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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LAB CHRONICLE

OrderID:	Q2366	**OrderDate:**	6/19/2025 10:59:00 AM
Client:	Garden State Laboratories, Inc.	**Project:**	Waste Water 2025
Contact:	Sharon Ercoliani	**Location:**	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2366-01	**250528063-02-VOA**	**Water**			**06/18/25**			**06/19/25**
			VOCMS Group1	624.1			06/20/25	
Q2366-02	**250618063-05-Trip blank**	**Water**			**06/18/25**			**06/19/25**
			VOCMS Group1	624.1			06/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2366

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.: Q2366

Client: Garden State Laboratories, Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2366-01	250528063-02-VOA	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	28.2	94	91	112
		4-Bromofluorobenzene	30	28.3	94	63	112
Q2366-02	250618063-05-Trip blank	1,2-Dichloroethane-d4	30	30.1	100	91	110
		Toluene-d8	30	28.8	96	91	112
		4-Bromofluorobenzene	30	28.1	94	63	112
VX0620WBL01	VX0620WBL01	1,2-Dichloroethane-d4	30	31.4	105	91	110
		Toluene-d8	30	28.6	95	91	112
		4-Bromofluorobenzene	30	27.8	93	63	112
VX0620WBS01	VX0620WBS01	1,2-Dichloroethane-d4	30	28.9	96	91	110
		Toluene-d8	30	29.3	98	91	112
		4-Bromofluorobenzene	30	29.1	97	63	112
VX0620WBSD0	VX0620WBSD01	1,2-Dichloroethane-d4	30	32.5	109	91	110
		Toluene-d8	30	29.1	97	91	112
		4-Bromofluorobenzene	30	28.4	95	63	112

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2366

Client: Garden State Laboratories, Inc.

Analytical Method: SW624.1 **Datafile :** VX046778.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0620WBS01	Acrolein	100	94.2	ug/L	94			60	140	
	Acrylonitrile	100	77.9	ug/L	78			60	140	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2366

Client: Garden State Laboratories, Inc.

Analytical Method: SW624.1 **Datafile :** VX046779.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0620WBSD01	Acrolein	100	100	ug/L	100	6		60	140	20
	Acrylonitrile	100	87.1	ug/L	87	11		60	140	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0620WBL01

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2366 SAS No.: Q2366 SDG NO.: Q2366

Lab File ID: VX046780.D Lab Sample ID: VX0620WBL01

Date Analyzed: 06/20/2025 Time Analyzed: 13:40

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
VX0620WBS01	VX0620WBS01	VX046778.D	06/20/2025
VX0620WBSD01	VX0620WBSD01	VX046779.D	06/20/2025
250618063-05-Trip blank	Q2366-02	VX046781.D	06/20/2025
250528063-02-VOA	Q2366-01	VX046782.D	06/20/2025

COMMENTS:

Alliance TECHNICAL GROUP

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2366 SAS No.: Q2366 SDG NO.: Q2366

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

Raw Data: **VX046776.D**

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2366 SAS No.: Q2366 SDG NO.: Q2366

Lab File ID: VX046776.D BFB Injection Date: 06/20/2025

Instrument ID: MSVOA_X BFB Injection Time: 08:08

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	19.2
75	30.0 - 60.0% of mass 95	51.1
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	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	75.1
175	5.0 - 9.0% of mass 174	5.6 (7.5) 1
176	95.0 - 101.0% of mass 174	72.1 (96) 1
177	5.0 - 9.0% of mass 176	4.6 (6.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VX046777.D	06/20/2025	09:16
VX0620WBS01	VX0620WBS01	VX046778.D	06/20/2025	11:17
VX0620WBSD01	VX0620WBSD01	VX046779.D	06/20/2025	12:13
VX0620WBL01	VX0620WBL01	VX046780.D	06/20/2025	13:40
250618063-05-Trip blank	Q2366-02	VX046781.D	06/20/2025	14:10
250528063-02-VOA	Q2366-01	VX046782.D	06/20/2025	14:31

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2366 SAS No.: Q2366 SDG NO.: Q2366

Lab File ID: VX046777.D Date Analyzed: 06/20/2025

Instrument ID: MSVOA_X Time Analyzed: 09:16

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	22575	4.90	140486	6.76	129246	10.05
UPPER LIMIT	45150	5.404	280972	7.263	258492	10.549
LOWER LIMIT	11287.5	4.404	70243	6.263	64623	9.549
EPA SAMPLE NO.						
250528063-02-VOA	21879	4.91	135511	6.77	125678	10.06
250618063-05-Trip blank	22890	4.90	139681	6.76	128987	10.05
VX0620WBL01	22702	4.90	146040	6.76	133167	10.05
VX0620WBS01	22072	4.90	132966	6.76	121720	10.06
VX0620WBSD01	19510	4.90	133108	6.76	122478	10.05

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q2366 SAS No.: Q2366 SDG NO.: Q2366

Lab File ID: VX046777.D Date Analyzed: 06/20/2025

Instrument ID: MSVOA_X Time Analyzed: 09:16

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

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
250528063-02-VOA	0	0.00				
250618063-05-Trip blank	0	0.00				
VX0620WBL01	0	0.00				
VX0620WBS01	0	0.00				
VX0620WBSD01	0	0.00				

IS4 =

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

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

SAMPLE DATA

Raw Data: **VX046782.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:	06/18/25
Project:	Waste Water 2025	Date Received:	06/19/25
Client Sample ID:	250528063-02-VOA	SDG No.:	Q2366
Lab Sample ID:	Q2366-01	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
VX046782.D	1		06/20/25 14:31	VX062025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	28.2		91 - 112	94%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.3		63 - 112	94%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	21900	4.91			
540-36-3	1,4-Difluorobenzene	136000	6.769			
3114-55-4	Chlorobenzene-d5	126000	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

Sample Results: **VX046782.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046782.D
Acq On : 20 Jun 2025 14:31
Operator : JC/MD
Sample : Q2366-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 23:15:02 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 :
250528063-02

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.910	128	21879m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	135511	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	125678	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	53714	30.329	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.100%			
60) 4-Bromofluorobenzene	11.079	95	59933	28.292	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.300%			
63) Toluene-d8	8.647	98	158455	28.226	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.100%			
Target Compounds						Qvalue
6) Chloroethane	1.709	64	989	1.218	ug/l	98
8) Diethyl Ether	2.148	74	12772	18.013	ug/l	93
15) Acetone	2.392	58	805	5.203	ug/l	80
23) tert-Butyl Alcohol	2.953	59	27052	197.974	ug/l #	100
24) Methyl tert-Butyl Ether	3.129	73	2893	0.725	ug/l #	77
34) Benzene	6.050	78	10342	1.651	ug/l #	82
45) 1,4-Dioxane	7.665	88	3527m	177.635	ug/l	
62) Toluene	8.720	91	13369	1.963	ug/l	98
64) Chlorobenzene	10.079	112	81691	18.596	ug/l	99
66) Ethyl Benzene	10.195	91	67554	8.686	ug/l	98
67) m/p-Xylenes	10.299	106	21996	7.647	ug/l	97
68) o-Xylene	10.640	106	16439	5.935	ug/l	97
70) Isopropylbenzene	10.963	105	10046	1.352	ug/l	97
74) n-propylbenzene	11.305	91	5257	0.591	ug/l	100
75) 2-Chlorotoluene	11.366	91	6317	1.187	ug/l	89
76) 1,3,5-Trimethylbenzene	11.451	105	4221	0.683	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	21381	3.506	ug/l	97
82) p-Isopropyltoluene	12.006	119	4717	0.729	ug/l	96
84) 1,4-Dichlorobenzene	12.036	146	38864	11.916	ug/l	97
87) 1,2-Dichlorobenzene	12.329	146	2814m	0.902	ug/l	
91) Naphthalene	13.774	128	107255	16.435	ug/l	99

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

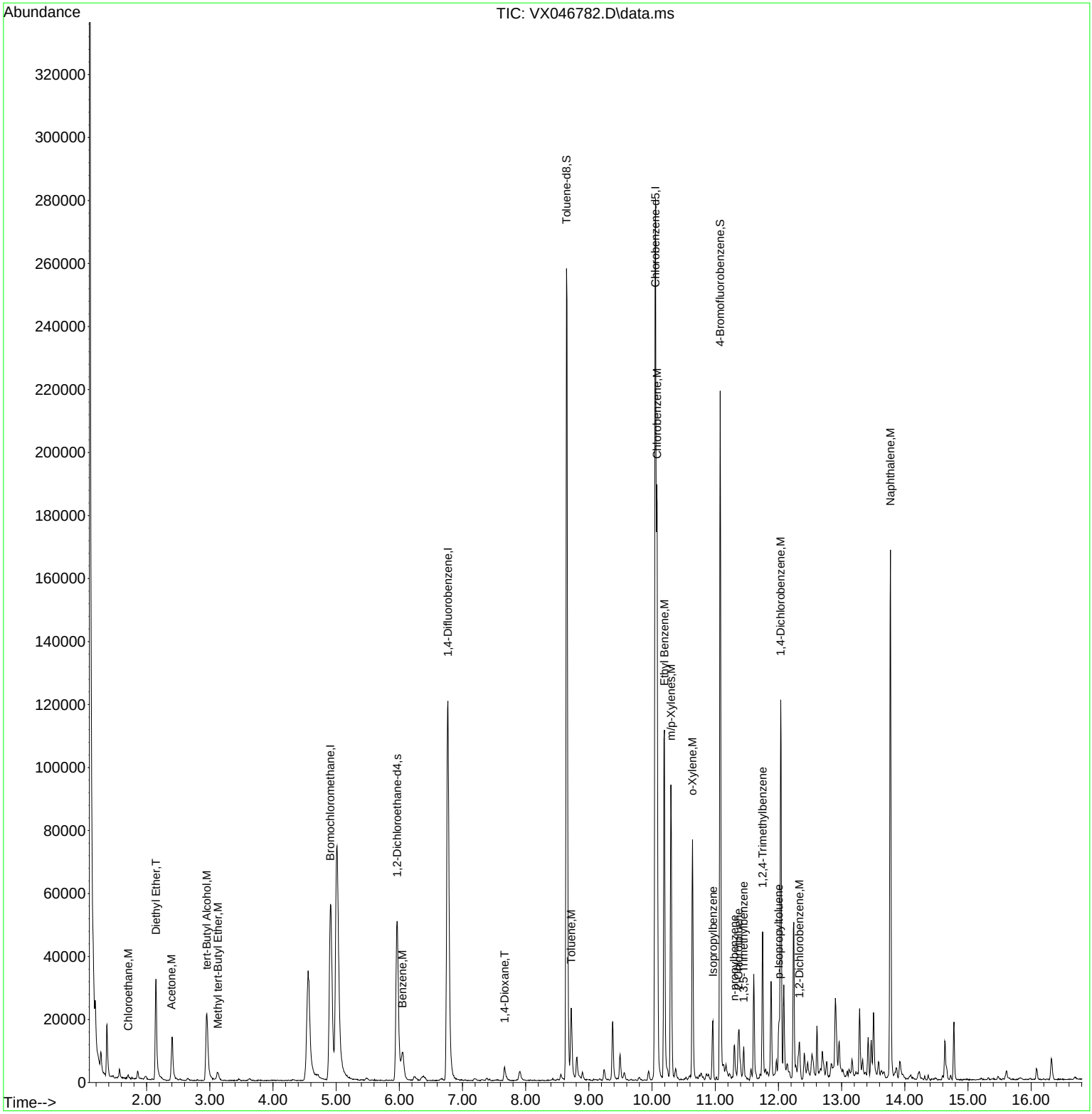
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046782.D
Acq On : 20 Jun 2025 14:31
Operator : JC/MD
Sample : Q2366-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

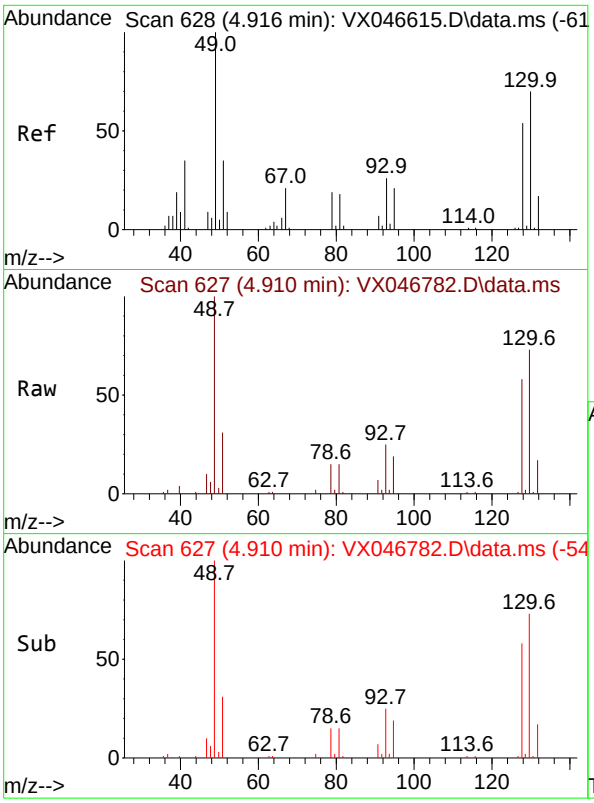
Quant Time: Jun 20 23:15:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

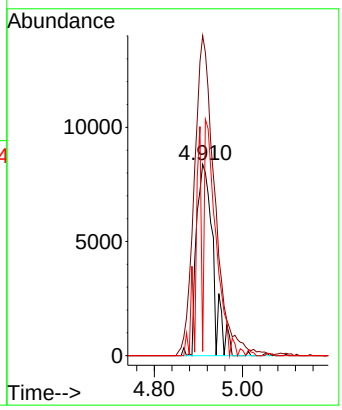




#1
Bromochloromethane
Concen: 30.000 ug/l m
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:128 Resp: 2187

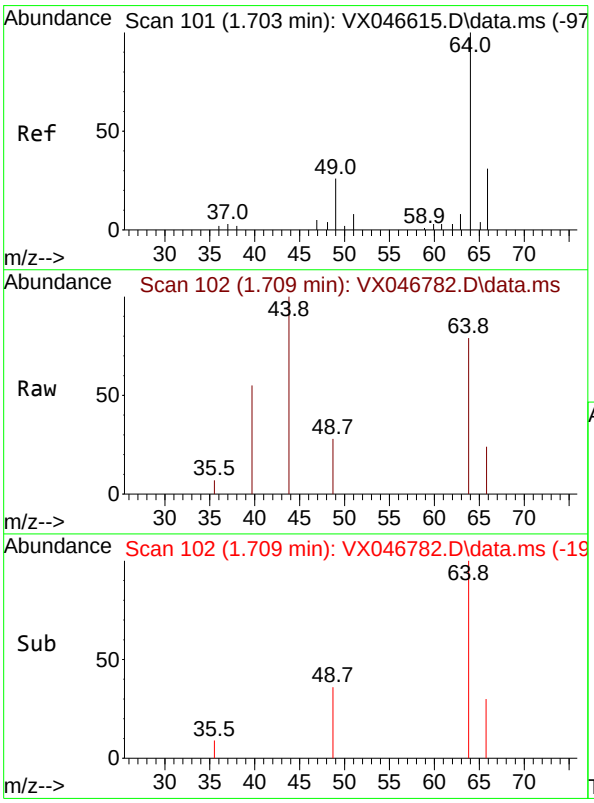
Ion	Ratio	Lower	Upper
128	100		
49	204.9	0.0	448.3
130	83.3	0.0	312.0



Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Manual Integrations
APPROVED

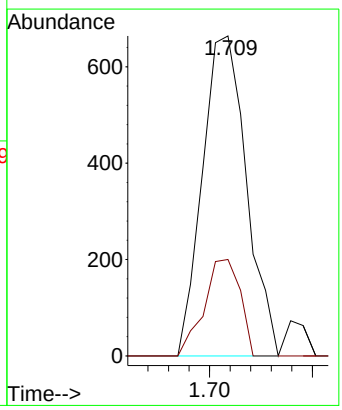
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

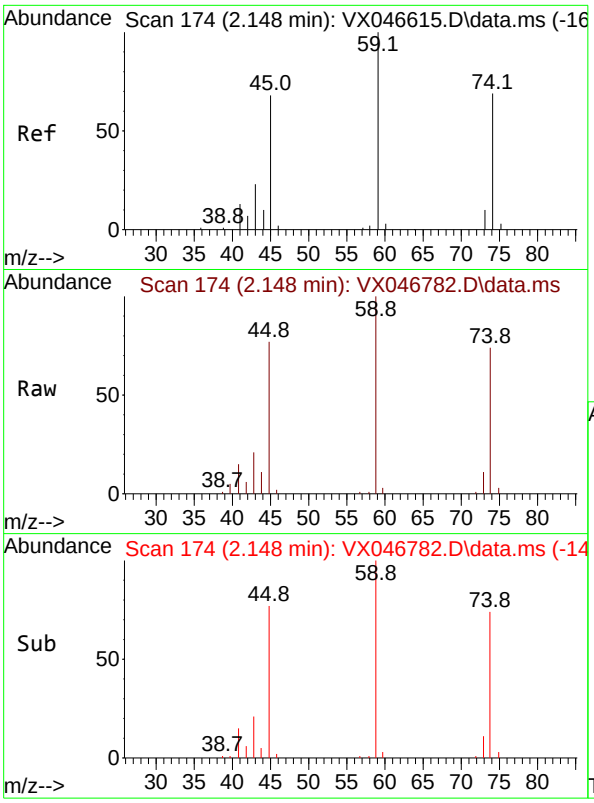


#6
Chloroethane
Concen: 1.218 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 64 Resp: 989

Ion	Ratio	Lower	Upper
64	100		
66	30.1	25.0	37.6

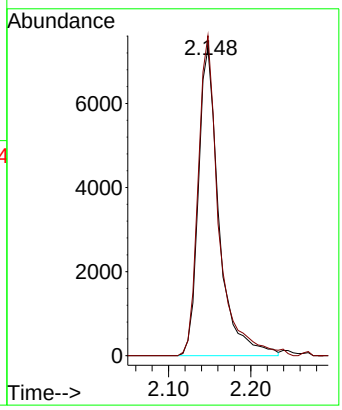




#8
Diethyl Ether
Concen: 18.013 ug/l
RT: 2.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 74 Resp: 1277

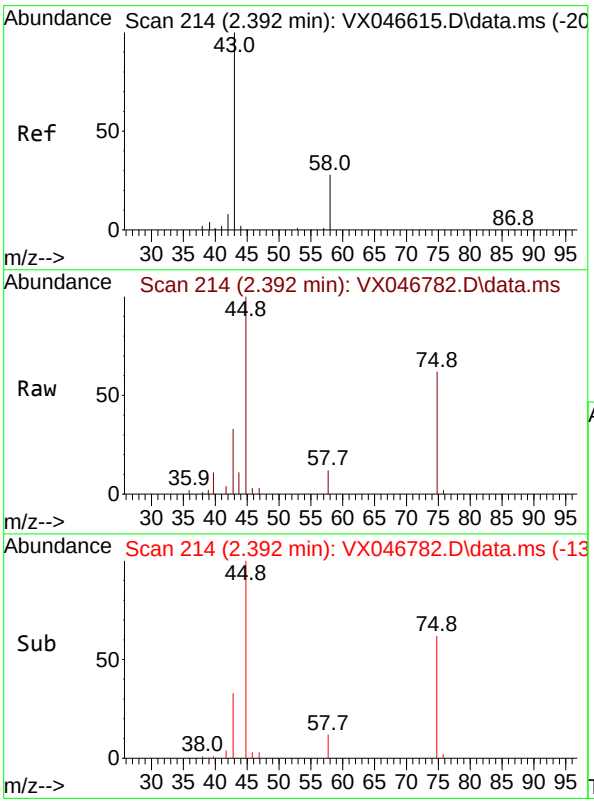
Ion	Ratio	Lower	Upper
74	100		
45	103.8	19.3	174.1



Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Manual Integrations
APPROVED

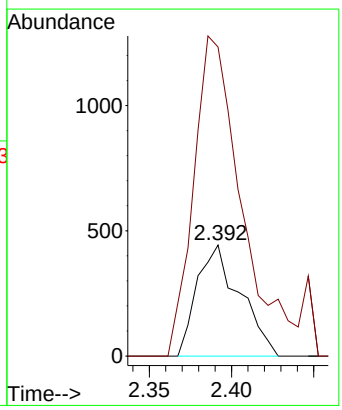
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

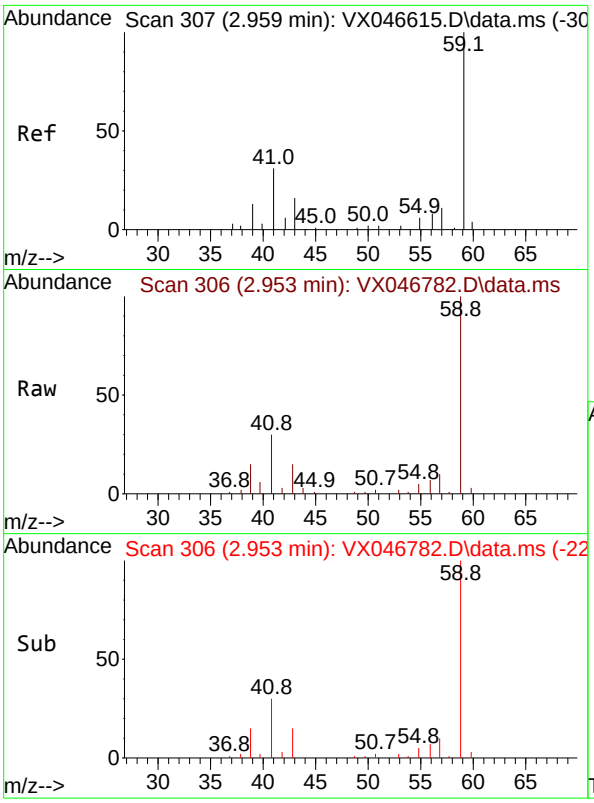


#15
Acetone
Concen: 5.203 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 58 Resp: 805

Ion	Ratio	Lower	Upper
58	100		
43	317.8	290.6	435.8





#23
tert-Butyl Alcohol
Concen: 197.974 ug/l
RT: 2.953 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 59 Resp: 2705

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Manual Integrations
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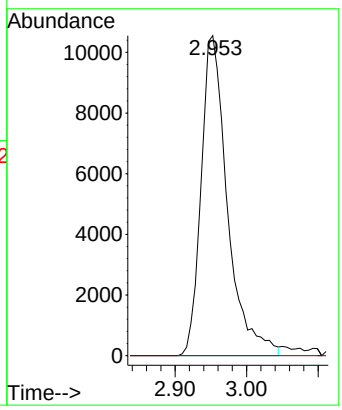
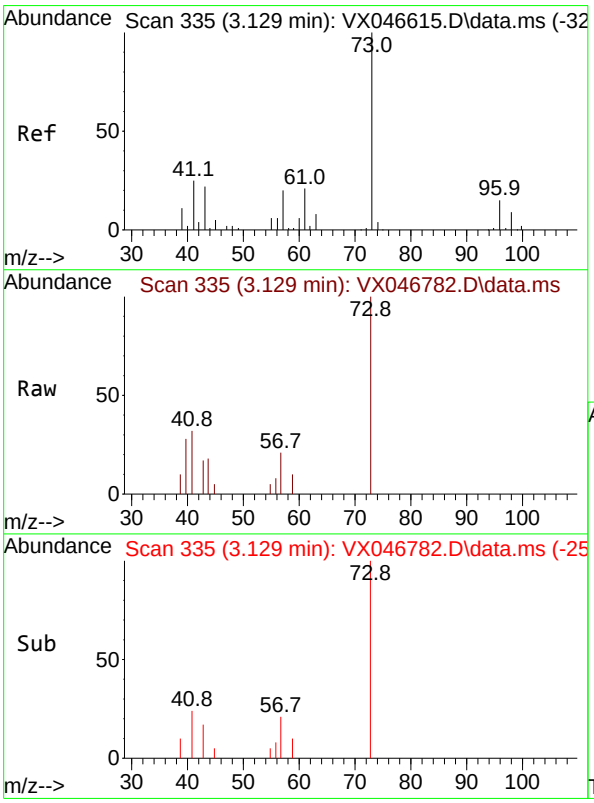
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

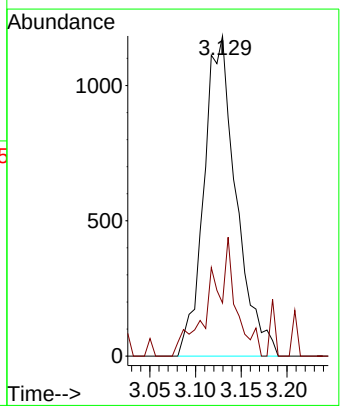


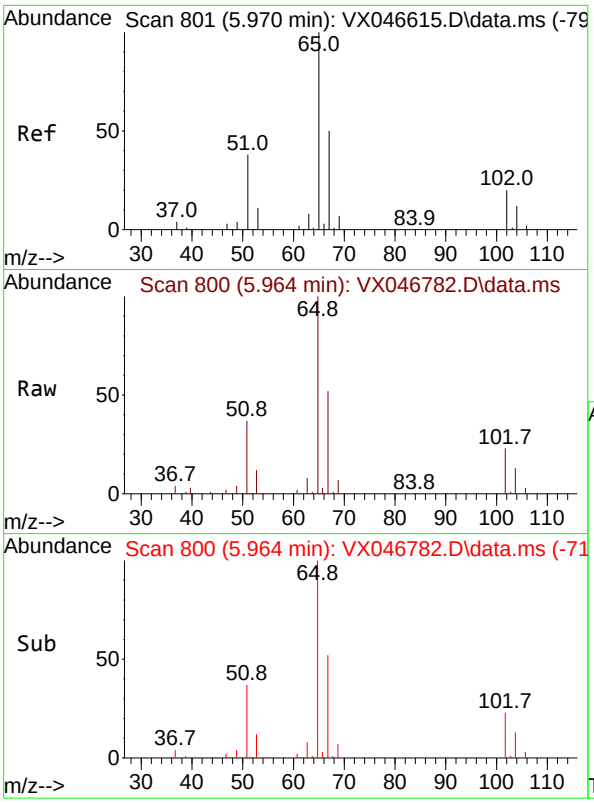


#24
Methyl tert-Butyl Ether
Concen: 0.725 ug/l
RT: 3.129 min Scan# 335
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 73 Resp: 2893

