98
70) Isopropylbenzene	10.963	105	297820	43.202	ug/l		100
71) 1,1,2,2-Tetrachloroethane	11.207	83	85664	38.320	ug/l		98
72) 1,2,3-Trichloropropane	11.238	75	72131m	39.112	ug/l		
73) Bromobenzene	11.195	156	68580	43.109	ug/l		98
74) n-propylbenzene	11.305	91	358912	43.482	ug/l		99
75) 2-Chlorotoluene	11.360	91	210797	42.431	ug/l		100
76) 1,3,5-Trimethylbenzene	11.451	105	246843	43.282	ug/l		100
77) t-1,4-Dichloro-2-butene	11.018	75	24547	39.135	ug/l		94
78) 4-Chlorotoluene	11.451	91	244058	43.554	ug/l		100
79) tert-butylbenzene	11.713	119	245096	42.765	ug/l		100
80) 1,2,4-Trimethylbenzene	11.750	105	242787	42.646	ug/l		99
81) sec-Butylbenzene	11.890	105	314122	43.418	ug/l		99
82) p-Isopropyltoluene	12.006	119	260529	44.246	ug/l		99
83) 1,3-Dichlorobenzene	11.969	146	128582	43.335	ug/l		98
84) 1,4-Dichlorobenzene	12.036	146	127142	43.154	ug/l		99
85) n-Butylbenzene	12.329	91	249335	45.589	ug/l		99
86) Hexachloroethane	12.536	117	44755	42.946	ug/l		98
87) 1,2-Dichlorobenzene	12.335	146	123006	42.457	ug/l		99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	18139	41.216	ug/l		99
89) 1,2,4-Trichlorobenzene	13.585	180	80770	44.831	ug/l		99
90) Hexachlorobutadiene	13.725	225	35663	48.174	ug/l		99
91) Naphthalene	13.774	128	261755	42.345	ug/l		99
92) 1,2,3-Trichlorobenzene	13.957	180	79158	43.289	ug/l		98

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

Quantitation Report (QT Reviewed)

ICAL Form

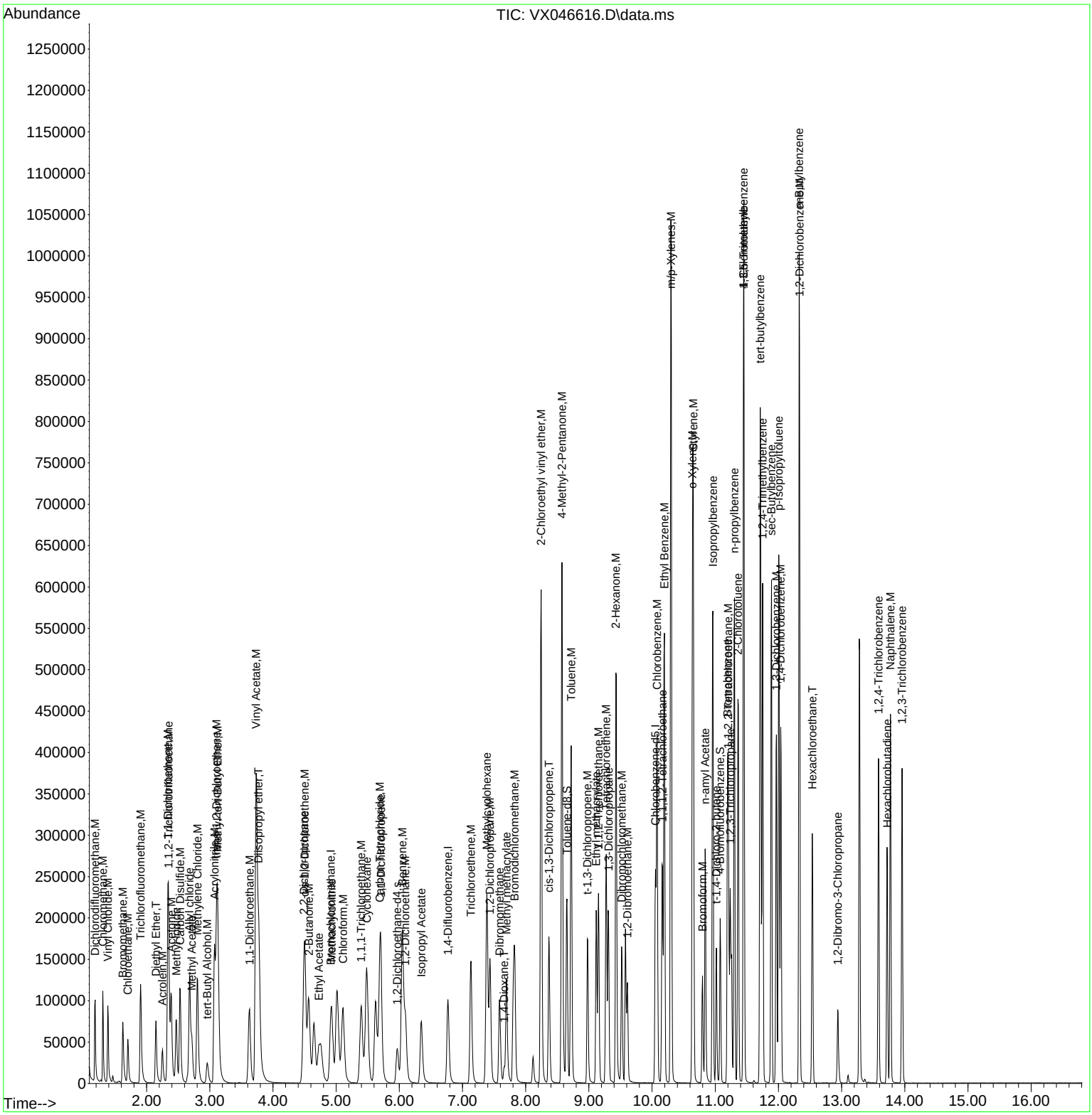
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046616.D
Acq On : 10 Jun 2025 21:01
Operator : JC/MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 11 05:58:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046617.D
Acq On : 10 Jun 2025 21:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 05:59:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.910	128	18480	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	101087	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	90301	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	46278	26.584	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	88.600%#		
60) 4-Bromofluorobenzene	11.079	95	44924	27.136	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	90.467%		
63) Toluene-d8	8.653	98	121203	25.219	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	84.067%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	126953	84.439	ug/l	97
3) Chloromethane	1.307	50	127847	72.676	ug/l	97
4) Vinyl Chloride	1.386	62	125947	73.958	ug/l	98
5) Bromomethane	1.618	94	67188	101.096	ug/l	98
6) Chloroethane	1.697	64	71567	78.929	ug/l	98
7) Trichlorofluoromethane	1.904	101	182315	78.301	ug/l	100
8) Diethyl Ether	2.148	74	63050	72.732	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.343	101	118050	83.957	ug/l	99
10) 1,1-Dichloroethene	2.337	96	117733	86.139	ug/l	98
11) Methyl Iodide	2.465	142	162711	99.752	ug/l	99
12) Methyl Acetate	2.715	43	134440	78.621	ug/l	99
13) Acrolein	2.252	56	80516	273.923	ug/l	99
14) Acrylonitrile	3.075	53	303346	397.435	ug/l	100
15) Acetone	2.386	58	71106	351.507	ug/l	95
16) Carbon Disulfide	2.526	76	330142	84.972	ug/l	99
17) Allyl chloride	2.678	41	214540	83.951	ug/l	96
18) Methylene Chloride	2.800	84	124706	81.549	ug/l	96
19) trans-1,2-Dichloroethene	3.105	96	119413	86.099	ug/l	99
20) Diisopropyl ether	3.770	45	406048	83.005	ug/l	90
21) 1,1-Dichloroethane	3.623	63	227553	83.430	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	139255	83.913	ug/l	97
23) tert-Butyl Alcohol	2.965	59	64891	261.163	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	368205	83.260	ug/l	98
25) Chloroform	5.105	83	233034	87.654	ug/l	95
26) Cyclohexane	5.483	56	209782	83.567	ug/l #	100
29) 1,1-Dichloropropene	5.702	75	163173	88.439	ug/l	98
30) 2-Butanone	4.562	43	375531	369.450	ug/l	99
31) 2,2-Dichloropropane	4.489	77	148694	74.259	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	206409	92.045	ug/l	98
33) Carbon Tetrachloride	5.690	117	182507	95.711	ug/l	99
34) Benzene	6.050	78	476940	83.690	ug/l	100
35) Methacrylonitrile	4.928	41	93603	84.745	ug/l	97
36) 1,2-Dichloroethane	6.092	62	180713	90.478	ug/l	99
37) Trichloroethene	7.129	130	118601	88.401	ug/l	90
38) Methylcyclohexane	7.385	83	210185	85.889	ug/l	96
39) 1,2-Dichloropropane	7.434	63	118552	83.951	ug/l	91
40) Dibromomethane	7.586	93	87518	85.415	ug/l	99
41) Bromodichloromethane	7.824	83	184639	89.807	ug/l #	97
42) Vinyl Acetate	3.733	43	1716533	434.505	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046617.D
Acq On : 10 Jun 2025 21:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 11 05:59:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
43) Ethyl Acetate	4.721	43	161006m	82.655 ug/l		
44) Isopropyl Acetate	6.348	43	265905	83.629 ug/l		99
45) 1,4-Dioxane	7.659	88	30924	1008.598 ug/l	#	90
46) Methyl methacrylate	7.696	41	139613	87.615 ug/l		97
47) n-amyl Acetate	10.841	43	231600	85.267 ug/l		98
48) t-1,3-Dichloropropene	8.976	75	174247	89.095 ug/l		99
49) cis-1,3-Dichloropropene	8.366	75	190854	86.882 ug/l		99
50) 1,1,2-Trichloroethane	9.153	97	109109	82.533 ug/l		96
51) Ethyl methacrylate	9.116	69	180726	86.556 ug/l		96
52) 1,3-Dichloropropane	9.311	76	191705	82.538 ug/l		98
53) Dibromochloromethane	9.519	129	134118	90.555 ug/l		99
54) 1,2-Dibromoethane	9.610	107	116714	86.355 ug/l		100
55) 2-Chloroethyl vinyl ether	8.244	63	498407	462.783 ug/l		99
56) Bromoform	10.799	173	83888	89.774 ug/l		98
58) 4-Methyl-2-Pentanone	8.574	43	782773	399.516 ug/l		99
59) 2-Hexanone	9.427	43	549776	389.020 ug/l		98
61) Tetrachloroethene	9.275	164	93766	85.997 ug/l		98
62) Toluene	8.720	91	506147	86.377 ug/l		100
64) Chlorobenzene	10.079	112	321168	88.290 ug/l		99
65) 1,1,1,2-Tetrachloroethane	10.165	131	110074	91.070 ug/l		99
66) Ethyl Benzene	10.195	91	577722	89.331 ug/l		99
67) m/p-Xylenes	10.299	106	423852	177.301 ug/l		98
68) o-Xylene	10.640	106	203409	87.056 ug/l		99
69) Styrene	10.652	104	351137	89.064 ug/l		99
70) Isopropylbenzene	10.963	105	540361	88.877 ug/l		100
71) 1,1,2,2-Tetrachloroethane	11.213	83	154296	78.260 ug/l		99
72) 1,2,3-Trichloropropane	11.238	75	130638m	80.319 ug/l		
73) Bromobenzene	11.195	156	126288	90.009 ug/l		98
74) n-propylbenzene	11.305	91	651781	89.532 ug/l		100
75) 2-Chlorotoluene	11.366	91	384866	87.839 ug/l		100
76) 1,3,5-Trimethylbenzene	11.451	105	448179	89.103 ug/l		99
77) t-1,4-Dichloro-2-butene	11.018	75	49424	89.342 ug/l		88
78) 4-Chlorotoluene	11.451	91	443031	89.645 ug/l		99
79) tert-butylbenzene	11.713	119	452187	89.460 ug/l		99
80) 1,2,4-Trimethylbenzene	11.750	105	446143	88.856 ug/l		99
81) sec-Butylbenzene	11.890	105	569918	89.319 ug/l		100
82) p-Isopropyltoluene	12.006	119	470629	90.626 ug/l		99
83) 1,3-Dichlorobenzene	11.969	146	231179	88.341 ug/l		100
84) 1,4-Dichlorobenzene	12.036	146	230534	88.720 ug/l		98
85) n-Butylbenzene	12.329	91	451055	93.511 ug/l		98
86) Hexachloroethane	12.536	117	85307	92.816 ug/l		98
87) 1,2-Dichlorobenzene	12.335	146	222638	87.133 ug/l		99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	34992	90.153 ug/l		97
89) 1,2,4-Trichlorobenzene	13.585	180	155404	97.801 ug/l		98
90) Hexachlorobutadiene	13.725	225	64850	99.325 ug/l		97
91) Naphthalene	13.774	128	496416	91.055 ug/l		100
92) 1,2,3-Trichlorobenzene	13.957	180	151656	94.037 ug/l		100

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

ICAL Form

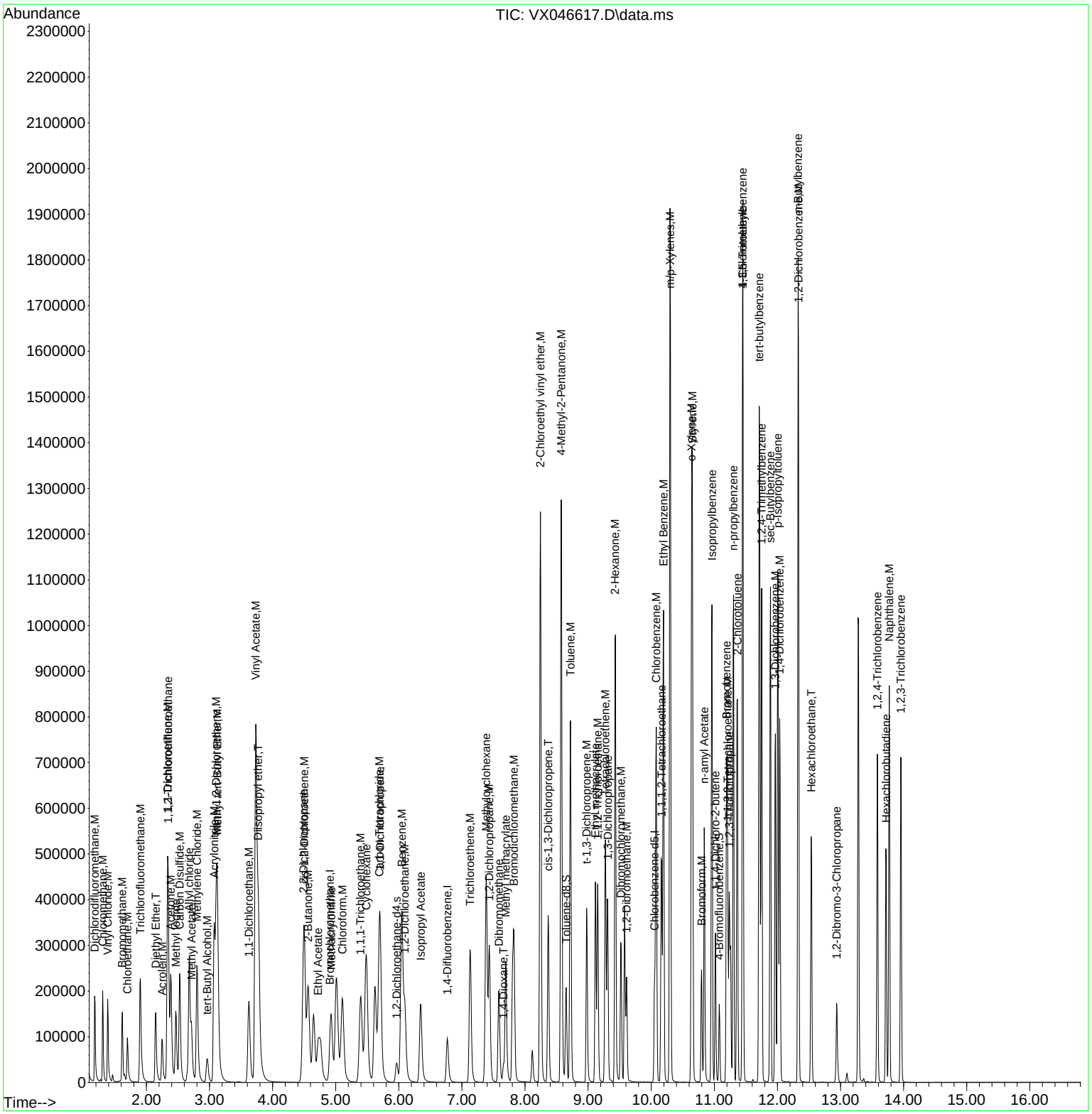
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046617.D
Acq On : 10 Jun 2025 21:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Jun 11 05:59:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046618.D
Acq On : 10 Jun 2025 21:44
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 06:00:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	4.916	128	14285	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	6.769	114	79056	30.000	ug/l		0.00
57) Chlorobenzene-d5	10.055	117	70233	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	5.964	65	35515	26.392	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 87.967%#				
60) 4-Bromofluorobenzene	11.079	95	35488	27.562	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.867%				
63) Toluene-d8	8.653	98	93932	25.129	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 83.767%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.179	85	128493	110.561	ug/l		96
3) Chloromethane	1.307	50	131817	96.938	ug/l		98
4) Vinyl Chloride	1.386	62	126578	96.157	ug/l		99
5) Bromomethane	1.618	94	70720	137.659	ug/l		98
6) Chloroethane	1.697	64	74708	106.589	ug/l		100
7) Trichlorofluoromethane	1.904	101	181942	101.088	ug/l		99
8) Diethyl Ether	2.148	74	66011	98.510	ug/l		99
9) 1,1,2-Trichlorotrifluo...	2.343	101	123494	113.620	ug/l		99
10) 1,1-Dichloroethene	2.337	96	120691	114.235	ug/l		96
11) Methyl Iodide	2.465	142	170109	134.912	ug/l		99
12) Methyl Acetate	2.715	43	132151	99.978	ug/l		100
13) Acrolein	2.252	56	78842	346.997	ug/l		100
14) Acrylonitrile	3.075	53	311908	528.659	ug/l		99
15) Acetone	2.386	58	71578	457.751	ug/l		97
16) Carbon Disulfide	2.526	76	345932	115.182	ug/l		100
17) Allyl chloride	2.678	41	223397	113.089	ug/l		97
18) Methylene Chloride	2.800	84	128528	108.730	ug/l		96
19) trans-1,2-Dichloroethene	3.105	96	123601	115.290	ug/l		99
20) Diisopropyl ether	3.770	45	418693	110.725	ug/l		88
21) 1,1-Dichloroethane	3.623	63	235079	111.501	ug/l		99
22) cis-1,2-Dichloroethene	4.501	96	144888	112.946	ug/l		98
23) tert-Butyl Alcohol	2.959	59	68721	357.798	ug/l	#	100
24) Methyl tert-Butyl Ether	3.123	73	376330	110.087	ug/l		98
25) Chloroform	5.105	83	238920	116.259	ug/l		96
26) Cyclohexane	5.483	56	214840	110.715	ug/l	#	97
29) 1,1-Dichloropropene	5.702	75	171308	118.723	ug/l		99
30) 2-Butanone	4.562	43	386857	486.654	ug/l		99
31) 2,2-Dichloropropane	4.489	77	154777	98.837	ug/l		99
32) 1,1,1-Trichloroethane	5.397	97	213130	121.528	ug/l		98
33) Carbon Tetrachloride	5.684	117	188561	126.443	ug/l		98
34) Benzene	6.050	78	491901	110.370	ug/l		99
35) Methacrylonitrile	4.934	41	96674	111.916	ug/l		98
36) 1,2-Dichloroethane	6.099	62	184658	118.218	ug/l		99
37) Trichloroethene	7.129	130	121885	116.166	ug/l		88
38) Methylcyclohexane	7.385	83	224529	117.319	ug/l		96
39) 1,2-Dichloropropane	7.434	63	124027	112.304	ug/l		92
40) Dibromomethane	7.586	93	90996	113.559	ug/l		99
41) Bromodichloromethane	7.824	83	189762	118.021	ug/l	#	97
42) Vinyl Acetate	3.733	43	1779960	576.121	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046618.D
Acq On : 10 Jun 2025 21:44
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jun 11 06:00:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) Ethyl Acetate	4.721	43	167022m	109.638	ug/l		
44) Isopropyl Acetate	6.342	43	275162	110.657	ug/l		99
45) 1,4-Dioxane	7.659	88	32186	1342.301	ug/l	#	91
46) Methyl methacrylate	7.696	41	144279	115.776	ug/l		97
47) n-amyl Acetate	10.842	43	242185	114.012	ug/l		97
48) t-1,3-Dichloropropene	8.976	75	182939	119.607	ug/l		99
49) cis-1,3-Dichloropropene	8.366	75	199663	116.222	ug/l		100
50) 1,1,2-Trichloroethane	9.153	97	114954	111.187	ug/l		96
51) Ethyl methacrylate	9.116	69	186954	114.491	ug/l		98
52) 1,3-Dichloropropane	9.311	76	200619	110.446	ug/l		98
53) Dibromochloromethane	9.519	129	139959	120.833	ug/l		98
54) 1,2-Dibromoethane	9.610	107	120053	113.580	ug/l		99
55) 2-Chloroethyl vinyl ether	8.244	63	381595	453.061	ug/l		99
56) Bromoform	10.799	173	87839	120.198	ug/l		99
58) 4-Methyl-2-Pentanone	8.574	43	802150	526.387	ug/l		99
59) 2-Hexanone	9.427	43	566900	515.756	ug/l		98
61) Tetrachloroethene	9.275	164	99513	117.346	ug/l		97
62) Toluene	8.720	91	523875	114.948	ug/l		100
64) Chlorobenzene	10.080	112	336208	118.833	ug/l		99
65) 1,1,1,2-Tetrachloroethane	10.165	131	114449	121.746	ug/l		99
66) Ethyl Benzene	10.195	91	597149	118.718	ug/l		99
67) m/p-Xylenes	10.299	106	439865	236.574	ug/l		98
68) o-Xylene	10.640	106	214100	117.814	ug/l		98
69) Styrene	10.653	104	366379	119.483	ug/l		99
70) Isopropylbenzene	10.964	105	566056	119.707	ug/l		100
71) 1,1,2,2-Tetrachloroethane	11.213	83	160113	104.414	ug/l		98
72) 1,2,3-Trichloropropane	11.238	75	136200m	107.666	ug/l		
73) Bromobenzene	11.195	156	131791	120.771	ug/l		98
74) n-propylbenzene	11.305	91	676405	119.463	ug/l		99
75) 2-Chlorotoluene	11.360	91	399989	117.375	ug/l		100
76) 1,3,5-Trimethylbenzene	11.451	105	463327	118.435	ug/l		99
77) t-1,4-Dichloro-2-butene	11.018	75	52534	122.099	ug/l		86
78) 4-Chlorotoluene	11.451	91	463836	120.673	ug/l		99
79) tert-butylbenzene	11.713	119	465227	118.339	ug/l		99
80) 1,2,4-Trimethylbenzene	11.750	105	462422	118.414	ug/l		99
81) sec-Butylbenzene	11.890	105	596540	120.205	ug/l		99
82) p-Isopropyltoluene	12.006	119	495558	122.693	ug/l		99
83) 1,3-Dichlorobenzene	11.969	146	242658	119.223	ug/l		99
84) 1,4-Dichlorobenzene	12.036	146	244059	120.762	ug/l		98
85) n-Butylbenzene	12.329	91	478218	127.471	ug/l		99
86) Hexachloroethane	12.536	117	87631	122.587	ug/l		96
87) 1,2-Dichlorobenzene	12.335	146	230502	115.987	ug/l		100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	35888	118.880	ug/l		98
89) 1,2,4-Trichlorobenzene	13.585	180	161569	130.735	ug/l		100
90) Hexachlorobutadiene	13.725	225	69903	137.656	ug/l		98
91) Naphthalene	13.774	128	521011	122.873	ug/l		100
92) 1,2,3-Trichlorobenzene	13.957	180	156655	124.892	ug/l		99

