

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	P4646	OrderDate:	10/31/2024 10:57:00 AM
Client:	Garden State Laboratories, Inc.	Project:	Waste Water 2024
Contact:	Sharon Ercoliani	Location:	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4646-01	241030069-01-VOA	Water	VOCMS Group1	624.1	10/30/24		10/31/24	10/31/24
P4646-02	241030043-05-TRIP-BLANK	Water	VOCMS Group1	624.1	10/30/24		10/31/24	10/31/24



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

Hit Summary Sheet
SW-846

SDG No.: P4646

Client: Garden State Laboratories, Inc.

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

0

Total Voc :

Total Concentration:



QC SUMMARY

Surrogate Summary

SDG No.: **P4646**

Client: **Garden State Laboratories, Inc.**

Analytical Method: **SW624.1**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4646-01	241030069-01-VOA	1,2-Dichloroethane-d4	30	29.3	98	91	110
		Toluene-d8	30	27.9	93	91	112
		4-Bromofluorobenzene	30	27.8	93	63	112
P4646-02	241030043-05-TRIP-BLANK	1,2-Dichloroethane-d4	30	29.7	99	91	110
		Toluene-d8	30	28.0	93	91	112
		4-Bromofluorobenzene	30	25.1	84	63	112
VN1031WBL01	VN1031WBL01	1,2-Dichloroethane-d4	30	29.3	98	91	110
		Toluene-d8	30	28.4	95	91	112
		4-Bromofluorobenzene	30	25.0	83	63	112
VN1031WBS01	VN1031WBS01	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	29.0	97	91	112
		4-Bromofluorobenzene	30	29.6	99	63	112
VN1031WBSD0	VN1031WBSD01	1,2-Dichloroethane-d4	30	30.2	101	91	110
		Toluene-d8	30	29.4	98	91	112
		4-Bromofluorobenzene	30	29.2	97	63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Analytical Method: SW624.1

Datafile : VN084620.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN1031WBS01	Acrolein	100	100	ug/L	100			60	140	
	Acrylonitrile	100	100	ug/L	100			60	140	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Analytical Method: SW624.1

Datafile : VN084621.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN1031WBSD01	Acrolein	100	100	ug/L	100	0		60	140	20
	Acrylonitrile	100	100	ug/L	100	0		60	140	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1031WBL01

Lab Name: CHEMTECH

Contract: GARD04

Lab Code: CHEM Case No.: P4646

SAS No.: P4646 SDG NO.: P4646

Lab File ID: VN084622.D

Lab Sample ID: VN1031WBL01

Date Analyzed: 10/31/2024

Time Analyzed: 16:37

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1031WBS01	VN1031WBS01	VN084620.D	10/31/2024
VN1031WBSD01	VN1031WBSD01	VN084621.D	10/31/2024
241030043-05-TRIP-BLANK	P4646-02	VN084623.D	10/31/2024
241030069-01-VOA	P4646-01	VN084624.D	10/31/2024

COMMENTS: _____



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04
Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG NO.: P4646
Lab File ID: VN084612.D BFB Injection Date: 10/31/2024
Instrument ID: MSVOA_N BFB Injection Time: 10:56
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	73.9
175	5.0 - 9.0% of mass 174	5.6 (7.5) 1
176	95.0 - 101.0% of mass 174	72.1 (97.5) 1
177	5.0 - 9.0% of mass 176	4.7 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VN084613.D	10/31/2024	12:08
VSTDIC020	VSTDIC020	VN084614.D	10/31/2024	12:32
VSTDIC050	VSTDIC050	VN084615.D	10/31/2024	12:56
VSTDIC100	VSTDIC100	VN084616.D	10/31/2024	13:20
VSTDIC150	VSTDIC150	VN084617.D	10/31/2024	13:44
VN1031WBS01	VN1031WBS01	VN084620.D	10/31/2024	15:25
VN1031WBSD01	VN1031WBSD01	VN084621.D	10/31/2024	15:49
VN1031WBL01	VN1031WBL01	VN084622.D	10/31/2024	16:37
241030043-05-TRIP-BLANK	P4646-02	VN084623.D	10/31/2024	17:01
241030069-01-VOA	P4646-01	VN084624.D	10/31/2024	17:25

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04
 Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG NO.: P4646
 Lab File ID: VN084614.D Date Analyzed: 10/31/2024
 Instrument ID: MSVOA_N Time Analyzed: 12:32
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	31274	7.81	172181	9.10	154107	11.87
UPPER LIMIT	62548	8.306	344362	9.6	308214	12.365
LOWER LIMIT	15637	7.306	86090.5	8.6	77053.5	11.365
EPA SAMPLE NO.						
241030069-01-VOA	30788	7.81	160595	9.10	150355	11.87
241030043-05-TRIP-BLANK	30549	7.81	160545	9.10	142191	11.87
VN1031WBL01	32185	7.81	168153	9.10	145344	11.87
VN1031WBS01	33399	7.81	190761	9.10	176885	11.87
VN1031WBSD01	32646	7.81	182685	9.10	167999	11.87

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04
 Lab Code: CHEM Case No.: P4646 SAS No.: P4646 SDG NO.: P4646
 Lab File ID: VN084614.D Date Analyzed: 10/31/2024
 Instrument ID: MSVOA_N Time Analyzed: 12:32
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
241030069-01-VOA	0	0.00				
241030043-05-TRIP-BLANK	0	0.00				
VN1031WBL01	0	0.00				
VN1031WBS01	0	0.00				
VN1031WBSD01	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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030069-01-VOA	SDG No.:	P4646
Lab Sample ID:	P4646-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOCMS Group1

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084624.D	1		10/31/24 17:25	VN103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.3		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	27.9		91 - 112	93%	SPK: 30
460-00-4	4-Bromofluorobenzene	27.8		63 - 112	93%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	30800	7.812			
540-36-3	1,4-Difluorobenzene	161000	9.1			
3114-55-4	Chlorobenzene-d5	150000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084624.D
 Acq On : 31 Oct 2024 17:25
 Operator : JC\MD
 Sample : P4646-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 241030069-01-VOA