Ion	Ratio	Lower	Upper
73	100		
43	11.6	18.4	27.6#





#27
1,2-Dichloroethane-d4
Concen: 30.329 ug/l
RT: 5.964 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 65 Resp: 5371

Ion	Ratio	Lower	Upper
65	100		
67	52.5	41.4	62.2

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

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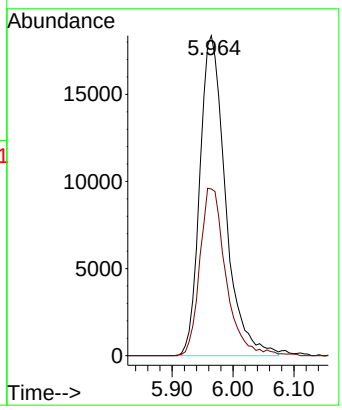
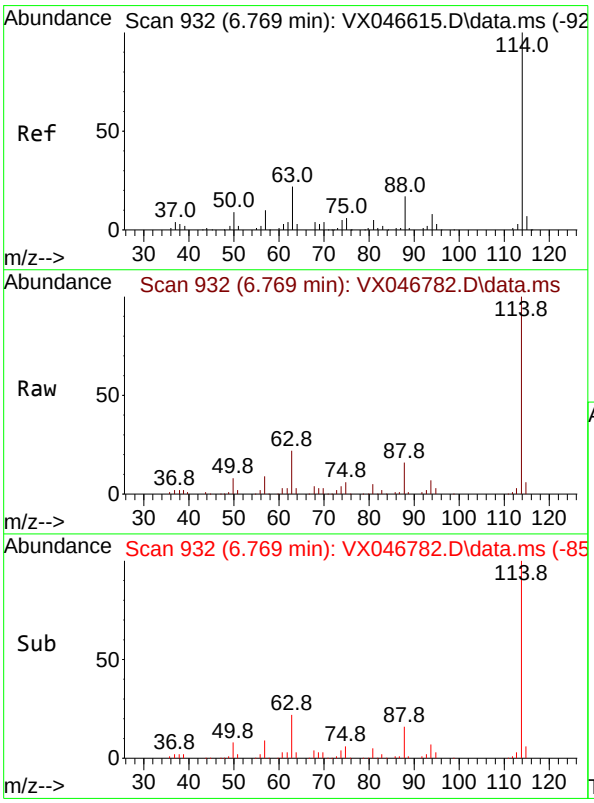
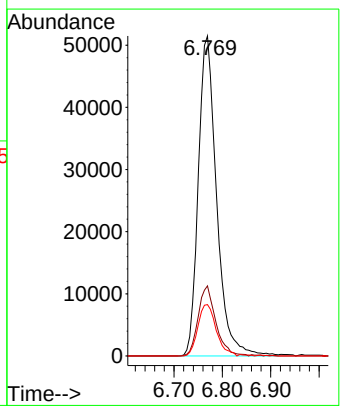


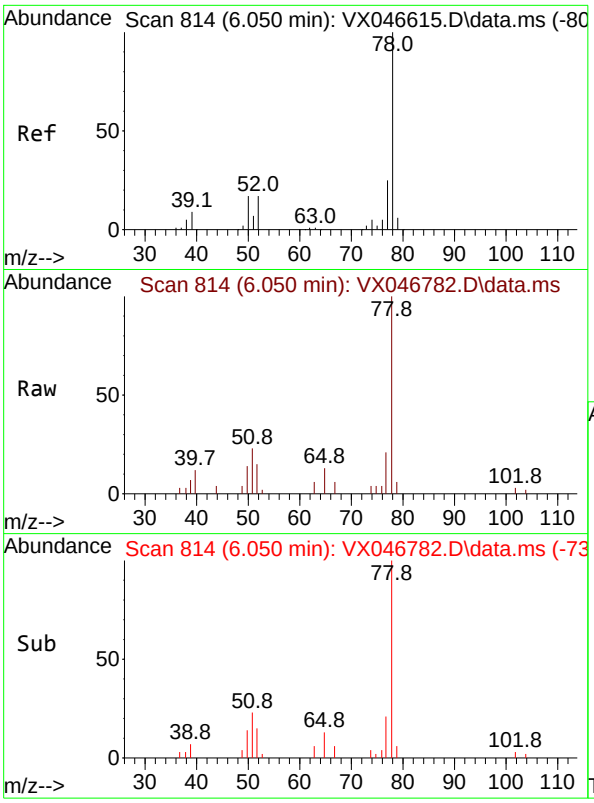


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:114 Resp: 135511

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

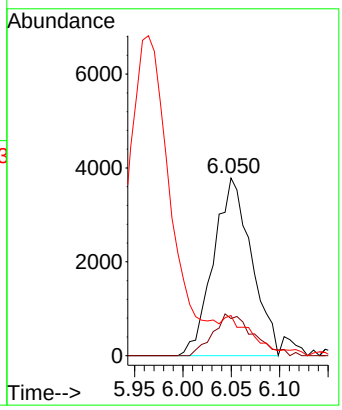




#34
Benzene
Concen: 1.651 ug/l
RT: 6.050 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 78 Resp: 1034

Ion	Ratio	Lower	Upper
78	100		
77	19.8	19.8	29.8#
51	31.1	14.7	22.1#



Instrument :
MSVOA_X
ClientSampleId :
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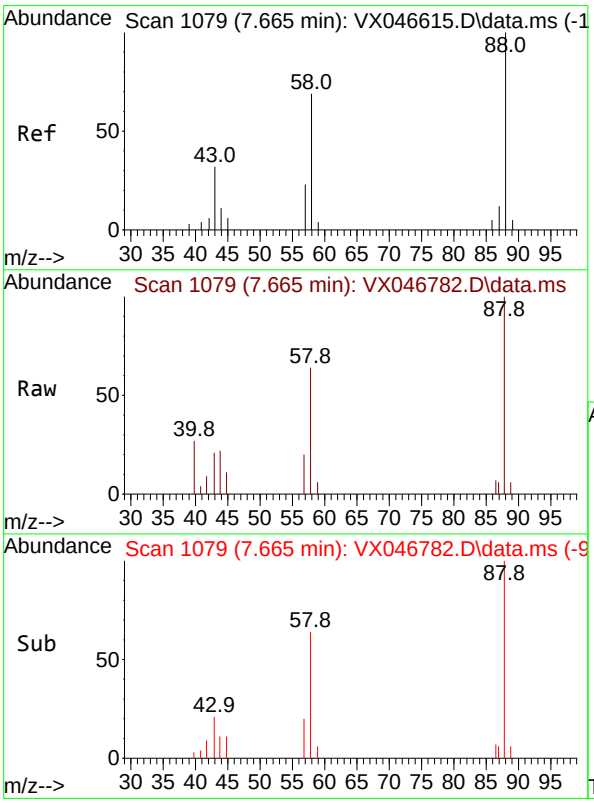
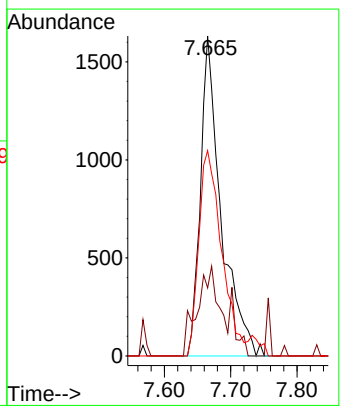
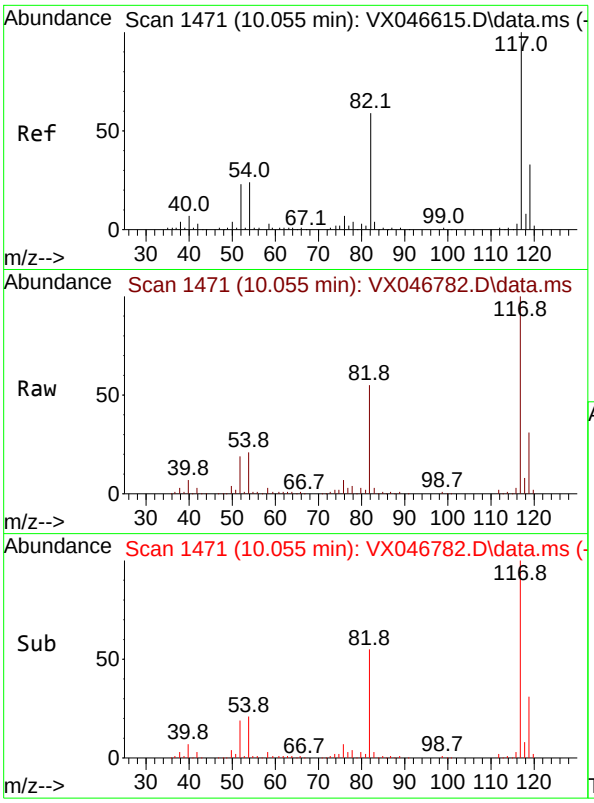


#45
1,4-Dioxane
Concen: 177.635 ug/l m
RT: 7.665 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 88 Resp: 3527

Ion	Ratio	Lower	Upper
88	100		
43	25.9	21.6	32.4
58	70.8	60.8	91.2





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:117 Resp: 12567

Ion	Ratio	Lower	Upper
117	100		
82	55.6	46.5	69.7
119	31.7	25.8	38.6

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

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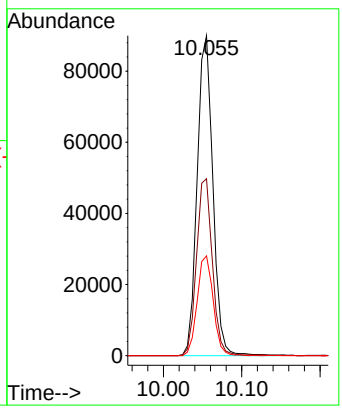
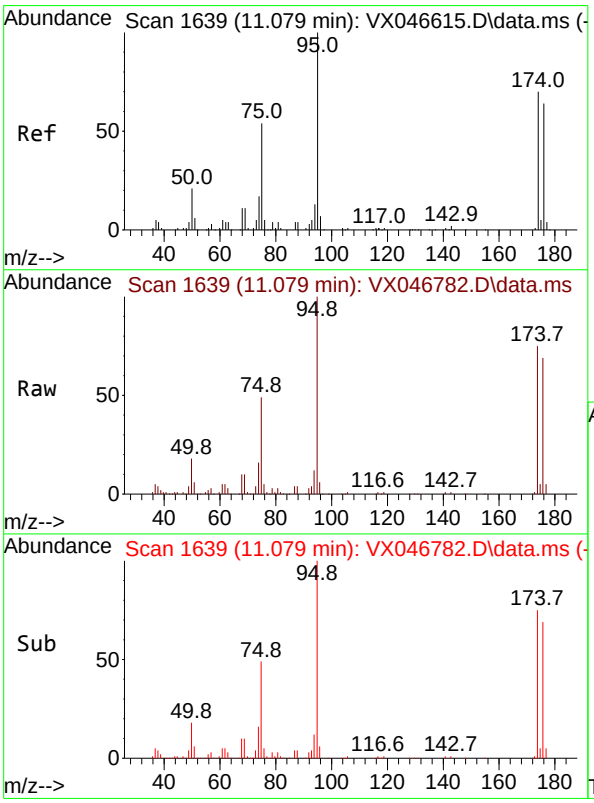
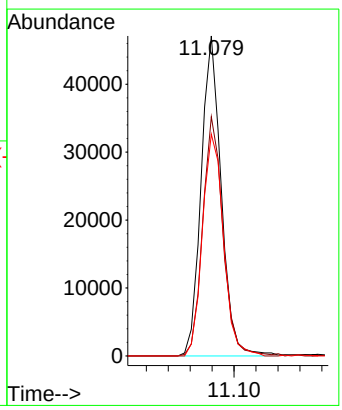


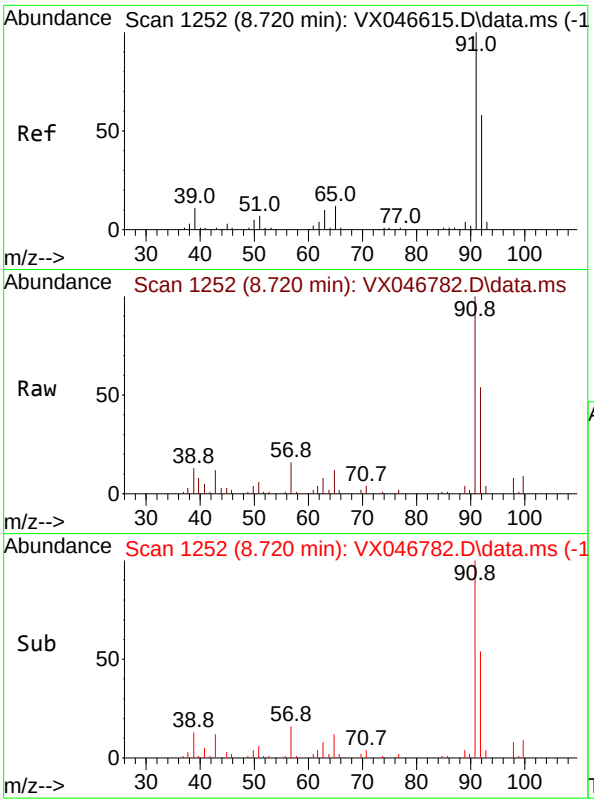


#60
4-Bromofluorobenzene
Concen: 28.292 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 95 Resp: 59933

Ion	Ratio	Lower	Upper
95	100		
174	75.4	56.0	84.0
176	72.6	52.2	78.4





#62
Toluene
Concen: 1.963 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 91 Resp: 1336

Ion	Ratio	Lower	Upper
91	100		
92	56.6	46.8	70.2

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

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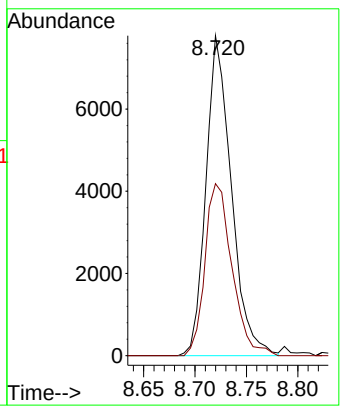
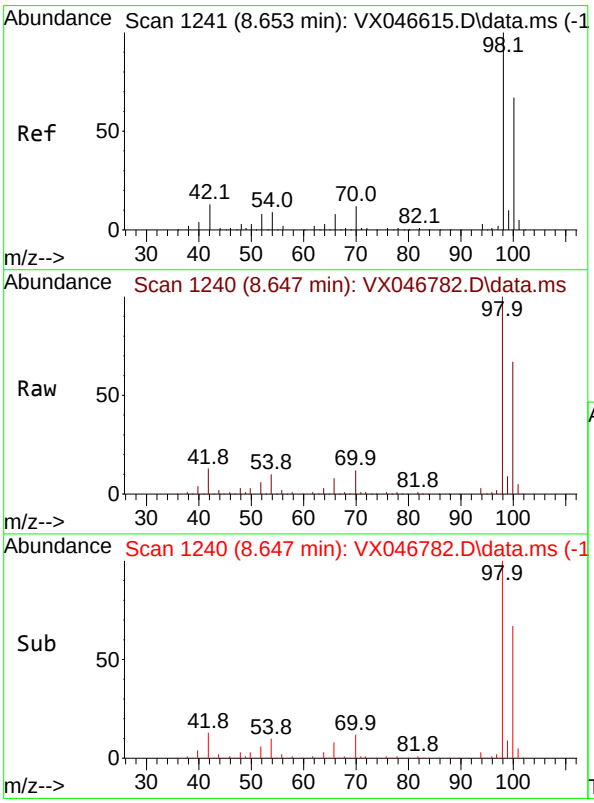
Supervised By :Mahesh Dadoda 06/23/2025

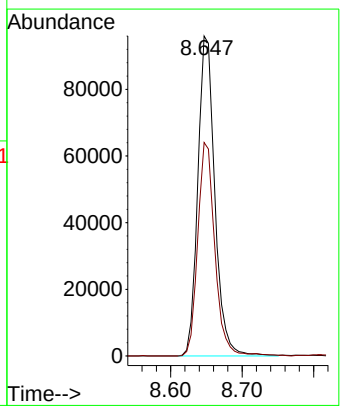


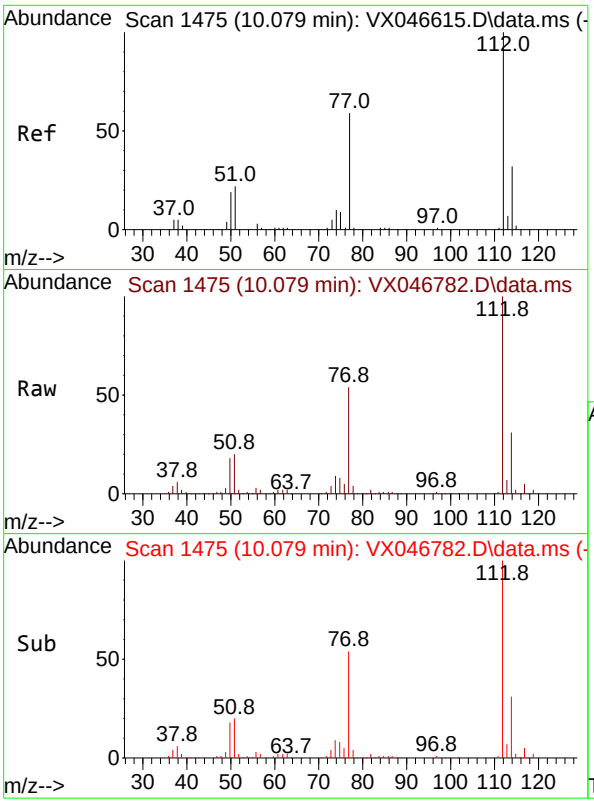


#63
Toluene-d8
Concen: 28.226 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 98 Resp: 158455

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.6	79.0





#64
Chlorobenzene
Concen: 18.596 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:112 Resp: 8169

Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.4	38.0

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

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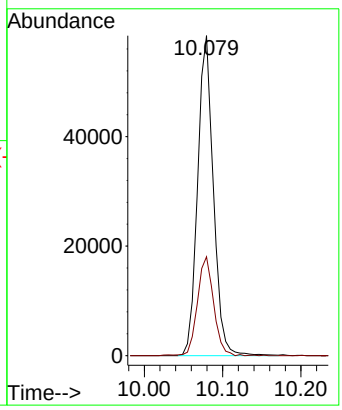
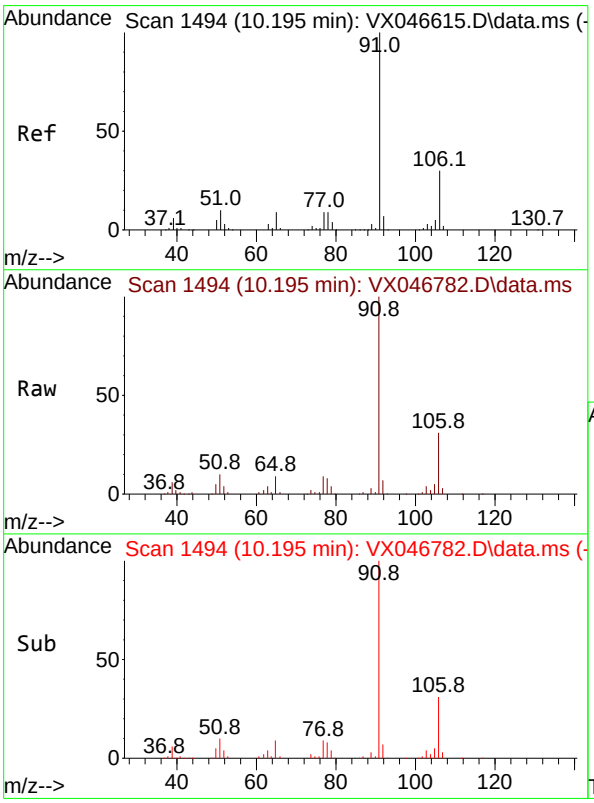
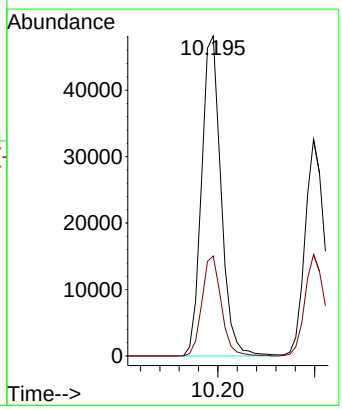


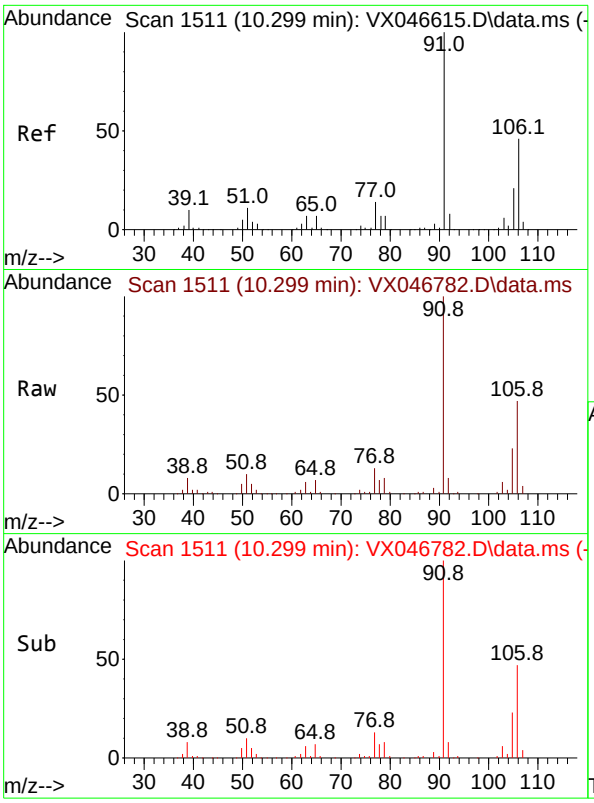


#66
Ethyl Benzene
Concen: 8.686 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 91 Resp: 67554

Ion	Ratio	Lower	Upper
91	100		
106	31.2	23.9	35.9





#67
m/p-Xylenes
Concen: 7.647 ug/l
RT: 10.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:106 Resp: 2199

Ion	Ratio	Lower	Upper
106	100		
91	209.5	171.5	257.3

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

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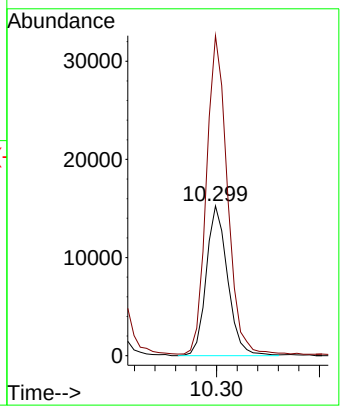
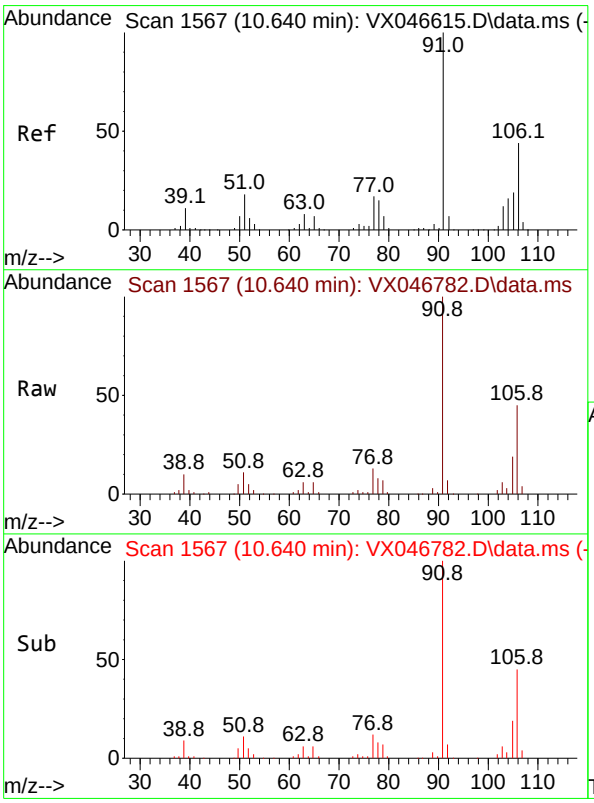
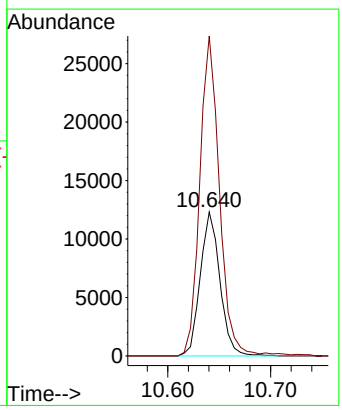


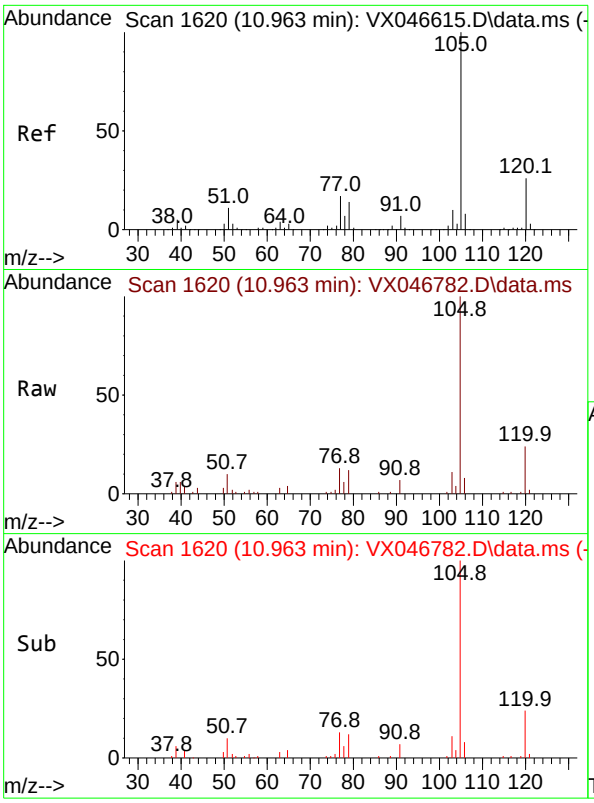


#68
o-Xylene
Concen: 5.935 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:106 Resp: 16439