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

ICAL Form

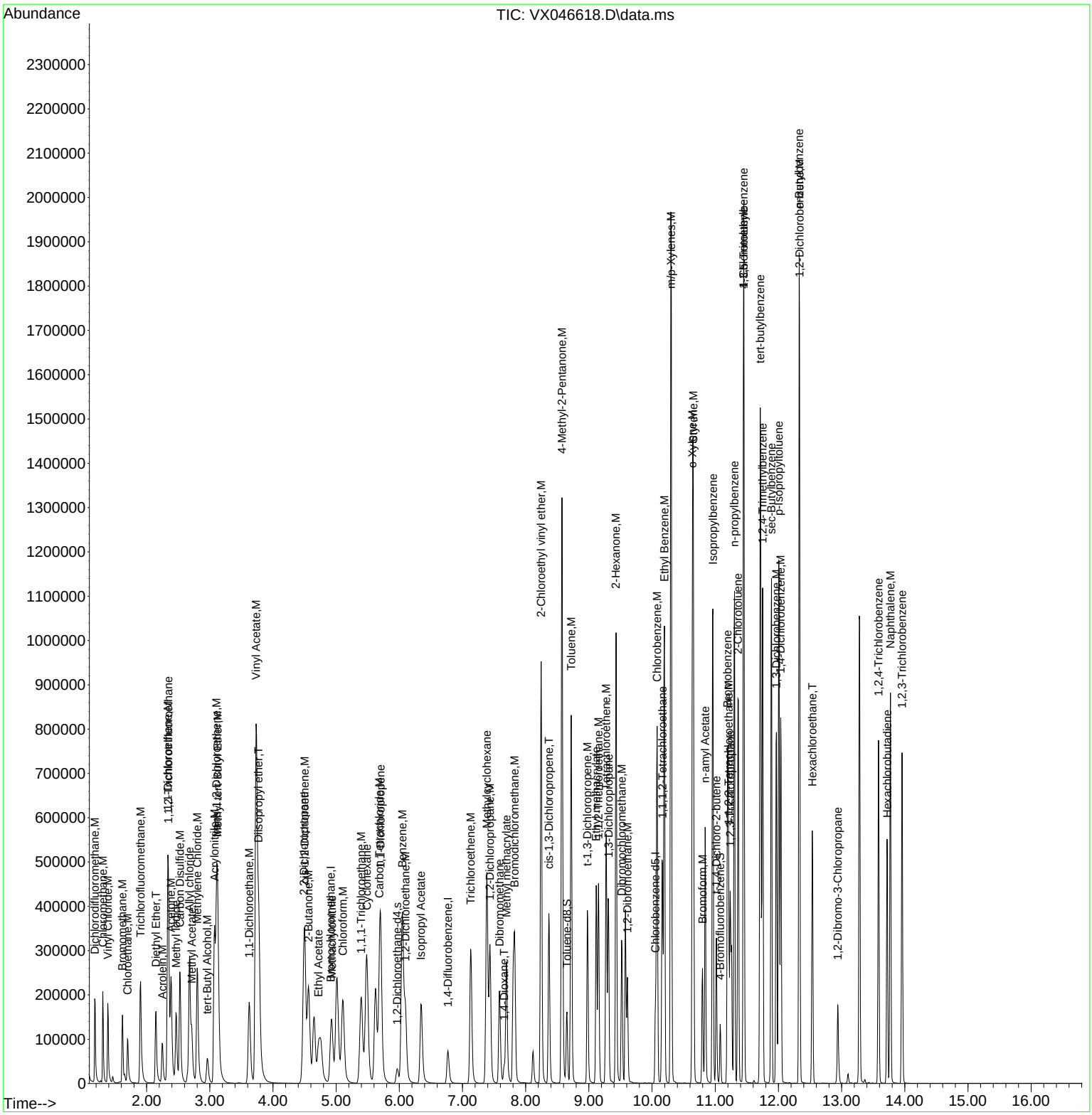
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046618.D
Acq On : 10 Jun 2025 21:44
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Jun 11 06:00:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 05:53:18 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046620.D
Acq On : 10 Jun 2025 22:26
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX061025

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 06:31:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.916	128	19502	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	102720	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	94298	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	47044	29.800	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.333%			
60) 4-Bromofluorobenzene	11.079	95	47841	30.100	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.333%			
63) Toluene-d8	8.653	98	127505	30.271	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	23255	18.341	ug/l	95
3) Chloromethane	1.307	50	23695	18.139	ug/l	96
4) Vinyl Chloride	1.386	62	23516	18.673	ug/l	98
5) Bromomethane	1.630	94	16055	21.347	ug/l	97
6) Chloroethane	1.703	64	13014	17.987	ug/l	95
7) Trichlorofluoromethane	1.904	101	34019	18.859	ug/l	100
8) Diethyl Ether	2.148	74	11129	17.609	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.343	101	22388	18.654	ug/l	98
10) 1,1-Dichloroethene	2.337	96	21173	18.187	ug/l	93
11) Methyl Iodide	2.471	142	28540	17.981	ug/l	99
12) Methyl Acetate	2.715	43	23837	16.244	ug/l	95
13) Acrolein	2.252	56	15494	107.751	ug/l	98
14) Acrylonitrile	3.075	53	56070	92.978	ug/l	100
15) Acetone	2.386	58	13263	96.180	ug/l	93
16) Carbon Disulfide	2.532	76	61158	18.935	ug/l	99
17) Allyl chloride	2.678	41	38539	18.246	ug/l	97
18) Methylene Chloride	2.800	84	24288	18.904	ug/l	93
19) trans-1,2-Dichloroethene	3.111	96	22089	18.309	ug/l	98
20) Diisopropyl ether	3.770	45	77020	19.273	ug/l #	84
21) 1,1-Dichloroethane	3.629	63	42965	18.765	ug/l	99
22) cis-1,2-Dichloroethene	4.507	96	26042	18.515	ug/l	97
23) tert-Butyl Alcohol	2.959	59	10713m	87.957	ug/l	
24) Methyl tert-Butyl Ether	3.123	73	67674	19.029	ug/l	99
25) Chloroform	5.111	83	44938	19.068	ug/l	94
26) Cyclohexane	5.483	56	40470	19.372	ug/l #	99
29) 1,1-Dichloropropene	5.702	75	31429	19.447	ug/l	99
30) 2-Butanone	4.568	43	69729	96.829	ug/l	99
31) 2,2-Dichloropropane	4.489	77	26066	18.167	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	38918	19.489	ug/l	98
33) Carbon Tetrachloride	5.690	117	34697	19.577	ug/l	95
34) Benzene	6.050	78	91082	19.182	ug/l	100
35) Methacrylonitrile	4.934	41	16567	18.761	ug/l	97
36) 1,2-Dichloroethane	6.092	62	35133	19.556	ug/l	100
37) Trichloroethene	7.135	130	22786	19.124	ug/l	93
38) Methylcyclohexane	7.385	83	39592	19.300	ug/l	98
39) 1,2-Dichloropropane	7.434	63	22488	18.986	ug/l	93
40) Dibromomethane	7.586	93	17216	19.442	ug/l	99
41) Bromodichloromethane	7.824	83	35030	19.418	ug/l #	97
42) Vinyl Acetate	3.733	43	311920	100.381	ug/l	98

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046620.D
Acq On : 10 Jun 2025 22:26
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jun 11 06:31:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX061025

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	4.727	43	30123	19.747 ug/l #	91
44) Isopropyl Acetate	6.348	43	47093	19.737 ug/l	99
45) 1,4-Dioxane	7.659	88	6089	404.565 ug/l #	90
46) Methyl methacrylate	7.702	41	25547	19.609 ug/l	97
47) n-amyl Acetate	10.842	43	41994	19.676 ug/l	100
48) t-1,3-Dichloropropene	8.982	75	29793	18.423 ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	35002	19.386 ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	21725	19.467 ug/l	98
51) Ethyl methacrylate	9.116	69	32296	19.032 ug/l	98
52) 1,3-Dichloropropane	9.311	76	37211	19.143 ug/l	96
53) Dibromochloromethane	9.519	129	25255	19.199 ug/l	99
54) 1,2-Dibromoethane	9.610	107	22587	19.241 ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	88573	99.945 ug/l	100
56) Bromoform	10.799	173	15704	19.319 ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	151408	98.710 ug/l	99
59) 2-Hexanone	9.433	43	105767	97.744 ug/l	98
61) Tetrachloroethene	9.275	164	19049	19.275 ug/l	99
62) Toluene	8.720	91	99135	19.399 ug/l	99
64) Chlorobenzene	10.079	112	63797	19.355 ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	21209	19.199 ug/l	98
66) Ethyl Benzene	10.195	91	112742	19.321 ug/l	99
67) m/p-Xylenes	10.299	106	84228	39.025 ug/l	100
68) o-Xylene	10.640	106	41009	19.734 ug/l	97
69) Styrene	10.653	104	69270	19.447 ug/l	98
70) Isopropylbenzene	10.963	105	109015	19.548 ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	32028	19.550 ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	26343m	19.261 ug/l	
73) Bromobenzene	11.195	156	25200	19.277 ug/l	99
74) n-propylbenzene	11.305	91	132000	19.794 ug/l	100
75) 2-Chlorotoluene	11.360	91	78088	19.560 ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	91935	19.841 ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	8334	18.038 ug/l	94
78) 4-Chlorotoluene	11.451	91	92213	19.964 ug/l	99
79) tert-butylbenzene	11.713	119	91390	19.777 ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	91018	19.890 ug/l	99
81) sec-Butylbenzene	11.890	105	115967	19.611 ug/l	100
82) p-Isopropyltoluene	12.006	119	96508	19.884 ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	47835	19.658 ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	48644	19.878 ug/l	99
85) n-Butylbenzene	12.329	91	92530	19.790 ug/l	99
86) Hexachloroethane	12.536	117	16219	19.242 ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	46237	19.751 ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6474	19.157 ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	30504	19.764 ug/l	99
90) Hexachlorobutadiene	13.725	225	13613	20.031 ug/l	97
91) Naphthalene	13.774	128	94364	19.272 ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	29352	19.375 ug/l	100

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

ICAL Form

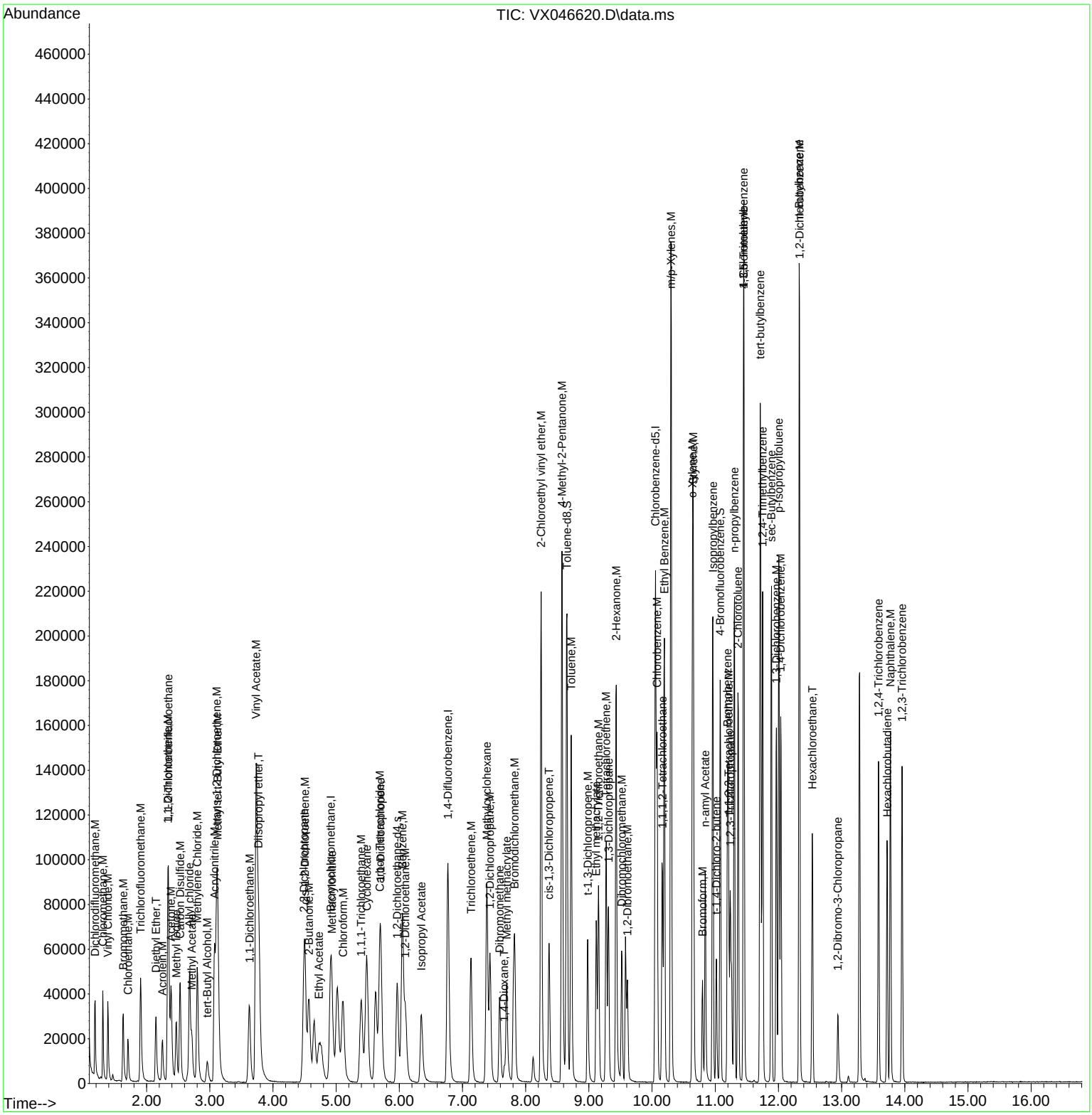
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046620.D
Acq On : 10 Jun 2025 22:26
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jun 11 06:31:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX061025

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046620.D
Acq On : 10 Jun 2025 22:26
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX061025