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:49:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30788	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	160595	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	150355	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72579	29.323	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.733%		
60) 4-Bromofluorobenzene	12.847	95	72009	27.815	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.700%		
63) Toluene-d8	10.565	98	198530	27.892	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	92.967%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.959	74	2669m	2.301	ug/l	
12) Methyl Acetate	5.030	43	7615m	2.723	ug/l	
15) Acetone	4.430	58	67225	285.951	ug/l	92
16) Carbon Disulfide	4.689	76	3437	0.651	ug/l #	78
23) tert-Butyl Alcohol	5.553	59	1301139	4073.413	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	16202m	2.792	ug/l	
30) 2-Butanone	7.483	43	264366	236.931	ug/l	94
34) Benzene	8.600	78	33478	4.187	ug/l #	84
45) 1,4-Dioxane	9.700	88	3026	95.472	ug/l #	84
58) 4-Methyl-2-Pentanone	10.447	43	8956	3.776	ug/l #	77
62) Toluene	10.624	91	19845	2.317	ug/l	97
64) Chlorobenzene	11.888	112	7252	1.403	ug/l	89
66) Ethyl Benzene	11.965	91	57034	6.337	ug/l	94
67) m/p-Xylenes	12.071	106	28691	8.327	ug/l	99
68) o-Xylene	12.394	106	17412	5.239	ug/l	98
70) Isopropylbenzene	12.694	105	8063	0.977	ug/l	97
74) n-propylbenzene	13.035	91	5033	0.521	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	5106	0.724	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	20270	2.848	ug/l	97
82) p-Isopropyltoluene	13.723	119	6988	1.035	ug/l	94
84) 1,4-Dichlorobenzene	13.806	146	13402	3.444	ug/l	95
85) n-Butylbenzene	14.053	91	1456	0.257	ug/l	95
87) 1,2-Dichlorobenzene	14.106	146	1621	0.418	ug/l	92
91) Naphthalene	15.641	128	205176	33.999	ug/l	99

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

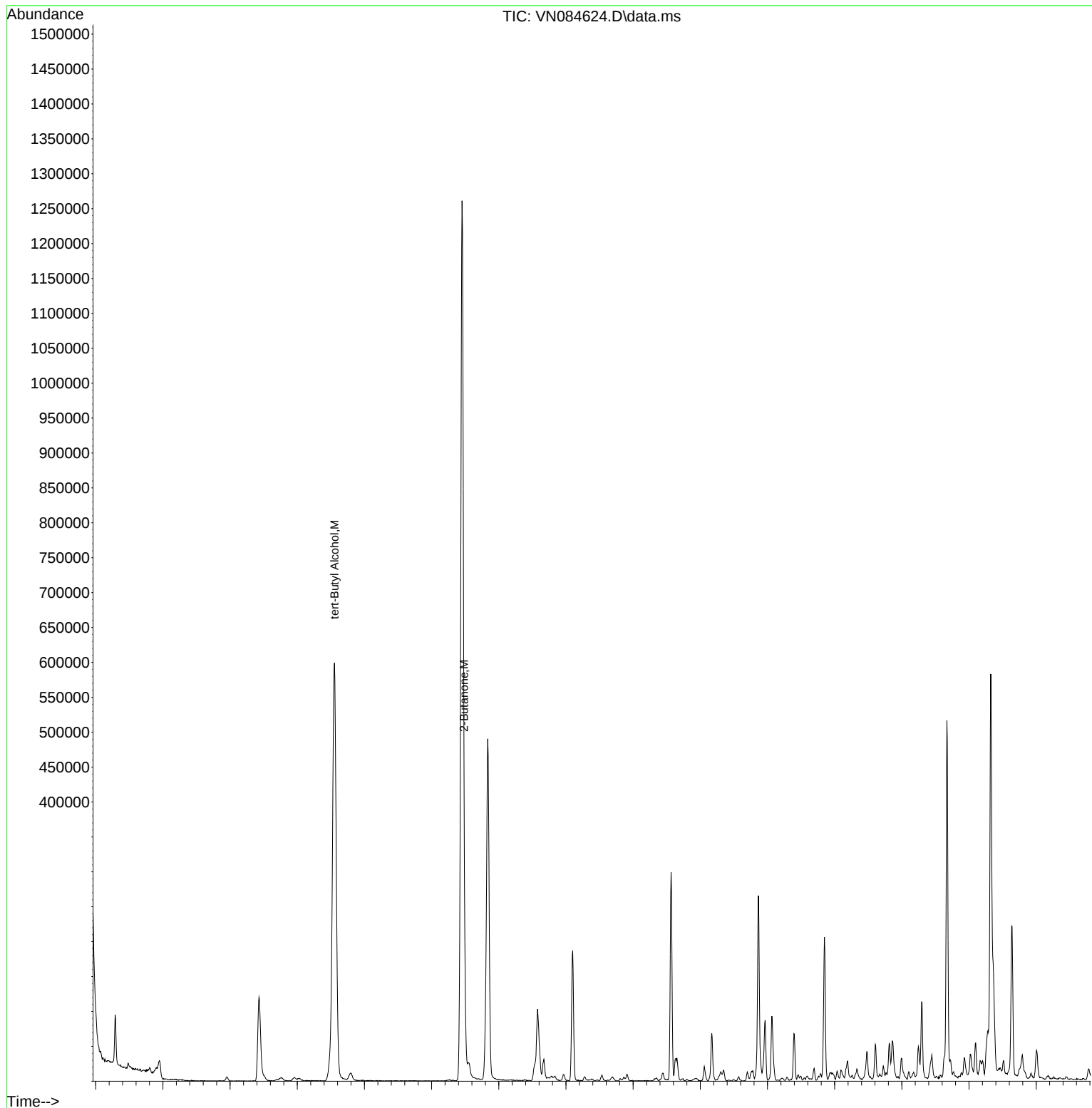
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Data File : VN084624.D
Acq On : 31 Oct 2024 17:25
Operator : JC\MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