Ion	Ratio	Lower	Upper
106	100		
91	219.7	112.3	336.9





#70
Isopropylbenzene
Concen: 1.352 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:105 Resp: 1004

Ion	Ratio	Lower	Upper
105	100		
120	24.5	18.1	33.5

Instrument :
MSVOA_X
ClientSampleId :
250528063-02

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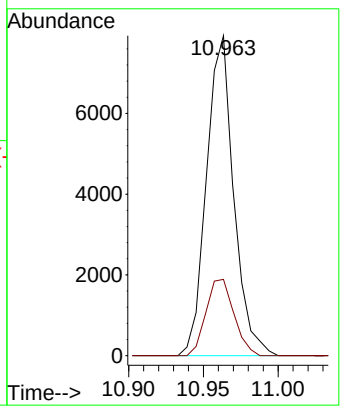
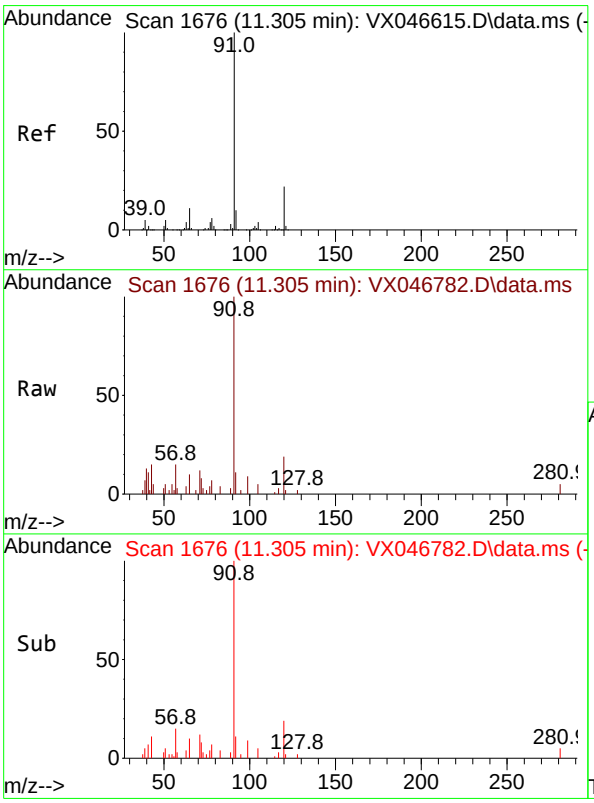
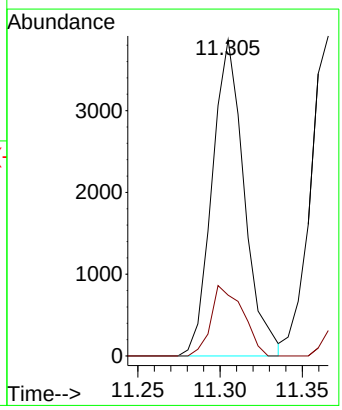


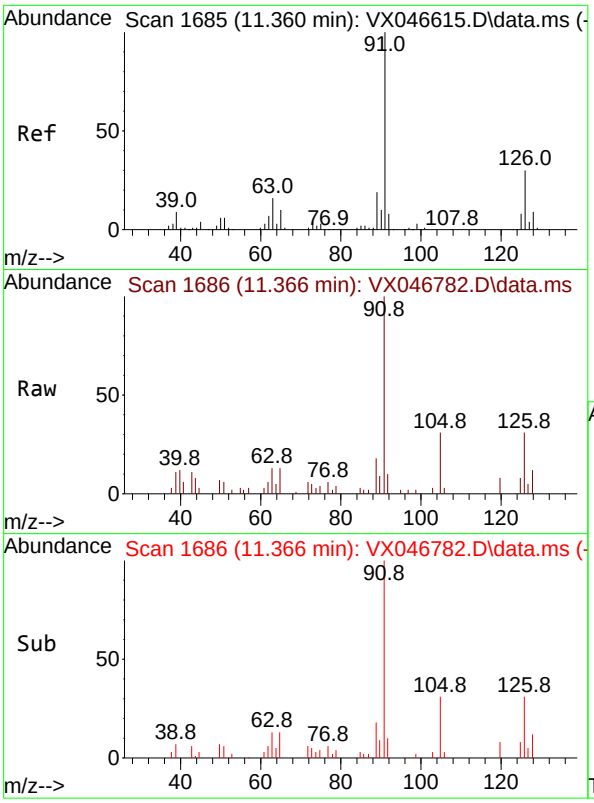


#74
n-propylbenzene
Concen: 0.591 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 91 Resp: 5257

Ion	Ratio	Lower	Upper
91	100		
120	22.0	0.0	43.8

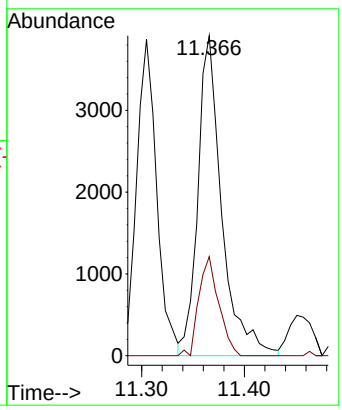




#75
2-Chlorotoluene
Concen: 1.187 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion: 91 Resp: 631

Ion	Ratio	Lower	Upper
91	100		
126	25.4	0.0	63.0



Instrument :
MSVOA_X
ClientSampleId :
250528063-02

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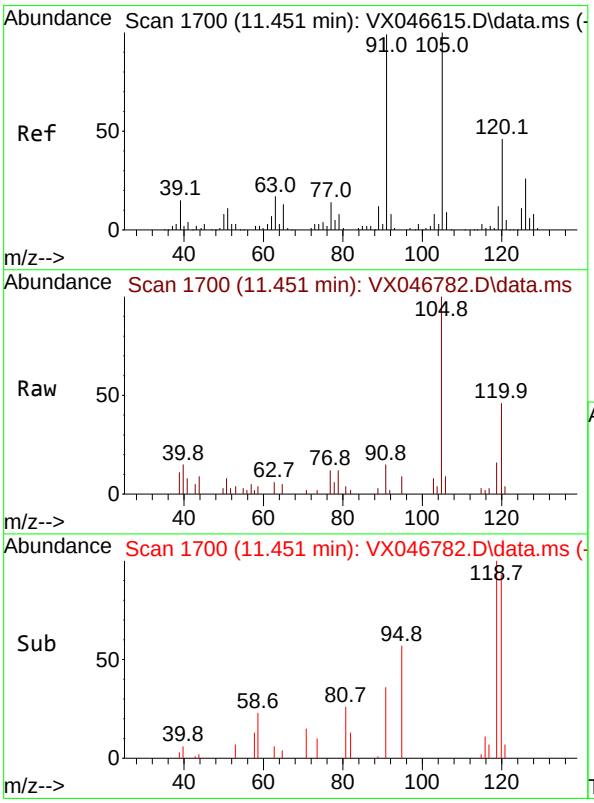
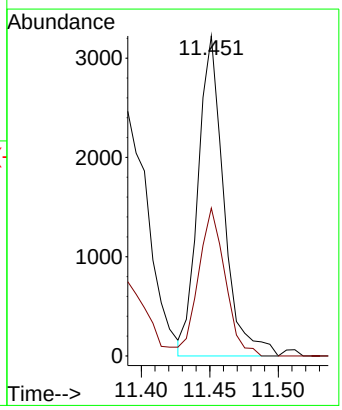
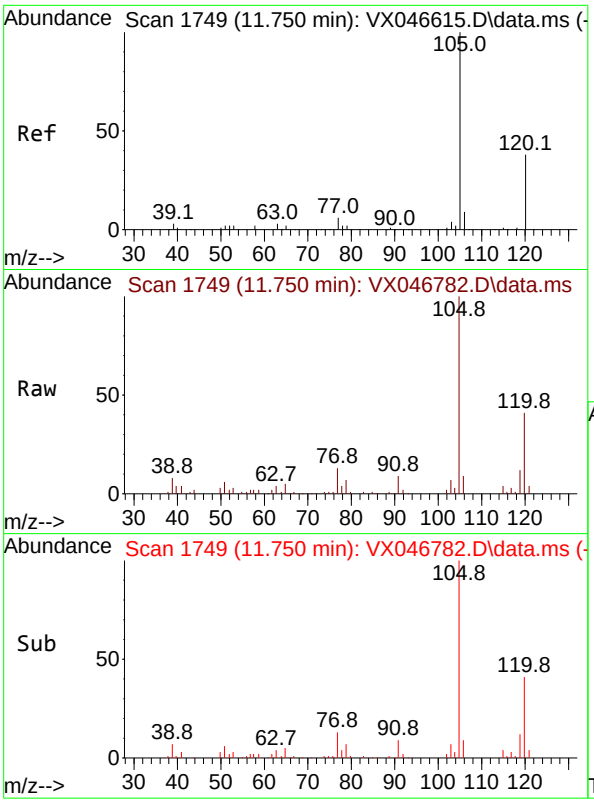


#76
1,3,5-Trimethylbenzene
Concen: 0.683 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:105 Resp: 4221

Ion	Ratio	Lower	Upper
105	100		
120	47.6	0.0	92.8





#80
1,2,4-Trimethylbenzene
Concen: 3.506 ug/l
RT: 11.750 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:105 Resp: 2138

Ion	Ratio	Lower	Upper
105	100		
120	43.1	0.0	89.6

Instrument :
MSVOA_X
ClientSampleId :
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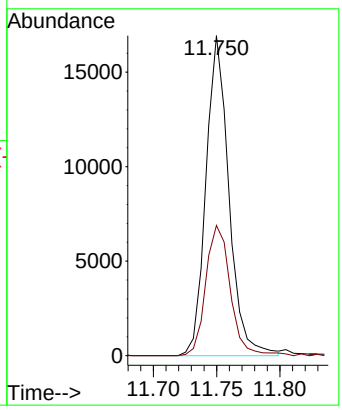
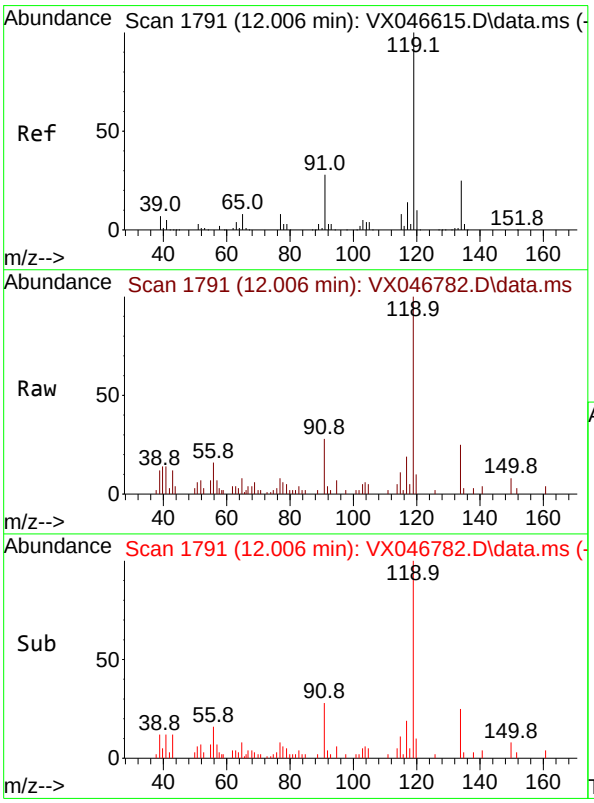
Supervised By :Mahesh Dadoda 06/23/2025

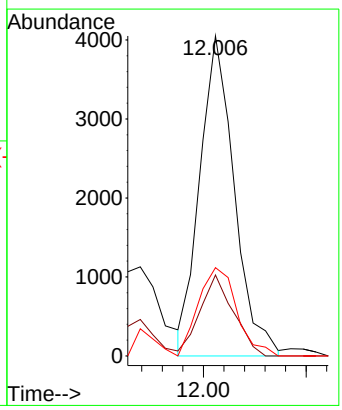


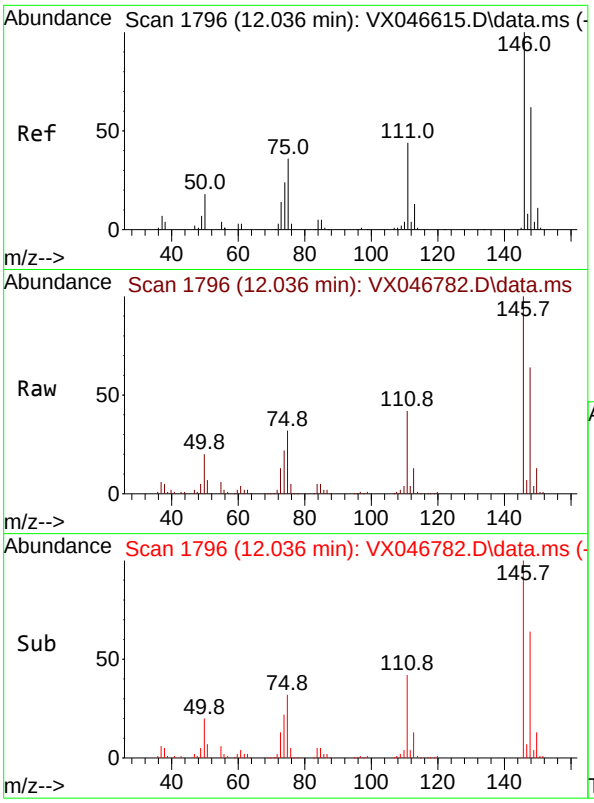


#82
p-Isopropyltoluene
Concen: 0.729 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:119 Resp: 4717

Ion	Ratio	Lower	Upper
119	100		
134	24.5	0.0	50.0
91	30.9	0.0	54.0

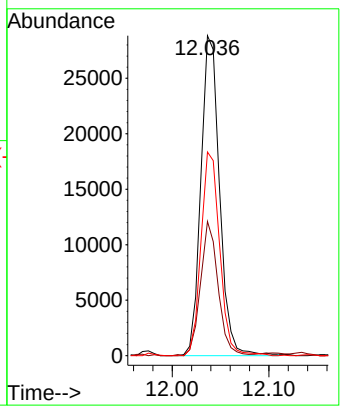




#84
1,4-Dichlorobenzene
Concen: 11.916 ug/l
RT: 12.036 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:146 Resp: 3886

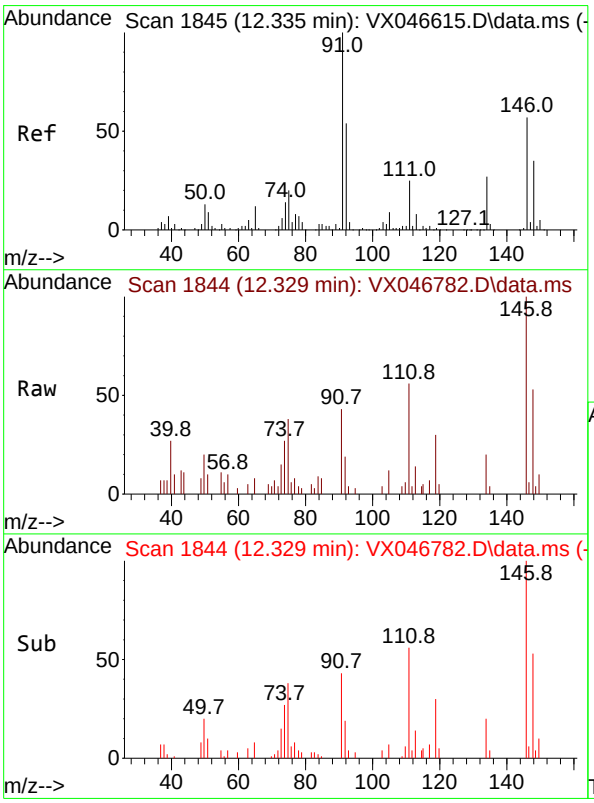
Ion	Ratio	Lower	Upper
146	100		
111	39.3	21.3	63.7
148	63.7	31.4	94.3



Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Manual Integrations
APPROVED

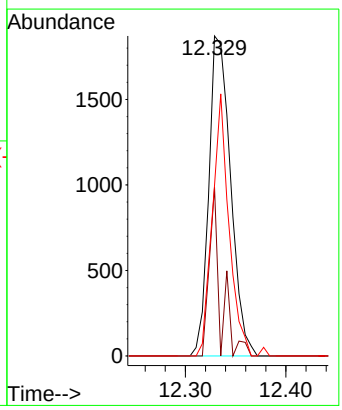
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

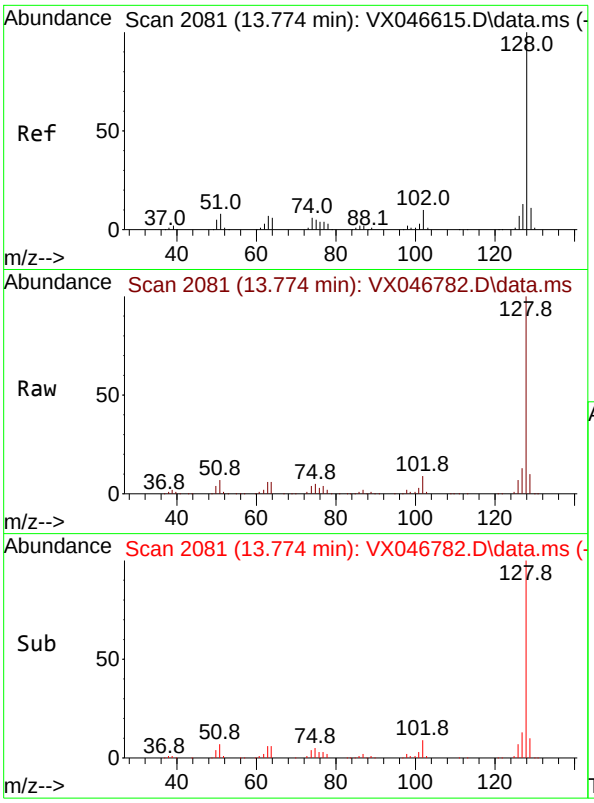


#87
1,2-Dichlorobenzene
Concen: 0.902 ug/l m
RT: 12.329 min Scan# 1844
Delta R.T. -0.006 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:146 Resp: 2814

Ion	Ratio	Lower	Upper
146	100		
111	542.6	22.9	68.5#
148	880.3	31.6	94.8#

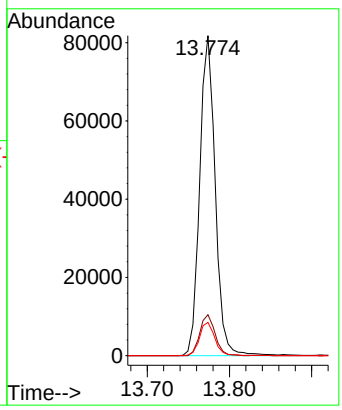




#91
Naphthalene
Concen: 16.435 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046782.D
Acq: 20 Jun 2025 14:31

Tgt Ion:128 Resp: 10725

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	10.2	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
250528063-02

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

Raw Data: **VX046781.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:	06/18/25
Project:	Waste Water 2025	Date Received:	06/19/25
Client Sample ID:	250618063-05-Trip blank	SDG No.:	Q2366
Lab Sample ID:	Q2366-02	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
VX046781.D	1		06/20/25 14:10	VX062025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.1		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	28.8		91 - 112	96%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.1		63 - 112	94%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	22900	4.904			
540-36-3	1,4-Difluorobenzene	140000	6.763			
3114-55-4	Chlorobenzene-d5	129000	10.049			

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

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

Sample Results: **VX046781.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046781.D
Acq On : 20 Jun 2025 14:10
Operator : JC/MD
Sample : Q2366-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
250618063-05-TRIP-BLANK

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 23:14:44 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	4.904	128	22890m	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	139681	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	128987	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	55687	30.054	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.167%			
60) 4-Bromofluorobenzene	11.079	95	61011	28.062	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.533%			
63) Toluene-d8	8.647	98	165862	28.788	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 95.967%			
Target Compounds						Qvalue

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

Sample Results: **VX046781.D**

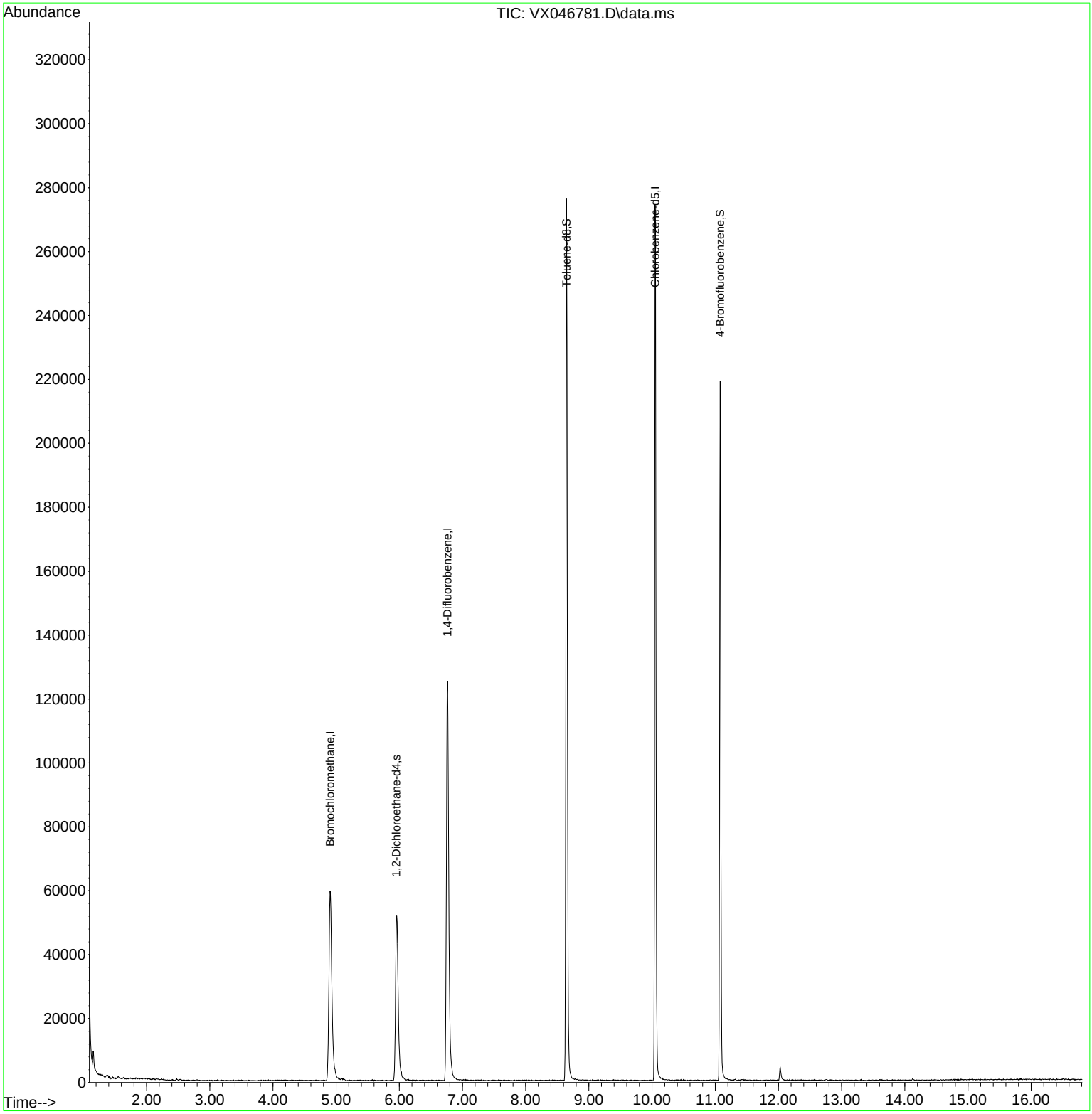
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046781.D
Acq On : 20 Jun 2025 14:10
Operator : JC/MD
Sample : Q2366-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

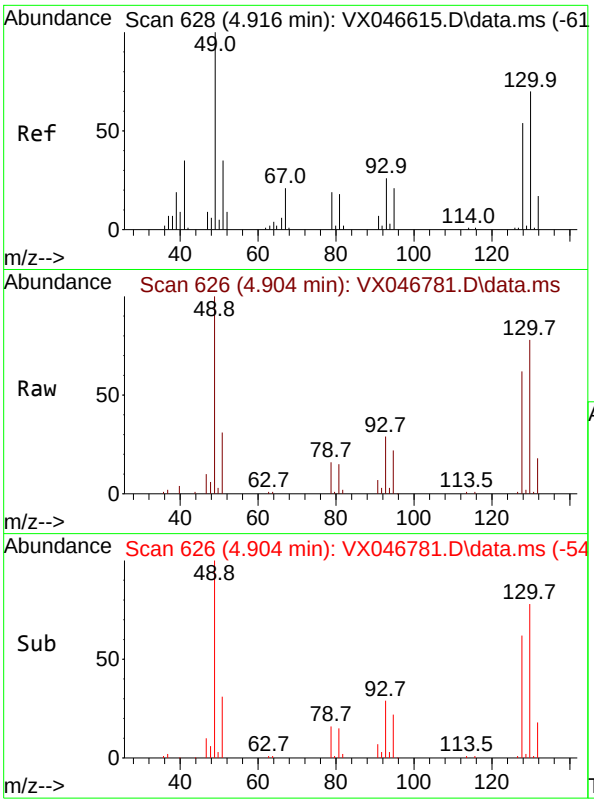
Quant Time: Jun 20 23:14:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
250618063-05-TRIP-BLANK