Quant Time: Jun 11 06:31:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 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	98	0.00
2	M	Dichlorodifluoromethane	1.950	1.789	8.3	86	0.00
3	M	Chloromethane	2.010	1.823	9.3	84	0.00
4	M	Vinyl Chloride	1.937	1.809	6.6	87	0.00
5	M	Bromomethane	1.157	1.235	-6.7	95	0.00
6	M	Chloroethane	1.113	1.001	10.1	89	0.00
7	M	Trichlorofluoromethane	2.775	2.617	5.7	87	0.00
8	T	Diethyl Ether	0.972	0.856	11.9	81	0.00
9		1,1,2-Trichlorotrifluoroeth	1.846	1.722	6.7	87	0.00
10	M	1,1-Dichloroethene	1.791	1.629	9.0	87	0.00
11		Methyl Iodide	2.442	2.195	10.1	86	0.00
12		Methyl Acetate	2.257	1.833	18.8	58	0.00
13	M	Acrolein	0.221	0.238	-7.7	113	0.00
14	M	Acrylonitrile	0.928	0.863	7.0	87	0.00
15	M	Acetone	0.212	0.204	3.8	91	0.00
16	M	Carbon Disulfide	4.969	4.704	5.3	89	0.00
17		Allyl chloride	3.249	2.964	8.8	86	0.00
18	M	Methylene Chloride	1.976	1.868	5.5	88	0.00
19	M	trans-1,2-Dichloroethene	1.856	1.699	8.5	87	0.00
20	T	Diisopropyl ether	6.147	5.924	3.6	89	0.00
21	M	1,1-Dichloroethane	3.522	3.305	6.2	88	0.00
22	M	cis-1,2-Dichloroethene	2.164	2.003	7.4	86	0.00
23	M	tert-Butyl Alcohol	0.187	0.165	11.8	87	0.00
24	M	Methyl tert-Butyl Ether	5.471	5.205	4.9	89	0.00
25	M	Chloroform	3.625	3.456	4.7	89	0.00
26		Cyclohexane	3.214	3.113	3.1	90	0.00
27	s	1,2-Dichloroethane-d4	2.428	2.412	0.7	97	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
29		1,1-Dichloropropene	0.472	0.459	2.8	87	0.00
30	M	2-Butanone	0.210	0.204	2.9	89	0.00
31		2,2-Dichloropropane	0.419	0.381	9.1	85	0.00
32	M	1,1,1-Trichloroethane	0.583	0.568	2.6	89	0.00
33	M	Carbon Tetrachloride	0.518	0.507	2.1	89	0.00
34	M	Benzene	1.387	1.330	4.1	87	0.00
35		Methacrylonitrile	0.258	0.242	6.2	89	0.00
36	M	1,2-Dichloroethane	0.525	0.513	2.3	87	0.00
37	M	Trichloroethene	0.348	0.333	4.3	89	0.00
38		Methylcyclohexane	0.599	0.578	3.5	91	0.00
39	M	1,2-Dichloropropane	0.346	0.328	5.2	87	0.00
40		Dibromomethane	0.259	0.251	3.1	89	0.00
41	M	Bromodichloromethane	0.527	0.512	2.8	87	0.00
42	M	Vinyl Acetate	0.908	0.911	-0.3	103	0.00
43		Ethyl Acetate	0.446	0.440	1.3	92	0.00
44		Isopropyl Acetate	0.697	0.688	1.3	94	0.00
45	T	1,4-Dioxane	0.004	0.004	0.0	91	0.00
46		Methyl methacrylate	0.380	0.373	1.8	90	0.00
47		n-amyl Acetate	0.623	0.613	1.6	107	0.00
48	M	t-1,3-Dichloropropene	0.472	0.435	7.8	90	0.00

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046620.D
Acq On : 10 Jun 2025 22:26
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX061025

Quant Time: Jun 11 06:31:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 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	0.527	0.511	3.0	92	0.00
50	M	1,1,2-Trichloroethane	0.326	0.317	2.8	89	0.00
51		Ethyl methacrylate	0.496	0.472	4.8	90	0.00
52		1,3-Dichloropropane	0.568	0.543	4.4	86	0.00
53	M	Dibromochloromethane	0.384	0.369	3.9	89	0.00
54	M	1,2-Dibromoethane	0.343	0.330	3.8	90	0.00
55	M	2-Chloroethyl vinyl ether	0.259	0.259	0.0	89	0.00
56	M	Bromoform	0.237	0.229	3.4	91	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
58	M	4-Methyl-2-Pentanone	0.488	0.482	1.2	90	0.00
59	M	2-Hexanone	0.344	0.336	2.3	89	0.00
60	S	4-Bromofluorobenzene	0.506	0.507	-0.2	98	0.00
61	M	Tetrachloroethene	0.314	0.303	3.5	89	0.00
62	M	Toluene	1.626	1.577	3.0	88	0.00
63	S	Toluene-d8	1.340	1.352	-0.9	97	0.00
64	M	Chlorobenzene	1.049	1.015	3.2	90	0.00
65		1,1,1,2-Tetrachloroethane	0.351	0.337	4.0	89	0.00
66	M	Ethyl Benzene	1.856	1.793	3.4	89	0.00
67	M	m/p-Xylenes	0.687	0.670	2.5	89	0.00
68	M	o-Xylene	0.661	0.652	1.4	90	0.00
69	M	Styrene	1.133	1.102	2.7	88	0.00
70		Isopropylbenzene	1.774	1.734	2.3	90	0.00
71	M	1,1,2,2-Tetrachloroethane	0.521	0.509	2.3	88	0.00
72		1,2,3-Trichloropropane	0.435	0.419	3.7	88	0.00
73		Bromobenzene	0.416	0.401	3.6	90	0.00
74		n-propylbenzene	2.122	2.100	1.0	90	0.00
75		2-Chlorotoluene	1.270	1.242	2.2	89	0.00
76		1,3,5-Trimethylbenzene	1.474	1.462	0.8	90	0.00
77		t-1,4-Dichloro-2-butene	0.147	0.133	9.5	89	0.00
78		4-Chlorotoluene	1.469	1.467	0.1	90	0.00
79		tert-butylbenzene	1.470	1.454	1.1	90	0.00
80		1,2,4-Trimethylbenzene	1.456	1.448	0.5	90	0.00
81		sec-Butylbenzene	1.881	1.845	1.9	89	0.00
82		p-Isopropyltoluene	1.544	1.535	0.6	90	0.00
83	M	1,3-Dichlorobenzene	0.774	0.761	1.7	90	0.00
84	M	1,4-Dichlorobenzene	0.779	0.774	0.6	90	0.00
85		n-Butylbenzene	1.488	1.472	1.1	89	0.00
86	T	Hexachloroethane	0.268	0.258	3.7	90	0.00
87	M	1,2-Dichlorobenzene	0.745	0.735	1.3	90	0.00
88		1,2-Dibromo-3-Chloropropane	0.108	0.103	4.6	89	0.00
89		1,2,4-Trichlorobenzene	0.491	0.485	1.2	92	0.00
90		Hexachlorobutadiene	0.216	0.217	-0.5	93	0.00
91	M	Naphthalene	1.558	1.501	3.7	90	0.00
92		1,2,3-Trichlorobenzene	0.482	0.467	3.1	89	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_X\Data\VX061025\
Data File : VX046620.D
Acq On : 10 Jun 2025 22:26
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX061025

Quant Time: Jun 11 06:31:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 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	98	0.00
2	M	Dichlorodifluoromethane	20.000	18.341	8.3	86	0.00
3	M	Chloromethane	20.000	18.139	9.3	84	0.00
4	M	Vinyl Chloride	20.000	18.673	6.6	87	0.00
5	M	Bromomethane	20.000	21.347	-6.7	95	0.00
6	M	Chloroethane	20.000	17.987	10.1	89	0.00
7	M	Trichlorofluoromethane	20.000	18.859	5.7	87	0.00
8	T	Diethyl Ether	20.000	17.609	12.0	81	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	18.654	6.7	87	0.00
10	M	1,1-Dichloroethene	20.000	18.187	9.1	87	0.00
11		Methyl Iodide	20.000	17.981	10.1	86	0.00
12		Methyl Acetate	20.000	16.244	18.8	58	0.00
13	M	Acrolein	100.000	107.751	-7.8	113	0.00
14	M	Acrylonitrile	100.000	92.978	7.0	87	0.00
15	M	Acetone	100.000	96.180	3.8	91	0.00
16	M	Carbon Disulfide	20.000	18.935	5.3	89	0.00
17		Allyl chloride	20.000	18.246	8.8	86	0.00
18	M	Methylene Chloride	20.000	18.904	5.5	88	0.00
19	M	trans-1,2-Dichloroethene	20.000	18.309	8.5	87	0.00
20	T	Diisopropyl ether	20.000	19.273	3.6	89	0.00
21	M	1,1-Dichloroethane	20.000	18.765	6.2	88	0.00
22	M	cis-1,2-Dichloroethene	20.000	18.515	7.4	86	0.00
23	M	tert-Butyl Alcohol	100.000	87.957	12.0	87	0.00
24	M	Methyl tert-Butyl Ether	20.000	19.029	4.9	89	0.00
25	M	Chloroform	20.000	19.068	4.7	89	0.00
26		Cyclohexane	20.000	19.372	3.1	90	0.00
27	s	1,2-Dichloroethane-d4	30.000	29.800	0.7	97	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	98	0.00
29		1,1-Dichloropropene	20.000	19.447	2.8	87	0.00
30	M	2-Butanone	100.000	96.829	3.2	89	0.00
31		2,2-Dichloropropane	20.000	18.167	9.2	85	0.00
32	M	1,1,1-Trichloroethane	20.000	19.489	2.6	89	0.00
33	M	Carbon Tetrachloride	20.000	19.577	2.1	89	0.00
34	M	Benzene	20.000	19.182	4.1	87	0.00
35		Methacrylonitrile	20.000	18.761	6.2	89	0.00
36	M	1,2-Dichloroethane	20.000	19.556	2.2	87	0.00
37	M	Trichloroethene	20.000	19.124	4.4	89	0.00
38		Methylcyclohexane	20.000	19.300	3.5	91	0.00
39	M	1,2-Dichloropropane	20.000	18.986	5.1	87	0.00
40		Dibromomethane	20.000	19.442	2.8	89	0.00
41	M	Bromodichloromethane	20.000	19.418	2.9	87	0.00
42	M	Vinyl Acetate	100.000	100.381	-0.4	103	0.00
43		Ethyl Acetate	20.000	19.747	1.3	92	0.00
44		Isopropyl Acetate	20.000	19.737	1.3	94	0.00
45	T	1,4-Dioxane	400.000	404.565	-1.1	91	0.00
46		Methyl methacrylate	20.000	19.609	2.0	90	0.00
47		n-amyl Acetate	20.000	19.676	1.6	107	0.00
48	M	t-1,3-Dichloropropene	20.000	18.423	7.9	90	0.00

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046620.D
Acq On : 10 Jun 2025 22:26
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX061025

Quant Time: Jun 11 06:31:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	cis-1,3-Dichloropropene	20.000	19.386	3.1	92	0.00
50	M	1,1,2-Trichloroethane	20.000	19.467	2.7	89	0.00
51		Ethyl methacrylate	20.000	19.032	4.8	90	0.00
52		1,3-Dichloropropane	20.000	19.143	4.3	86	0.00
53	M	Dibromochloromethane	20.000	19.199	4.0	89	0.00
54	M	1,2-Dibromoethane	20.000	19.241	3.8	90	0.00
55	M	2-Chloroethyl vinyl ether	100.000	99.945	0.1	89	0.00
56	M	Bromoform	20.000	19.319	3.4	91	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	97	0.00
58	M	4-Methyl-2-Pentanone	100.000	98.710	1.3	90	0.00
59	M	2-Hexanone	100.000	97.744	2.3	89	0.00
60	S	4-Bromofluorobenzene	30.000	30.100	-0.3	98	0.00
61	M	Tetrachloroethene	20.000	19.275	3.6	89	0.00
62	M	Toluene	20.000	19.399	3.0	88	0.00
63	S	Toluene-d8	30.000	30.271	-0.9	97	0.00
64	M	Chlorobenzene	20.000	19.355	3.2	90	0.00
65		1,1,1,2-Tetrachloroethane	20.000	19.199	4.0	89	0.00
66	M	Ethyl Benzene	20.000	19.321	3.4	89	0.00
67	M	m/p-Xylenes	40.000	39.025	2.4	89	0.00
68	M	o-Xylene	20.000	19.734	1.3	90	0.00
69	M	Styrene	20.000	19.447	2.8	88	0.00
70		Isopropylbenzene	20.000	19.548	2.3	90	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	19.550	2.2	88	0.00
72		1,2,3-Trichloropropane	20.000	19.261	3.7	88	0.00
73		Bromobenzene	20.000	19.277	3.6	90	0.00
74		n-propylbenzene	20.000	19.794	1.0	90	0.00
75		2-Chlorotoluene	20.000	19.560	2.2	89	0.00
76		1,3,5-Trimethylbenzene	20.000	19.841	0.8	90	0.00
77		t-1,4-Dichloro-2-butene	20.000	18.038	9.8	89	0.00
78		4-Chlorotoluene	20.000	19.964	0.2	90	0.00
79		tert-butylbenzene	20.000	19.777	1.1	90	0.00
80		1,2,4-Trimethylbenzene	20.000	19.890	0.5	90	0.00
81		sec-Butylbenzene	20.000	19.611	1.9	89	0.00
82		p-Isopropyltoluene	20.000	19.884	0.6	90	0.00
83	M	1,3-Dichlorobenzene	20.000	19.658	1.7	90	0.00
84	M	1,4-Dichlorobenzene	20.000	19.878	0.6	90	0.00
85		n-Butylbenzene	20.000	19.790	1.1	89	0.00
86	T	Hexachloroethane	20.000	19.242	3.8	90	0.00
87	M	1,2-Dichlorobenzene	20.000	19.751	1.2	90	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	19.157	4.2	89	0.00
89		1,2,4-Trichlorobenzene	20.000	19.764	1.2	92	0.00
90		Hexachlorobutadiene	20.000	20.031	-0.2	93	0.00
91	M	Naphthalene	20.000	19.272	3.6	90	0.00
92		1,2,3-Trichlorobenzene	20.000	19.375	3.1	89	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: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2302 SAS No.: Q2302 SDG No.: Q2302

Instrument ID: MSVOA_X Calibration Date/Time: 06/13/2025 09:26

Lab File ID: VX046675.D Init. Calib. Date(s): 06/10/2025 06/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 20:19 21:44

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Acrolein	0.221	0.231		4.53	
Acrylonitrile	0.928	0.872		-6.03	
1,2-Dichloroethane-d4	2.428	2.437	0.01	0.37	
Toluene-d8	1.340	1.367	0.01	2.02	
4-Bromofluorobenzene	0.506	0.513	0.2	1.38	

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_X\Data\VX061325\
Data File : VX046675.D
Acq On : 13 Jun 2025 09:26
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 13 22:59:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone

06/16/2025
Supervised By :Mahesh Dadoda

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.903	128	24017	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	128745	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	115567	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	58529	30.106	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.367%			
60) 4-Bromofluorobenzene	11.079	95	59238	30.411	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.367%			
63) Toluene-d8	8.647	98	158024	30.612	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	31634	20.260	ug/l	99
3) Chloromethane	1.306	50	30296	18.832	ug/l	98
4) Vinyl Chloride	1.386	62	29336	18.915	ug/l	98
5) Bromomethane	1.629	94	17540	18.937	ug/l	96
6) Chloroethane	1.703	64	16058	18.022	ug/l	97
7) Trichlorofluoromethane	1.904	101	43707	19.675	ug/l	93
8) Diethyl Ether	2.148	74	14246	18.303	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.343	101	29170	19.736	ug/l	98
10) 1,1-Dichloroethene	2.337	96	27330	19.062	ug/l	99
11) Methyl Iodide	2.465	142	30442	15.574	ug/l	97
12) Methyl Acetate	2.715	43	27986	15.486	ug/l	98
13) Acrolein	2.251	56	18506	104.503	ug/l	97
14) Acrylonitrile	3.074	53	69774	93.951	ug/l	100
15) Acetone	2.385	58	19389	114.171	ug/l	82
16) Carbon Disulfide	2.526	76	78227	19.666	ug/l	100
17) Allyl chloride	2.678	41	48879	18.791	ug/l	97
18) Methylene Chloride	2.800	84	30831	19.485	ug/l	94
19) trans-1,2-Dichloroethene	3.105	96	29531	19.876	ug/l	95
20) Diisopropyl ether	3.769	45	96613	19.631	ug/l	96
21) 1,1-Dichloroethane	3.617	63	55191	19.573	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	33922	19.583	ug/l	97
23) tert-Butyl Alcohol	2.959	59	14935	99.569	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	85850	19.602	ug/l	96
25) Chloroform	5.098	83	59827	20.613	ug/l	96
26) Cyclohexane	5.482	56	51616	20.063	ug/l #	99
29) 1,1-Dichloropropene	5.702	75	41144	20.312	ug/l	97
30) 2-Butanone	4.562	43	82182	91.052	ug/l	98
31) 2,2-Dichloropropane	4.483	77	41226	22.925	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	51671	20.644	ug/l	97
33) Carbon Tetrachloride	5.684	117	45887	20.657	ug/l	97
34) Benzene	6.043	78	120241	20.204	ug/l	98
35) Methacrylonitrile	4.928	41	20902	18.885	ug/l	94
36) 1,2-Dichloroethane	6.092	62	46205	20.520	ug/l #	89
37) Trichloroethene	7.129	130	29726	19.905	ug/l	91
38) Methylcyclohexane	7.378	83	52142	20.279	ug/l	98
39) 1,2-Dichloropropane	7.433	63	29960	20.181	ug/l	95
40) Dibromomethane	7.580	93	22001	19.824	ug/l	97
41) Bromodichloromethane	7.824	83	46462	20.549	ug/l #	97
42) Vinyl Acetate	3.733	43	377087	96.822	ug/l	97