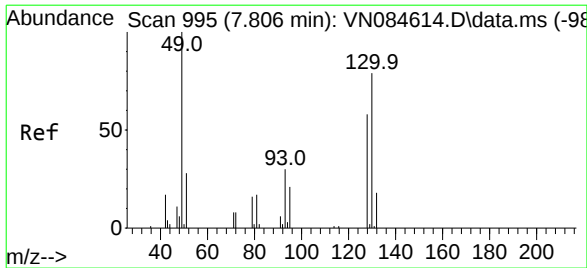
Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

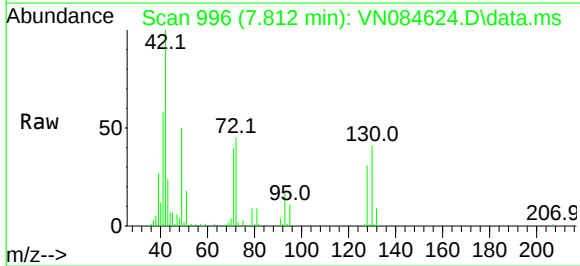
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 995
Delta R.T. 0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

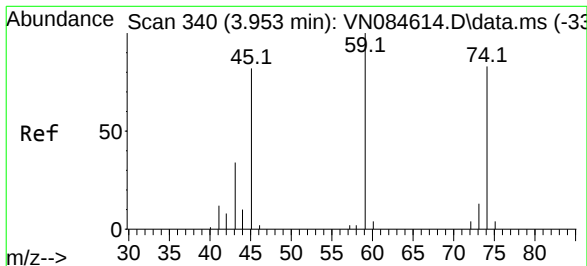
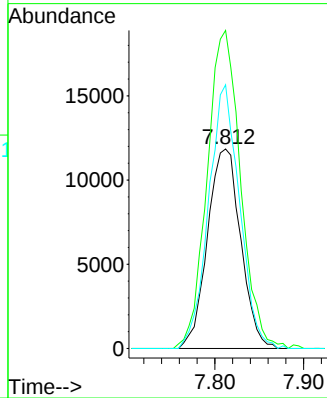
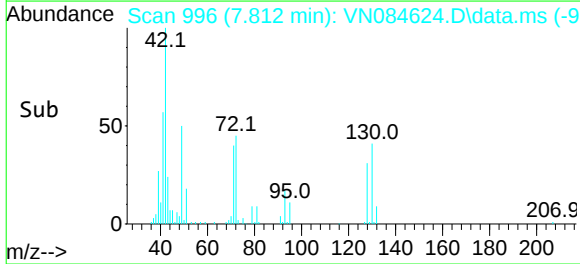
Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA



Tgt Ion: 128 Resp: 30788
Ion Ratio Lower Upper
128 100
49 160.2 0.0 427.0
130 123.2 0.0 322.2

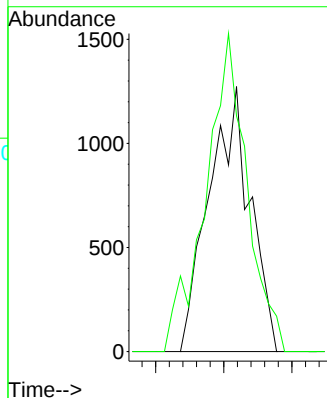
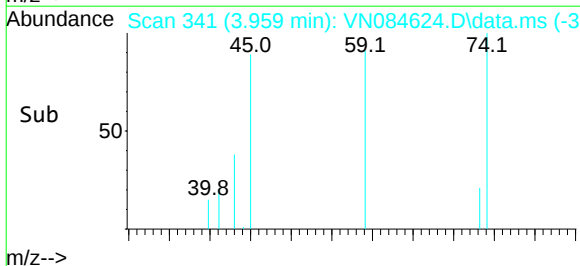
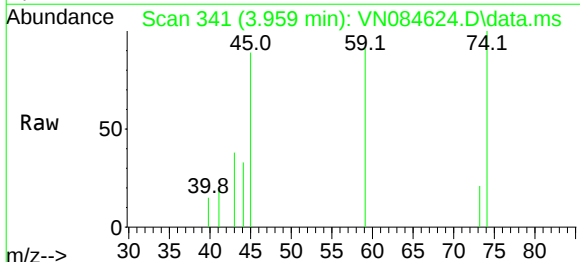
Manual Integrations
APPROVED

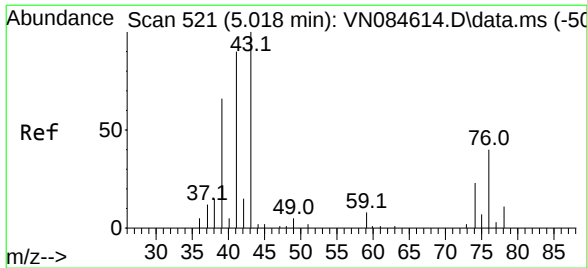
Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024



#8
Diethyl Ether
Concen: 2.301 ug/l m
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

Tgt Ion: 74 Resp: 2669
Ion Ratio Lower Upper
74 100
45 0.0 19.8 178.4#





#12

Methyl Acetate

Concen: 2.723 ug/l m

RT: 5.030 min Scan# 521

Delta R.T. 0.012 min

Lab File: VN084624.D

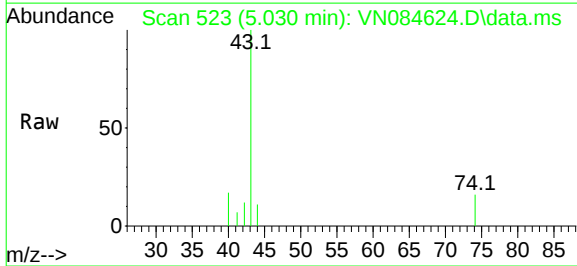
Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA