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

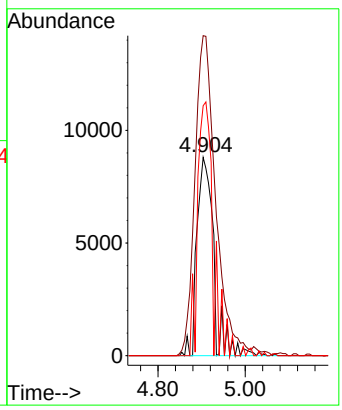




#1
Bromochloromethane
Concen: 30.000 ug/l m
RT: 4.904 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX046781.D
Acq: 20 Jun 2025 14:10

Tgt Ion:128 Resp: 2289

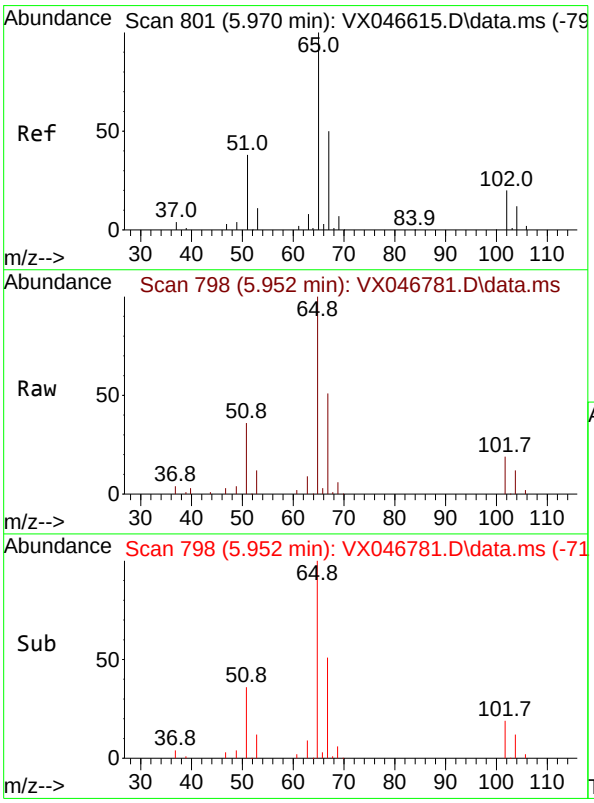
Ion	Ratio	Lower	Upper
128	100		
49	205.4	0.0	448.3
130	94.3	0.0	312.0



Instrument :
MSVOA_X
ClientSampleId :
250618063-05-TRIP-BLANK

Manual Integrations
APPROVED

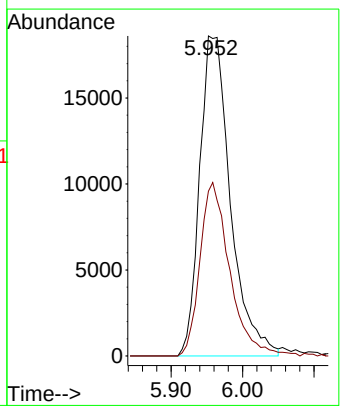
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

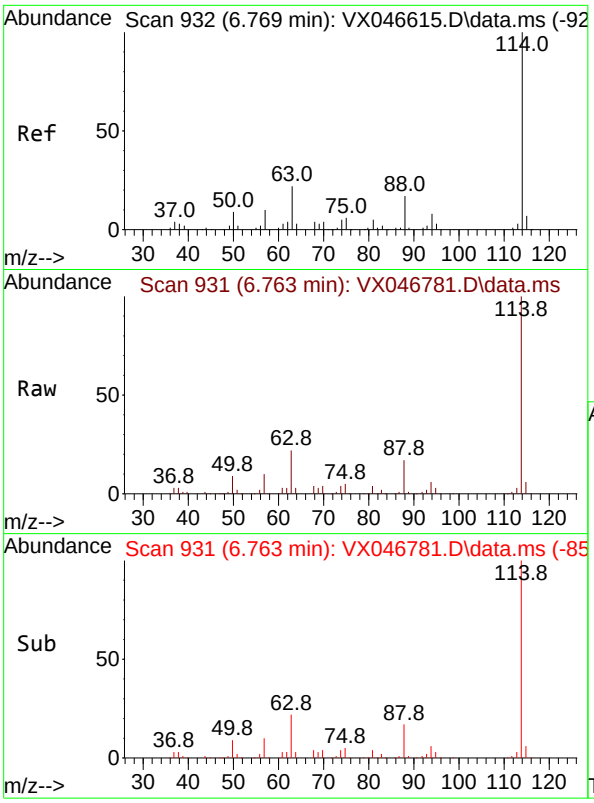


#27
1,2-Dichloroethane-d4
Concen: 30.054 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.018 min
Lab File: VX046781.D
Acq: 20 Jun 2025 14:10

Tgt Ion: 65 Resp: 55687

Ion	Ratio	Lower	Upper
65	100		
67	52.4	41.4	62.2

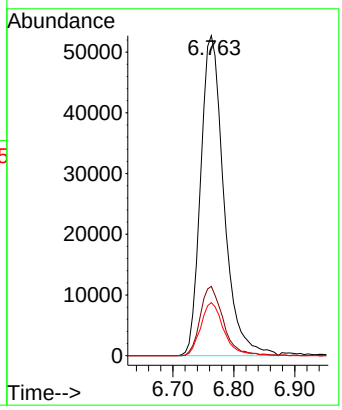




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX046781.D
Acq: 20 Jun 2025 14:10

Tgt Ion:114 Resp: 13968

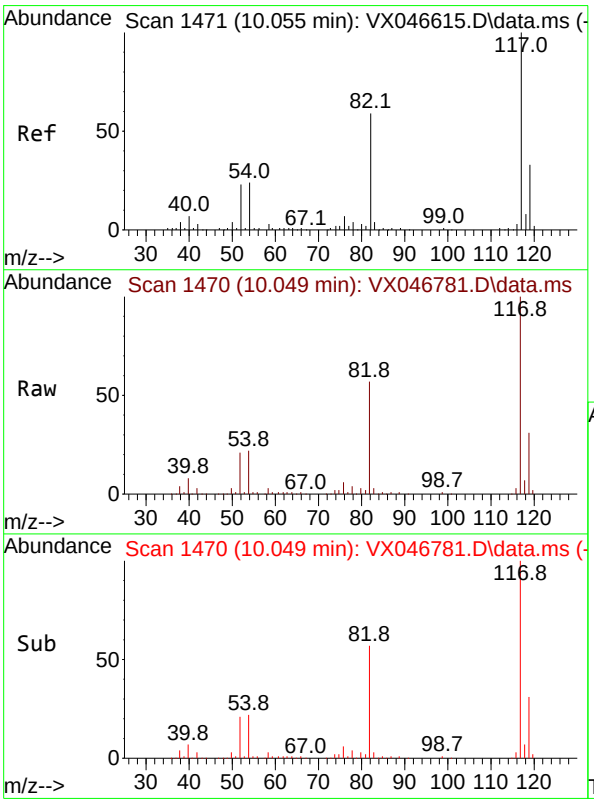
Ion	Ratio	Lower	Upper
114	100		
63	21.3	18.1	27.1
88	16.2	14.1	21.1



Instrument :
MSVOA_X
ClientSampleId :
250618063-05-TRIP-BLANK

Manual Integrations
APPROVED

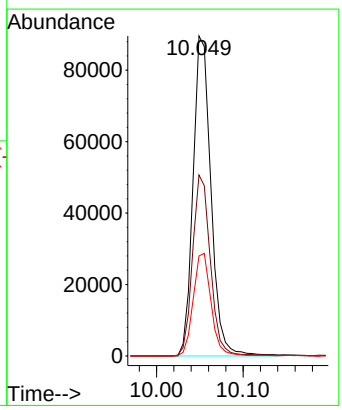
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

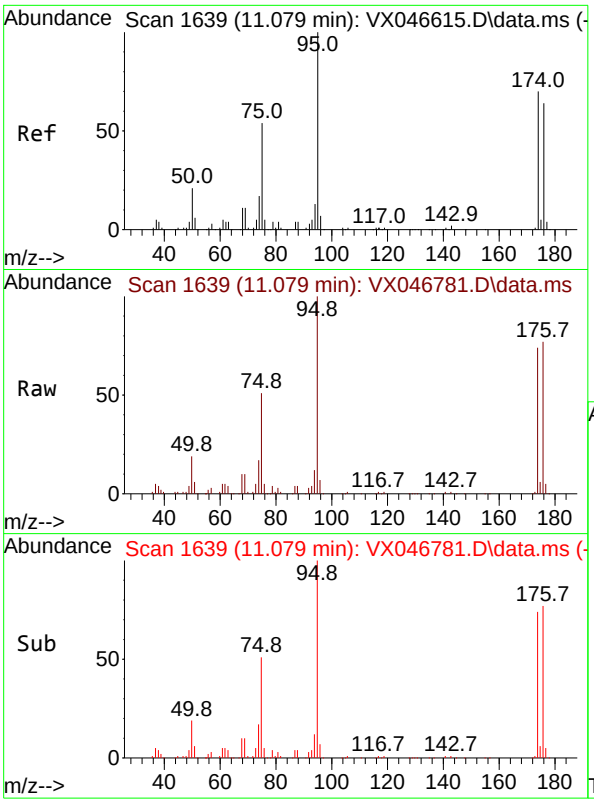


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VX046781.D
Acq: 20 Jun 2025 14:10

Tgt Ion:117 Resp: 128987

Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.5	69.7
119	31.9	25.8	38.6

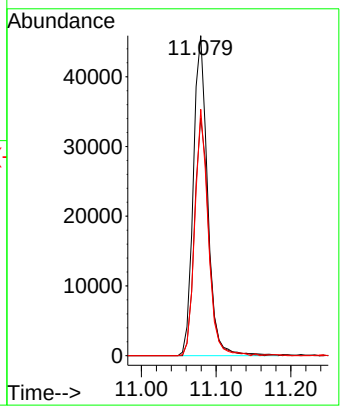




#60
4-Bromofluorobenzene
Concen: 28.062 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046781.D
Acq: 20 Jun 2025 14:10

Tgt Ion: 95 Resp: 6101

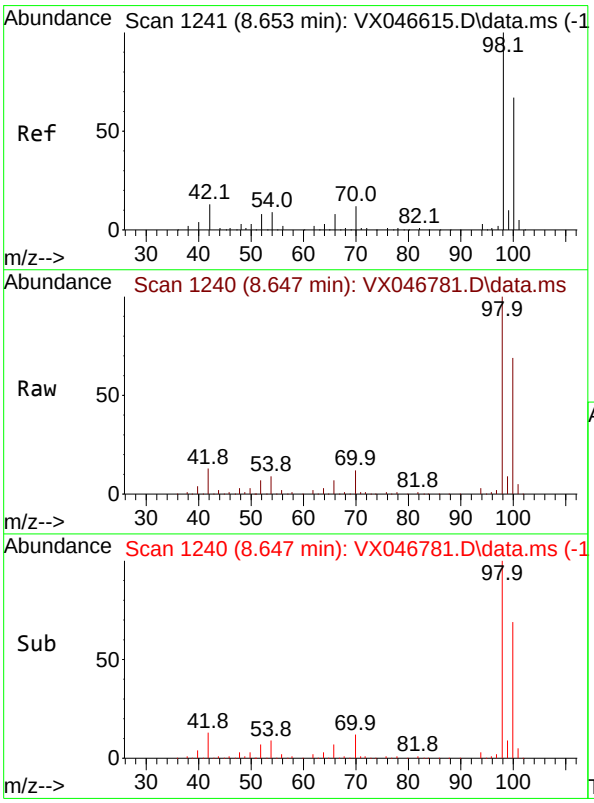
Ion	Ratio	Lower	Upper
95	100		
174	73.4	56.0	84.0
176	71.3	52.2	78.4



Instrument :
MSVOA_X
ClientSampleId :
250618063-05-TRIP-BLANK

Manual Integrations
APPROVED

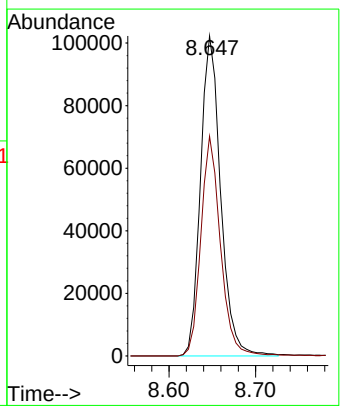
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#63
Toluene-d8
Concen: 28.788 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX046781.D
Acq: 20 Jun 2025 14:10

Tgt Ion: 98 Resp: 165862

Ion	Ratio	Lower	Upper
98	100		
100	66.5	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.: Q2366 SAS No.: Q2366 SDG No.: Q2366

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

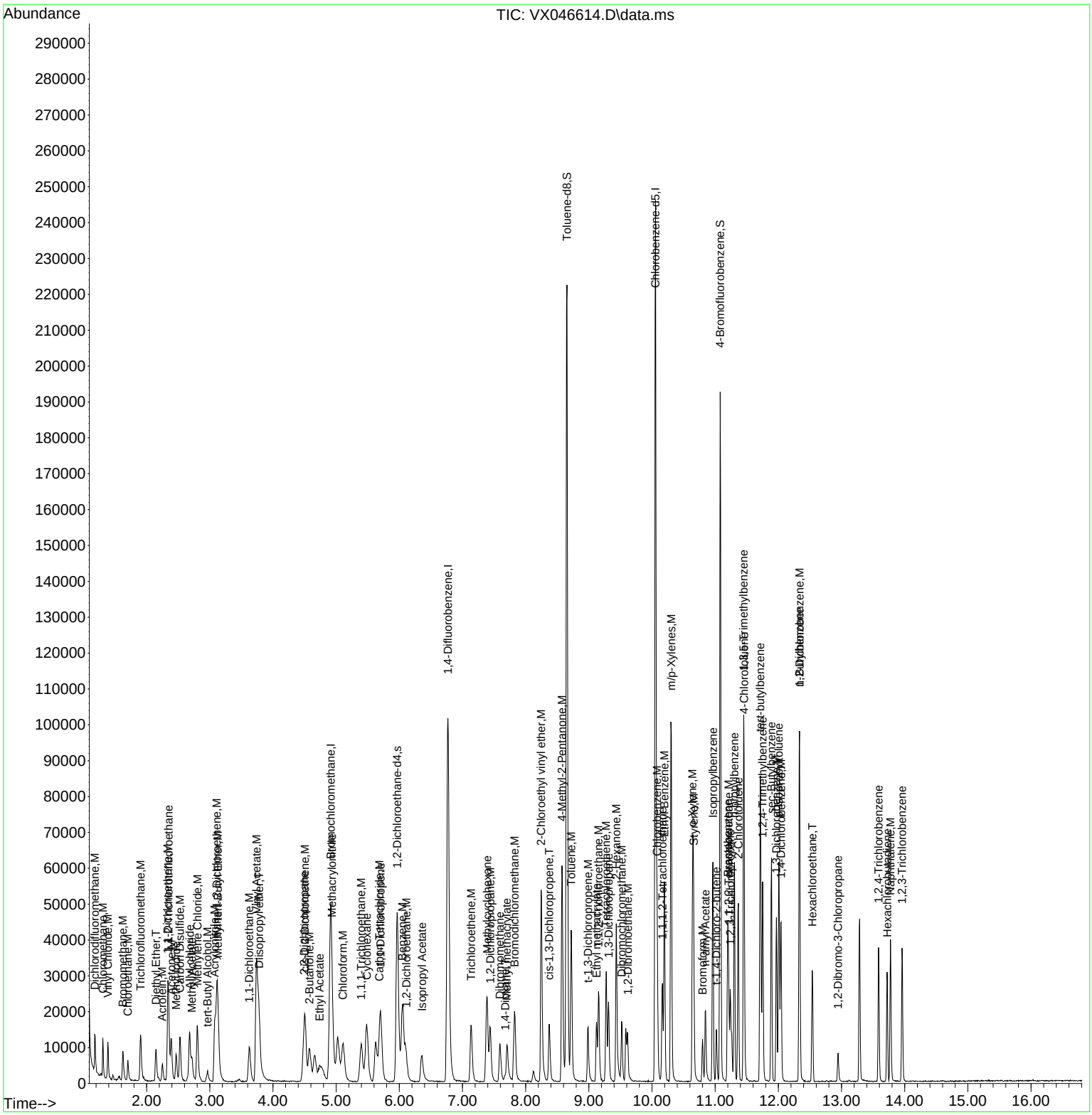
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046614.D
Acq On : 10 Jun 2025 20:19
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 33 Sample Multiplier: 1

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

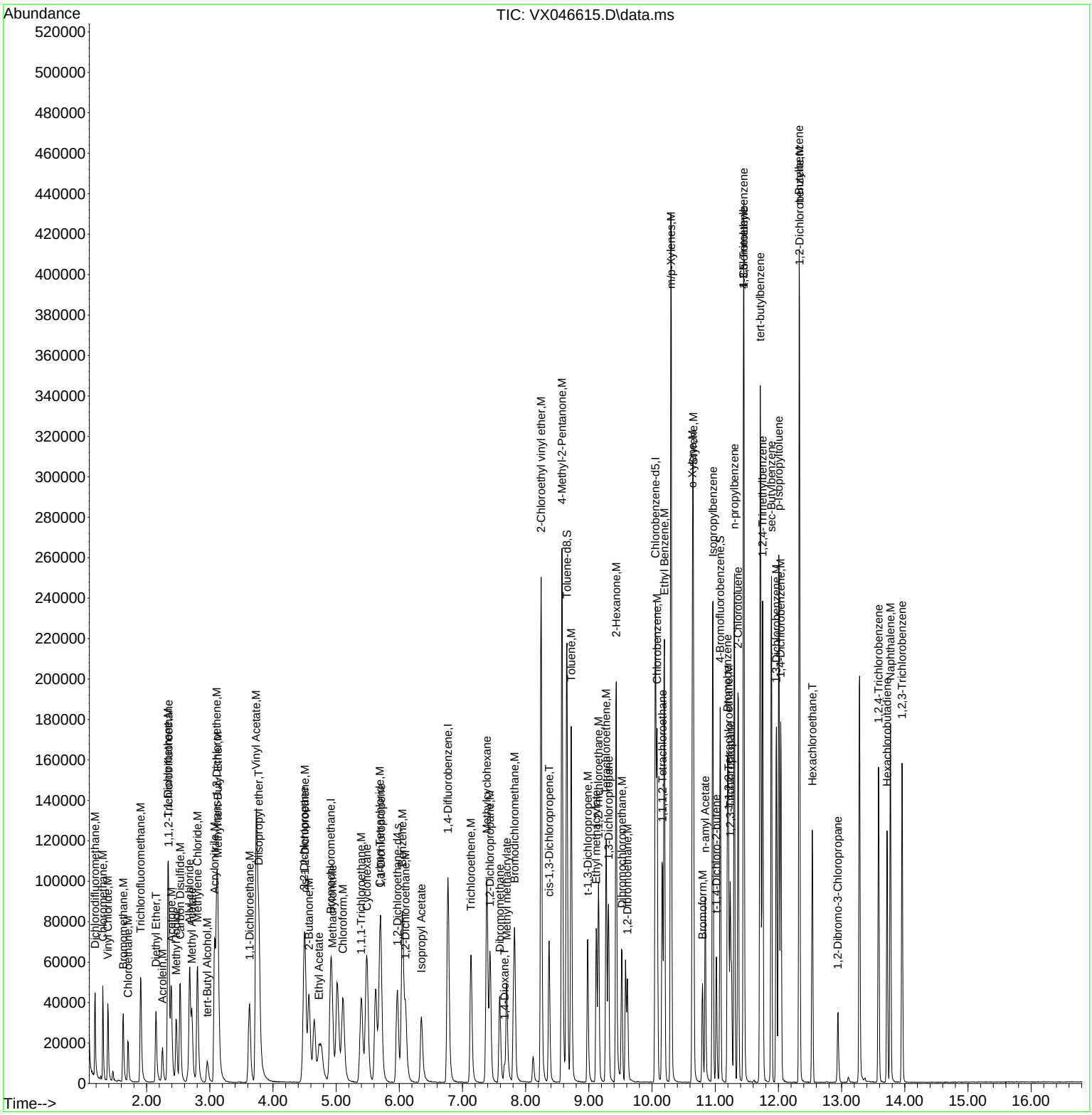
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046615.D
Acq On : 10 Jun 2025 20:40
Operator : JC/MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 34 Sample Multiplier: 1

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

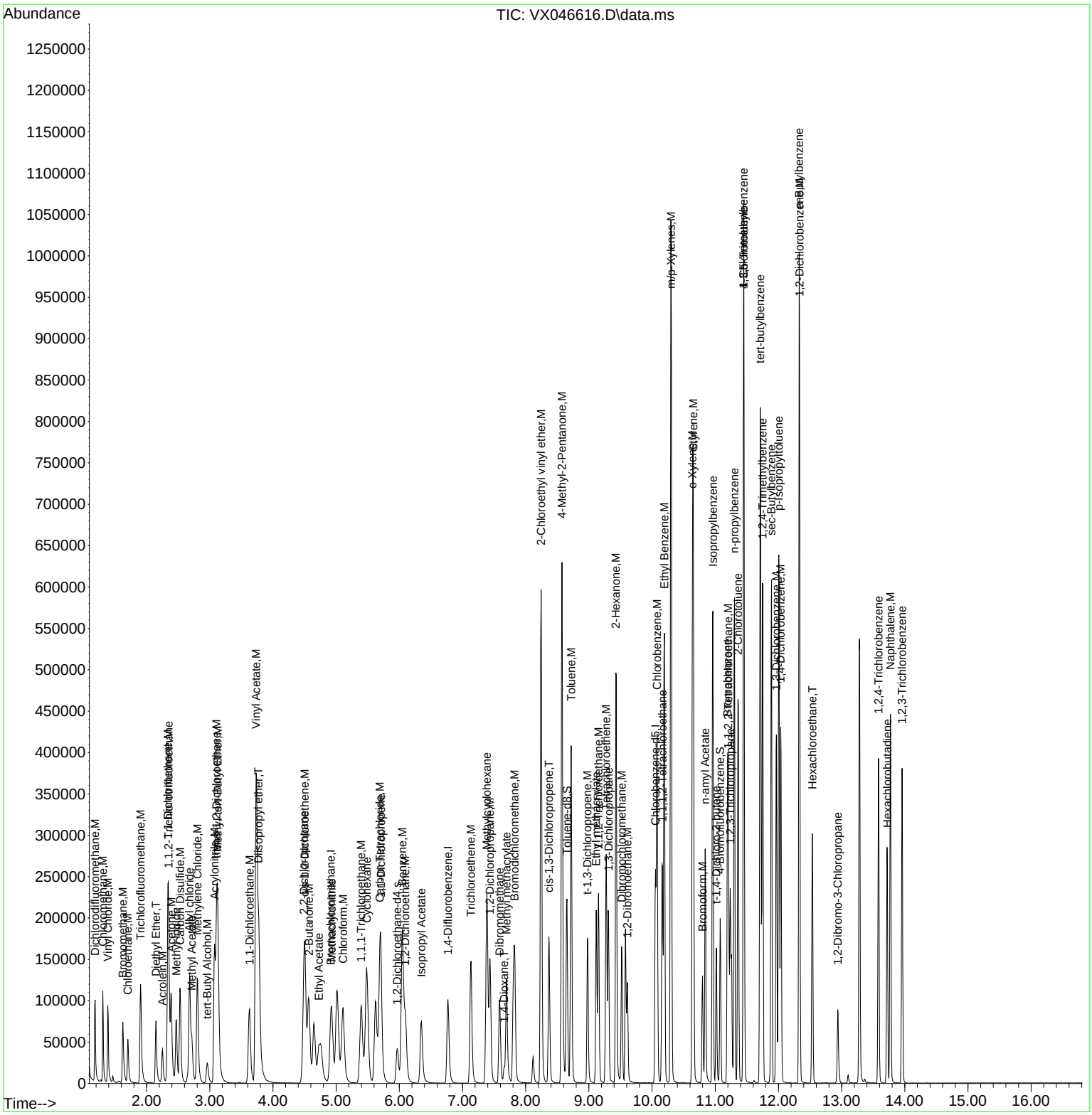
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046616.D
Acq On : 10 Jun 2025 21:01
Operator : JC/MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 35 Sample Multiplier: 1