06/16/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046675.D
Acq On : 13 Jun 2025 09:26
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 13 22:59:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone
06/16/2025
Supervised By :Mahesh Dadoda
06/16/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	4.726	43	31684	16.572 ug/l #	82
44) Isopropyl Acetate	6.342	43	61253	20.482 ug/l	99
45) 1,4-Dioxane	7.659	88	8463	448.633 ug/l	98
46) Methyl methacrylate	7.695	41	31830	19.493 ug/l	98
47) n-amyl Acetate	10.841	43	53456	19.984 ug/l	99
48) t-1,3-Dichloropropene	8.976	75	40691	20.075 ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	46536	20.564 ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	28630	20.468 ug/l	95
51) Ethyl methacrylate	9.116	69	41303	19.420 ug/l	97
52) 1,3-Dichloropropane	9.305	76	48773	20.019 ug/l	98
53) Dibromochloromethane	9.518	129	33414	20.267 ug/l	98
54) 1,2-Dibromoethane	9.610	107	28958	19.682 ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	113237	101.947 ug/l	99
56) Bromoform	10.799	173	20996	20.608 ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	190294	101.230 ug/l	100
59) 2-Hexanone	9.427	43	129181	97.411 ug/l	98
61) Tetrachloroethene	9.274	164	24794	20.471 ug/l	95
62) Toluene	8.720	91	128392	20.500 ug/l	100
64) Chlorobenzene	10.079	112	81714	20.228 ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.158	131	27319	20.179 ug/l	97
66) Ethyl Benzene	10.195	91	144940	20.268 ug/l	96
67) m/p-Xylenes	10.299	106	109566	41.422 ug/l	97
68) o-Xylene	10.640	106	50880	19.978 ug/l	99
69) Styrene	10.652	104	89302	20.457 ug/l	99
70) Isopropylbenzene	10.963	105	137877	20.173 ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	40436	20.140 ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	33671m	20.088 ug/l	
73) Bromobenzene	11.195	156	32460	20.261 ug/l	98
74) n-propylbenzene	11.305	91	169567	20.748 ug/l	99
75) 2-Chlorotoluene	11.359	91	100808	20.604 ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	117291	20.654 ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	11548	20.395 ug/l	94
78) 4-Chlorotoluene	11.451	91	116583	20.595 ug/l	99
79) tert-butylbenzene	11.713	119	116483	20.568 ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	115023	20.509 ug/l	99
81) sec-Butylbenzene	11.890	105	148573	20.501 ug/l	99
82) p-Isopropyltoluene	12.006	119	124737	20.971 ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	61967	20.779 ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	60680	20.233 ug/l	97
85) n-Butylbenzene	12.329	91	120673	21.059 ug/l	99
86) Hexachloroethane	12.536	117	21102	20.427 ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	59340	20.683 ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	8196	19.789 ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	38191	20.191 ug/l	99
90) Hexachlorobutadiene	13.719	225	16196	19.446 ug/l	99
91) Naphthalene	13.774	128	117145	19.521 ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	38780	20.887 ug/l	99

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

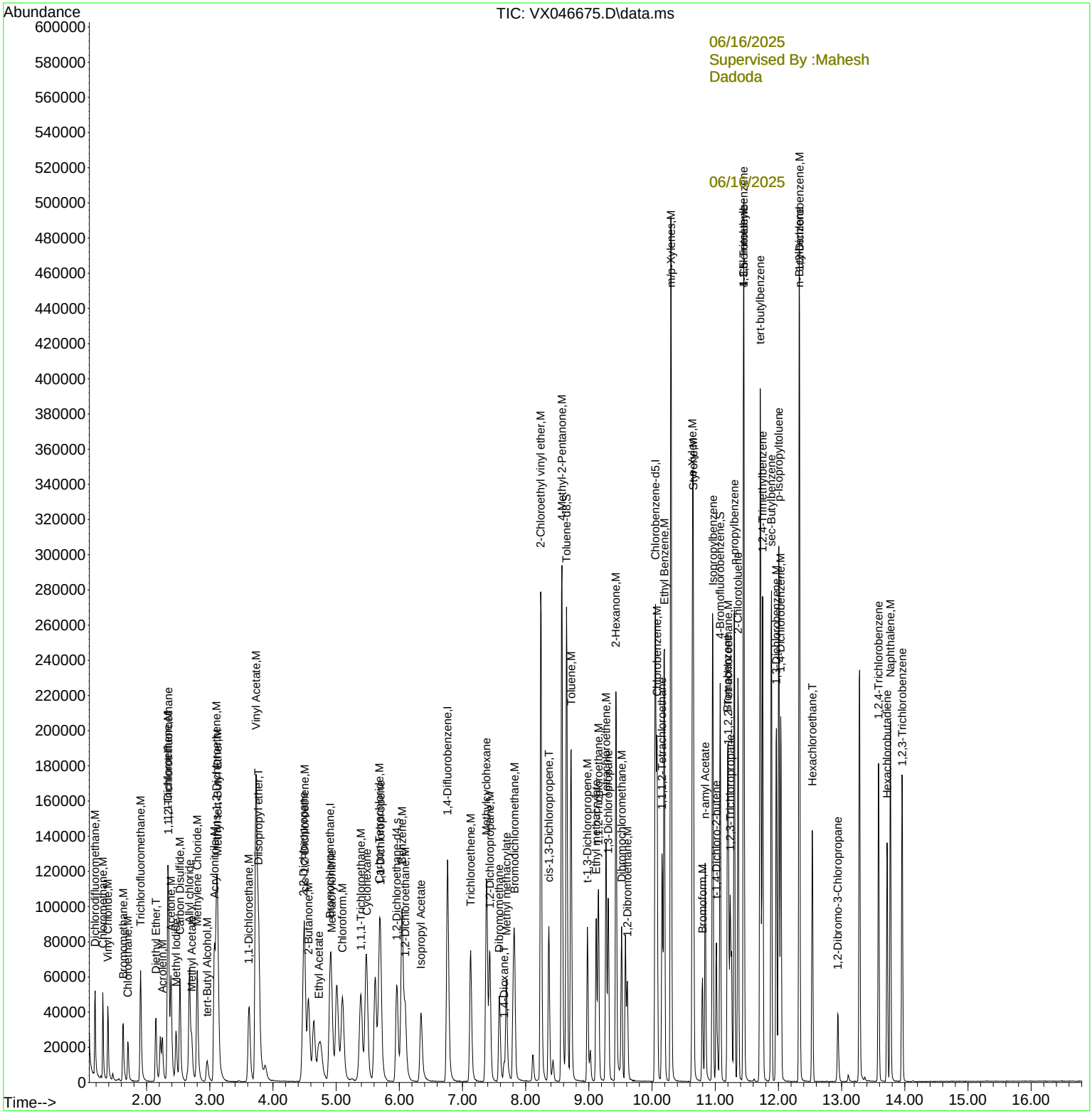
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046675.D
Acq On : 13 Jun 2025 09:26
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 13 22:59:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone



Sample Results: **VX046675.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046675.D
Acq On : 13 Jun 2025 09:26
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC020

Quant Time: Jun 13 22:59:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 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	121	-0.01
2	M	Dichlorodifluoromethane	1.950	1.976	-1.3	117	0.00
3	M	Chloromethane	2.010	1.892	5.9	108	0.00
4	M	Vinyl Chloride	1.937	1.832	5.4	109	0.00
5	M	Bromomethane	1.157	1.095	5.4	103	0.00
6	M	Chloroethane	1.113	1.003	9.9	110	0.00
7	M	Trichlorofluoromethane	2.775	2.730	1.6	111	0.00
8	T	Diethyl Ether	0.972	0.890	8.4	104	0.00
9		1,1,2-Trichlorotrifluoroeth	1.846	1.822	1.3	114	0.00
10	M	1,1-Dichloroethene	1.791	1.707	4.7	112	0.00
11		Methyl Iodide	2.442	1.901	22.2	91	0.00
12		Methyl Acetate	2.257	1.748	22.6	68	0.00
13	M	Acrolein	0.221	0.231	-4.5	135	0.00
14	M	Acrylonitrile	0.928	0.872	6.0	108	0.00
15	M	Acetone	0.212	0.242	-14.2	132	0.00
16	M	Carbon Disulfide	4.969	4.886	1.7	114	0.00
17		Allyl chloride	3.249	3.053	6.0	109	0.00
18	M	Methylene Chloride	1.976	1.926	2.5	112	0.00
19	M	trans-1,2-Dichloroethene	1.856	1.844	0.6	116	0.00
20	T	Diisopropyl ether	6.147	6.034	1.8	112	0.00
21	M	1,1-Dichloroethane	3.522	3.447	2.1	113	-0.01
22	M	cis-1,2-Dichloroethene	2.164	2.119	2.1	112	0.00
23	M	tert-Butyl Alcohol	0.187	0.187	0.0	122	0.00
24	M	Methyl tert-Butyl Ether	5.471	5.362	2.0	113	0.00
25	M	Chloroform	3.625	3.737	-3.1	118	0.00
26		Cyclohexane	3.214	3.224	-0.3	115	0.00
27	s	1,2-Dichloroethane-d4	2.428	2.437	-0.4	121	-0.01
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	123	0.00
29		1,1-Dichloropropene	0.472	0.479	-1.5	114	0.00
30	M	2-Butanone	0.210	0.191	9.0	105	0.00
31		2,2-Dichloropropane	0.419	0.480	-14.6	135	-0.01
32	M	1,1,1-Trichloroethane	0.583	0.602	-3.3	118	0.00
33	M	Carbon Tetrachloride	0.518	0.535	-3.3	118	0.00
34	M	Benzene	1.387	1.401	-1.0	115	0.00
35		Methacrylonitrile	0.258	0.244	5.4	113	-0.01
36	M	1,2-Dichloroethane	0.525	0.538	-2.5	114	0.00
37	M	Trichloroethene	0.348	0.346	0.6	116	0.00
38		Methylcyclohexane	0.599	0.608	-1.5	119	0.00
39	M	1,2-Dichloropropane	0.346	0.349	-0.9	116	0.00
40		Dibromomethane	0.259	0.256	1.2	114	-0.01
41	M	Bromodichloromethane	0.527	0.541	-2.7	116	0.00
42	M	Vinyl Acetate	0.908	0.879	3.2	125	0.00
43		Ethyl Acetate	0.446	0.369	17.3	96	0.00
44		Isopropyl Acetate	0.697	0.714	-2.4	123	0.00
45	T	1,4-Dioxane	0.004	0.005	-25.0	127	0.00
46		Methyl methacrylate	0.380	0.371	2.4	112	0.00
47		n-amyl Acetate	0.623	0.623	0.0	136	0.00
48	M	t-1,3-Dichloropropene	0.472	0.474	-0.4	123	0.00

Sample Results: **VX046675.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046675.D
Acq On : 13 Jun 2025 09:26
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC020

Quant Time: Jun 13 22:59:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 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	0.527	0.542	-2.8	122	0.00
50	M	1,1,2-Trichloroethane	0.326	0.334	-2.5	117	0.00
51		Ethyl methacrylate	0.496	0.481	3.0	115	0.00
52		1,3-Dichloropropane	0.568	0.568	0.0	112	0.00
53	M	Dibromochloromethane	0.384	0.389	-1.3	118	0.00
54	M	1,2-Dibromoethane	0.343	0.337	1.7	115	0.00
55	M	2-Chloroethyl vinyl ether	0.259	0.264	-1.9	114	0.00
56	M	Bromoform	0.237	0.245	-3.4	121	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	119	0.00
58	M	4-Methyl-2-Pentanone	0.488	0.494	-1.2	113	0.00
59	M	2-Hexanone	0.344	0.335	2.6	109	0.00
60	S	4-Bromofluorobenzene	0.506	0.513	-1.4	121	0.00
61	M	Tetrachloroethene	0.314	0.322	-2.5	116	0.00
62	M	Toluene	1.626	1.666	-2.5	114	0.00
63	S	Toluene-d8	1.340	1.367	-2.0	121	0.00
64	M	Chlorobenzene	1.049	1.061	-1.1	115	0.00
65		1,1,1,2-Tetrachloroethane	0.351	0.355	-1.1	114	0.00
66	M	Ethyl Benzene	1.856	1.881	-1.3	114	0.00
67	M	m/p-Xylenes	0.687	0.711	-3.5	116	0.00
68	M	o-Xylene	0.661	0.660	0.2	112	0.00
69	M	Styrene	1.133	1.159	-2.3	113	0.00
70		Isopropylbenzene	1.774	1.790	-0.9	114	0.00
71	M	1,1,2,2-Tetrachloroethane	0.521	0.525	-0.8	111	0.00
72		1,2,3-Trichloropropane	0.435	0.437	-0.5	112	0.00
73		Bromobenzene	0.416	0.421	-1.2	116	0.00
74		n-propylbenzene	2.122	2.201	-3.7	116	0.00
75		2-Chlorotoluene	1.270	1.308	-3.0	115	0.00
76		1,3,5-Trimethylbenzene	1.474	1.522	-3.3	115	0.00
77		t-1,4-Dichloro-2-butene	0.147	0.150	-2.0	123	0.00
78		4-Chlorotoluene	1.469	1.513	-3.0	113	0.00
79		tert-butylbenzene	1.470	1.512	-2.9	115	0.00
80		1,2,4-Trimethylbenzene	1.456	1.493	-2.5	114	0.00
81		sec-Butylbenzene	1.881	1.928	-2.5	115	0.00
82		p-Isopropyltoluene	1.544	1.619	-4.9	116	0.00
83	M	1,3-Dichlorobenzene	0.774	0.804	-3.9	116	0.00
84	M	1,4-Dichlorobenzene	0.779	0.788	-1.2	112	0.00
85		n-Butylbenzene	1.488	1.566	-5.2	117	0.00
86	T	Hexachloroethane	0.268	0.274	-2.2	117	0.00
87	M	1,2-Dichlorobenzene	0.745	0.770	-3.4	115	0.00
88		1,2-Dibromo-3-Chloropropane	0.108	0.106	1.9	113	0.00
89		1,2,4-Trichlorobenzene	0.491	0.496	-1.0	115	0.00
90		Hexachlorobutadiene	0.216	0.210	2.8	110	0.00
91	M	Naphthalene	1.558	1.520	2.4	112	0.00
92		1,2,3-Trichlorobenzene	0.482	0.503	-4.4	118	0.00

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

Sample Results: **VX046675.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046675.D
Acq On : 13 Jun 2025 09:26
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC020

Quant Time: Jun 13 22:59:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 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	121	-0.01
2	M	Dichlorodifluoromethane	20.000	20.260	-1.3	117	0.00
3	M	Chloromethane	20.000	18.832	5.8	108	0.00
4	M	Vinyl Chloride	20.000	18.915	5.4	109	0.00
5	M	Bromomethane	20.000	18.937	5.3	103	0.00
6	M	Chloroethane	20.000	18.022	9.9	110	0.00
7	M	Trichlorofluoromethane	20.000	19.675	1.6	111	0.00
8	T	Diethyl Ether	20.000	18.303	8.5	104	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	19.736	1.3	114	0.00
10	M	1,1-Dichloroethene	20.000	19.062	4.7	112	0.00
11		Methyl Iodide	20.000	15.574	22.1	91	0.00
12		Methyl Acetate	20.000	15.486	22.6	68	0.00
13	M	Acrolein	100.000	104.503	-4.5	135	0.00
14	M	Acrylonitrile	100.000	93.951	6.0	108	0.00
15	M	Acetone	100.000	114.171	-14.2	132	0.00
16	M	Carbon Disulfide	20.000	19.666	1.7	114	0.00
17		Allyl chloride	20.000	18.791	6.0	109	0.00
18	M	Methylene Chloride	20.000	19.485	2.6	112	0.00
19	M	trans-1,2-Dichloroethene	20.000	19.876	0.6	116	0.00
20	T	Diisopropyl ether	20.000	19.631	1.8	112	0.00
21	M	1,1-Dichloroethane	20.000	19.573	2.1	113	-0.01
22	M	cis-1,2-Dichloroethene	20.000	19.583	2.1	112	0.00
23	M	tert-Butyl Alcohol	100.000	99.569	0.4	122	0.00
24	M	Methyl tert-Butyl Ether	20.000	19.602	2.0	113	0.00
25	M	Chloroform	20.000	20.613	-3.1	118	0.00
26		Cyclohexane	20.000	20.063	-0.3	115	0.00
27	s	1,2-Dichloroethane-d4	30.000	30.106	-0.4	121	-0.01
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	123	0.00
29		1,1-Dichloropropene	20.000	20.312	-1.6	114	0.00
30	M	2-Butanone	100.000	91.052	8.9	105	0.00
31		2,2-Dichloropropane	20.000	22.925	-14.6	135	-0.01
32	M	1,1,1-Trichloroethane	20.000	20.644	-3.2	118	0.00
33	M	Carbon Tetrachloride	20.000	20.657	-3.3	118	0.00
34	M	Benzene	20.000	20.204	-1.0	115	0.00
35		Methacrylonitrile	20.000	18.885	5.6	113	-0.01
36	M	1,2-Dichloroethane	20.000	20.520	-2.6	114	0.00
37	M	Trichloroethene	20.000	19.905	0.5	116	0.00
38		Methylcyclohexane	20.000	20.279	-1.4	119	0.00
39	M	1,2-Dichloropropane	20.000	20.181	-0.9	116	0.00
40		Dibromomethane	20.000	19.824	0.9	114	-0.01
41	M	Bromodichloromethane	20.000	20.549	-2.7	116	0.00
42	M	Vinyl Acetate	100.000	96.822	3.2	125	0.00
43		Ethyl Acetate	20.000	16.572	17.1	96	0.00
44		Isopropyl Acetate	20.000	20.482	-2.4	123	0.00
45	T	1,4-Dioxane	400.000	448.633	-12.2	127	0.00
46		Methyl methacrylate	20.000	19.493	2.5	112	0.00
47		n-amyl Acetate	20.000	19.984	0.1	136	0.00
48	M	t-1,3-Dichloropropene	20.000	20.075	-0.4	123	0.00

Sample Results: **VX046675.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046675.D
Acq On : 13 Jun 2025 09:26
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC020

Quant Time: Jun 13 22:59:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 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	20.564	-2.8	122	0.00
50	M	1,1,2-Trichloroethane	20.000	20.468	-2.3	117	0.00
51		Ethyl methacrylate	20.000	19.420	2.9	115	0.00
52		1,3-Dichloropropane	20.000	20.019	-0.1	112	0.00
53	M	Dibromochloromethane	20.000	20.267	-1.3	118	0.00
54	M	1,2-Dibromoethane	20.000	19.682	1.6	115	0.00
55	M	2-Chloroethyl vinyl ether	100.000	101.947	-1.9	114	0.00
56	M	Bromoform	20.000	20.608	-3.0	121	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	119	0.00
58	M	4-Methyl-2-Pentanone	100.000	101.230	-1.2	113	0.00
59	M	2-Hexanone	100.000	97.411	2.6	109	0.00
60	S	4-Bromofluorobenzene	30.000	30.411	-1.4	121	0.00
61	M	Tetrachloroethene	20.000	20.471	-2.4	116	0.00
62	M	Toluene	20.000	20.500	-2.5	114	0.00
63	S	Toluene-d8	30.000	30.612	-2.0	121	0.00
64	M	Chlorobenzene	20.000	20.228	-1.1	115	0.00
65		1,1,1,2-Tetrachloroethane	20.000	20.179	-0.9	114	0.00
66	M	Ethyl Benzene	20.000	20.268	-1.3	114	0.00
67	M	m/p-Xylenes	40.000	41.422	-3.6	116	0.00
68	M	o-Xylene	20.000	19.978	0.1	112	0.00
69	M	Styrene	20.000	20.457	-2.3	113	0.00
70		Isopropylbenzene	20.000	20.173	-0.9	114	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	20.140	-0.7	111	0.00
72		1,2,3-Trichloropropane	20.000	20.088	-0.4	112	0.00
73		Bromobenzene	20.000	20.261	-1.3	116	0.00
74		n-propylbenzene	20.000	20.748	-3.7	116	0.00
75		2-Chlorotoluene	20.000	20.604	-3.0	115	0.00
76		1,3,5-Trimethylbenzene	20.000	20.654	-3.3	115	0.00
77		t-1,4-Dichloro-2-butene	20.000	20.395	-2.0	123	0.00
78		4-Chlorotoluene	20.000	20.595	-3.0	113	0.00
79		tert-butylbenzene	20.000	20.568	-2.8	115	0.00
80		1,2,4-Trimethylbenzene	20.000	20.509	-2.5	114	0.00
81		sec-Butylbenzene	20.000	20.501	-2.5	115	0.00
82		p-Isopropyltoluene	20.000	20.971	-4.9	116	0.00
83	M	1,3-Dichlorobenzene	20.000	20.779	-3.9	116	0.00
84	M	1,4-Dichlorobenzene	20.000	20.233	-1.2	112	0.00
85		n-Butylbenzene	20.000	21.059	-5.3	117	0.00
86	T	Hexachloroethane	20.000	20.427	-2.1	117	0.00
87	M	1,2-Dichlorobenzene	20.000	20.683	-3.4	115	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	19.789	1.1	113	0.00
89		1,2,4-Trichlorobenzene	20.000	20.191	-1.0	115	0.00
90		Hexachlorobutadiene	20.000	19.446	2.8	110	0.00
91	M	Naphthalene	20.000	19.521	2.4	112	0.00
92		1,2,3-Trichlorobenzene	20.000	20.887	-4.4	118	0.00