Tgt Ion: 43 Resp: 7615

Ion Ratio Lower Upper

43 100

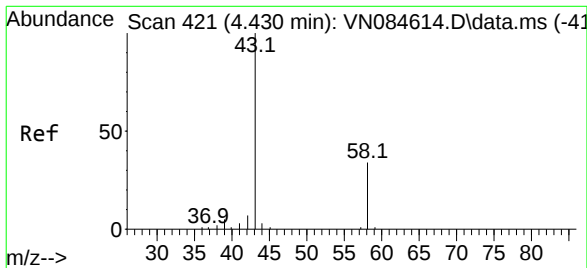
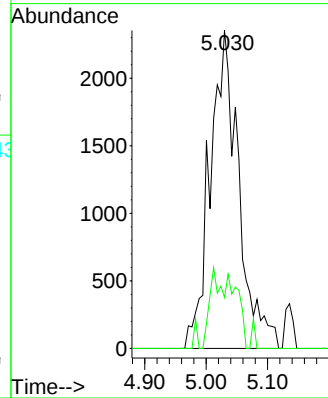
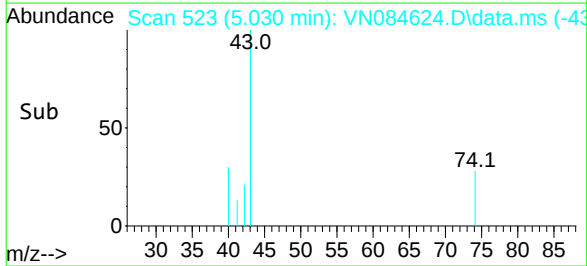
74 16.0 19.0 28.4#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#15

Acetone

Concen: 285.951 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.000 min

Lab File: VN084624.D

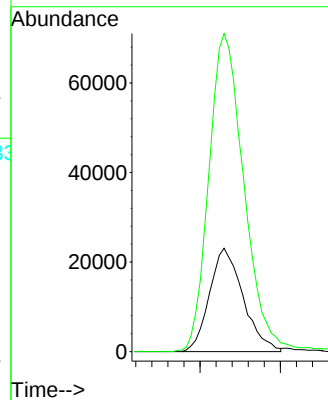
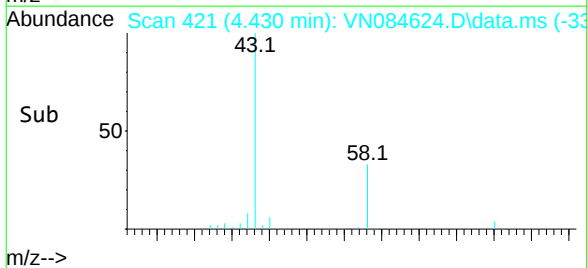
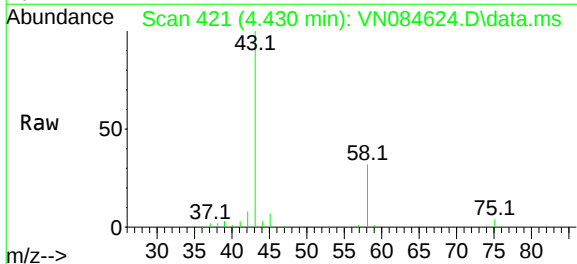
Acq: 31 Oct 2024 17:25

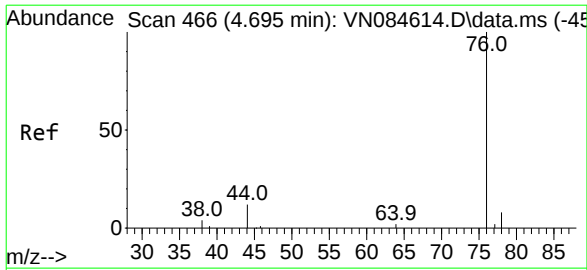
Tgt Ion: 58 Resp: 67225

Ion Ratio Lower Upper

58 100

43 306.1 233.0 349.6





#16

Carbon Disulfide

Concen: 0.651 ug/l

RT: 4.689 min Scan# 46

Delta R.T. -0.006 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA

Tgt Ion: 76 Resp: 3437

Ion Ratio Lower Upper

76 100

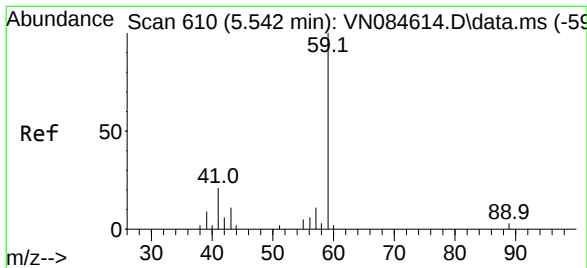
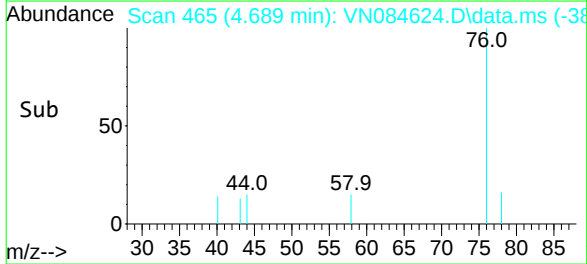
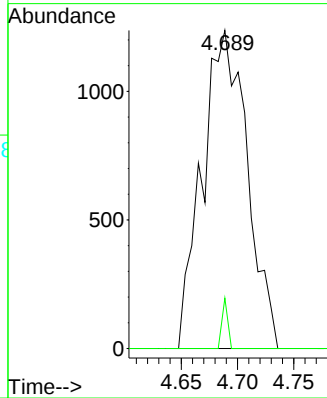
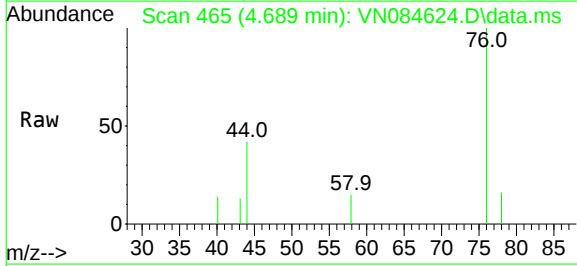
78 15.8 6.6 9.8#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#23