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

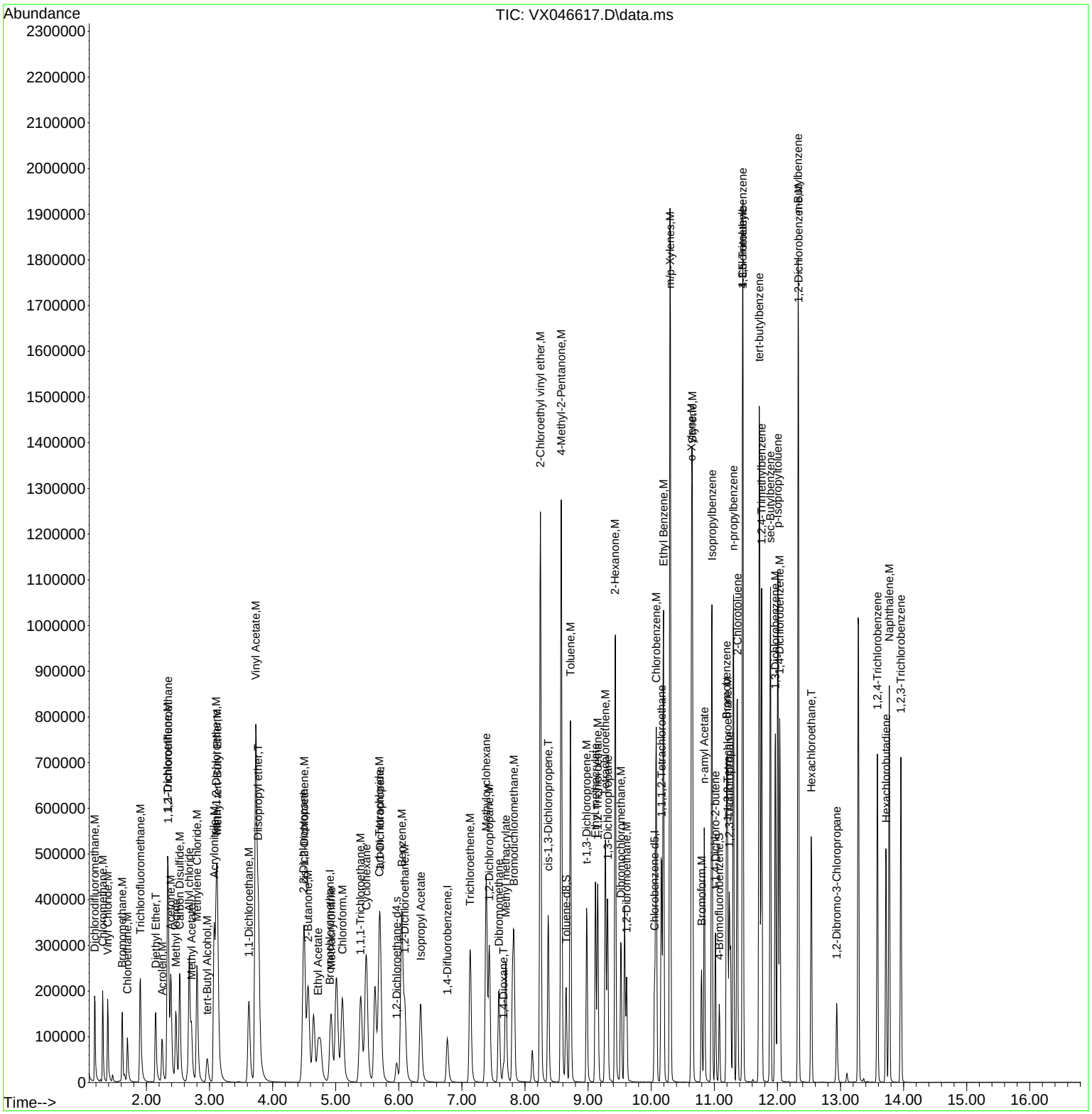
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046617.D
Acq On : 10 Jun 2025 21:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 36 Sample Multiplier: 1

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

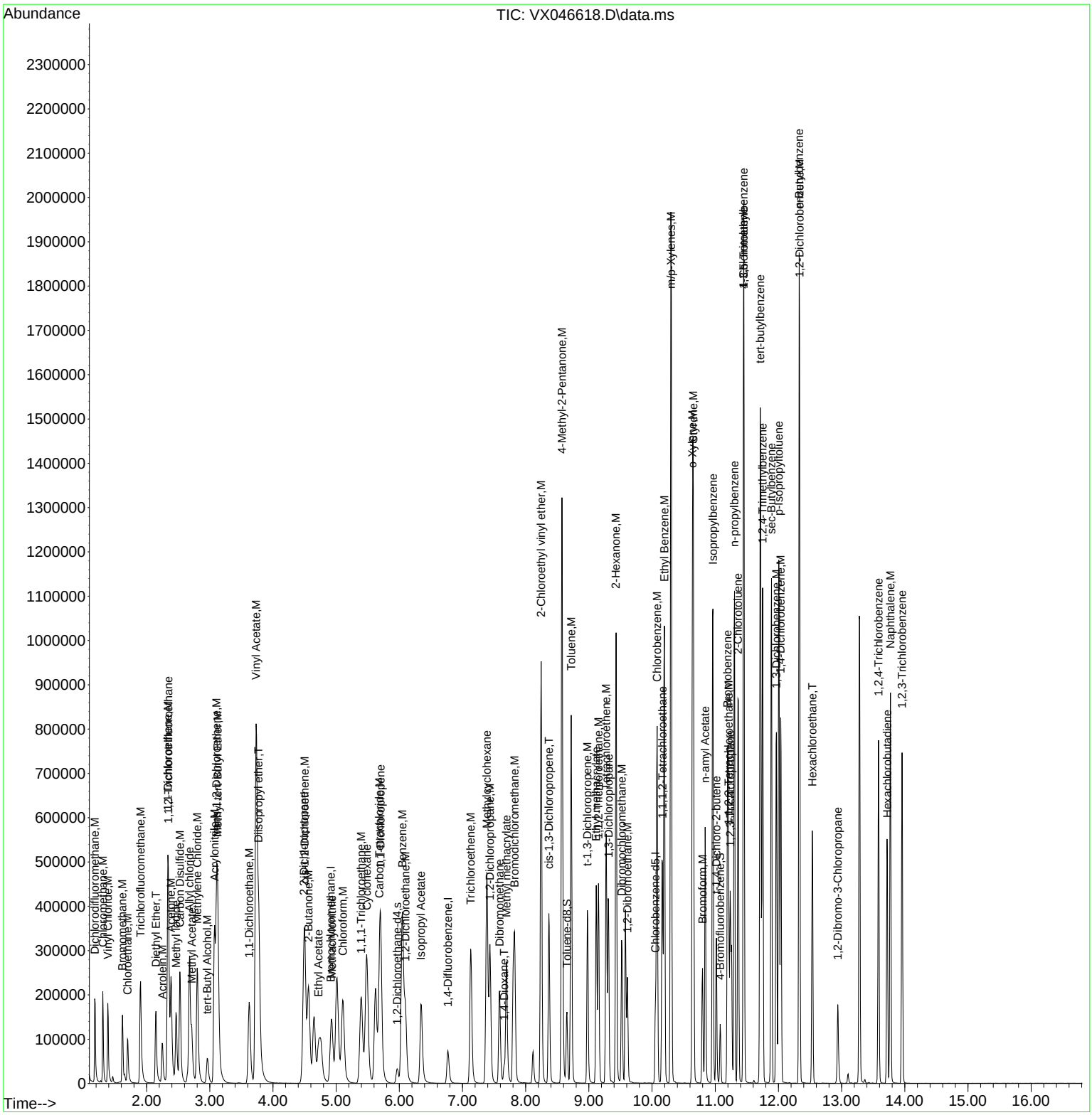
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046618.D
Acq On : 10 Jun 2025 21:44
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 37 Sample Multiplier: 1

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

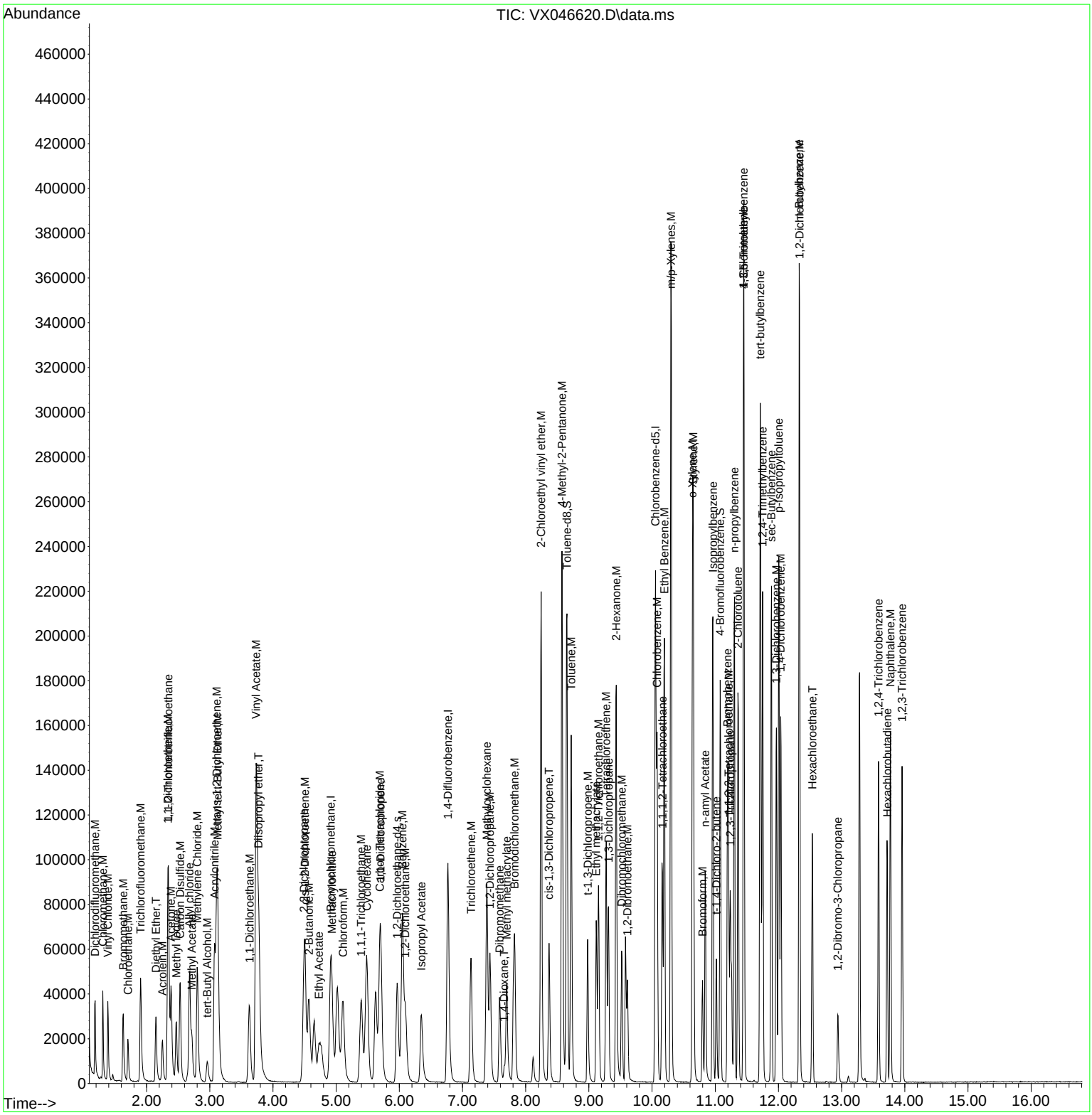
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046620.D
Acq On : 10 Jun 2025 22:26
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 39 Sample Multiplier: 1

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
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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.: Q2366 SAS No.: Q2366 SDG No.: Q2366

Instrument ID: MSVOA_X Calibration Date/Time: 06/20/2025 09:16

Lab File ID: VX046777.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	0.217		-1.81	
Acrylonitrile	0.928	0.734		-20.91	
1,2-Dichloroethane-d4	2.428	2.403	0.01	-1.03	
Toluene-d8	1.340	1.302	0.01	-2.84	
4-Bromofluorobenzene	0.506	0.503	0.2	-0.59	

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\VX062025\
Data File : VX046777.D
Acq On : 20 Jun 2025 09:16
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 23:11:58 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

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone
06/23/2025
Supervised By :Mahesh Dadoda
06/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	4.904	128	22575m	30.000	ug/l		-0.01
28) 1,4-Difluorobenzene	6.763	114	140486	30.000	ug/l		0.00
57) Chlorobenzene-d5	10.049	117	129246	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	5.958	65	54245	29.684	ug/l		-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.933%				
60) 4-Bromofluorobenzene	11.079	95	64960	29.819	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.400%				
63) Toluene-d8	8.647	98	168309	29.154	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.167%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.185	85	28793	19.618	ug/l		97
3) Chloromethane	1.307	50	30955	20.471	ug/l		92
4) Vinyl Chloride	1.386	62	32642	22.391	ug/l		99
5) Bromomethane	1.630	94	19924	22.885	ug/l		88
6) Chloroethane	1.709	64	20308	24.248	ug/l		96
7) Trichlorofluoromethane	1.904	101	47875	22.928	ug/l		94
8) Diethyl Ether	2.148	74	15271	20.873	ug/l		93
9) 1,1,2-Trichlorotrifluo...	2.349	101	27484	19.783	ug/l		91
10) 1,1-Dichloroethene	2.337	96	28698	21.295	ug/l		96
11) Methyl Iodide	2.465	142	30595	16.652	ug/l	#	44
12) Methyl Acetate	2.709	43	22118	13.021	ug/l		98
13) Acrolein	2.245	56	16319	98.040	ug/l		100
14) Acrylonitrile	3.068	53	55198	79.072	ug/l		99
15) Acetone	2.386	58	12387	77.599	ug/l		78
16) Carbon Disulfide	2.526	76	81390	21.768	ug/l		99
17) Allyl chloride	2.678	41	49288	20.158	ug/l		95
18) Methylene Chloride	2.800	84	29832	20.058	ug/l		98
19) trans-1,2-Dichloroethene	3.105	96	29121	20.852	ug/l		98
20) Diisopropyl ether	3.763	45	97531	21.084	ug/l		93
21) 1,1-Dichloroethane	3.623	63	55393	20.899	ug/l		99
22) cis-1,2-Dichloroethene	4.495	96	30483	18.722	ug/l		86
23) tert-Butyl Alcohol	2.947	59	7915	56.138	ug/l	#	100
24) Methyl tert-Butyl Ether	3.117	73	74481	18.092	ug/l		96
25) Chloroform	5.099	83	54460	19.962	ug/l		97
26) Cyclohexane	5.477	56	51000	21.090	ug/l	#	96
29) 1,1-Dichloropropene	5.696	75	39641	17.934	ug/l		97
30) 2-Butanone	4.562	43	58354	59.249	ug/l		99
31) 2,2-Dichloropropane	4.483	77	40775	20.779	ug/l		98
32) 1,1,1-Trichloroethane	5.385	97	46106	16.881	ug/l		97
33) Carbon Tetrachloride	5.678	117	33349m	13.758	ug/l		
34) Benzene	6.044	78	117663	18.119	ug/l	#	93
35) Methacrylonitrile	4.928	41	16922m	14.011	ug/l		
36) 1,2-Dichloroethane	6.086	62	39738	16.173	ug/l	#	92
37) Trichloroethene	7.123	130	29997	18.408	ug/l		90
38) Methylcyclohexane	7.379	83	52584	18.742	ug/l		95
39) 1,2-Dichloropropane	7.434	63	29100	17.963	ug/l		97
40) Dibromomethane	7.580	93	19688	16.257	ug/l		75
41) Bromodichloromethane	7.818	83	43072	17.458	ug/l	#	98
42) Vinyl Acetate	3.727	43	341046	80.249	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046777.D
Acq On : 20 Jun 2025 09:16
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 23:11:58 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

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone

06/23/2025

Supervised By :Mahesh Dadoda

06/23/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
43) Ethyl Acetate	4.715	43	27553m	13.207 ug/l		
44) Isopropyl Acetate	6.336	43	44872	13.750 ug/l		97
45) 1,4-Dioxane	7.659	88	5172	251.260 ug/l		97
46) Methyl methacrylate	7.690	41	23572m	13.229 ug/l		
47) n-amyl Acetate	10.841	43	41232	14.126 ug/l		99
48) t-1,3-Dichloropropene	8.976	75	38046	17.202 ug/l		98
49) cis-1,3-Dichloropropene	8.366	75	43744	17.715 ug/l		93
50) 1,1,2-Trichloroethane	9.147	97	25905	16.972 ug/l	#	80
51) Ethyl methacrylate	9.116	69	33976	14.640 ug/l		91
52) 1,3-Dichloropropane	9.305	76	45649	17.171 ug/l		99
53) Dibromochloromethane	9.506	129	9465m	5.261 ug/l		
54) 1,2-Dibromoethane	9.610	107	26332	16.401 ug/l		97
55) 2-Chloroethyl vinyl ether	8.238	63	111608	92.082 ug/l		99
56) Bromoform	10.811	173	1662m	1.495 ug/l		
58) 4-Methyl-2-Pentanone	8.567	43	128955	61.339 ug/l		98
59) 2-Hexanone	9.427	43	84809	57.183 ug/l		95
61) Tetrachloroethene	9.269	164	25971	19.174 ug/l		97
62) Toluene	8.714	91	128254	18.311 ug/l		100
64) Chlorobenzene	10.073	112	82695	18.304 ug/l		95
65) 1,1,1,2-Tetrachloroethane	10.159	131	27512	18.171 ug/l		99
66) Ethyl Benzene	10.189	91	143200	17.905 ug/l		98
67) m/p-Xylenes	10.299	106	109605	37.051 ug/l		95
68) o-Xylene	10.640	106	52326	18.371 ug/l		96
69) Styrene	10.652	104	89777	18.389 ug/l		97
70) Isopropylbenzene	10.957	105	137878	18.038 ug/l		99
71) 1,1,2,2-Tetrachloroethane	11.207	83	33606	14.967 ug/l		98
72) 1,2,3-Trichloropropane	11.238	75	26637m	14.210 ug/l		
73) Bromobenzene	11.195	156	33374	18.627 ug/l		95
74) n-propylbenzene	11.299	91	169277	18.520 ug/l		100
75) 2-Chlorotoluene	11.360	91	98731	18.044 ug/l		97
76) 1,3,5-Trimethylbenzene	11.445	105	115156	18.132 ug/l		97
77) t-1,4-Dichloro-2-butene	11.018	75	9363	14.786 ug/l	#	76
78) 4-Chlorotoluene	11.451	91	114830	18.139 ug/l		96
79) tert-butylbenzene	11.713	119	118400	18.694 ug/l		94
80) 1,2,4-Trimethylbenzene	11.750	105	113653	18.120 ug/l		100
81) sec-Butylbenzene	11.884	105	150809	18.607 ug/l		98
82) p-Isopropyltoluene	12.006	119	125207	18.822 ug/l		97
83) 1,3-Dichlorobenzene	11.969	146	63193	18.947 ug/l		98
84) 1,4-Dichlorobenzene	12.036	146	63997	19.081 ug/l		97
85) n-Butylbenzene	12.329	91	118315	18.462 ug/l		98
86) Hexachloroethane	12.536	117	15682m	13.574 ug/l		
87) 1,2-Dichlorobenzene	12.335	146	60525	18.863 ug/l		98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	5664	12.228 ug/l		88
89) 1,2,4-Trichlorobenzene	13.585	180	40598	19.192 ug/l		98
90) Hexachlorobutadiene	13.719	225	17210	18.476 ug/l		73
91) Naphthalene	13.774	128	100889	15.033 ug/l		99
92) 1,2,3-Trichlorobenzene	13.957	180	37700	18.156 ug/l		98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046777.D
Acq On : 20 Jun 2025 09:16
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 23:11:58 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

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

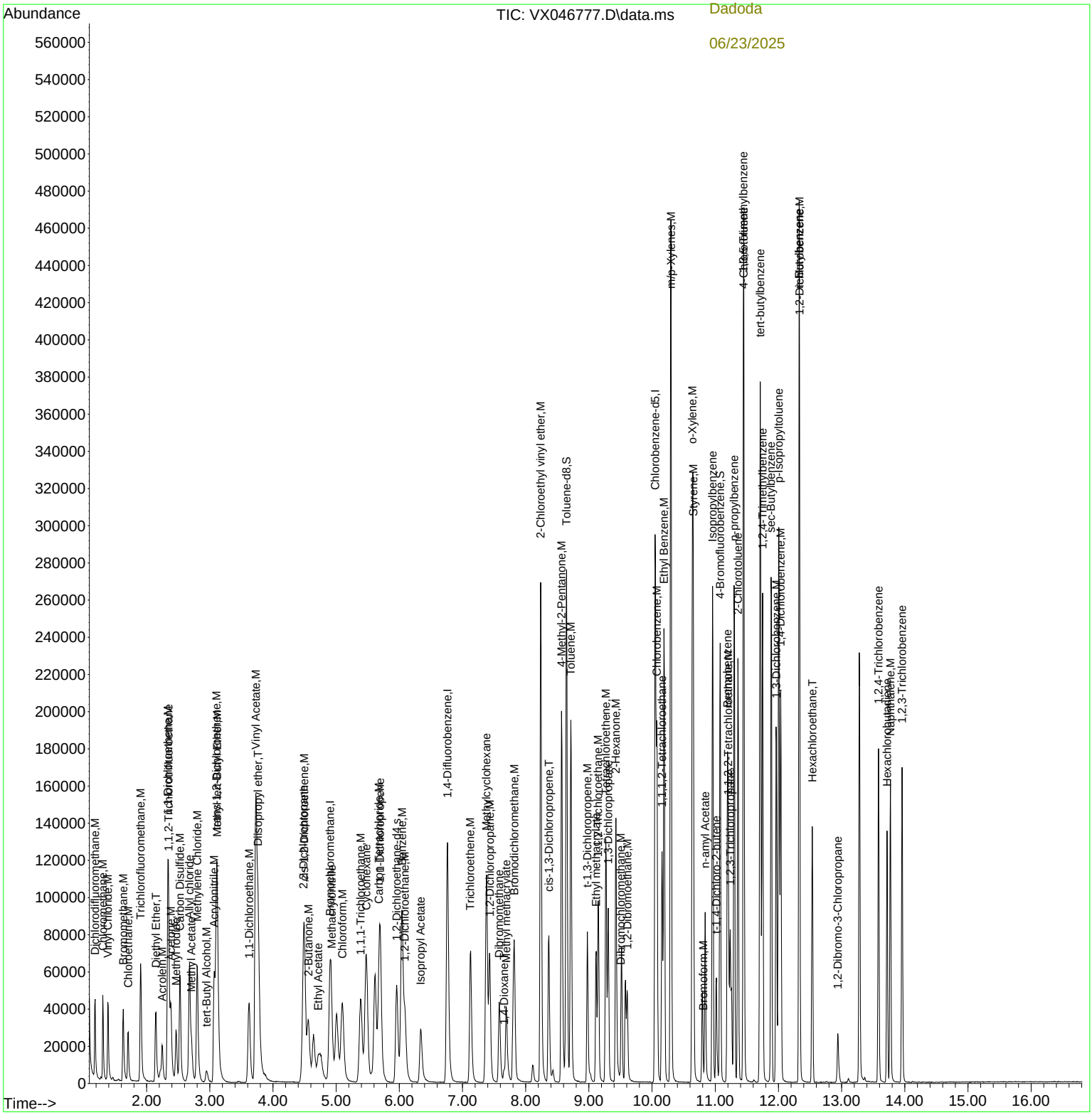
Manual Integrations APPROVED

Reviewed By :John Carlone

06/23/2025

Supervised By :Mahesh Dadoda

06/23/2025



Sample Results: **VX046777.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046777.D
Acq On : 20 Jun 2025 09:16
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 20 23:11:58 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

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	114	-0.01
2	M	Dichlorodifluoromethane	1.950	1.913	1.9	107	0.00
3	M	Chloromethane	2.010	2.057	-2.3	110	0.00
4	M	Vinyl Chloride	1.937	2.169	-12.0	121	0.00
5	M	Bromomethane	1.157	1.324	-14.4	117	0.00
6	M	Chloroethane	1.113	1.349	-21.2	139	0.00
7	M	Trichlorofluoromethane	2.775	3.181	-14.6	122	0.00
8	T	Diethyl Ether	0.972	1.015	-4.4	112	0.00
9		1,1,2-Trichlorotrifluoroeth	1.846	1.826	1.1	107	0.00
10	M	1,1-Dichloroethene	1.791	1.907	-6.5	118	0.00
11		Methyl Iodide	2.442	2.033	16.7	92	0.00
12		Methyl Acetate	2.257	1.470	34.9#	54	0.00
13	M	Acrolein	0.221	0.217	1.8	119	0.00
14	M	Acrylonitrile	0.928	0.734	20.9	86	0.00
15	M	Acetone	0.212	0.165	22.2	85	0.00
16	M	Carbon Disulfide	4.969	5.408	-8.8	118	0.00
17		Allyl chloride	3.249	3.275	-0.8	110	0.00
18	M	Methylene Chloride	1.976	1.982	-0.3	109	0.00
19	M	trans-1,2-Dichloroethene	1.856	1.935	-4.3	115	0.00
20	T	Diisopropyl ether	6.147	6.480	-5.4	113	-0.01
21	M	1,1-Dichloroethane	3.522	3.681	-4.5	113	0.00
22	M	cis-1,2-Dichloroethene	2.164	2.025	6.4	101	-0.01
23	M	tert-Butyl Alcohol	0.187	0.105	43.9#	65	-0.01
24	M	Methyl tert-Butyl Ether	5.471	4.949	9.5	98	-0.01
25	M	Chloroform	3.625	3.619	0.2	107	0.00
26		Cyclohexane	3.214	3.389	-5.4	114	0.00
27	s	1,2-Dichloroethane-d4	2.428	2.403	1.0	112	-0.01
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	134	0.00
29		1,1-Dichloropropene	0.472	0.423	10.4	110	-0.01
30	M	2-Butanone	0.210	0.125	40.5#	74	0.00
31		2,2-Dichloropropane	0.419	0.435	-3.8	133	-0.01
32	M	1,1,1-Trichloroethane	0.583	0.492	15.6	105	-0.01
33	M	Carbon Tetrachloride	0.518	0.356	31.3#	86	-0.01
34	M	Benzene	1.387	1.256	9.4	112	0.00
35		Methacrylonitrile	0.258	0.181	29.8#	91	-0.01
36	M	1,2-Dichloroethane	0.525	0.424	19.2	98	-0.01
37	M	Trichloroethene	0.348	0.320	8.0	117	-0.01
38		Methylcyclohexane	0.599	0.561	6.3	120	0.00
39	M	1,2-Dichloropropane	0.346	0.311	10.1	113	0.00
40		Dibromomethane	0.259	0.210	18.9	102	-0.01
41	M	Bromodichloromethane	0.527	0.460	12.7	107	0.00
42	M	Vinyl Acetate	0.908	0.728	19.8	113	0.00
43		Ethyl Acetate	0.446	0.294	34.1#	84	-0.01
44		Isopropyl Acetate	0.697	0.479	31.3#	90	-0.01
45	T	1,4-Dioxane	0.004	0.003	25.0	77	0.00
46		Methyl methacrylate	0.380	0.252	33.7#	83	-0.01
47		n-amyl Acetate	0.623	0.440	29.4#	105	0.00
48	M	t-1,3-Dichloropropene	0.472	0.406	14.0	115	0.00

Sample Results: **VX046777.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046777.D
Acq On : 20 Jun 2025 09:16
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 20 23:11:58 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