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

QC SAMPLE DATA

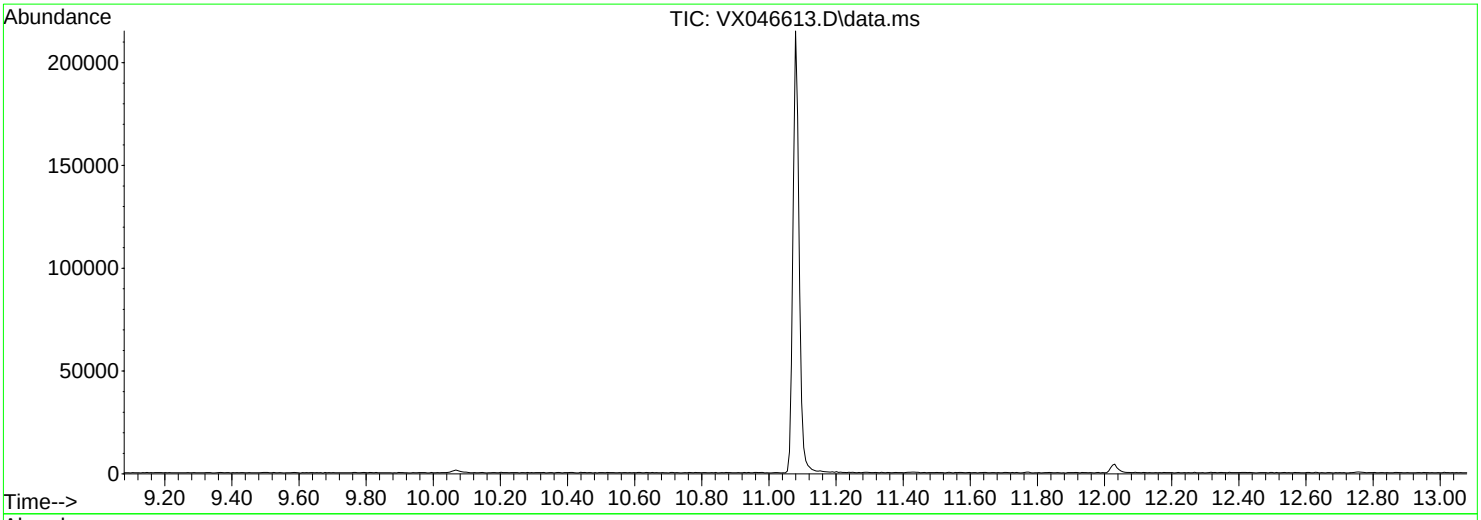
Sample Results: **VX046613.D**

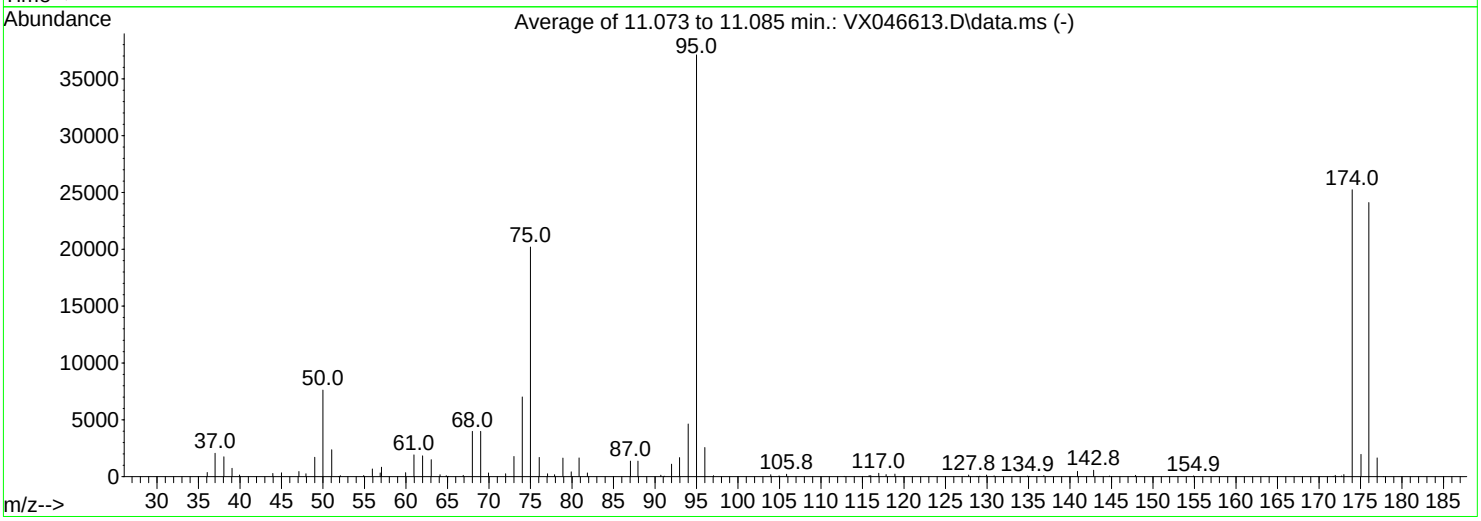
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046613.D
Acq On : 10 Jun 2025 19:57
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Title : SW846 8260
Last Update : Fri Jun 06 16:56:12 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	7615	PASS
75	95	30	60	54.4	20195	PASS
95	95	100	100	100.0	37107	PASS
96	95	5	9	6.9	2556	PASS
173	174	0.00	2	0.7	178	PASS
174	95	50	100	68.0	25240	PASS
175	174	5	9	7.8	1961	PASS
176	174	95	101	95.5	24109	PASS
177	176	5	9	6.8	1649	PASS

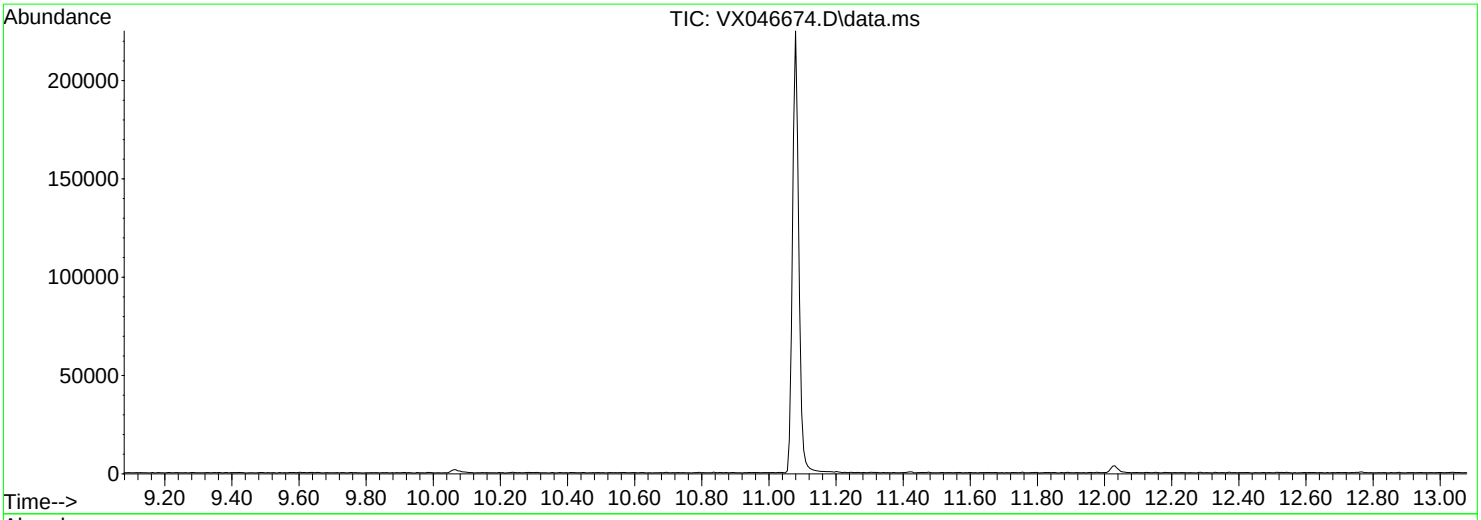
Sample Results: **VX046674.D**

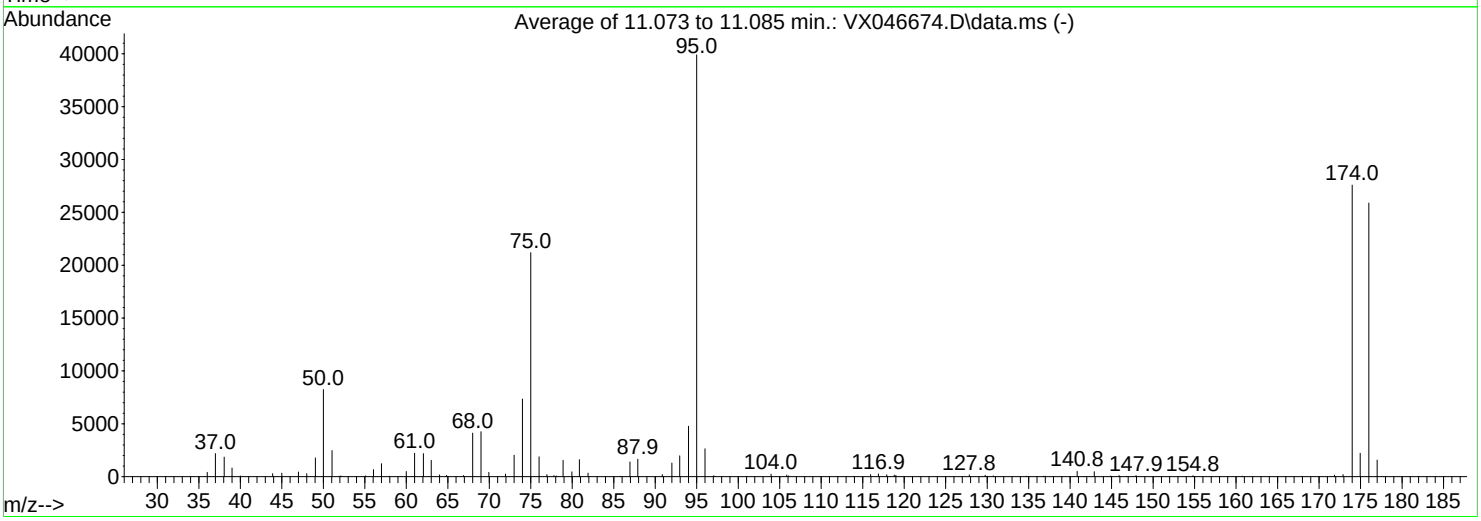
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046674.D
Acq On : 13 Jun 2025 08:50
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Wed Jun 11 06:20:28 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1633

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	8238	PASS
75	95	30	60	53.1	21195	PASS
95	95	100	100	100.0	39904	PASS
96	95	5	9	6.6	2631	PASS
173	174	0.00	2	0.7	200	PASS
174	95	50	100	69.1	27584	PASS
175	174	5	9	8.0	2209	PASS
176	174	95	101	93.8	25883	FAIL*
177	176	5	9	6.1	1580	PASS

Raw Data: **VX046678.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:	VX0613WBL01	SDG No.:	Q2302
Lab Sample ID:	VX0613WBL01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046678.D	1		06/13/25 10:47	VX061325

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	29.0		91 - 110	97%	SPK: 30
2037-26-5	Toluene-d8	29.2		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.8		63 - 112	96%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	18200	4.916			
540-36-3	1,4-Difluorobenzene	98600	6.769			
3114-55-4	Chlorobenzene-d5	90100	10.055			

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_X\Data\VX061325\
Data File : VX046678.D
Acq On : 13 Jun 2025 10:47
Operator : JC/MD
Sample : VX0613WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBL01

Quant Time: Jun 13 23:02:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.916	128	18213	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	98625	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	90050	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	42782	29.019	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 96.733%			
60) 4-Bromofluorobenzene	11.079	95	43724	28.807	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.033%			
63) Toluene-d8	8.653	98	117534	29.221	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.400%			
Target Compounds						Qvalue

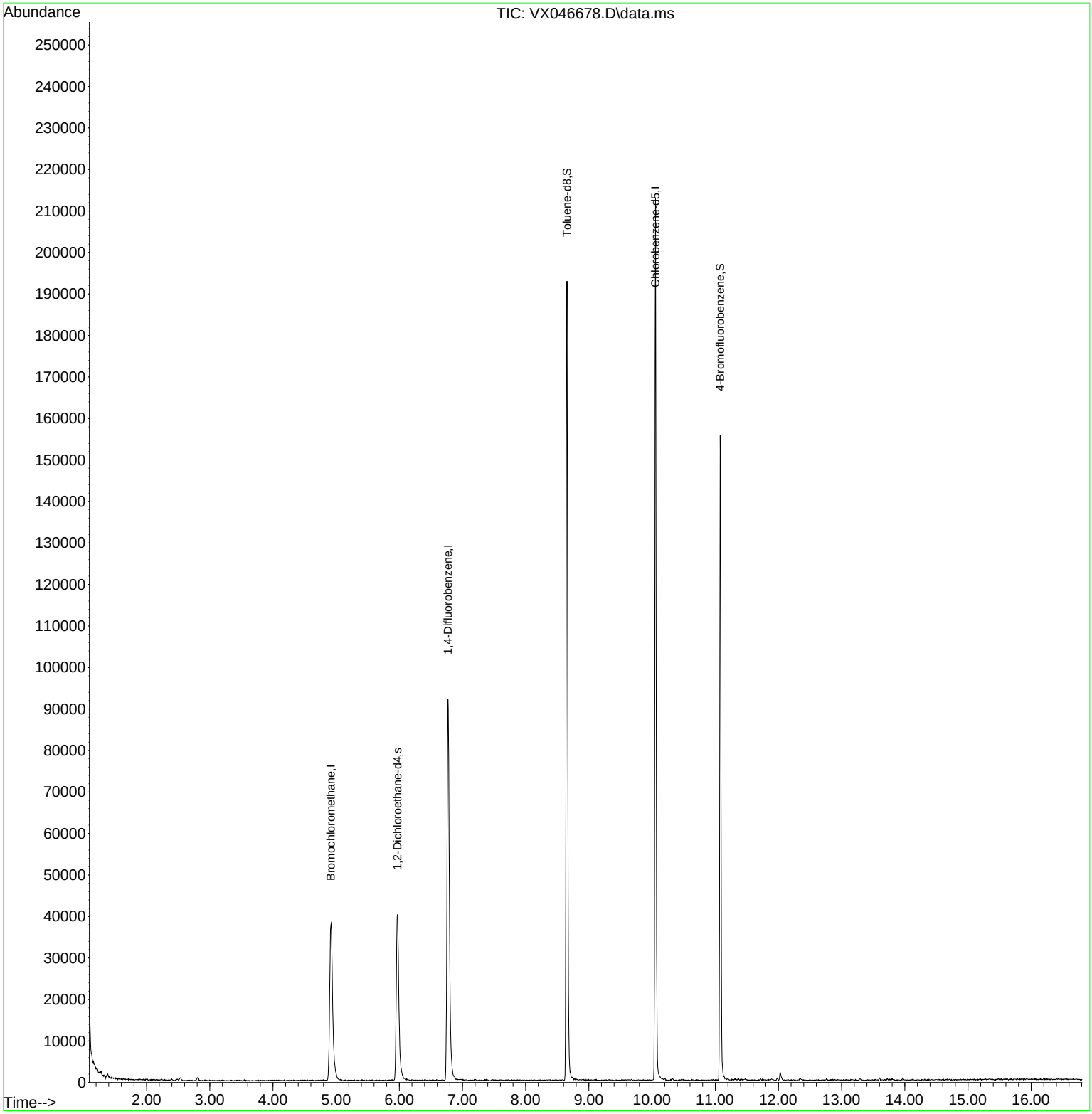
(#) = qualifier out of range (m) = manual integration (+) = signals summed

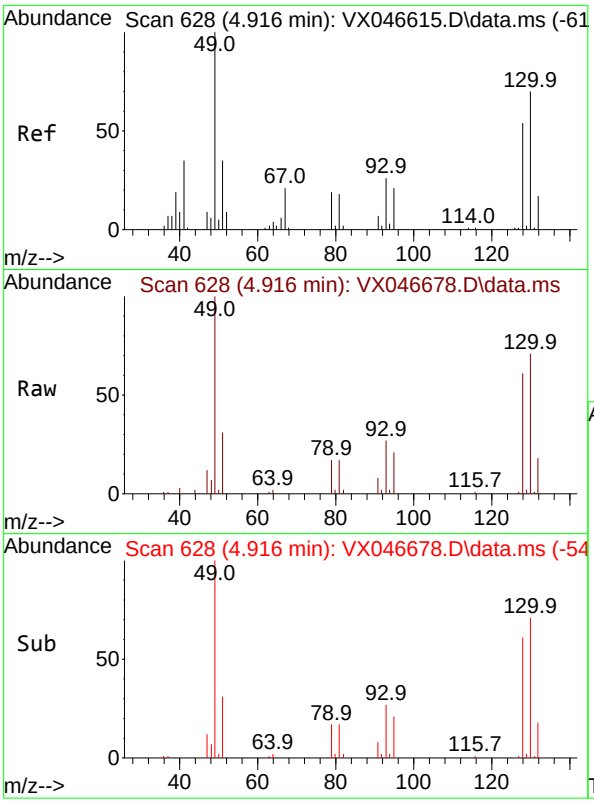
Sample Results: **VX046678.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046678.D
Acq On : 13 Jun 2025 10:47
Operator : JC/MD
Sample : VX0613WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBL01

Quant Time: Jun 13 23:02:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration



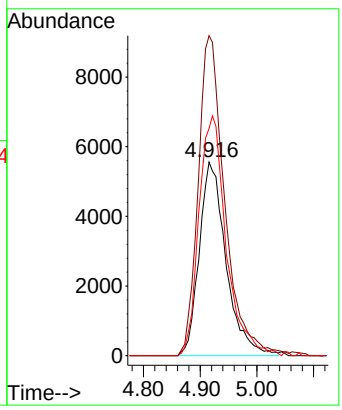


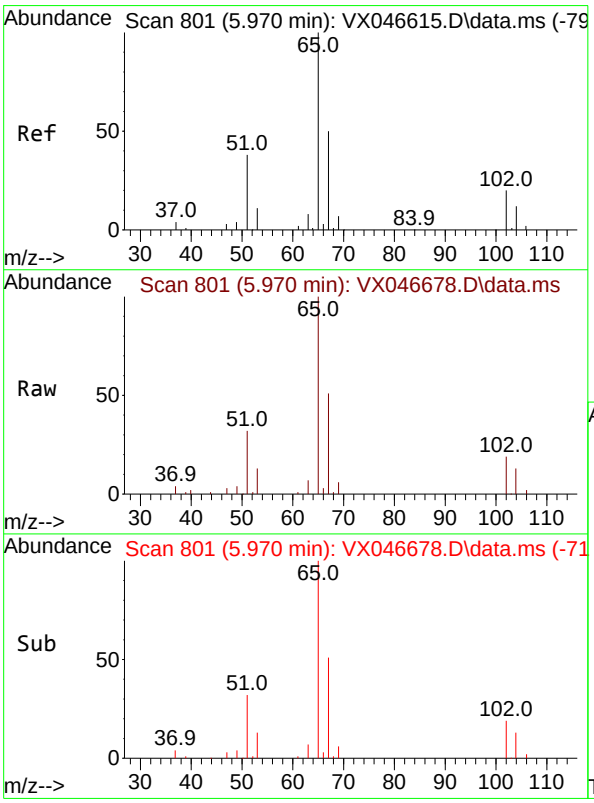
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046678.D
Acq: 13 Jun 2025 10:47

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBL01

Tgt Ion:128 Resp: 18213

Ion	Ratio	Lower	Upper
128	100		
49	163.9	0.0	448.3
130	124.7	0.0	312.0

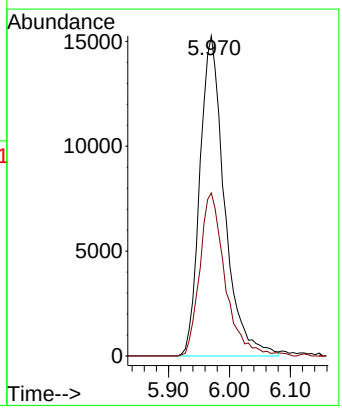


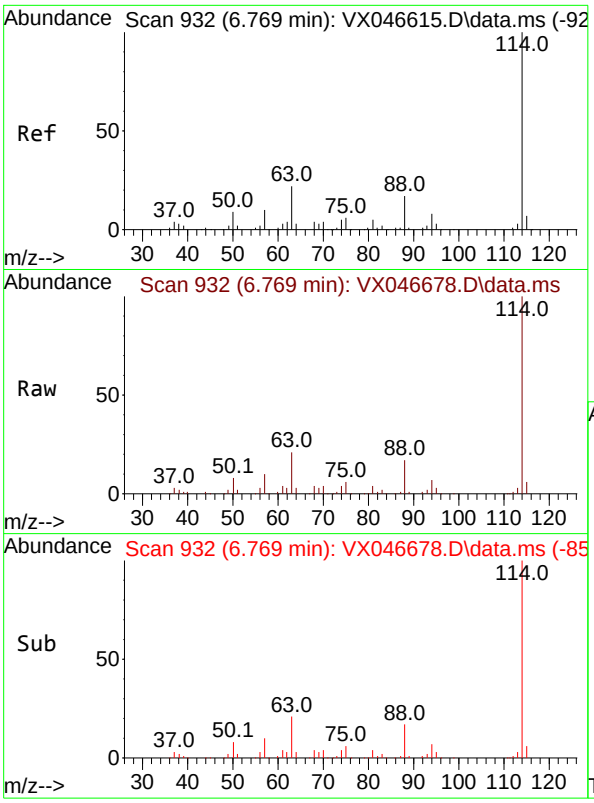


#27
1,2-Dichloroethane-d4
Concen: 29.019 ug/l
RT: 5.970 min Scan# 801
Delta R.T. -0.000 min
Lab File: VX046678.D
Acq: 13 Jun 2025 10:47

Tgt Ion: 65 Resp: 42782

Ion	Ratio	Lower	Upper
65	100		
67	52.1	41.4	62.2



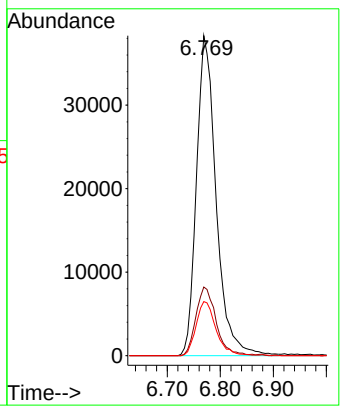


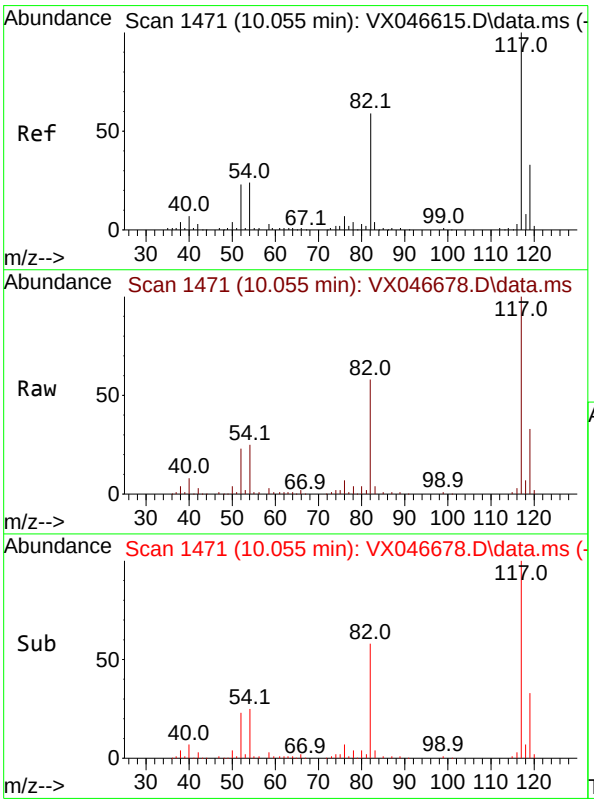
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.769 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046678.D
Acq: 13 Jun 2025 10:47

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBL01

Tgt Ion:114 Resp: 98625

Ion	Ratio	Lower	Upper
114	100		
63	21.9	18.1	27.1
88	17.1	14.1	21.1

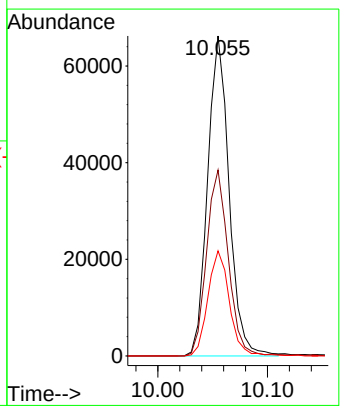


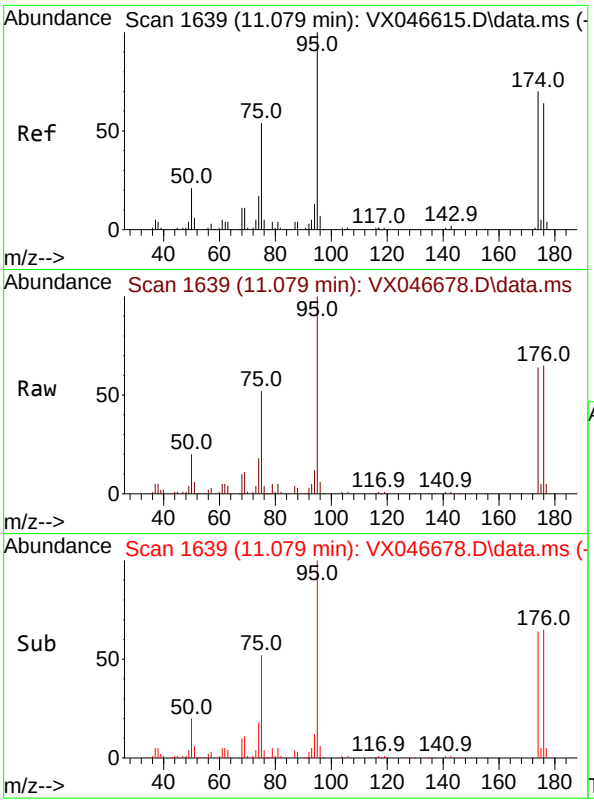


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046678.D
Acq: 13 Jun 2025 10:47

Tgt Ion:117 Resp: 90050

Ion	Ratio	Lower	Upper
117	100		
82	58.7	46.5	69.7
119	33.0	25.8	38.6



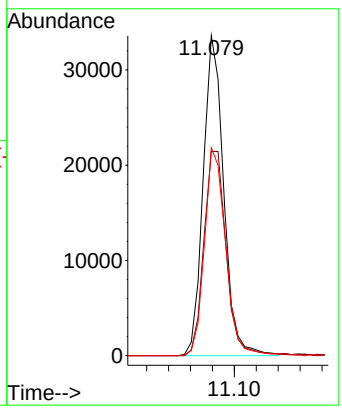


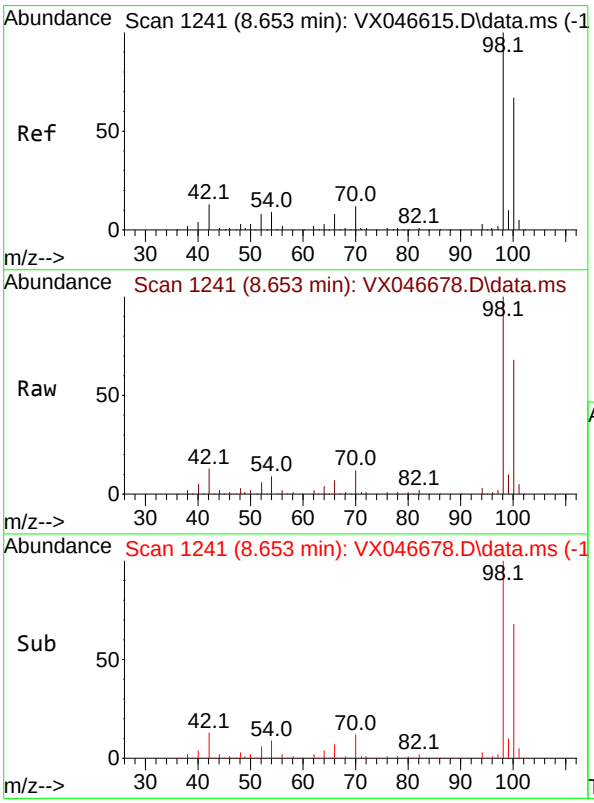
#60
4-Bromofluorobenzene
Concen: 28.807 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046678.D
Acq: 13 Jun 2025 10:47

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBL01

Tgt Ion: 95 Resp: 43724

Ion	Ratio	Lower	Upper
95	100		
174	69.5	56.0	84.0
176	66.7	52.2	78.4

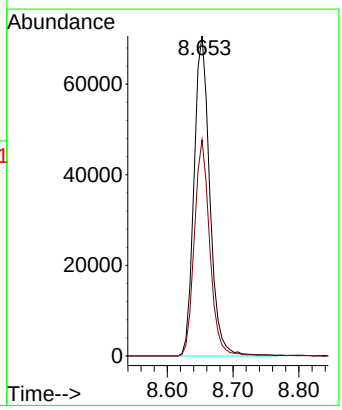




#63
Toluene-d8
Concen: 29.221 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX046678.D
Acq: 13 Jun 2025 10:47

Tgt Ion: 98 Resp: 117534

Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.6	79.0



Raw Data: **VX046676.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:	VX0613WBS01	SDG No.:	Q2302
Lab Sample ID:	VX0613WBS01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046676.D	1		06/13/25 09:58	VX061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	160		6.60	25.0	ug/L
107-13-1	Acrylonitrile	95.2		2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.7		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	30.1		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.7		63 - 112	102%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	19000	4.903			
540-36-3	1,4-Difluorobenzene	101000	6.763			
3114-55-4	Chlorobenzene-d5	91700	10.055			

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_X\Data\VX061325\
Data File : VX046676.D
Acq On : 13 Jun 2025 09:58
Operator : JC/MD
Sample : VX0613WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 13 23:00:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone
06/16/2025
Supervised By :Mahesh Dadoda
06/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.903	128	18987	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	100504	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	91686	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	45605	29.672	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.900%			
60) 4-Bromofluorobenzene	11.079	95	47393	30.667	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.233%			
63) Toluene-d8	8.646	98	123469	30.148	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.184	85	25269	20.470	ug/l	100
3) Chloromethane	1.306	50	24117	18.963	ug/l	99
4) Vinyl Chloride	1.386	62	22631	18.457	ug/l	95
5) Bromomethane	1.629	94	13116	17.912	ug/l	99
6) Chloroethane	1.703	64	12586	17.867	ug/l	96
7) Trichlorofluoromethane	1.904	101	33079	18.836	ug/l	99
8) Diethyl Ether	2.148	74	10695	17.381	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.343	101	22782	19.497	ug/l	98
10) 1,1-Dichloroethene	2.337	96	21314	18.805	ug/l	93
11) Methyl Iodide	2.465	142	25792	16.691	ug/l	98
12) Methyl Acetate	2.715	43	21982	15.386	ug/l	99
13) Acrolein	2.245	56	23021	164.439	ug/l	100
14) Acrylonitrile	3.074	53	55895	95.202	ug/l	99
15) Acetone	2.385	58	13613	101.395	ug/l	87
16) Carbon Disulfide	2.526	76	59591	18.950	ug/l	97
17) Allyl chloride	2.678	41	38550	18.746	ug/l	97
18) Methylene Chloride	2.800	84	25727	20.567	ug/l	95
19) trans-1,2-Dichloroethene	3.105	96	23314	19.849	ug/l	95
20) Diisopropyl ether	3.769	45	75322	19.359	ug/l	91
21) 1,1-Dichloroethane	3.623	63	43157	19.360	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	28108	20.526	ug/l	99
23) tert-Butyl Alcohol	2.958	59	11630	98.075	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	68177	19.690	ug/l	96
25) Chloroform	5.104	83	47577	20.735	ug/l	100
26) Cyclohexane	5.482	56	41820	20.562	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	32337	20.450	ug/l	97
30) 2-Butanone	4.562	43	69186	98.193	ug/l	99
31) 2,2-Dichloropropane	4.489	77	33804	24.080	ug/l	96
32) 1,1,1-Trichloroethane	5.391	97	41367	21.172	ug/l	98
33) Carbon Tetrachloride	5.684	117	36676	21.150	ug/l	95
34) Benzene	6.043	78	97131	20.907	ug/l	96
35) Methacrylonitrile	4.928	41	17731	20.522	ug/l	98
36) 1,2-Dichloroethane	6.092	62	35926	20.439	ug/l	98
37) Trichloroethene	7.128	130	24525	21.037	ug/l	96
38) Methylcyclohexane	7.378	83	42148	20.999	ug/l	97
39) 1,2-Dichloropropane	7.433	63	23721	20.468	ug/l #	90
40) Dibromomethane	7.586	93	17720	20.453	ug/l	98
41) Bromodichloromethane	7.823	83	37799	21.415	ug/l #	98
42) Vinyl Acetate	3.733	43	305807	100.583	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046676.D
Acq On : 13 Jun 2025 09:58
Operator : JC/MD
Sample : VX0613WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 13 23:00:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone
06/16/2025
Supervised By :Mahesh Dadoda
06/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.726	43	29739	19.925	ug/l #	89
44) Isopropyl Acetate	6.342	43	49966	21.402	ug/l	100
45) 1,4-Dioxane	7.665	88	6778	460.273	ug/l	97
46) Methyl methacrylate	7.695	41	25577	20.065	ug/l	97
47) n-amyl Acetate	10.841	43	45449	21.765	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	33000	20.856	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	37420	21.183	ug/l	100
50) 1,1,2-Trichloroethane	9.152	97	23253	21.295	ug/l	92
51) Ethyl methacrylate	9.116	69	32647	19.663	ug/l	96
52) 1,3-Dichloropropane	9.311	76	39577	20.809	ug/l	98
53) Dibromochloromethane	9.518	129	26919	20.916	ug/l	98
54) 1,2-Dibromoethane	9.610	107	23884	20.795	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	96924	111.780	ug/l	99
56) Bromoform	10.798	173	16955	21.318	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	156898	105.204	ug/l	100
59) 2-Hexanone	9.427	43	108033	102.682	ug/l	98
61) Tetrachloroethene	9.274	164	19962	20.775	ug/l	98
62) Toluene	8.720	91	103515	20.833	ug/l	99
64) Chlorobenzene	10.079	112	66023	20.601	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.158	131	22729	21.162	ug/l	98
66) Ethyl Benzene	10.195	91	117098	20.639	ug/l	100
67) m/p-Xylenes	10.299	106	89413	42.608	ug/l	99
68) o-Xylene	10.640	106	41990	20.782	ug/l	100
69) Styrene	10.652	104	73291	21.162	ug/l	99
70) Isopropylbenzene	10.963	105	115526	21.305	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	33309	20.912	ug/l	98
72) 1,2,3-Trichloropropane	11.237	75	27368m	20.581	ug/l	
73) Bromobenzene	11.195	156	26836	21.114	ug/l	96
74) n-propylbenzene	11.304	91	137949	21.276	ug/l	99
75) 2-Chlorotoluene	11.359	91	82655	21.294	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	95380	21.171	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9915	22.072	ug/l	93
78) 4-Chlorotoluene	11.451	91	96365	21.458	ug/l	98
79) tert-butylbenzene	11.713	119	95641	21.286	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	96859	21.769	ug/l	98
81) sec-Butylbenzene	11.890	105	122506	21.307	ug/l	100
82) p-Isopropyltoluene	12.006	119	102694	21.762	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	51315	21.689	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	52081	21.889	ug/l	99
85) n-Butylbenzene	12.329	91	99286	21.840	ug/l	100
86) Hexachloroethane	12.536	117	17414	21.248	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	49194	21.612	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	6805	20.710	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	32002	21.325	ug/l	98
90) Hexachlorobutadiene	13.725	225	13968	21.139	ug/l	98
91) Naphthalene	13.774	128	98632	20.717	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	31947	21.689	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046676.D
Acq On : 13 Jun 2025 09:58
Operator : JC/MD
Sample : VX0613WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