tert-Butyl Alcohol

Concen: 4073.413 ug/l

RT: 5.553 min Scan# 612

Delta R.T. 0.012 min

Lab File: VN084624.D

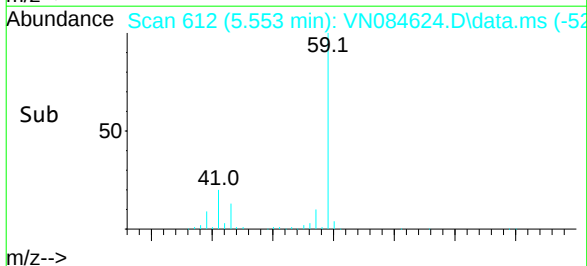
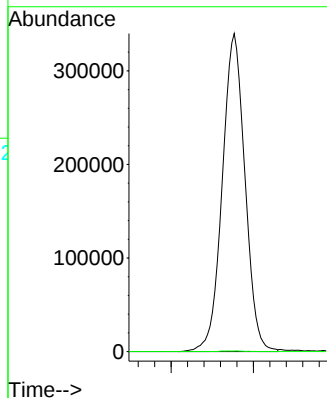
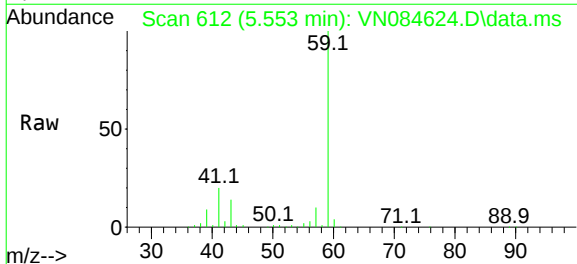
Acq: 31 Oct 2024 17:25

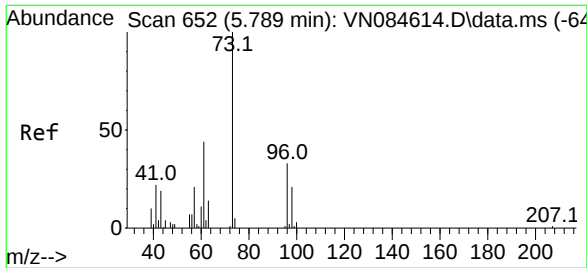
Tgt Ion: 59 Resp: 1301139

Ion Ratio Lower Upper

59 100

52 0.1 0.0 0.0#





#24

Methyl tert-Butyl Ether

Concen: 2.792 ug/l m

RT: 5.795 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA

Tgt Ion: 73 Resp: 16202

Ion Ratio Lower Upper

73 100

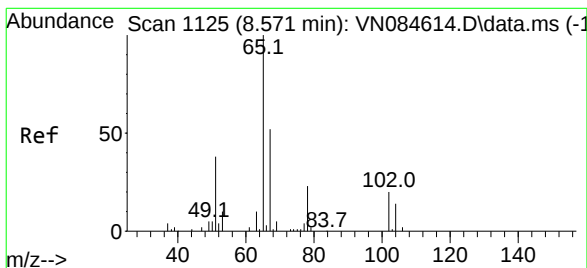
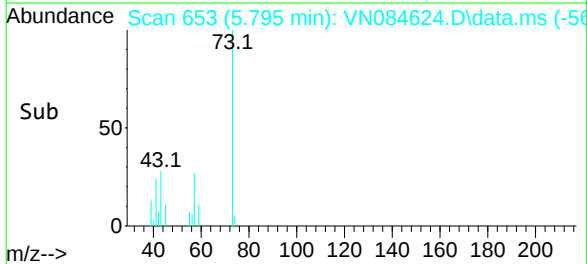
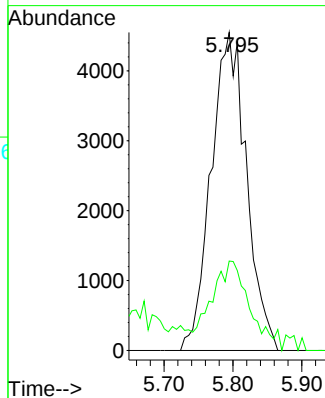
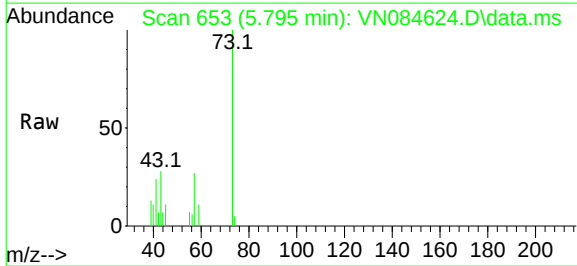
43 15.6 16.5 24.7#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#27

1,2-Dichloroethane-d4

Concen: 29.323 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN084624.D

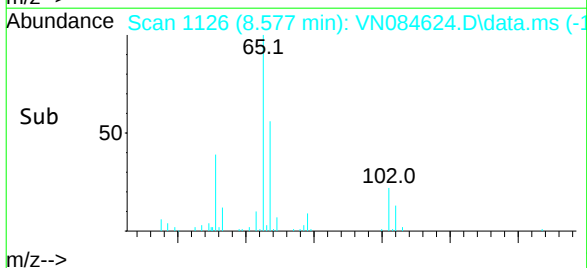
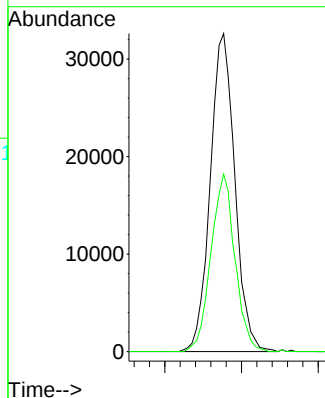
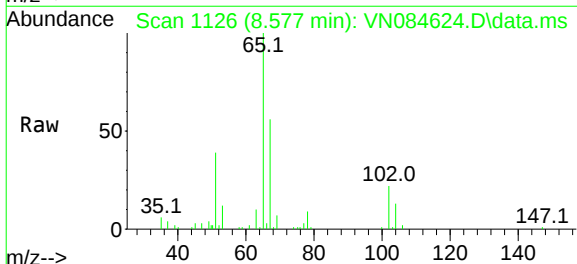
Acq: 31 Oct 2024 17:25