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	0.467	11.4	115	0.00
50	M	1,1,2-Trichloroethane	0.326	0.277	15.0	106	0.00
51		Ethyl methacrylate	0.496	0.363	26.8#	94	0.00
52		1,3-Dichloropropane	0.568	0.487	14.3	105	0.00
53	M	Dibromochloromethane	0.384	0.101	73.7#	33#	-0.02
54	M	1,2-Dibromoethane	0.343	0.281	18.1	104	0.00
55	M	2-Chloroethyl vinyl ether	0.259	0.238	8.1	112	0.00
56	M	Bromoform	0.237	0.018	92.4#	10#	0.01
57	I	Chlorobenzene-d5	1.000	1.000	0.0	134	0.00
58	M	4-Methyl-2-Pentanone	0.488	0.299	38.7#	77	0.00
59	M	2-Hexanone	0.344	0.197	42.7#	71	0.00
60	S	4-Bromofluorobenzene	0.506	0.503	0.6	133	0.00
61	M	Tetrachloroethene	0.314	0.301	4.1	121	0.00
62	M	Toluene	1.626	1.488	8.5	114	0.00
63	S	Toluene-d8	1.340	1.302	2.8	128	0.00
64	M	Chlorobenzene	1.049	0.960	8.5	117	0.00
65		1,1,1,2-Tetrachloroethane	0.351	0.319	9.1	115	0.00
66	M	Ethyl Benzene	1.856	1.662	10.5	113	0.00
67	M	m/p-Xylenes	0.687	0.636	7.4	116	0.00
68	M	o-Xylene	0.661	0.607	8.2	115	0.00
69	M	Styrene	1.133	1.042	8.0	114	0.00
70		Isopropylbenzene	1.774	1.600	9.8	114	0.00
71	M	1,1,2,2-Tetrachloroethane	0.521	0.390	25.1#	92	0.00
72		1,2,3-Trichloropropane	0.435	0.309	29.0#	89	0.00
73		Bromobenzene	0.416	0.387	7.0	119	0.00
74		n-propylbenzene	2.122	1.965	7.4	116	0.00
75		2-Chlorotoluene	1.270	1.146	9.8	112	0.00
76		1,3,5-Trimethylbenzene	1.474	1.336	9.4	113	0.00
77		t-1,4-Dichloro-2-butene	0.147	0.109	25.9#	100	0.00
78		4-Chlorotoluene	1.469	1.333	9.3	111	0.00
79		tert-butylbenzene	1.470	1.374	6.5	117	0.00
80		1,2,4-Trimethylbenzene	1.456	1.319	9.4	113	0.00
81		sec-Butylbenzene	1.881	1.750	7.0	116	0.00
82		p-Isopropyltoluene	1.544	1.453	5.9	117	0.00
83	M	1,3-Dichlorobenzene	0.774	0.733	5.3	119	0.00
84	M	1,4-Dichlorobenzene	0.779	0.743	4.6	119	0.00
85		n-Butylbenzene	1.488	1.373	7.7	114	0.00
86	T	Hexachloroethane	0.268	0.182	32.1#	87	0.00
87	M	1,2-Dichlorobenzene	0.745	0.702	5.8	117	0.00
88		1,2-Dibromo-3-Chloropropane	0.108	0.066	38.9#	78	0.00
89		1,2,4-Trichlorobenzene	0.491	0.471	4.1	122	0.00
90		Hexachlorobutadiene	0.216	0.200	7.4	117	0.00
91	M	Naphthalene	1.558	1.171	24.8	97	0.00
92		1,2,3-Trichlorobenzene	0.482	0.438	9.1	114	0.00

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

Sample Results: **VX046777.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046777.D
Acq On : 20 Jun 2025 09:16
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 20 23:11:58 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

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	114	-0.01
2	M	Dichlorodifluoromethane	20.000	19.618	1.9	107	0.00
3	M	Chloromethane	20.000	20.471	-2.4	110	0.00
4	M	Vinyl Chloride	20.000	22.391	-12.0	121	0.00
5	M	Bromomethane	20.000	22.885	-14.4	117	0.00
6	M	Chloroethane	20.000	24.248	-21.2	139	0.00
7	M	Trichlorofluoromethane	20.000	22.928	-14.6	122	0.00
8	T	Diethyl Ether	20.000	20.873	-4.4	112	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	19.783	1.1	107	0.00
10	M	1,1-Dichloroethene	20.000	21.295	-6.5	118	0.00
11		Methyl Iodide	20.000	16.652	16.7	92	0.00
12		Methyl Acetate	20.000	13.021	34.9#	54	0.00
13	M	Acrolein	100.000	98.040	2.0	119	0.00
14	M	Acrylonitrile	100.000	79.072	20.9	86	0.00
15	M	Acetone	100.000	77.599	22.4	85	0.00
16	M	Carbon Disulfide	20.000	21.768	-8.8	118	0.00
17		Allyl chloride	20.000	20.158	-0.8	110	0.00
18	M	Methylene Chloride	20.000	20.058	-0.3	109	0.00
19	M	trans-1,2-Dichloroethene	20.000	20.852	-4.3	115	0.00
20	T	Diisopropyl ether	20.000	21.084	-5.4	113	-0.01
21	M	1,1-Dichloroethane	20.000	20.899	-4.5	113	0.00
22	M	cis-1,2-Dichloroethene	20.000	18.722	6.4	101	-0.01
23	M	tert-Butyl Alcohol	100.000	56.138	43.9#	65	-0.01
24	M	Methyl tert-Butyl Ether	20.000	18.092	9.5	98	-0.01
25	M	Chloroform	20.000	19.962	0.2	107	0.00
26		Cyclohexane	20.000	21.090	-5.4	114	0.00
27	s	1,2-Dichloroethane-d4	30.000	29.684	1.1	112	-0.01
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	134	0.00
29		1,1-Dichloropropene	20.000	17.934	10.3	110	-0.01
30	M	2-Butanone	100.000	59.249	40.8#	74	0.00
31		2,2-Dichloropropane	20.000	20.779	-3.9	133	-0.01
32	M	1,1,1-Trichloroethane	20.000	16.881	15.6	105	-0.01
33	M	Carbon Tetrachloride	20.000	13.758	31.2#	86	-0.01
34	M	Benzene	20.000	18.119	9.4	112	0.00
35		Methacrylonitrile	20.000	14.011	29.9#	91	-0.01
36	M	1,2-Dichloroethane	20.000	16.173	19.1	98	-0.01
37	M	Trichloroethene	20.000	18.408	8.0	117	-0.01
38		Methylcyclohexane	20.000	18.742	6.3	120	0.00
39	M	1,2-Dichloropropane	20.000	17.963	10.2	113	0.00
40		Dibromomethane	20.000	16.257	18.7	102	-0.01
41	M	Bromodichloromethane	20.000	17.458	12.7	107	0.00
42	M	Vinyl Acetate	100.000	80.249	19.8	113	0.00
43		Ethyl Acetate	20.000	13.207	34.0#	84	-0.01
44		Isopropyl Acetate	20.000	13.750	31.3#	90	-0.01
45	T	1,4-Dioxane	400.000	251.260	37.2#	77	0.00
46		Methyl methacrylate	20.000	13.229	33.9#	83	-0.01
47		n-amyl Acetate	20.000	14.126	29.4#	105	0.00
48	M	t-1,3-Dichloropropene	20.000	17.202	14.0	115	0.00

Sample Results: **VX046777.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046777.D
Acq On : 20 Jun 2025 09:16
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 20 23:11:58 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

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	cis-1,3-Dichloropropene	20.000	17.715	11.4	115	0.00
50	M	1,1,2-Trichloroethane	20.000	16.972	15.1	106	0.00
51		Ethyl methacrylate	20.000	14.640	26.8#	94	0.00
52		1,3-Dichloropropane	20.000	17.171	14.1	105	0.00
53	M	Dibromochloromethane	20.000	5.261	73.7#	33	-0.02
54	M	1,2-Dibromoethane	20.000	16.401	18.0	104	0.00
55	M	2-Chloroethyl vinyl ether	100.000	92.082	7.9	112	0.00
56	M	Bromoform	20.000	1.495	92.5#	10	0.01
57	I	Chlorobenzene-d5	30.000	30.000	0.0	134	0.00
58	M	4-Methyl-2-Pentanone	100.000	61.339	38.7#	77	0.00
59	M	2-Hexanone	100.000	57.183	42.8#	71	0.00
60	S	4-Bromofluorobenzene	30.000	29.819	0.6	133	0.00
61	M	Tetrachloroethene	20.000	19.174	4.1	121	0.00
62	M	Toluene	20.000	18.311	8.4	114	0.00
63	S	Toluene-d8	30.000	29.154	2.8	128	0.00
64	M	Chlorobenzene	20.000	18.304	8.5	117	0.00
65		1,1,1,2-Tetrachloroethane	20.000	18.171	9.1	115	0.00
66	M	Ethyl Benzene	20.000	17.905	10.5	113	0.00
67	M	m/p-Xylenes	40.000	37.051	7.4	116	0.00
68	M	o-Xylene	20.000	18.371	8.1	115	0.00
69	M	Styrene	20.000	18.389	8.1	114	0.00
70		Isopropylbenzene	20.000	18.038	9.8	114	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	14.967	25.2#	92	0.00
72		1,2,3-Trichloropropane	20.000	14.210	28.9#	89	0.00
73		Bromobenzene	20.000	18.627	6.9	119	0.00
74		n-propylbenzene	20.000	18.520	7.4	116	0.00
75		2-Chlorotoluene	20.000	18.044	9.8	112	0.00
76		1,3,5-Trimethylbenzene	20.000	18.132	9.3	113	0.00
77		t-1,4-Dichloro-2-butene	20.000	14.786	26.1#	100	0.00
78		4-Chlorotoluene	20.000	18.139	9.3	111	0.00
79		tert-butylbenzene	20.000	18.694	6.5	117	0.00
80		1,2,4-Trimethylbenzene	20.000	18.120	9.4	113	0.00
81		sec-Butylbenzene	20.000	18.607	7.0	116	0.00
82		p-Isopropyltoluene	20.000	18.822	5.9	117	0.00
83	M	1,3-Dichlorobenzene	20.000	18.947	5.3	119	0.00
84	M	1,4-Dichlorobenzene	20.000	19.081	4.6	119	0.00
85		n-Butylbenzene	20.000	18.462	7.7	114	0.00
86	T	Hexachloroethane	20.000	13.574	32.1#	87	0.00
87	M	1,2-Dichlorobenzene	20.000	18.863	5.7	117	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	12.228	38.9#	78	0.00
89		1,2,4-Trichlorobenzene	20.000	19.192	4.0	122	0.00
90		Hexachlorobutadiene	20.000	18.476	7.6	117	0.00
91	M	Naphthalene	20.000	15.033	24.8	97	0.00
92		1,2,3-Trichlorobenzene	20.000	18.156	9.2	114	0.00

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

QC SAMPLE DATA

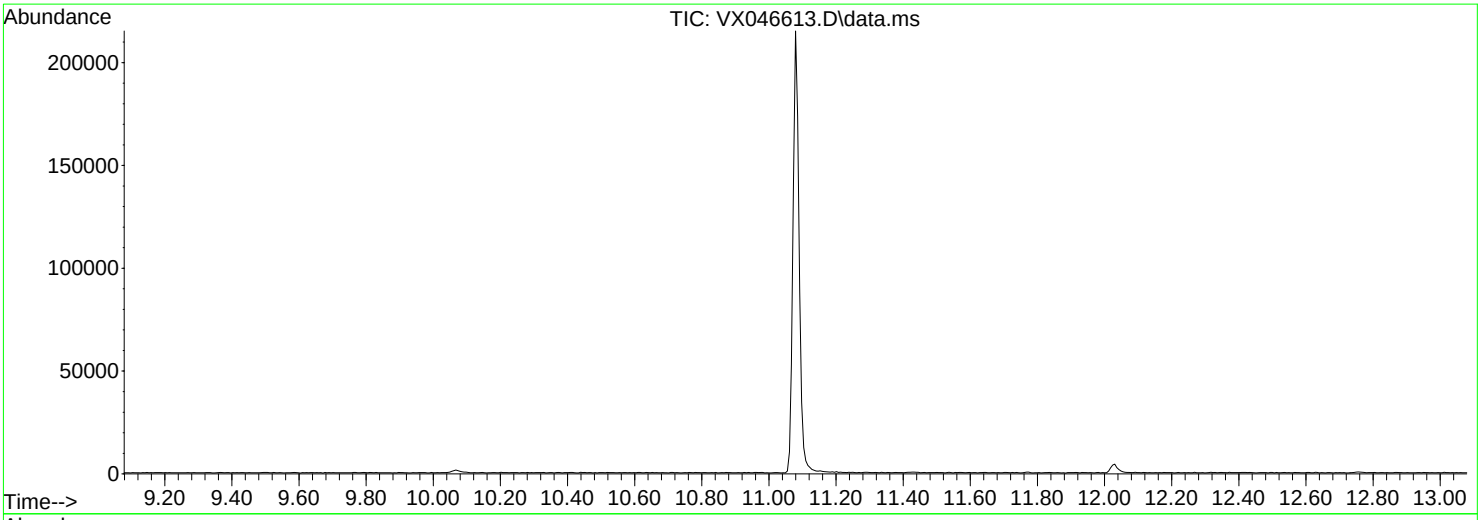
Sample Results: **VX046613.D**

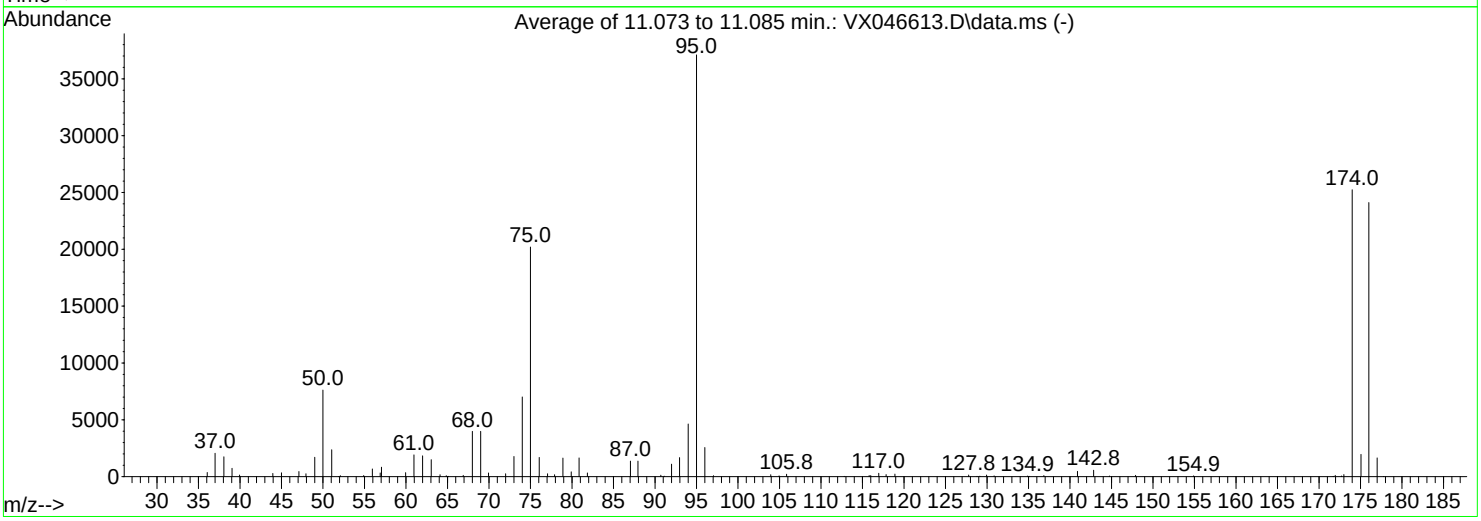
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046613.D
Acq On : 10 Jun 2025 19:57
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 32 Sample Multiplier: 1

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

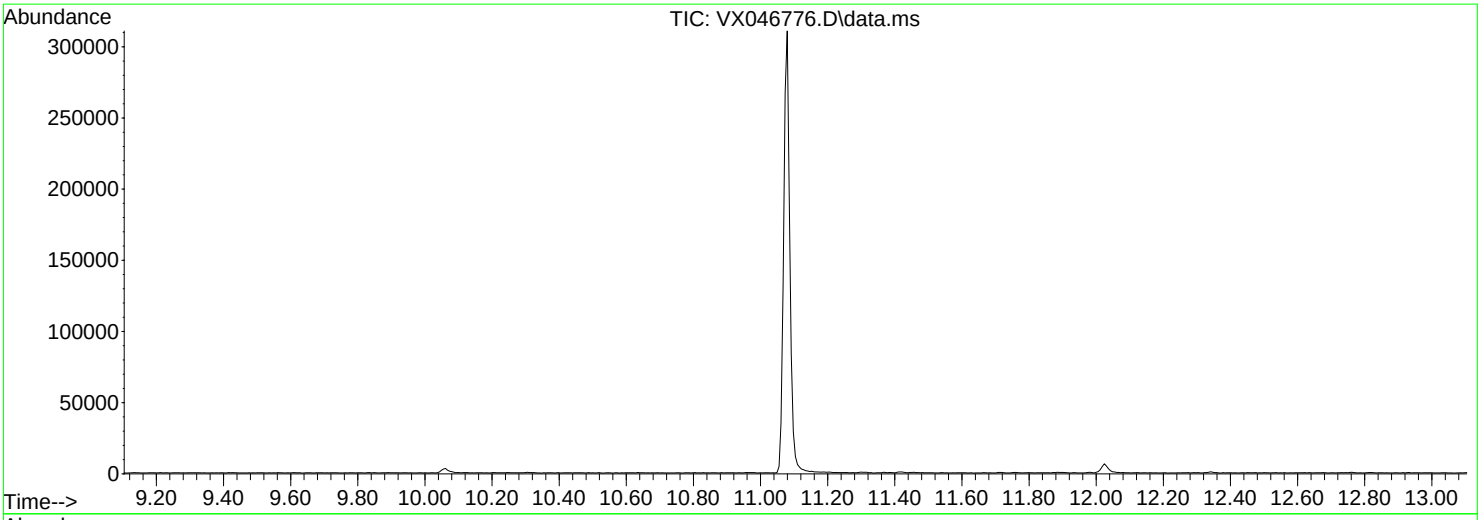
Sample Results: **VX046776.D**

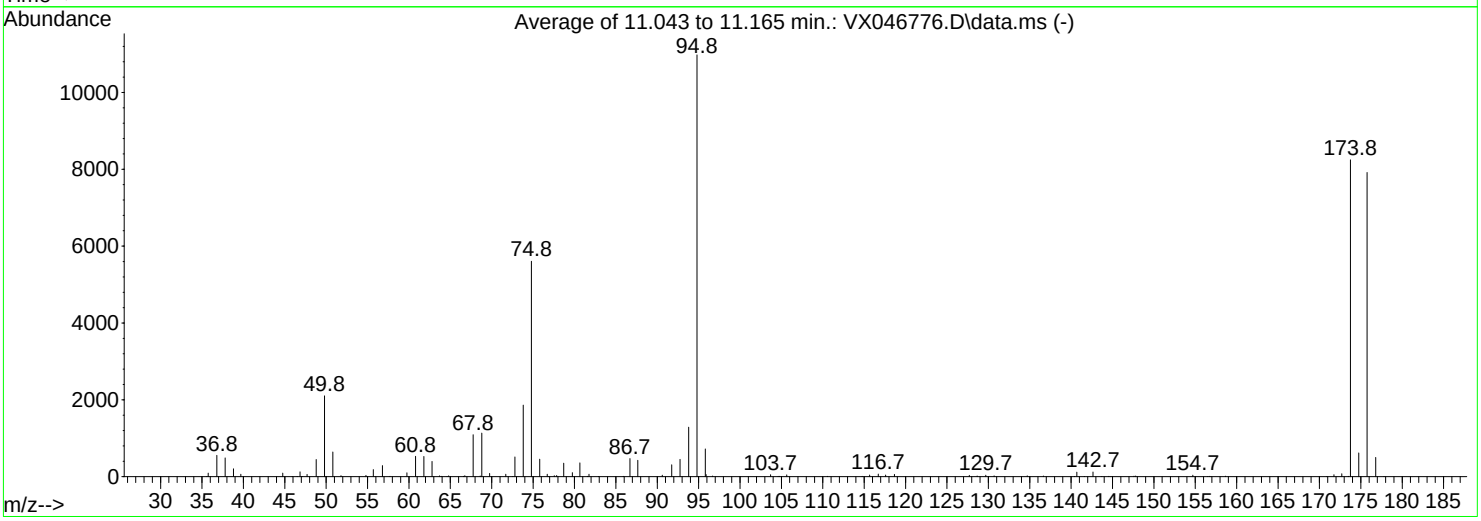
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046776.D
Acq On : 20 Jun 2025 08:08
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

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: Averaged scan 1633 to 1653; Bkg corrected with scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	2105	PASS
75	95	30	60	51.1	5607	PASS
95	95	100	100	100.0	10980	PASS
96	95	5	9	6.6	720	PASS
173	174	0.00	2	0.9	76	PASS
174	95	50	100	75.1	8245	PASS
175	174	5	9	7.5	617	PASS
176	174	95	101	96.0	7918	PASS
177	176	5	9	6.3	502	PASS

Raw Data: **VX046780.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:	VX0620WBL01	SDG No.:	Q2366
Lab Sample ID:	VX0620WBL01	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
VX046780.D	1		06/20/25 13:40	VX062025

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	31.5		91 - 110	105%	SPK: 30
2037-26-5	Toluene-d8	28.6		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	27.8		63 - 112	93%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	22700	4.903			
540-36-3	1,4-Difluorobenzene	146000	6.763			
3114-55-4	Chlorobenzene-d5	133000	10.049			

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

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

Sample Results: **VX046780.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046780.D
Acq On : 20 Jun 2025 13:40
Operator : JC/MD
Sample : VX0620WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0620WBL01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 23:14:28 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	4.903	128	22702m	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	146040	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	133167	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	57794	31.450	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.833%			
60) 4-Bromofluorobenzene	11.079	95	62355	27.780	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.600%			
63) Toluene-d8	8.647	98	170060	28.590	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 95.300%			
Target Compounds						Qvalue

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

Sample Results: **VX046780.D**

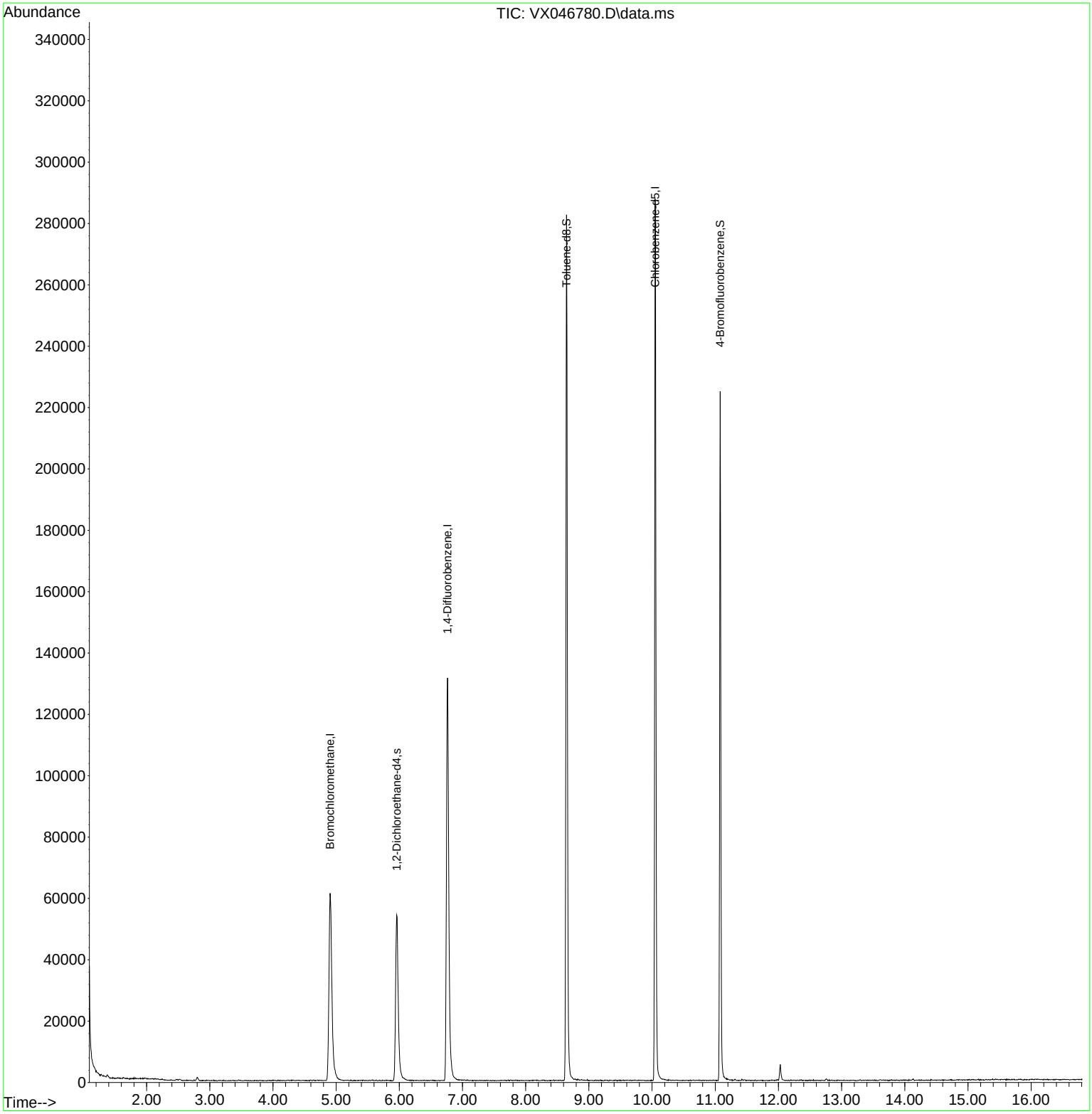
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046780.D
Acq On : 20 Jun 2025 13:40
Operator : JC/MD
Sample : VX0620WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