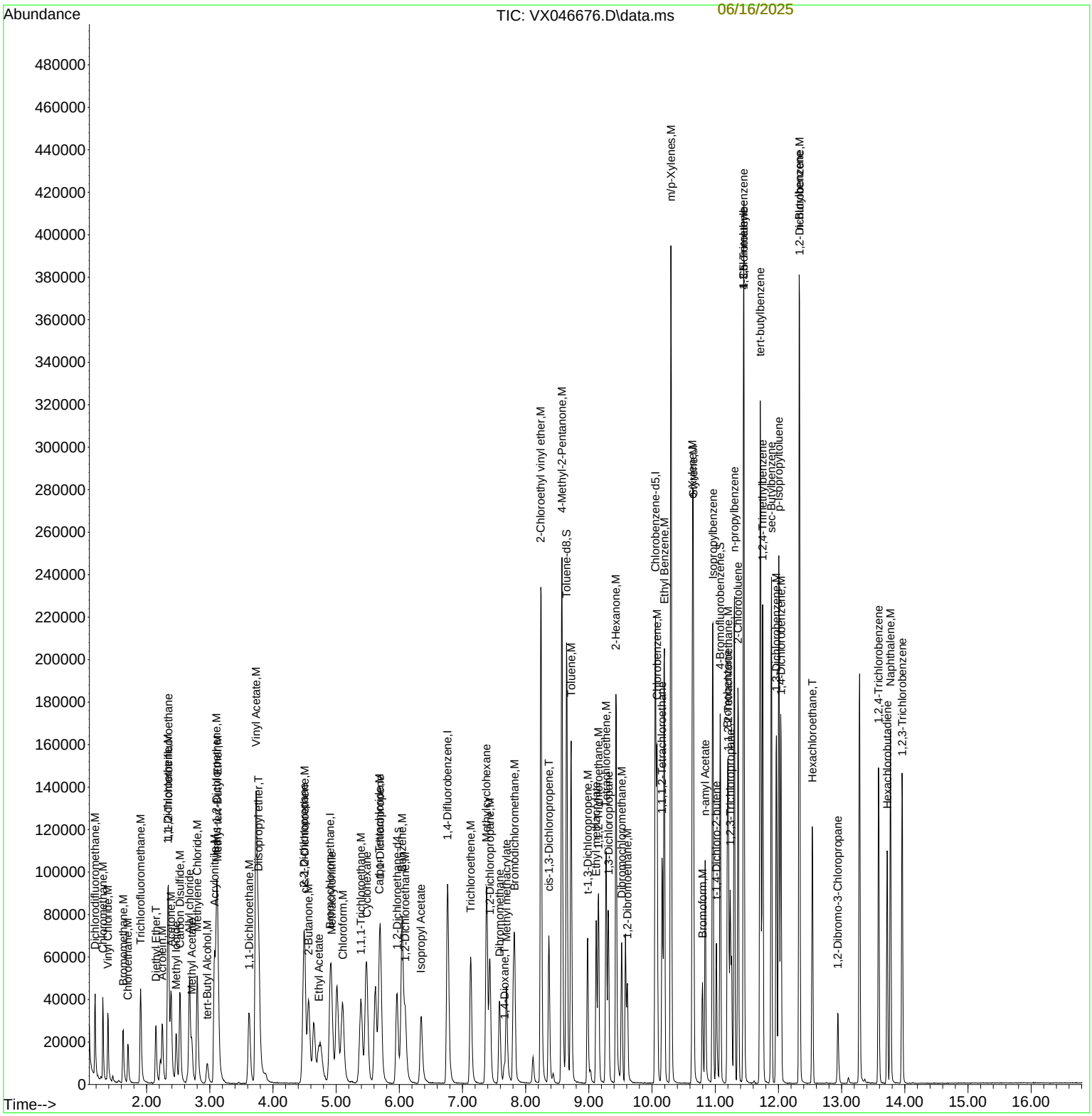
Quant Time: Jun 13 23:00:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone
06/16/2025

Supervised By :Mahesh Dadoda
06/16/2025



Raw Data: **VX046677.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:	VX0613WBSD01	SDG No.:	Q2302
Lab Sample ID:	VX0613WBSD01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046677.D	1		06/13/25 10:25	VX061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	190		6.60	25.0	ug/L
107-13-1	Acrylonitrile	100		2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.1		91 - 110	104%	SPK: 30
2037-26-5	Toluene-d8	29.8		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.8		63 - 112	99%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	17600	4.91			
540-36-3	1,4-Difluorobenzene	94900	6.763			
3114-55-4	Chlorobenzene-d5	87100	10.055			

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_X\Data\VX061325\
Data File : VX046677.D
Acq On : 13 Jun 2025 10:25
Operator : JC/MD
Sample : VX0613WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 13 23:01:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBSD01

Manual Integrations APPROVED
Reviewed By :John Carlone
06/16/2025
Supervised By :Mahesh Dadoda
06/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.910	128	17593	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	94872	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	87146	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	44259	31.078	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.600%			
60) 4-Bromofluorobenzene	11.079	95	43843	29.848	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.500%			
63) Toluene-d8	8.647	98	115874	29.768	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.233%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	22777	19.914	ug/l	99
3) Chloromethane	1.307	50	22632	19.205	ug/l	93
4) Vinyl Chloride	1.386	62	21208	18.667	ug/l	97
5) Bromomethane	1.630	94	12813	18.885	ug/l	93
6) Chloroethane	1.703	64	12656	19.390	ug/l	97
7) Trichlorofluoromethane	1.904	101	33940	20.857	ug/l	100
8) Diethyl Ether	2.148	74	11323	19.860	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	21463	19.824	ug/l	98
10) 1,1-Dichloroethene	2.337	96	20630	19.643	ug/l	95
11) Methyl Iodide	2.465	142	24245	16.933	ug/l	99
12) Methyl Acetate	2.715	43	23258	17.569	ug/l	97
13) Acrolein	2.246	56	24799	191.175	ug/l	98
14) Acrylonitrile	3.075	53	56604	104.048	ug/l	100
15) Acetone	2.392	58	14133	113.610	ug/l	82
16) Carbon Disulfide	2.526	76	56529	19.401	ug/l	99
17) Allyl chloride	2.678	41	36891	19.361	ug/l	91
18) Methylene Chloride	2.800	84	23625	20.383	ug/l	95
19) trans-1,2-Dichloroethene	3.105	96	22407	20.588	ug/l	94
20) Diisopropyl ether	3.770	45	76701	21.276	ug/l	88
21) 1,1-Dichloroethane	3.630	63	43176	20.903	ug/l	99
22) cis-1,2-Dichloroethene	4.507	96	26847	21.158	ug/l	98
23) tert-Butyl Alcohol	2.965	59	12725	115.812	ug/l #	100
24) Methyl tert-Butyl Ether	3.130	73	66490	20.725	ug/l	98
25) Chloroform	5.105	83	44840	21.091	ug/l	99
26) Cyclohexane	5.483	56	38696	20.533	ug/l #	99
29) 1,1-Dichloropropene	5.708	75	29546	19.794	ug/l	97
30) 2-Butanone	4.568	43	75613	113.685	ug/l	99
31) 2,2-Dichloropropane	4.489	77	31446	23.730	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	38082	20.647	ug/l	99
33) Carbon Tetrachloride	5.690	117	34605	21.141	ug/l	98
34) Benzene	6.044	78	91598	20.886	ug/l	97
35) Methacrylonitrile	4.922	41	17320m	21.236	ug/l	
36) 1,2-Dichloroethane	6.099	62	36651	22.089	ug/l	98
37) Trichloroethene	7.129	130	22565	20.505	ug/l	93
38) Methylcyclohexane	7.385	83	38800	20.478	ug/l	98
39) 1,2-Dichloropropane	7.434	63	22953	20.981	ug/l	95
40) Dibromomethane	7.586	93	16961	20.739	ug/l	97
41) Bromodichloromethane	7.824	83	35669	21.408	ug/l #	97
42) Vinyl Acetate	3.733	43	320274	111.595	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046677.D
Acq On : 13 Jun 2025 10:25
Operator : JC/MD
Sample : VX0613WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 13 23:01:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBSD01

Manual Integrations APPROVED
Reviewed By :John Carlone
06/16/2025
Supervised By :Mahesh Dadoda
06/16/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	4.727	43	30100	21.364 ug/l #	86
44) Isopropyl Acetate	6.349	43	49534	22.477 ug/l	100
45) 1,4-Dioxane	7.659	88	7079	509.251 ug/l #	94
46) Methyl methacrylate	7.696	41	25591	21.268 ug/l	97
47) n-amyl Acetate	10.842	43	45371	23.017 ug/l	98
48) t-1,3-Dichloropropene	8.982	75	32035	21.448 ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	36069	21.630 ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	22615	21.941 ug/l	91
51) Ethyl methacrylate	9.116	69	33611	21.446 ug/l	98
52) 1,3-Dichloropropane	9.305	76	38797	21.610 ug/l	97
53) Dibromochloromethane	9.519	129	26391	21.723 ug/l	99
54) 1,2-Dibromoethane	9.610	107	23421	21.602 ug/l	98
55) 2-Chloroethyl vinyl ether	8.245	63	97418	119.019 ug/l	98
56) Bromoform	10.799	173	16781	22.351 ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	157087	110.818 ug/l	100
59) 2-Hexanone	9.427	43	110775	110.773 ug/l	98
61) Tetrachloroethene	9.269	164	18869	20.660 ug/l	97
62) Toluene	8.720	91	98083	20.768 ug/l	100
64) Chlorobenzene	10.080	112	63092	20.712 ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	21571	21.130 ug/l	100
66) Ethyl Benzene	10.195	91	110168	20.430 ug/l	100
67) m/p-Xylenes	10.299	106	83886	42.056 ug/l	99
68) o-Xylene	10.640	106	40031	20.844 ug/l	97
69) Styrene	10.653	104	70016	21.270 ug/l	100
70) Isopropylbenzene	10.964	105	107313	20.822 ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	32975	21.780 ug/l	96
72) 1,2,3-Trichloropropane	11.238	75	28082m	22.218 ug/l	
73) Bromobenzene	11.195	156	25496	21.104 ug/l	98
74) n-propylbenzene	11.305	91	130610	21.193 ug/l	100
75) 2-Chlorotoluene	11.360	91	79811	21.632 ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	90986	21.248 ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9391	21.994 ug/l	96
78) 4-Chlorotoluene	11.451	91	92998	21.787 ug/l	100
79) tert-butylbenzene	11.713	119	90986	21.305 ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	90779	21.465 ug/l	99
81) sec-Butylbenzene	11.890	105	116849	21.382 ug/l	99
82) p-Isopropyltoluene	12.006	119	96516	21.518 ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	48878	21.735 ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	49397	21.843 ug/l	99
85) n-Butylbenzene	12.329	91	93306	21.594 ug/l	99
86) Hexachloroethane	12.536	117	15988	20.524 ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	47651	22.025 ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6875	22.014 ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	31164	21.849 ug/l	99
90) Hexachlorobutadiene	13.725	225	13305	21.185 ug/l	97
91) Naphthalene	13.774	128	98193	21.699 ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	30606	21.861 ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
Data File : VX046677.D
Acq On : 13 Jun 2025 10:25
Operator : JC/MD
Sample : VX0613WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

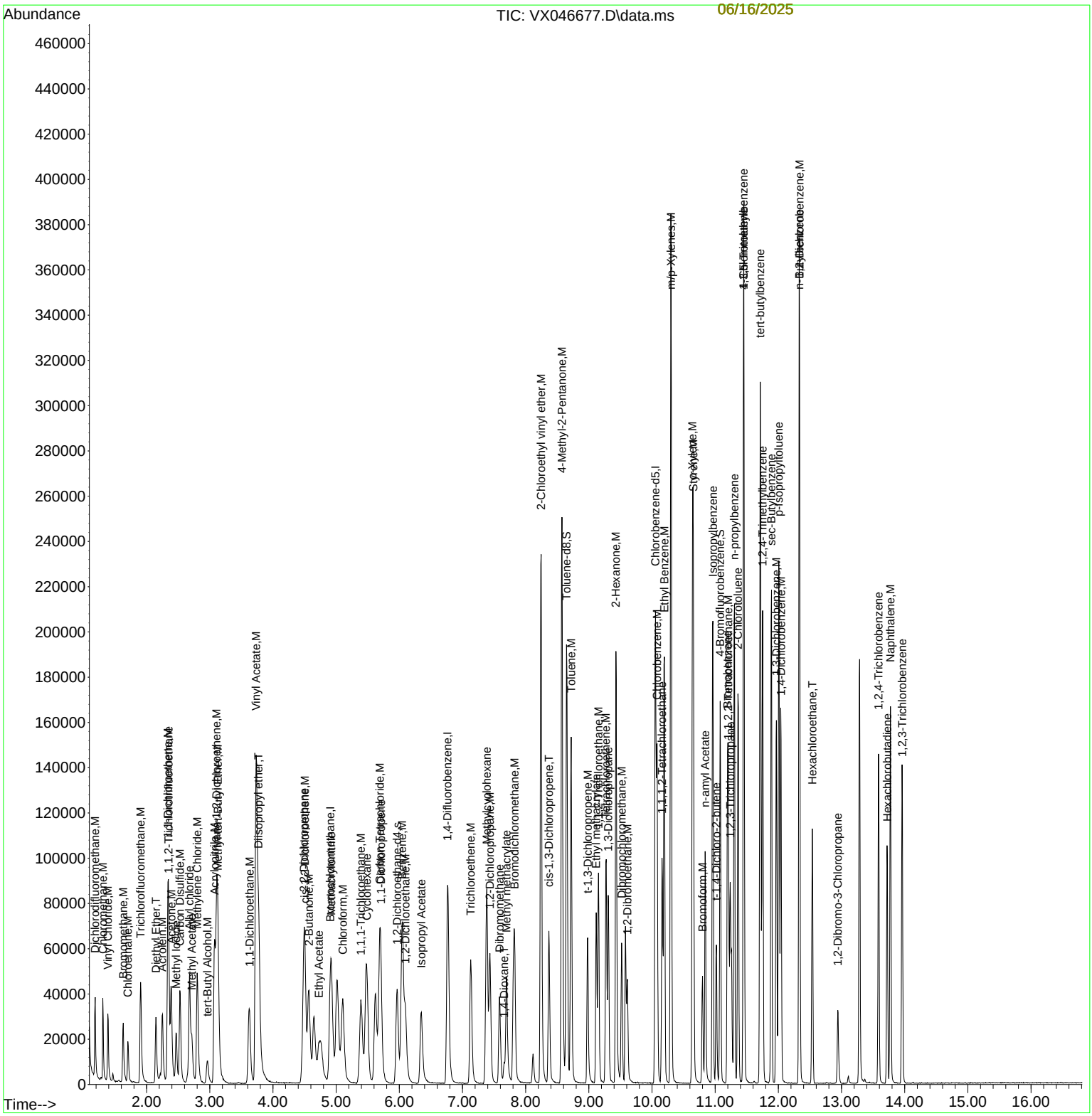
Quant Time: Jun 13 23:01:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0613WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone
06/16/2025

Supervised By :Mahesh Dadoda
06/16/2025



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

Manual Integration Report

Sequence:	VX061025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX046586.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:01:36 AM	MMDadoda	6/11/2025 11:13:23 AM	Peak Integrated by Software
VSTDCCC050	VX046612.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:02:50 AM	MMDadoda	6/11/2025 11:13:46 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	1,1,1-Trichloroethane	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	1,1-Dichloropropene	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	1,2-Dibromoethane	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	1,2-Dichloropropane	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	Acrolein	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	Diethyl Ether	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	Methyl methacrylate	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICCC020	VX046615.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:02:58 AM	MMDadoda	6/11/2025 11:13:51 AM	Peak Integrated by Software
VSTDICCC020	VX046615.D	Ethyl Acetate	JOHN	6/11/2025 10:02:58 AM	MMDadoda	6/11/2025 11:13:51 AM	Peak Integrated by Software
VSTDICC050	VX046616.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:03:09 AM	MMDadoda	6/11/2025 11:13:53 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX061025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VX046617.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:03:14 AM	MMDadoda	6/11/2025 11:13:55 AM	Peak Integrated by Software
VSTDICC100	VX046617.D	Ethyl Acetate	JOHN	6/11/2025 10:03:14 AM	MMDadoda	6/11/2025 11:13:55 AM	Peak Integrated by Software
VSTDICC150	VX046618.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:03:18 AM	MMDadoda	6/11/2025 11:13:57 AM	Peak Integrated by Software
VSTDICC150	VX046618.D	Ethyl Acetate	JOHN	6/11/2025 10:03:18 AM	MMDadoda	6/11/2025 11:13:57 AM	Peak Integrated by Software
VSTDICV020	VX046620.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:03:22 AM	MMDadoda	6/11/2025 11:13:59 AM	Peak Integrated by Software
VSTDICV020	VX046620.D	tert-Butyl Alcohol	JOHN	6/11/2025 10:03:22 AM	MMDadoda	6/11/2025 11:13:59 AM	Peak Integrated by Software
VSTDCCC020	VX046626.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:03:50 AM	MMDadoda	6/11/2025 11:14:07 AM	Peak Integrated by Software
VSTDCCC020	VX046626.D	Ethyl Acetate	JOHN	6/11/2025 10:03:50 AM	MMDadoda	6/11/2025 11:14:07 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vx061325	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VX046675.D	1,2,3-Trichloropropane	JOHN	6/16/2025 8:43:47 AM	MMDadoda	6/16/2025 5:03:58 PM	Peak Integrated by Software
VX0613WBS01	VX046676.D	1,2,3-Trichloropropane	JOHN	6/16/2025 8:43:52 AM	MMDadoda	6/16/2025 5:04:00 PM	Peak Integrated by Software
VX0613WBSD01	VX046677.D	1,2,3-Trichloropropane	JOHN	6/16/2025 8:43:57 AM	MMDadoda	6/16/2025 5:04:02 PM	Peak Integrated by Software
VX0613WBSD01	VX046677.D	Methacrylonitrile	JOHN	6/16/2025 8:43:57 AM	MMDadoda	6/16/2025 5:04:02 PM	Peak Integrated by Software
VSTDCCC050	VX046682.D	1,2,3-Trichloropropane	JOHN	6/16/2025 8:44:02 AM	MMDadoda	6/16/2025 5:04:04 PM	Peak Integrated by Software
VSTDCCC050	VX046702.D	1,2,3-Trichloropropane	JOHN	6/16/2025 8:44:29 AM	MMDadoda	6/16/2025 5:04:13 PM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX061025