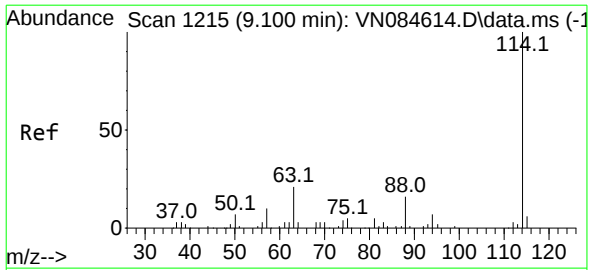
Tgt Ion: 65 Resp: 72579

Ion Ratio Lower Upper

65 100

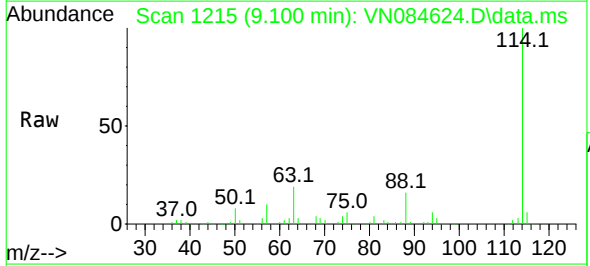
67 54.5 40.7 61.1





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

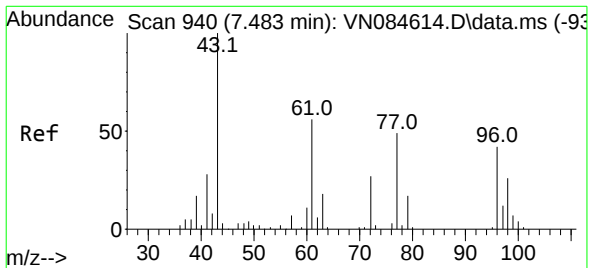
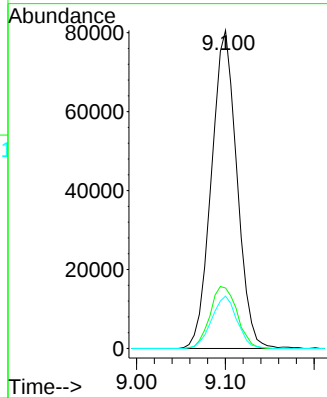
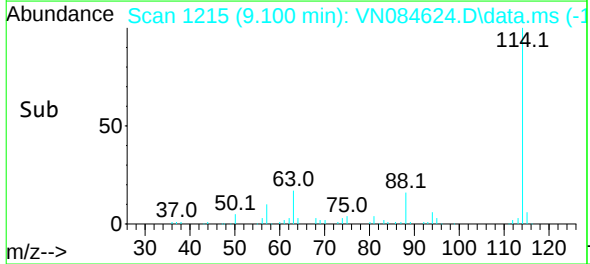
Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA



Tgt Ion: 114 Resp: 160595
Ion Ratio Lower Upper
114 100
63 20.7 16.8 25.2
88 16.4 12.9 19.3

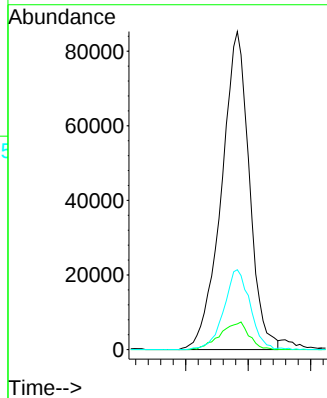
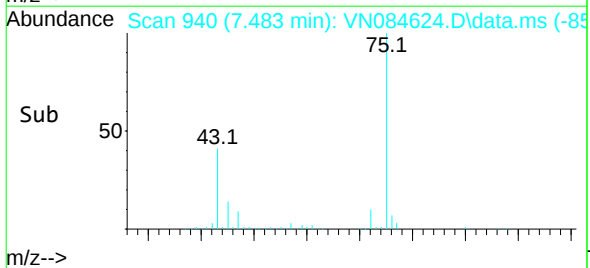
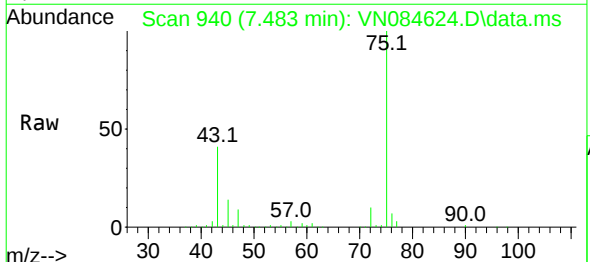
Manual Integrations
APPROVED

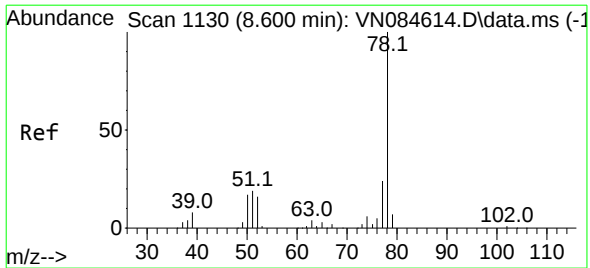
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#30
2-Butanone
Concen: 236.931 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

Tgt Ion: 43 Resp: 264366
Ion Ratio Lower Upper
43 100
57 8.9 6.2 9.4
72 23.5 21.5 32.3