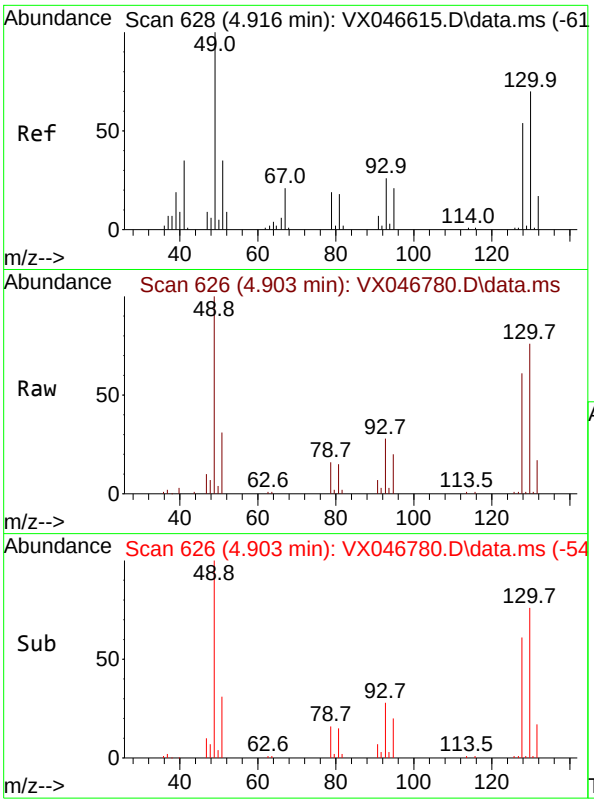
Quant Time: Jun 20 23:14:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0620WBL01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

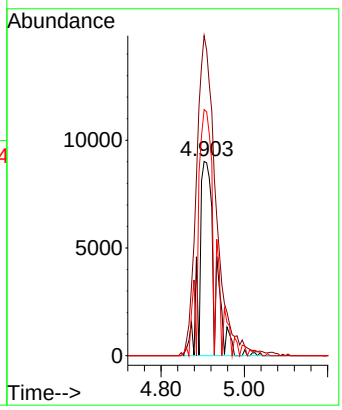




#1
Bromochloromethane
Concen: 30.000 ug/l m
RT: 4.903 min Scan# 6
Delta R.T. -0.013 min
Lab File: VX046780.D
Acq: 20 Jun 2025 13:40

Tgt Ion:128 Resp: 2270

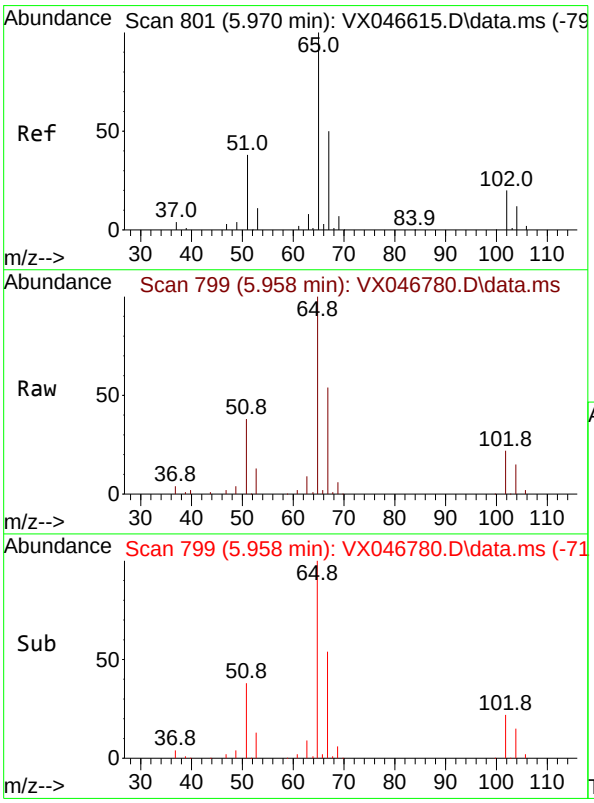
Ion	Ratio	Lower	Upper
128	100		
49	205.3	0.0	448.3
130	98.0	0.0	312.0



Instrument :
MSVOA_X
ClientSampleId :
VX0620WBL01

Manual Integrations
APPROVED

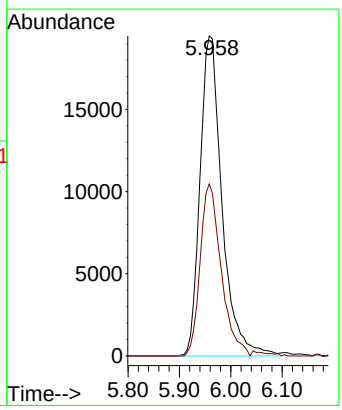
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

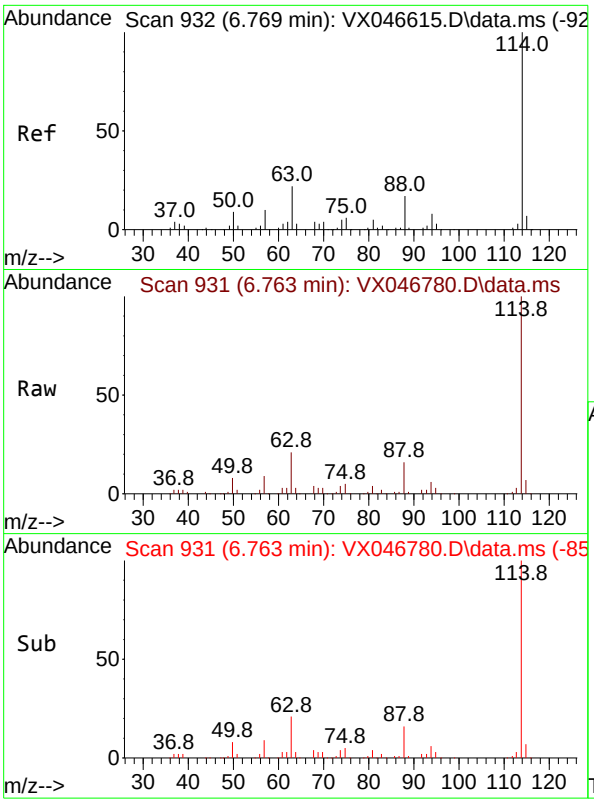


#27
1,2-Dichloroethane-d4
Concen: 31.450 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.012 min
Lab File: VX046780.D
Acq: 20 Jun 2025 13:40

Tgt Ion: 65 Resp: 57794

Ion	Ratio	Lower	Upper
65	100		
67	51.1	41.4	62.2





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX046780.D
Acq: 20 Jun 2025 13:40

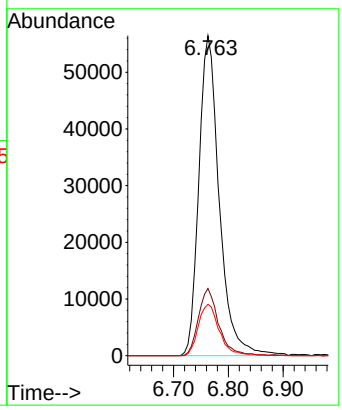
Tgt Ion:114 Resp: 14604

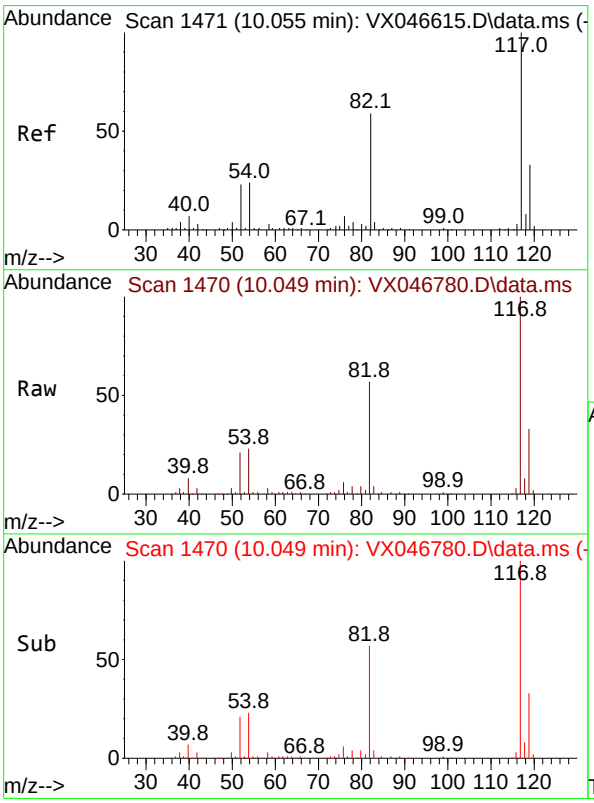
Ion	Ratio	Lower	Upper
114	100		
63	20.6	18.1	27.1
88	16.3	14.1	21.1

Instrument :
MSVOA_X
ClientSampleId :
VX0620WBL01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

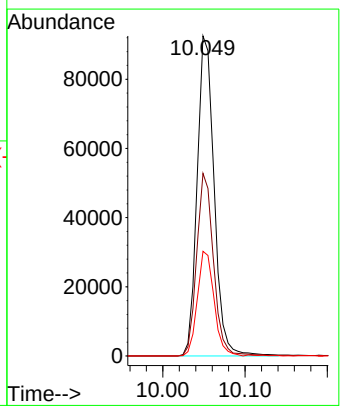


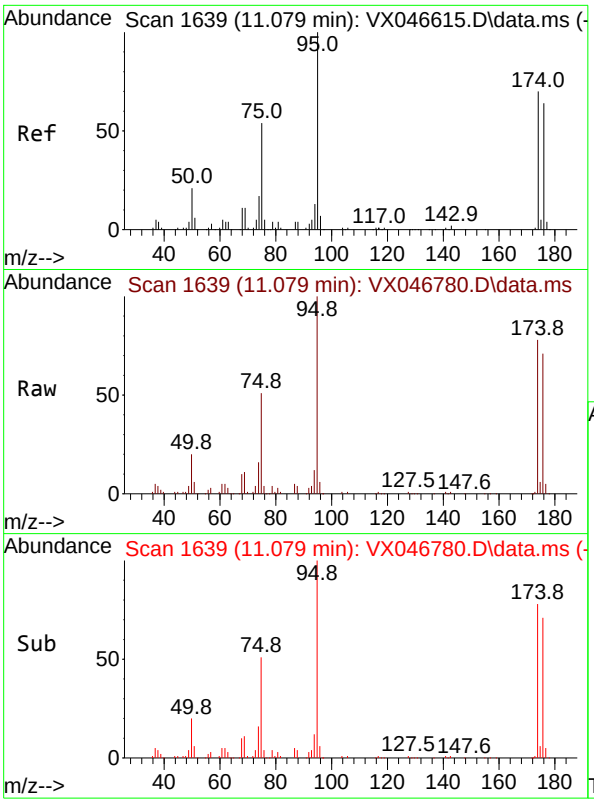


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VX046780.D
Acq: 20 Jun 2025 13:40

Tgt Ion:117 Resp: 133167

Ion	Ratio	Lower	Upper
117	100		
82	56.3	46.5	69.7
119	32.1	25.8	38.6

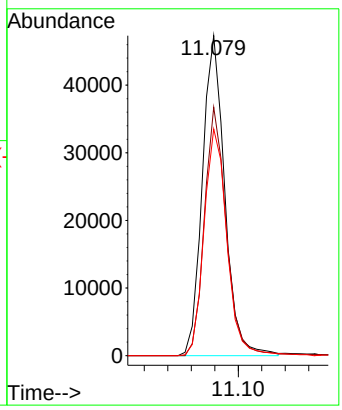




#60
4-Bromofluorobenzene
Concen: 27.780 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046780.D
Acq: 20 Jun 2025 13:40

Tgt Ion: 95 Resp: 6235

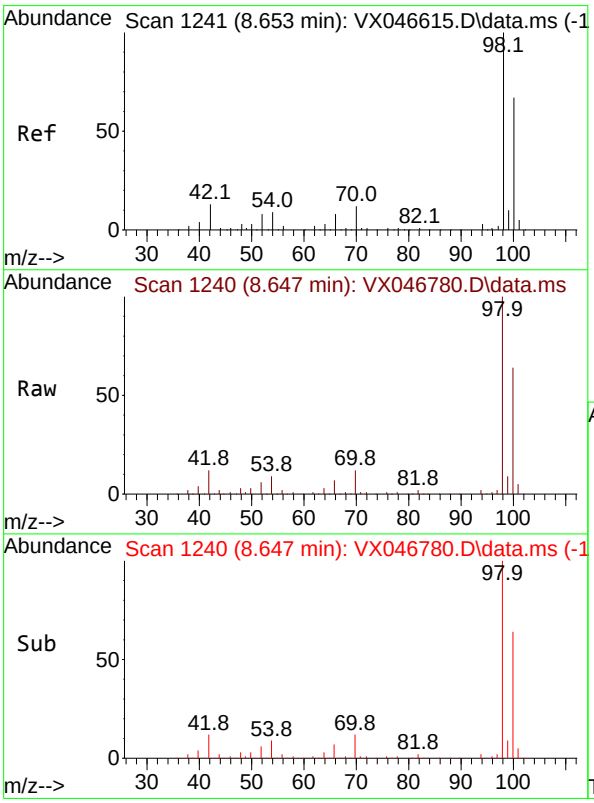
Ion	Ratio	Lower	Upper
95	100		
174	75.8	56.0	84.0
176	72.7	52.2	78.4



Instrument :
MSVOA_X
ClientSampleId :
VX0620WBL01

Manual Integrations
APPROVED

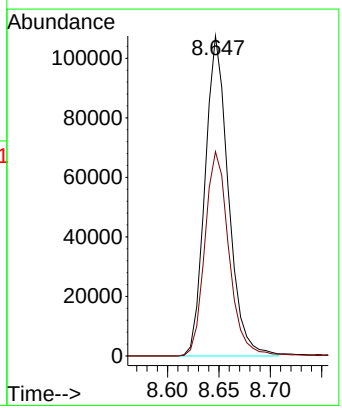
Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#63
Toluene-d8
Concen: 28.590 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX046780.D
Acq: 20 Jun 2025 13:40

Tgt Ion: 98 Resp: 170060

Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.6	79.0



Raw Data: **VX046778.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:	VX0620WBS01	SDG No.:	Q2366
Lab Sample ID:	VX0620WBS01	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
VX046778.D	1		06/20/25 11:17	VX062025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	94.2		6.60	25.0	ug/L
107-13-1	Acrylonitrile	77.9		2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	28.9		91 - 110	96%	SPK: 30
2037-26-5	Toluene-d8	29.3		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.1		63 - 112	97%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	22100	4.904			
540-36-3	1,4-Difluorobenzene	133000	6.763			
3114-55-4	Chlorobenzene-d5	122000	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\VX062025\
Data File : VX046778.D
Acq On : 20 Jun 2025 11:17
Operator : JC/MD
Sample : VX0620WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 23:12:50 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 :
VX0620WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.904	128	22072m	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	132966	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	121720	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	51597	28.879	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery = 96.267%			
60) 4-Bromofluorobenzene	11.079	95	59706	29.102	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.000%			
63) Toluene-d8	8.647	98	159297	29.299	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.667%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	26707	18.611	ug/l	95
3) Chloromethane	1.307	50	28311	19.149	ug/l	94
4) Vinyl Chloride	1.386	62	30152	21.154	ug/l	99
5) Bromomethane	1.630	94	17832	20.949	ug/l	92
6) Chloroethane	1.703	64	17949	21.919	ug/l	93
7) Trichlorofluoromethane	1.904	101	43576	21.345	ug/l	98
8) Diethyl Ether	2.142	74	14866	20.783	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.349	101	26658	19.626	ug/l	95
10) 1,1-Dichloroethene	2.331	96	26718	20.278	ug/l	95
11) Methyl Iodide	2.465	142	31740m	17.669	ug/l	
12) Methyl Acetate	2.709	43	21494	12.942	ug/l	98
13) Acrolein	2.246	56	15323	94.154	ug/l	99
14) Acrylonitrile	3.069	53	53157	77.884	ug/l	99
15) Acetone	2.386	58	12107	77.574	ug/l	71
16) Carbon Disulfide	2.526	76	73164	20.014	ug/l	99
17) Allyl chloride	2.678	41	47252	19.766	ug/l	95
18) Methylene Chloride	2.800	84	28704m	19.740	ug/l	
19) trans-1,2-Dichloroethene	3.105	96	27878	20.417	ug/l	93
20) Diisopropyl ether	3.764	45	92360	20.421	ug/l	90
21) 1,1-Dichloroethane	3.617	63	51557	19.895	ug/l	97
22) cis-1,2-Dichloroethene	4.501	96	30659	19.259	ug/l	96
23) tert-Butyl Alcohol	2.947	59	8859	64.266	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	72218	17.942	ug/l	95
25) Chloroform	5.099	83	52568	19.708	ug/l	97
26) Cyclohexane	5.477	56	48023	20.311	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	36885m	17.631	ug/l	
30) 2-Butanone	4.562	43	56308	60.405	ug/l	98
31) 2,2-Dichloropropane	4.483	77	38410	20.681	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	44768	17.319	ug/l	97
33) Carbon Tetrachloride	5.684	117	31775m	13.850	ug/l	
34) Benzene	6.044	78	110889	18.041	ug/l	94
35) Methacrylonitrile	4.922	41	14936	13.066	ug/l	94
36) 1,2-Dichloroethane	6.092	62	37351	16.062	ug/l #	91
37) Trichloroethene	7.129	130	28724	18.624	ug/l	83
38) Methylcyclohexane	7.379	83	49551	18.660	ug/l	96
39) 1,2-Dichloropropane	7.428	63	27148	17.706	ug/l	92
40) Dibromomethane	7.580	93	17873	15.593	ug/l	57
41) Bromodichloromethane	7.818	83	40231	17.228	ug/l #	97
42) Vinyl Acetate	3.727	43	334640	83.195	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046778.D
Acq On : 20 Jun 2025 11:17
Operator : JC/MD
Sample : VX0620WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 23:12:50 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 :
VX0620WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	4.721	43	28139m	14.250 ug/l	
44) Isopropyl Acetate	6.342	43	43020	13.928 ug/l	99
45) 1,4-Dioxane	7.659	88	5154	264.546 ug/l #	92
46) Methyl methacrylate	7.696	41	23031	13.657 ug/l	96
47) n-amyl Acetate	10.842	43	40730	14.743 ug/l	100
48) t-1,3-Dichloropropene	8.976	75	36574	17.471 ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	41537	17.773 ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	24893	17.232 ug/l #	82
51) Ethyl methacrylate	9.116	69	32866	14.962 ug/l	91
52) 1,3-Dichloropropane	9.305	76	43529	17.299 ug/l	97
53) Dibromochloromethane	9.519	129	27709	16.273 ug/l	57
54) 1,2-Dibromoethane	9.604	107	24674	16.238 ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	99966	87.142 ug/l	100
56) Bromoform	10.774	173	339m	0.322 ug/l	
58) 4-Methyl-2-Pentanone	8.568	43	125593	63.434 ug/l	98
59) 2-Hexanone	9.427	43	84612	60.578 ug/l	96
61) Tetrachloroethene	9.269	164	25146	19.712 ug/l	96
62) Toluene	8.714	91	122863	18.625 ug/l	99
64) Chlorobenzene	10.073	112	80204	18.851 ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	27025	18.953 ug/l	98
66) Ethyl Benzene	10.189	91	136145	18.075 ug/l	99
67) m/p-Xylenes	10.299	106	104719	37.588 ug/l	95
68) o-Xylene	10.640	106	50275	18.742 ug/l	95
69) Styrene	10.653	104	85079	18.504 ug/l	99
70) Isopropylbenzene	10.957	105	133340	18.523 ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	31745	15.012 ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	26037m	14.749 ug/l	
73) Bromobenzene	11.195	156	30978	18.359 ug/l	96
74) n-propylbenzene	11.299	91	162229	18.847 ug/l	100
75) 2-Chlorotoluene	11.360	91	94517	18.342 ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	109964	18.385 ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	9170	15.376 ug/l	83
78) 4-Chlorotoluene	11.451	91	110260	18.494 ug/l	97
79) tert-butylbenzene	11.713	119	111464	18.687 ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	110376	18.686 ug/l	99
81) sec-Butylbenzene	11.884	105	144888	18.982 ug/l	98
82) p-Isopropyltoluene	12.006	119	121430	19.383 ug/l	96
83) 1,3-Dichlorobenzene	11.963	146	60889	19.385 ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	61727	19.542 ug/l	98
85) n-Butylbenzene	12.329	91	115050	19.063 ug/l	99
86) Hexachloroethane	12.536	117	18935	17.403 ug/l	90
87) 1,2-Dichlorobenzene	12.329	146	58173	19.251 ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	5318	12.191 ug/l	84
89) 1,2,4-Trichlorobenzene	13.585	180	39384	19.769 ug/l	99
90) Hexachlorobutadiene	13.719	225	17181	19.586 ug/l	96
91) Naphthalene	13.774	128	99578	15.755 ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	37432	19.142 ug/l	97

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

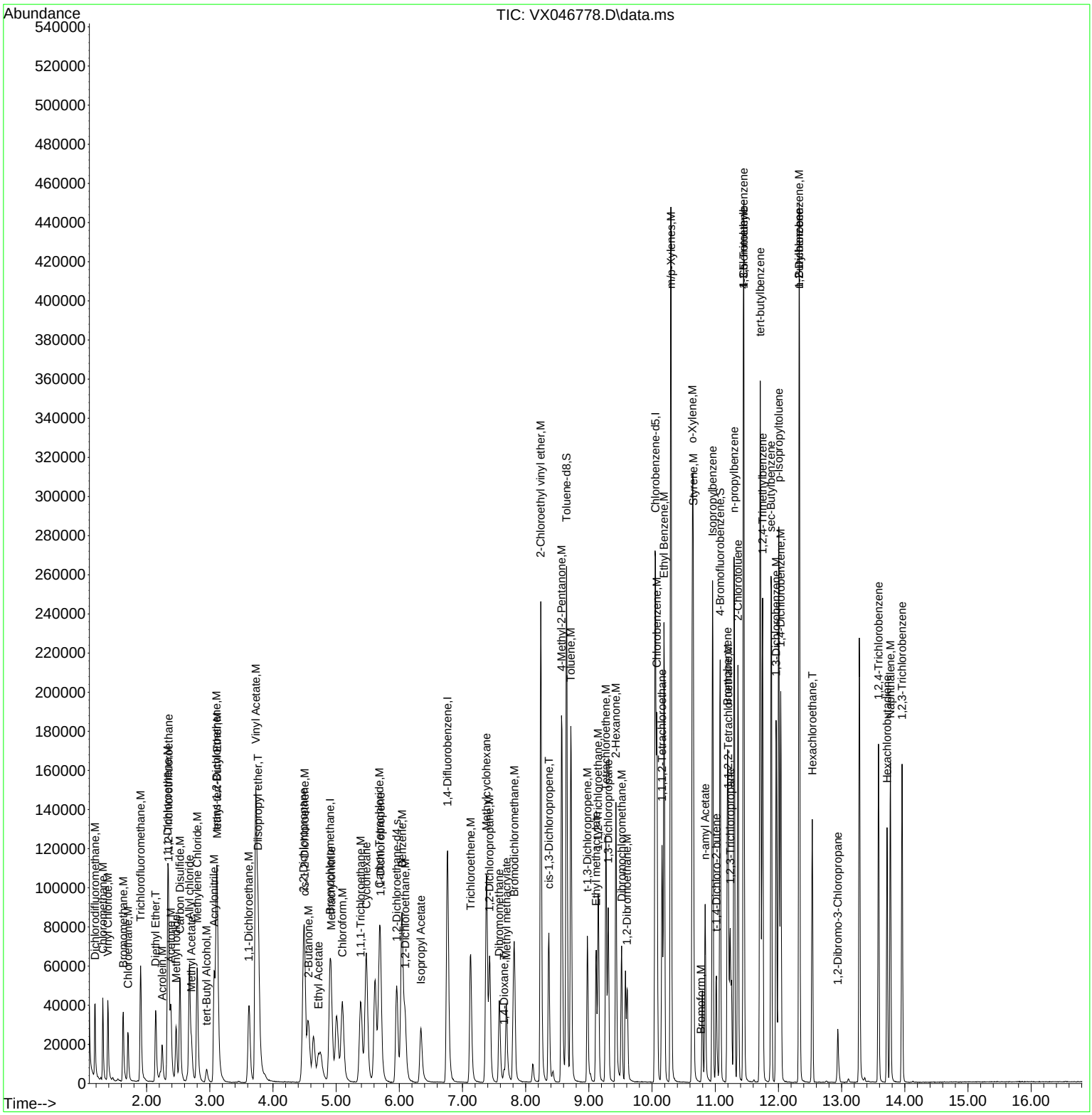
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046778.D
Acq On : 20 Jun 2025 11:17
Operator : JC/MD
Sample : VX0620WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 23:12:50 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 :
VX0620WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



Raw Data: **VX046779.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:	VX0620WBSD01	SDG No.:	Q2366
Lab Sample ID:	VX0620WBSD01	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
VX046779.D	1		06/20/25 12:13	VX062025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	100		6.60	25.0	ug/L
107-13-1	Acrylonitrile	87.1		2.80	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	32.6		91 - 110	109%	SPK: 30
2037-26-5	Toluene-d8	29.1		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.4		63 - 112	95%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	19500	4.903			
540-36-3	1,4-Difluorobenzene	133000	6.763			
3114-55-4	Chlorobenzene-d5	122000	10.049			