Review By	John Carlone	Review On	6/11/2025 10:17:47 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/11/2025 11:14:33 AM		
SubDirectory	VX061025	HP Acquire Method		HP Processing Method	82X060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134200
Initial Calibration Stds	
CCC	VP134201,VP134202
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046585.D	10 Jun 2025 08:36	JC/MD	Ok
2	VSTDCCC050	VX046586.D	10 Jun 2025 09:07	JC/MD	Ok,M
3	VX0610MBL01	VX046587.D	10 Jun 2025 09:36	JC/MD	Ok
4	VX0610WBL01	VX046588.D	10 Jun 2025 09:57	JC/MD	Ok
5	VX0610WBS01	VX046589.D	10 Jun 2025 10:18	JC/MD	Ok,M
6	VX0610WBSD01	VX046590.D	10 Jun 2025 10:44	JC/MD	Ok,M
7	Q2262-02	VX046591.D	10 Jun 2025 11:05	JC/MD	Ok
8	Q2262-04	VX046592.D	10 Jun 2025 11:27	JC/MD	Ok
9	IBLK	VX046593.D	10 Jun 2025 11:48	JC/MD	Ok
10	Q2230-01	VX046594.D	10 Jun 2025 12:09	JC/MD	Ok
11	Q2230-06	VX046595.D	10 Jun 2025 12:30	JC/MD	Ok
12	Q2233-01DL	VX046596.D	10 Jun 2025 12:51	JC/MD	Ok
13	Q2233-03DL	VX046597.D	10 Jun 2025 13:13	JC/MD	Ok
14	Q2233-04DL	VX046598.D	10 Jun 2025 13:34	JC/MD	Ok
15	Q2234-01DL	VX046599.D	10 Jun 2025 13:55	JC/MD	Ok
16	IBLK	VX046600.D	10 Jun 2025 14:16	JC/MD	Ok
17	Q2230-05	VX046601.D	10 Jun 2025 14:38	JC/MD	Ok,M
18	Q2230-02	VX046602.D	10 Jun 2025 14:59	JC/MD	Ok,M
19	Q2230-03MS	VX046603.D	10 Jun 2025 15:20	JC/MD	Not Ok
20	Q2230-04MSD	VX046604.D	10 Jun 2025 15:42	JC/MD	Not Ok
21	IBLK	VX046605.D	10 Jun 2025 16:03	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX061025

Review By	John Carlone	Review On	6/11/2025 10:17:47 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/11/2025 11:14:33 AM		
SubDirectory	VX061025	HP Acquire Method		HP Processing Method	82X060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134200
Initial Calibration Stds	
CCC	VP134201,VP134202
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2249-01	VX046606.D	10 Jun 2025 16:24	JC/MD	Not Ok
23	IBLK	VX046607.D	10 Jun 2025 16:46	JC/MD	Ok
24	Q2233-01	VX046608.D	10 Jun 2025 17:07	JC/MD	Dilution
25	Q2233-03	VX046609.D	10 Jun 2025 17:28	JC/MD	Dilution
26	Q2233-04	VX046610.D	10 Jun 2025 17:50	JC/MD	Dilution
27	Q2234-01	VX046611.D	10 Jun 2025 18:11	JC/MD	Dilution
28	VSTDCCC050	VX046612.D	10 Jun 2025 18:53	JC/MD	Ok,M
29	BFB	VX046613.D	10 Jun 2025 19:57	JC/MD	Ok
30	VSTDICC005	VX046614.D	10 Jun 2025 20:19	JC/MD	Ok,M
31	VSTDICCC020	VX046615.D	10 Jun 2025 20:40	JC/MD	Ok,M
32	VSTDICC050	VX046616.D	10 Jun 2025 21:01	JC/MD	Ok,M
33	VSTDICC100	VX046617.D	10 Jun 2025 21:22	JC/MD	Ok,M
34	VSTDICC150	VX046618.D	10 Jun 2025 21:44	JC/MD	Ok,M
35	IBLK	VX046619.D	10 Jun 2025 22:05	JC/MD	Ok
36	VSTDICV020	VX046620.D	10 Jun 2025 22:26	JC/MD	Ok,M
37	VX0610WBS02	VX046621.D	10 Jun 2025 23:09	JC/MD	Ok,M
38	VX0610WBSD02	VX046622.D	10 Jun 2025 23:30	JC/MD	Ok,M
39	VX0610WBL02	VX046623.D	11 Jun 2025 00:12	JC/MD	Ok
40	Q2203-01	VX046624.D	11 Jun 2025 00:33	JC/MD	Dilution
41	Q2203-04	VX046625.D	11 Jun 2025 00:54	JC/MD	Dilution
42	VSTDCCC020	VX046626.D	11 Jun 2025 01:16	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX061325

Review By	John Carlone	Review On	6/16/2025 8:54:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/16/2025 5:04:15 PM		
SubDirectory	VX061325	HP Acquire Method		HP Processing Method	624X061025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134332,VP134335
Initial Calibration Stds	
CCC	VP134333,VP134334,VP134336,VP134337
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046674.D	13 Jun 2025 08:50	JC/MD	Ok
2	VSTDCCC020	VX046675.D	13 Jun 2025 09:26	JC/MD	Ok,M
3	VX0613WBS01	VX046676.D	13 Jun 2025 09:58	JC/MD	Ok,M
4	VX0613WBSD01	VX046677.D	13 Jun 2025 10:25	JC/MD	Ok,M
5	VX0613WBL01	VX046678.D	13 Jun 2025 10:47	JC/MD	Ok
6	Q2302-02	VX046679.D	13 Jun 2025 11:15	JC/MD	Ok
7	Q2302-01	VX046680.D	13 Jun 2025 11:37	JC/MD	Ok
8	BFB	VX046681.D	13 Jun 2025 11:58	JC/MD	Ok
9	VSTDCCC050	VX046682.D	13 Jun 2025 12:30	JC/MD	Ok,M
10	VX0613MBL01	VX046683.D	13 Jun 2025 12:58	JC/MD	Ok
11	VX0613WBL02	VX046684.D	13 Jun 2025 13:19	JC/MD	Ok
12	VX0613WBS02	VX046685.D	13 Jun 2025 13:45	JC/MD	Ok,M
13	VX0613WBSD02	VX046686.D	13 Jun 2025 14:09	JC/MD	Ok,M
14	PB168429TB	VX046687.D	13 Jun 2025 14:31	JC/MD	Ok
15	Q2287-02	VX046688.D	13 Jun 2025 14:53	JC/MD	ReRun
16	Q2295-04	VX046689.D	13 Jun 2025 15:14	JC/MD	Ok
17	Q2295-08	VX046690.D	13 Jun 2025 15:36	JC/MD	Ok,M
18	Q2296-04	VX046691.D	13 Jun 2025 15:57	JC/MD	Ok
19	Q2296-08	VX046692.D	13 Jun 2025 16:19	JC/MD	Ok
20	Q2296-12	VX046693.D	13 Jun 2025 16:41	JC/MD	Ok
21	Q2296-16	VX046694.D	13 Jun 2025 17:02	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX061325

Review By	John Carlone	Review On	6/16/2025 8:54:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/16/2025 5:04:15 PM		
SubDirectory	VX061325	HP Acquire Method		HP Processing Method	624X061025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134332,VP134335
Initial Calibration Stds	
CCC	VP134333,VP134334,VP134336,VP134337
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2296-20	VX046695.D	13 Jun 2025 17:24	JC/MD	Ok
23	Q2296-24	VX046696.D	13 Jun 2025 17:46	JC/MD	Ok
24	Q2297-04	VX046697.D	13 Jun 2025 18:07	JC/MD	Ok
25	Q2301-01	VX046698.D	13 Jun 2025 18:29	JC/MD	Ok
26	Q2310-04	VX046699.D	13 Jun 2025 18:51	JC/MD	Ok
27	Q2288-01	VX046700.D	13 Jun 2025 19:12	JC/MD	Ok
28	Q2287-02RE	VX046701.D	13 Jun 2025 19:34	JC/MD	Confirms
29	VSTDCCC050	VX046702.D	13 Jun 2025 19:55	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX061025

Review By	John Carlone	Review On	6/11/2025 10:17:47 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/11/2025 11:14:33 AM		
SubDirectory	VX061025	HP Acquire Method		HP Processing Method	82X060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134200
Initial Calibration Stds	
CCC	VP134201,VP134202
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046585.D	10 Jun 2025 08:36		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX046586.D	10 Jun 2025 09:07	pH#Lot#V12668	JC/MD	Ok,M
3	VX0610MBL01	VX0610MBL01	VX046587.D	10 Jun 2025 09:36		JC/MD	Ok
4	VX0610WBL01	VX0610WBL01	VX046588.D	10 Jun 2025 09:57		JC/MD	Ok
5	VX0610WBS01	VX0610WBS01	VX046589.D	10 Jun 2025 10:18		JC/MD	Ok,M
6	VX0610WBSD01	VX0610WBSD01	VX046590.D	10 Jun 2025 10:44		JC/MD	Ok,M
7	Q2262-02	ARS20-0032	VX046591.D	10 Jun 2025 11:05	vial B pH#5.0	JC/MD	Ok
8	Q2262-04	ARS20-0001	VX046592.D	10 Jun 2025 11:27	vial B pH#5.0	JC/MD	Ok
9	IBLK	IBLK	VX046593.D	10 Jun 2025 11:48		JC/MD	Ok
10	Q2230-01	FB-060425	VX046594.D	10 Jun 2025 12:09	vial A pH<2 FB	JC/MD	Ok
11	Q2230-06	TB060425	VX046595.D	10 Jun 2025 12:30	vial A pH<2 TB	JC/MD	Ok
12	Q2233-01DL	MW-18B-56-060425DL	VX046596.D	10 Jun 2025 12:51	vial B pH<2	JC/MD	Ok
13	Q2233-03DL	MW-18B-56-060425-FD	VX046597.D	10 Jun 2025 13:13	vial B pH<2	JC/MD	Ok
14	Q2233-04DL	MW-19B-72-060425DL	VX046598.D	10 Jun 2025 13:34	vial B pH<2	JC/MD	Ok
15	Q2234-01DL	MW-17B-55-060425DL	VX046599.D	10 Jun 2025 13:55	vial B pH<2	JC/MD	Ok
16	IBLK	IBLK	VX046600.D	10 Jun 2025 14:16		JC/MD	Ok
17	Q2230-05	GW-MW901-060425	VX046601.D	10 Jun 2025 14:38	vial A pH<2	JC/MD	Ok,M
18	Q2230-02	GW-MW01-060425	VX046602.D	10 Jun 2025 14:59	vial A pH<2	JC/MD	Ok,M

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX061025

Review By	John Carlone	Review On	6/11/2025 10:17:47 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/11/2025 11:14:33 AM		
SubDirectory	VX061025	HP Acquire Method		HP Processing Method	82X060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134200
Initial Calibration Stds	
CCC	VP134201,VP134202
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2230-03MS	GW-MW01-060425MS	VX046603.D	10 Jun 2025 15:20	Internal Standard Fail; Surrogate Fail;Spike not added	JC/MD	Not Ok
20	Q2230-04MSD	GW-MW01-060425MSI	VX046604.D	10 Jun 2025 15:42	Internal Standard Fail; Surrogate Fail;Spike not added	JC/MD	Not Ok
21	IBLK	IBLK	VX046605.D	10 Jun 2025 16:03		JC/MD	Ok
22	Q2249-01	MW-06-6.5-060525	VX046606.D	10 Jun 2025 16:24	Run @ lower dilution	JC/MD	Not Ok
23	IBLK	IBLK	VX046607.D	10 Jun 2025 16:46		JC/MD	Ok
24	Q2233-01	MW-18B-56-060425	VX046608.D	10 Jun 2025 17:07	vial A pH<2 Need 10X	JC/MD	Dilution
25	Q2233-03	MW-18B-56-060425-FD	VX046609.D	10 Jun 2025 17:28	vial A pH<2 Need 10X	JC/MD	Dilution
26	Q2233-04	MW-19B-72-060425	VX046610.D	10 Jun 2025 17:50	vial A pH<2 Need 100X	JC/MD	Dilution
27	Q2234-01	MW-17B-55-060425	VX046611.D	10 Jun 2025 18:11	vial A pH<2 Need 100X	JC/MD	Dilution
28	VSTDCCC050	VSTDCCC050EC	VX046612.D	10 Jun 2025 18:53		JC/MD	Ok,M
29	BFB	BFB	VX046613.D	10 Jun 2025 19:57		JC/MD	Ok
30	VSTDICC005	VSTDICC005	VX046614.D	10 Jun 2025 20:19		JC/MD	Ok,M
31	VSTDICCC020	VSTDICCC020	VX046615.D	10 Jun 2025 20:40		JC/MD	Ok,M
32	VSTDICC050	VSTDICC050	VX046616.D	10 Jun 2025 21:01		JC/MD	Ok,M
33	VSTDICC100	VSTDICC100	VX046617.D	10 Jun 2025 21:22		JC/MD	Ok,M
34	VSTDICC150	VSTDICC150	VX046618.D	10 Jun 2025 21:44		JC/MD	Ok,M
35	IBLK	IBLK	VX046619.D	10 Jun 2025 22:05		JC/MD	Ok
36	VSTDICV020	ICVVX061025	VX046620.D	10 Jun 2025 22:26		JC/MD	Ok,M
37	VX0610WBS02	VX0610WBS02	VX046621.D	10 Jun 2025 23:09		JC/MD	Ok,M

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX061025

Review By	John Carlone	Review On	6/11/2025 10:17:47 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/11/2025 11:14:33 AM		
SubDirectory	VX061025	HP Acquire Method		HP Processing Method	82X060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134200
Initial Calibration Stds	
CCC	VP134201,VP134202
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	VX0610WBSD02	VX0610WBSD02	VX046622.D	10 Jun 2025 23:30		JC/MD	Ok,M
39	VX0610WBL02	VX0610WBL02	VX046623.D	11 Jun 2025 00:12		JC/MD	Ok
40	Q2203-01	001-WILLETS-PT-BLVD	VX046624.D	11 Jun 2025 00:33	vial A pH<2 Need 5X	JC/MD	Dilution
41	Q2203-04	002-35TH-AVE(JUNE)	VX046625.D	11 Jun 2025 00:54	vial A pH<2 Need 5X	JC/MD	Dilution
42	VSTDCCC020	VSTDCCC020EC	VX046626.D	11 Jun 2025 01:16		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_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX061325

Review By	John Carlone	Review On	6/16/2025 8:54:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/16/2025 5:04:15 PM		
SubDirectory	VX061325	HP Acquire Method		HP Processing Method	624X061025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134332,VP134335
Initial Calibration Stds	
CCC	VP134333,VP134334,VP134336,VP134337
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046674.D	13 Jun 2025 08:50		JC/MD	Ok
2	VSTDCCC020	VSTDCCC020	VX046675.D	13 Jun 2025 09:26	pH#Lot#V12668	JC/MD	Ok,M
3	VX0613WBS01	VX0613WBS01	VX046676.D	13 Jun 2025 09:58		JC/MD	Ok,M
4	VX0613WBSD01	VX0613WBSD01	VX046677.D	13 Jun 2025 10:25		JC/MD	Ok,M
5	VX0613WBL01	VX0613WBL01	VX046678.D	13 Jun 2025 10:47		JC/MD	Ok
6	Q2302-02	250611056-09-TRIP-BL	VX046679.D	13 Jun 2025 11:15	vial B pH#6.0 TB	JC/MD	Ok
7	Q2302-01	250611078-02-VOA	VX046680.D	13 Jun 2025 11:37	vial B pH#6.0	JC/MD	Ok
8	BFB	BFB	VX046681.D	13 Jun 2025 11:58		JC/MD	Ok
9	VSTDCCC050	VSTDCCC050	VX046682.D	13 Jun 2025 12:30		JC/MD	Ok,M
10	VX0613MBL01	VX0613MBL01	VX046683.D	13 Jun 2025 12:58		JC/MD	Ok
11	VX0613WBL02	VX0613WBL02	VX046684.D	13 Jun 2025 13:19		JC/MD	Ok
12	VX0613WBS02	VX0613WBS02	VX046685.D	13 Jun 2025 13:45		JC/MD	Ok,M
13	VX0613WBSD02	VX0613WBSD02	VX046686.D	13 Jun 2025 14:09		JC/MD	Ok,M
14	PB168429TB	PB168429TB	VX046687.D	13 Jun 2025 14:31		JC/MD	Ok
15	Q2287-02	CONCRETE-SLAB	VX046688.D	13 Jun 2025 14:53	vial A pH#5.0 Surrogate fail	JC/MD	ReRun
16	Q2295-04	TP01-MH1-WC	VX046689.D	13 Jun 2025 15:14	vial A pH#5.0	JC/MD	Ok
17	Q2295-08	TP02-MH5-WC	VX046690.D	13 Jun 2025 15:36	vial A pH#5.0	JC/MD	Ok,M
18	Q2296-04	WC-1	VX046691.D	13 Jun 2025 15:57	vial A pH#5.0	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX061325

Review By	John Carlone	Review On	6/16/2025 8:54:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/16/2025 5:04:15 PM		
SubDirectory	VX061325	HP Acquire Method		HP Processing Method	624X061025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134332,VP134335
Initial Calibration Stds	
CCC	VP134333,VP134334,VP134336,VP134337
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2296-08	WC-2	VX046692.D	13 Jun 2025 16:19	vial A pH#5.0	JC/MD	Ok
20	Q2296-12	WC-3	VX046693.D	13 Jun 2025 16:41	vial A pH#5.0	JC/MD	Ok
21	Q2296-16	WC-4	VX046694.D	13 Jun 2025 17:02	vial A pH#5.0	JC/MD	Ok
22	Q2296-20	WC-5	VX046695.D	13 Jun 2025 17:24	vial A pH#5.0	JC/MD	Ok
23	Q2296-24	WC-6	VX046696.D	13 Jun 2025 17:46	vial A pH#5.0	JC/MD	Ok
24	Q2297-04	TP-3	VX046697.D	13 Jun 2025 18:07	vial A pH#5.0	JC/MD	Ok
25	Q2301-01	WC-URBAN-FILL-G	VX046698.D	13 Jun 2025 18:29	vial A pH#5.0	JC/MD	Ok
26	Q2310-04	TP-7	VX046699.D	13 Jun 2025 18:51	vial A pH#5.0	JC/MD	Ok
27	Q2288-01	ETGI-329	VX046700.D	13 Jun 2025 19:12	vial A pH#5.0	JC/MD	Ok
28	Q2287-02RE	CONCRETE-SLABRE	VX046701.D	13 Jun 2025 19:34	vial B pH#5.0 Surrogate fail	JC/MD	Confirms
29	VSTDCCC050	VSTDCCC050EC	VX046702.D	13 Jun 2025 19:55		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

Q2302

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	250611078-02 VOA	6/11/25	9:12	X		EPA 8260 TCL LIST + Acrolien & Acrylonitrile				
		250611056-09 Trip blank					EPA 8260 TCL LIST + Acrolien & Aci				

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

⇨ *Preservation Code: A = Non 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): Megan Howarth	Signature: Megan Howarth	Date/Time: 6/11/25 15:24
2. Received/Relinquished by (PRINT): MATT JACKSON	Signature: M. Jackson	Date/Time: 6/12/25 8:27am

6/12/25 8:27am 2.3°C

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

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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 : Q2302 GARD04
Client Name : Garden State Laboratories, I
Client Contact : Sharon Ercoliani
Invoice Name : Garden State Laboratories, I
Invoice Contact : Sharon Ercoliani

Order Date : 6/12/2025 12:09:00 PM
Project Name : Waste Water 2025
Receive DateTime : 6/12/2025 8:27:00 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
Q2302-01	250611078-02-VOA	Water	06/11/2025	09:12					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days
Q2302-02	250611056-09-TRIP-BLANK	Water	06/11/2025	00:00					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 6/12/25 1255

Received By :
Date / Time : 06/12/25 1255 Rgt 4 Rgt 3
Storage Area : **VOA Refridgerator Room**