#34

Benzene

Concen: 4.187 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

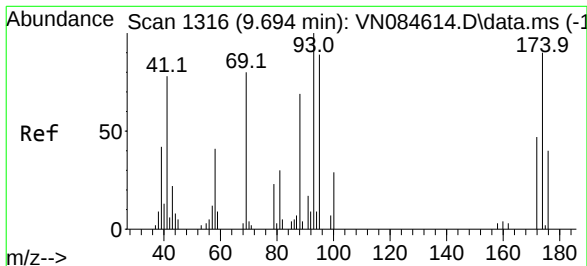
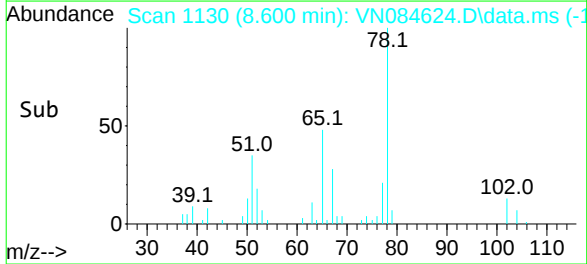
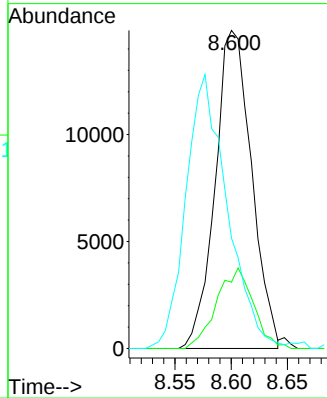
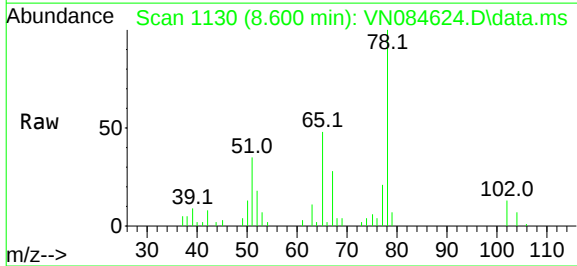
ClientSampleId :

241030069-01-VOA

Tgt Ion: 78	Resp: 33478
Ion Ratio	Lower Upper
78 100	
77 20.9	19.3 28.9
51 33.0	16.1 24.1#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#45

1,4-Dioxane

Concen: 95.472 ug/l

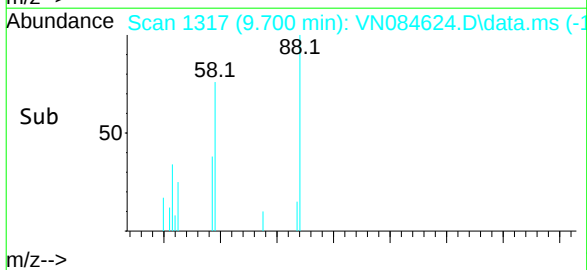
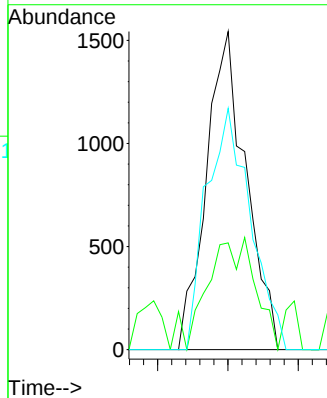
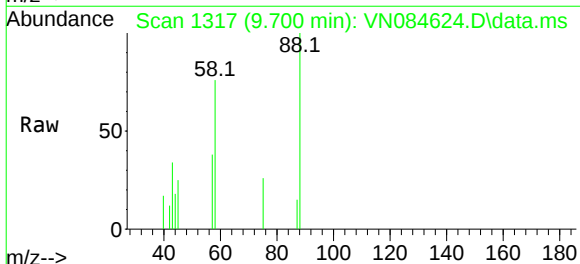
RT: 9.700 min Scan# 1317

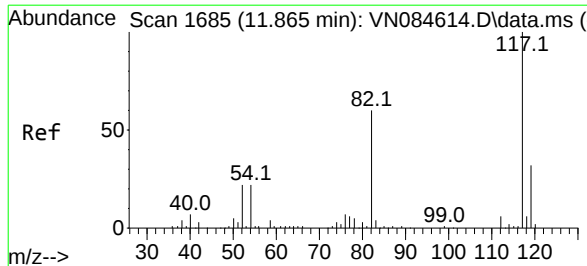
Delta R.T. 0.006 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Tgt Ion: 88	Resp: 3026
Ion Ratio	Lower Upper
88 100	
43 25.9	20.8 31.2
58 84.0	53.4 80.2#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA

Tgt Ion:117 Resp: 150355

Ion Ratio Lower Upper

117 100

82 58.1 45.5 68.3

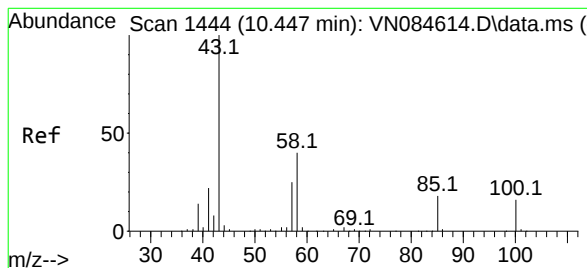
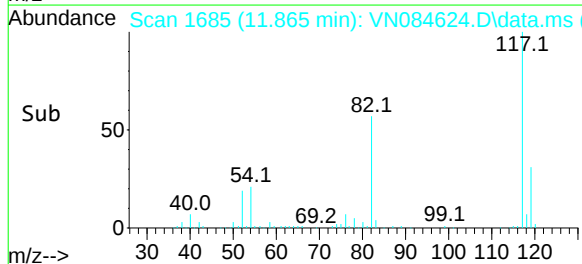
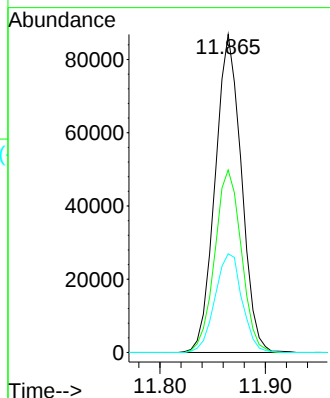
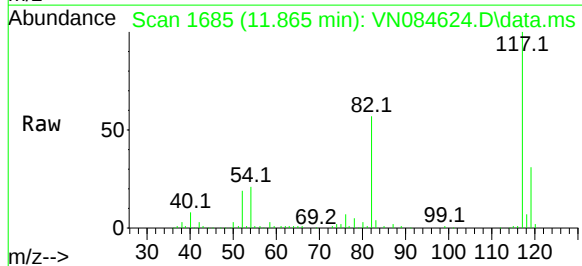
119 32.1 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#58