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\VX062025\
Data File : VX046779.D
Acq On : 20 Jun 2025 12:13
Operator : JC/MD
Sample : VX0620WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 23:13:38 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 :
VX0620WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	4.903	128	19510m	30.000	ug/l		-0.01
28) 1,4-Difluorobenzene	6.763	114	133108	30.000	ug/l		0.00
57) Chlorobenzene-d5	10.049	117	122478	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	5.964	65	51409	32.552	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.500%				
60) 4-Bromofluorobenzene	11.079	95	58675	28.422	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.733%				
63) Toluene-d8	8.647	98	159111	29.084	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.933%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.179	85	26232	20.681	ug/l		96
3) Chloromethane	1.307	50	27646	21.155	ug/l		100
4) Vinyl Chloride	1.386	62	29741	23.606	ug/l		100
5) Bromomethane	1.630	94	19581	26.024	ug/l		86
6) Chloroethane	1.703	64	18112	25.023	ug/l		100
7) Trichlorofluoromethane	1.904	101	43522	24.118	ug/l		98
8) Diethyl Ether	2.148	74	14828	23.452	ug/l		97
9) 1,1,2-Trichlorotrifluo...	2.343	101	26529	22.095	ug/l		98
10) 1,1-Dichloroethene	2.337	96	24705	21.212	ug/l		98
11) Methyl Iodide	2.465	142	31567	19.880	ug/l	#	44
12) Methyl Acetate	2.709	43	21929	14.938	ug/l		97
13) Acrolein	2.245	56	14862	103.313	ug/l		95
14) Acrylonitrile	3.068	53	52555	87.113	ug/l		99
15) Acetone	2.386	58	12190	88.362	ug/l		73
16) Carbon Disulfide	2.526	76	72540	22.449	ug/l		99
17) Allyl chloride	2.678	41	45684	21.619	ug/l		91
18) Methylene Chloride	2.800	84	28409	22.102	ug/l		98
19) trans-1,2-Dichloroethene	3.105	96	26812	22.215	ug/l		99
20) Diisopropyl ether	3.763	45	91954	23.001	ug/l		90
21) 1,1-Dichloroethane	3.617	63	50579	22.081	ug/l		97
22) cis-1,2-Dichloroethene	4.501	96	31556	22.426	ug/l		98
23) tert-Butyl Alcohol	2.946	59	8003	65.680	ug/l	#	100
24) Methyl tert-Butyl Ether	3.123	73	70887	19.924	ug/l		95
25) Chloroform	5.092	83	52519	22.275	ug/l		96
26) Cyclohexane	5.476	56	47300	22.632	ug/l	#	98
29) 1,1-Dichloropropene	5.702	75	36460	17.409	ug/l		96
30) 2-Butanone	4.562	43	56385	60.423	ug/l	#	95
31) 2,2-Dichloropropane	4.489	77	37648	20.249	ug/l	#	85
32) 1,1,1-Trichloroethane	5.385	97	43771	16.915	ug/l		95
33) Carbon Tetrachloride	5.684	117	24690m	10.751	ug/l		
34) Benzene	6.043	78	109498	17.796	ug/l	#	90
35) Methacrylonitrile	4.922	41	14814	12.946	ug/l		92
36) 1,2-Dichloroethane	6.086	62	35616	15.299	ug/l		97
37) Trichloroethene	7.129	130	27264	17.658	ug/l		97
38) Methylcyclohexane	7.379	83	48061	18.079	ug/l		97
39) 1,2-Dichloropropane	7.433	63	27995	18.239	ug/l		97
40) Dibromomethane	7.580	93	19293	16.814	ug/l		55
41) Bromodichloromethane	7.824	83	39454	16.878	ug/l	#	95
42) Vinyl Acetate	3.727	43	329457	81.819	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046779.D
Acq On : 20 Jun 2025 12:13
Operator : JC/MD
Sample : VX0620WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 23:13:38 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 :
VX0620WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	4.721	43	23772	12.026 ug/l #	89
44) Isopropyl Acetate	6.342	43	42556	13.763 ug/l	97
45) 1,4-Dioxane	7.659	88	4804	246.318 ug/l #	93
46) Methyl methacrylate	7.696	41	23268m	13.783 ug/l	
47) n-amyl Acetate	10.841	43	40903	14.790 ug/l	99
48) t-1,3-Dichloropropene	8.976	75	36060	17.207 ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	41802	17.867 ug/l	96
50) 1,1,2-Trichloroethane	9.147	97	24558	16.982 ug/l #	79
51) Ethyl methacrylate	9.116	69	33298	15.143 ug/l	90
52) 1,3-Dichloropropane	9.305	76	43628	17.320 ug/l	100
53) Dibromochloromethane	9.518	129	25052m	14.697 ug/l	
54) 1,2-Dibromoethane	9.610	107	23649	15.547 ug/l	96
55) 2-Chloroethyl vinyl ether	8.238	63	96197	83.767 ug/l	99
56) Bromoform	10.793	173	267	0.253 ug/l #	64
58) 4-Methyl-2-Pentanone	8.567	43	125712	63.101 ug/l	98
59) 2-Hexanone	9.427	43	83586	59.473 ug/l	96
61) Tetrachloroethene	9.275	164	24449	19.047 ug/l	92
62) Toluene	8.714	91	120762	18.194 ug/l	100
64) Chlorobenzene	10.079	112	77077	18.004 ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	25558	17.813 ug/l	99
66) Ethyl Benzene	10.189	91	135162	17.834 ug/l	98
67) m/p-Xylenes	10.299	106	102034	36.398 ug/l	97
68) o-Xylene	10.640	106	48907	18.120 ug/l	98
69) Styrene	10.652	104	84029	18.163 ug/l	98
70) Isopropylbenzene	10.957	105	131548	18.161 ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	32632	15.336 ug/l	94
72) 1,2,3-Trichloropropane	11.238	75	25597m	14.410 ug/l	
73) Bromobenzene	11.195	156	31196	18.373 ug/l	95
74) n-propylbenzene	11.299	91	158580	18.309 ug/l	100
75) 2-Chlorotoluene	11.360	91	93853	18.100 ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	108889	18.093 ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	9185	15.306 ug/l #	71
78) 4-Chlorotoluene	11.451	91	109179	18.199 ug/l	96
79) tert-butylbenzene	11.713	119	111609	18.595 ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	106134	17.856 ug/l	99
81) sec-Butylbenzene	11.890	105	143040	18.623 ug/l	99
82) p-Isopropyltoluene	12.006	119	119402	18.941 ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	59886	18.948 ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	60719	19.104 ug/l	97
85) n-Butylbenzene	12.329	91	113777	18.735 ug/l	99
86) Hexachloroethane	12.536	117	18208	16.631 ug/l	76
87) 1,2-Dichlorobenzene	12.335	146	57379	18.871 ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	5204	11.856 ug/l	87
89) 1,2,4-Trichlorobenzene	13.585	180	38712	19.311 ug/l	97
90) Hexachlorobutadiene	13.719	225	17077	19.347 ug/l	75
91) Naphthalene	13.774	128	99219	15.601 ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	37042	18.825 ug/l	99

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

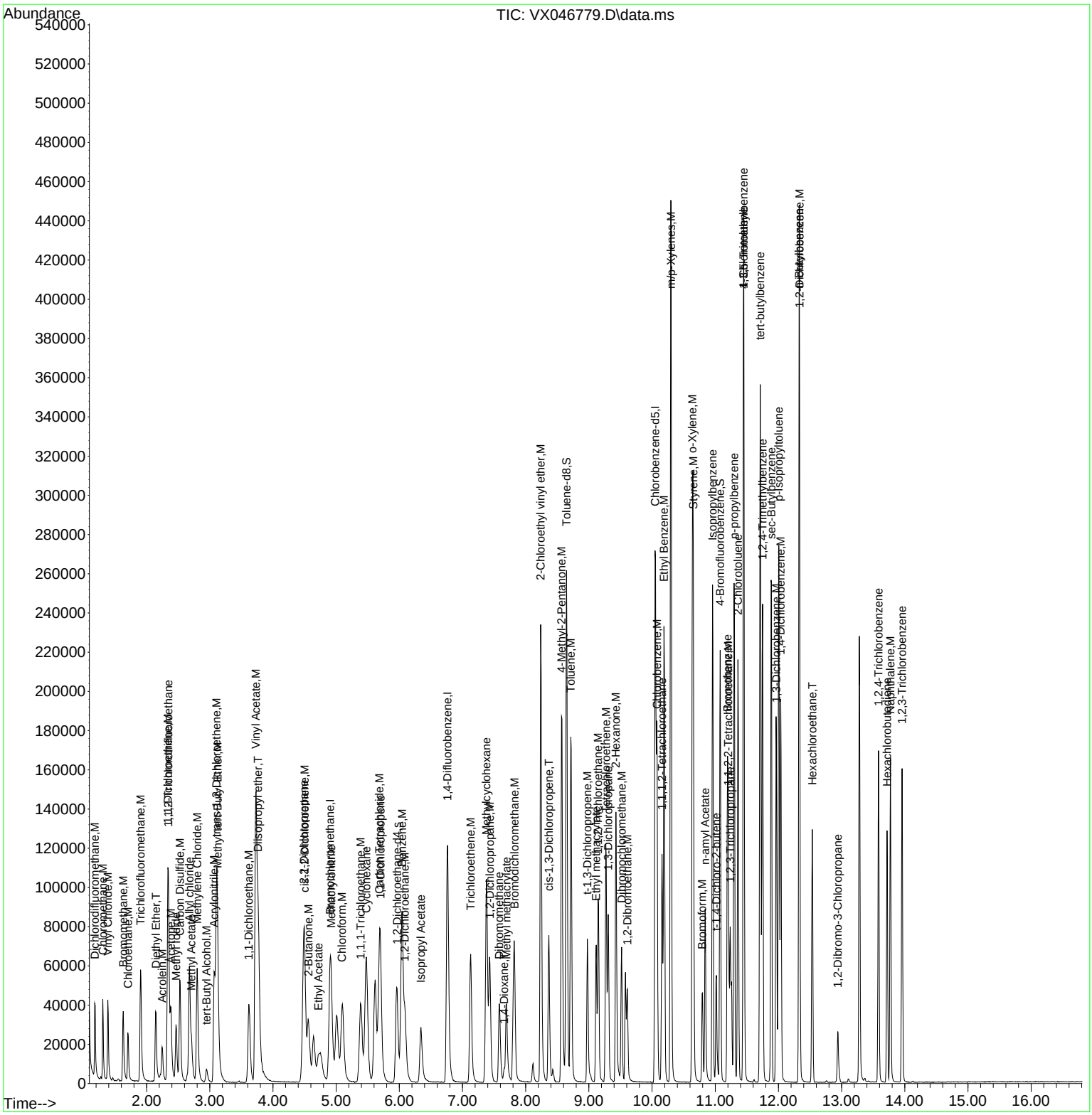
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
Data File : VX046779.D
Acq On : 20 Jun 2025 12:13
Operator : JC/MD
Sample : VX0620WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 23:13:38 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 :
VX0620WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



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:	VX062025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VX046777.D	1,2,3-Trichloropropane	JOHN	6/23/2025 8:51:05 AM	MMDadoda	6/23/2025 1:18:47 PM	Peak Integrated by Software
VSTDCCC020	VX046777.D	Bromochloromethane	JOHN	6/23/2025 8:51:05 AM	MMDadoda	6/23/2025 1:18:47 PM	Peak Integrated by Software
VSTDCCC020	VX046777.D	Bromoform	JOHN	6/23/2025 8:51:05 AM	MMDadoda	6/23/2025 1:18:47 PM	Peak Integrated by Software
VSTDCCC020	VX046777.D	Carbon Tetrachloride	JOHN	6/23/2025 8:51:05 AM	MMDadoda	6/23/2025 1:18:47 PM	Peak Integrated by Software
VSTDCCC020	VX046777.D	Dibromochloromethane	JOHN	6/23/2025 8:51:05 AM	MMDadoda	6/23/2025 1:18:47 PM	Peak Integrated by Software
VSTDCCC020	VX046777.D	Ethyl Acetate	JOHN	6/23/2025 8:51:05 AM	MMDadoda	6/23/2025 1:18:47 PM	Peak Integrated by Software
VSTDCCC020	VX046777.D	Hexachloroethane	JOHN	6/23/2025 8:51:05 AM	MMDadoda	6/23/2025 1:18:47 PM	Peak Integrated by Software
VSTDCCC020	VX046777.D	Methacrylonitrile	JOHN	6/23/2025 8:51:05 AM	MMDadoda	6/23/2025 1:18:47 PM	Peak Integrated by Software
VSTDCCC020	VX046777.D	Methyl methacrylate	JOHN	6/23/2025 8:51:05 AM	MMDadoda	6/23/2025 1:18:47 PM	Peak Integrated by Software
VX0620WBS01	VX046778.D	1,1-Dichloropropene	JOHN	6/23/2025 8:51:10 AM	MMDadoda	6/23/2025 1:18:50 PM	Peak Integrated by Software
VX0620WBS01	VX046778.D	1,2,3-Trichloropropane	JOHN	6/23/2025 8:51:10 AM	MMDadoda	6/23/2025 1:18:50 PM	Peak Integrated by Software
VX0620WBS01	VX046778.D	Bromochloromethane	JOHN	6/23/2025 8:51:10 AM	MMDadoda	6/23/2025 1:18:50 PM	Peak Integrated by Software
VX0620WBS01	VX046778.D	Bromoform	JOHN	6/23/2025 8:51:10 AM	MMDadoda	6/23/2025 1:18:50 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX062025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VX0620WBS01	VX046778.D	Carbon Tetrachloride	JOHN	6/23/2025 8:51:10 AM	MMDadoda	6/23/2025 1:18:50 PM	Peak Integrated by Software
VX0620WBS01	VX046778.D	Ethyl Acetate	JOHN	6/23/2025 8:51:10 AM	MMDadoda	6/23/2025 1:18:50 PM	Peak Integrated by Software
VX0620WBS01	VX046778.D	Methyl Iodide	JOHN	6/23/2025 8:51:10 AM	MMDadoda	6/23/2025 1:18:50 PM	Peak Integrated by Software
VX0620WBS01	VX046778.D	Methylene Chloride	JOHN	6/23/2025 8:51:10 AM	MMDadoda	6/23/2025 1:18:50 PM	Peak Integrated by Software
VX0620WBSD01	VX046779.D	1,2,3-Trichloropropane	JOHN	6/23/2025 8:51:15 AM	MMDadoda	6/23/2025 1:18:52 PM	Peak Integrated by Software
VX0620WBSD01	VX046779.D	Bromochloromethane	JOHN	6/23/2025 8:51:15 AM	MMDadoda	6/23/2025 1:18:52 PM	Peak Integrated by Software
VX0620WBSD01	VX046779.D	Carbon Tetrachloride	JOHN	6/23/2025 8:51:15 AM	MMDadoda	6/23/2025 1:18:52 PM	Peak Integrated by Software
VX0620WBSD01	VX046779.D	Dibromochloromethane	JOHN	6/23/2025 8:51:15 AM	MMDadoda	6/23/2025 1:18:52 PM	Peak Integrated by Software
VX0620WBSD01	VX046779.D	Methyl methacrylate	JOHN	6/23/2025 8:51:15 AM	MMDadoda	6/23/2025 1:18:52 PM	Peak Integrated by Software
VX0620WBL01	VX046780.D	Bromochloromethane	JOHN	6/23/2025 8:51:20 AM	MMDadoda	6/23/2025 1:18:54 PM	Peak Integrated by Software
Q2366-02	VX046781.D	Bromochloromethane	JOHN	6/23/2025 8:51:25 AM	MMDadoda	6/23/2025 1:18:56 PM	Peak Integrated by Software
Q2366-01	VX046782.D	1,2-Dichlorobenzene	JOHN	6/23/2025 8:51:29 AM	MMDadoda	6/23/2025 1:18:59 PM	Peak Integrated by Software
Q2366-01	VX046782.D	1,4-Dioxane	JOHN	6/23/2025 8:51:29 AM	MMDadoda	6/23/2025 1:18:59 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX062025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2366-01	VX046782.D	Bromochloromethane	JOHN	6/23/2025 8:51:29 AM	MMDadoda	6/23/2025 1:18:59 PM	Peak Integrated by Software
VSTDCCC050	VX046784.D	1,2,3-Trichloropropane	JOHN	6/23/2025 8:51:37 AM	MMDadoda	6/23/2025 1:19:00 PM	Peak Integrated by Software
VSTDCCC050	VX046802.D	1,2,3-Trichloropropane	JOHN	6/23/2025 8:52:43 AM	MMDadoda	6/23/2025 1:19:06 PM	Peak Integrated by Software
VSTDCCC050	VX046802.D	2-Butanone	JOHN	6/23/2025 8:52:43 AM	MMDadoda	6/23/2025 1:19:06 PM	Peak Integrated by Software

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 # 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

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 # 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

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 # VX062025

Review By	John Carlone	Review On	6/23/2025 8:55:17 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/23/2025 1:19:24 PM		
SubDirectory	VX062025	HP Acquire Method		HP Processing Method	624X061025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134445,VP134451
Initial Calibration Stds	
CCC	VP134446,VP134447,VP134452,VP134453
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046776.D	20 Jun 2025 08:08	JC/MD	Ok
2	VSTDCCC020	VX046777.D	20 Jun 2025 09:16	JC/MD	Ok,M
3	VX0620WBS01	VX046778.D	20 Jun 2025 11:17	JC/MD	Ok,M
4	VX0620WBSD01	VX046779.D	20 Jun 2025 12:13	JC/MD	Ok,M
5	VX0620WBL01	VX046780.D	20 Jun 2025 13:40	JC/MD	Ok,M
6	Q2366-02	VX046781.D	20 Jun 2025 14:10	JC/MD	Ok,M
7	Q2366-01	VX046782.D	20 Jun 2025 14:31	JC/MD	Ok,M
8	BFB	VX046783.D	20 Jun 2025 14:51	JC/MD	Ok
9	VSTDCCC050	VX046784.D	20 Jun 2025 15:49	JC/MD	Ok,M
10	VX0620MBL01	VX046785.D	20 Jun 2025 16:17	JC/MD	Ok
11	VX0620WBL02	VX046786.D	20 Jun 2025 16:37	JC/MD	Ok
12	Q2258-01	VX046787.D	20 Jun 2025 16:58	JC/MD	Ok
13	Q2258-02	VX046788.D	20 Jun 2025 17:19	JC/MD	Ok
14	Q2258-03	VX046789.D	20 Jun 2025 17:40	JC/MD	Ok
15	Q2258-04	VX046790.D	20 Jun 2025 18:00	JC/MD	Ok
16	VX0620WBS02	VX046791.D	20 Jun 2025 18:21	JC/MD	Ok,M
17	VX0620WBSD02	VX046792.D	20 Jun 2025 18:42	JC/MD	Ok,M
18	Q2318-01	VX046793.D	20 Jun 2025 19:02	JC/MD	Ok
19	Q2318-02	VX046794.D	20 Jun 2025 19:23	JC/MD	Ok
20	Q2318-03	VX046795.D	20 Jun 2025 19:44	JC/MD	Ok
21	Q2318-04	VX046796.D	20 Jun 2025 20:04	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX062025

Review By	John Carlone	Review On	6/23/2025 8:55:17 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/23/2025 1:19:24 PM		
SubDirectory	VX062025	HP Acquire Method		HP Processing Method	624X061025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134445,VP134451
Initial Calibration Stds	
CCC	VP134446,VP134447,VP134452,VP134453
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2378-01	VX046797.D	20 Jun 2025 20:25	JC/MD	Ok
23	Q2378-02	VX046798.D	20 Jun 2025 20:46	JC/MD	Ok
24	Q2378-03	VX046799.D	20 Jun 2025 21:07	JC/MD	Ok
25	Q2378-04	VX046800.D	20 Jun 2025 21:27	JC/MD	Ok
26	Q2385-01	VX046801.D	20 Jun 2025 21:48	JC/MD	Ok
27	VSTDCCC050	VX046802.D	20 Jun 2025 22:08	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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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

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX062025

Review By	John Carlone	Review On	6/23/2025 8:55:17 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/23/2025 1:19:24 PM		
SubDirectory	VX062025	HP Acquire Method		HP Processing Method	624X061025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134445,VP134451
Initial Calibration Stds	
CCC	VP134446,VP134447,VP134452,VP134453
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	VX046776.D	20 Jun 2025 08:08		JC/MD	Ok
2	VSTDCCC020	VSTDCCC020	VX046777.D	20 Jun 2025 09:16	pH#Lot#V12668	JC/MD	Ok,M
3	VX0620WBS01	VX0620WBS01	VX046778.D	20 Jun 2025 11:17		JC/MD	Ok,M
4	VX0620WBSD01	VX0620WBSD01	VX046779.D	20 Jun 2025 12:13		JC/MD	Ok,M
5	VX0620WBL01	VX0620WBL01	VX046780.D	20 Jun 2025 13:40		JC/MD	Ok,M
6	Q2366-02	250618063-05-Trip blar	VX046781.D	20 Jun 2025 14:10	vial A pH#6.0	JC/MD	Ok,M
7	Q2366-01	250528063-02-VOA	VX046782.D	20 Jun 2025 14:31	vial A pH#6.0	JC/MD	Ok,M
8	BFB	BFB	VX046783.D	20 Jun 2025 14:51		JC/MD	Ok
9	VSTDCCC050	VSTDCCC050	VX046784.D	20 Jun 2025 15:49		JC/MD	Ok,M
10	VX0620MBL01	VX0620MBL01	VX046785.D	20 Jun 2025 16:17		JC/MD	Ok
11	VX0620WBL02	VX0620WBL02	VX046786.D	20 Jun 2025 16:37		JC/MD	Ok
12	Q2258-01	STORAGE-BLANK-SO	VX046787.D	20 Jun 2025 16:58	vial A pH<2	JC/MD	Ok
13	Q2258-02	STORAGE-BLANK-WA	VX046788.D	20 Jun 2025 17:19	vial A pH<2	JC/MD	Ok
14	Q2258-03	STORAGE-BLANK-WA	VX046789.D	20 Jun 2025 17:40	vial A pH<2	JC/MD	Ok
15	Q2258-04	STORAGE-BLANK-SAI	VX046790.D	20 Jun 2025 18:00	vial A pH<2	JC/MD	Ok
16	VX0620WBS02	VX0620WBS02	VX046791.D	20 Jun 2025 18:21		JC/MD	Ok,M
17	VX0620WBSD02	VX0620WBSD02	VX046792.D	20 Jun 2025 18:42		JC/MD	Ok,M
18	Q2318-01	STORAGE-BLANK-SO	VX046793.D	20 Jun 2025 19:02	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX062025

Review By	John Carlone	Review On	6/23/2025 8:55:17 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/23/2025 1:19:24 PM		
SubDirectory	VX062025	HP Acquire Method		HP Processing Method	624X061025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134445,VP134451
Initial Calibration Stds	
CCC	VP134446,VP134447,VP134452,VP134453
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2318-02	STORAGE-BLANK-WA	VX046794.D	20 Jun 2025 19:23	vial A pH<2	JC/MD	Ok
20	Q2318-03	STORAGE-BLANK-WA	VX046795.D	20 Jun 2025 19:44	vial A pH<2	JC/MD	Ok
21	Q2318-04	STORAGE-BLANK-SA	VX046796.D	20 Jun 2025 20:04	vial A pH<2	JC/MD	Ok
22	Q2378-01	STORAGE-BLANK-SO	VX046797.D	20 Jun 2025 20:25	vial A pH<2	JC/MD	Ok
23	Q2378-02	STORAGE-BLANK-WA	VX046798.D	20 Jun 2025 20:46	vial A pH<2	JC/MD	Ok
24	Q2378-03	STORAGE-BLANK-WA	VX046799.D	20 Jun 2025 21:07	vial A pH<2	JC/MD	Ok
25	Q2378-04	STORAGE-BLANK-SA	VX046800.D	20 Jun 2025 21:27	vial A pH<2	JC/MD	Ok
26	Q2385-01	A5311	VX046801.D	20 Jun 2025 21:48	vial A pH<2	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX046802.D	20 Jun 2025 22:08		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

Q23666

FOR 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

IMPORTANT: PRINTED NAMES & SIGNATURES ARE REQUIRED

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

CLIENT INFORMATION (REPORT TO BE SENT TO)

Name: Garden State Laboratories, Inc. Contact/Authorized by: Robert Szot

Mailing Address: 410 Hillside Ave. Phone: 908-688-8900 EXT 129

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

SAMPLE INFORMATION

SAMPLE TYPE: WASTE WATER @ 6/18/25

SAMPLE LOCATION: ~~AGUA SW LANDFILL LEACHATE TANKS~~ Pinelands Park 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		250528063-C2 VOA	6/18/25	8:57	X		EPA 8260 ~~TCL LIST~~ + Acrolien & Acrylonitrile @ 6/18/25 (1)	3	vials	40mL	A
		250618067-C5 Trip blank					EPA 8260 ~~TCL LIST~~ + Acrolien & Acrylonitrile @ 6/18/25 (1)	2	↓	↓	A

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

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

X SUBCONTRACTED WORK

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

REPORT FORMAT: ☒ Standard Report ☐ Other/Specify:

☐ Standard Report + E2 PWS ID#:

SEND TO: Chem Tech

DATE/TIME:

METHOD OF SHIPMENT: Deliver

PAYMENT INFORMATION

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

Payment Method: ☐ Credit Card Type: ☐ Check # ☐ Other: See Quote @ 6/18/25 ATL16

Note: (1) Please only run acrolien/acrylonitrile

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

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):	Stephen Mershon	Signature:	Date/Time: 6/18/25 15:13
2. Received/Relinquished by (PRINT):	MATT JACKSON	Signature:	Date/Time: 6/19/25 8:17

Rena 6/19/25 8:17 2.7°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 : Q2366 GARD04
Client Name : Garden State Laboratories, I
Client Contact : Sharon Ercoliani
Invoice Name : Garden State Laboratories, I
Invoice Contact : Sharon Ercoliani

Order Date : 6/19/2025 10:59:00 AM
Project Name : Waste Water 2025
Receive DateTime : 6/19/2025 8:17:00 AM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 1
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff : 6/19/2025 11:39:07 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2366-01	250528063-02	Water	06/18/2025	08:57	VOCMS Group1		8260-LOW ~~624.1~~		10 Bus. Days
Q2366-02	250528063-05-TRIP-BLANK	Water	06/18/2025	08:57	VOCMS Group1		8260-LOW ~~624.1~~		10 Bus. Days

Relinguished By :
Date / Time : 6/19/25 1325

Received By :
Date / Time : 06/19/25 13:25 Ng #5

Storage Area : VOA Refridgerator Room