4-Methyl-2-Pentanone

Concen: 3.776 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

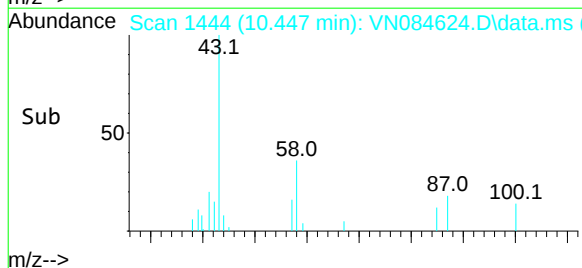
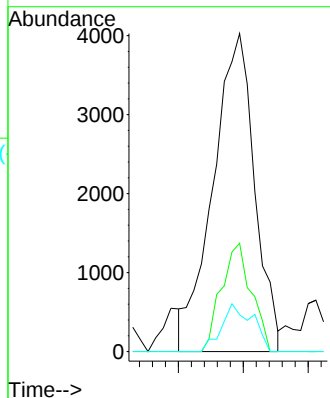
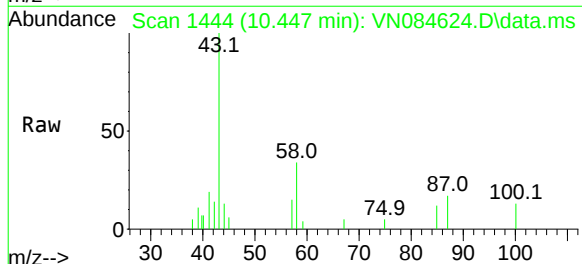
Tgt Ion: 43 Resp: 8956

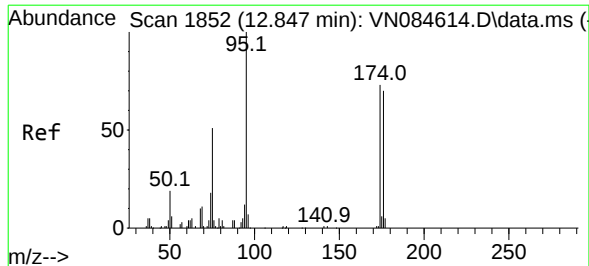
Ion Ratio Lower Upper

43 100

58 24.6 31.2 46.8#

85 8.5 14.9 22.3#





#60

4-Bromofluorobenzene

Concen: 27.815 ug/l

RT: 12.847 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA

Tgt Ion: 95 Resp: 72009

Ion Ratio Lower Upper

95 100

174 73.1 59.6 89.4

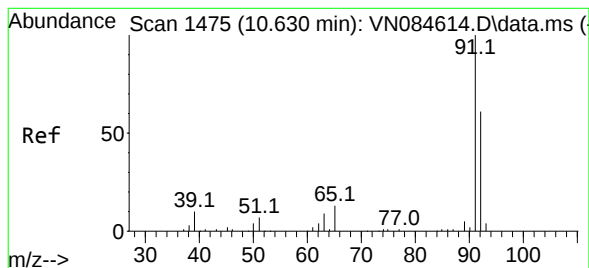
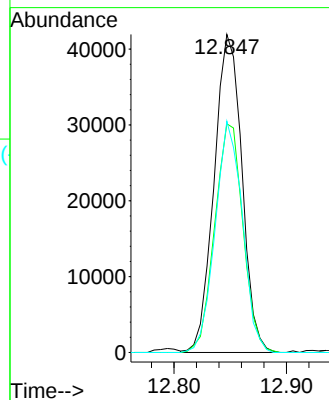
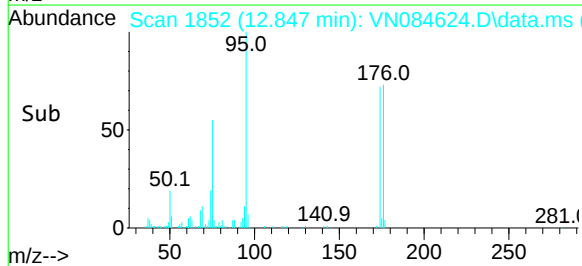
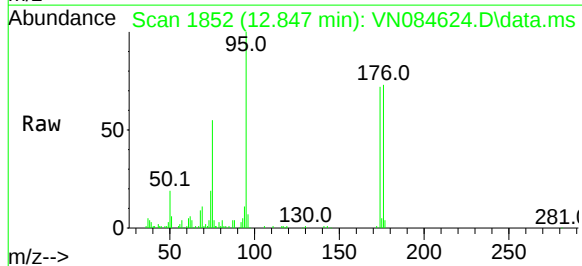
176 71.0 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#62

Toluene

Concen: 2.317 ug/l

RT: 10.624 min Scan# 1474

Delta R.T. -0.006 min

Lab File: VN084624.D

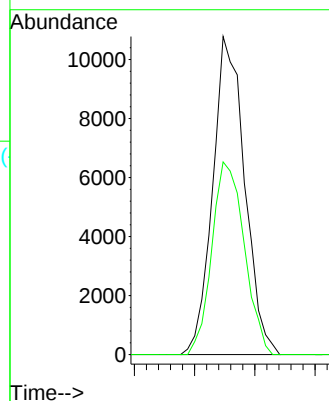
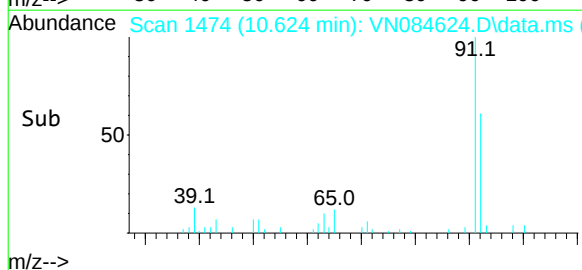
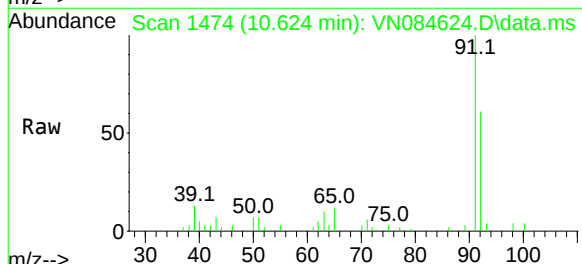
Acq: 31 Oct 2024 17:25

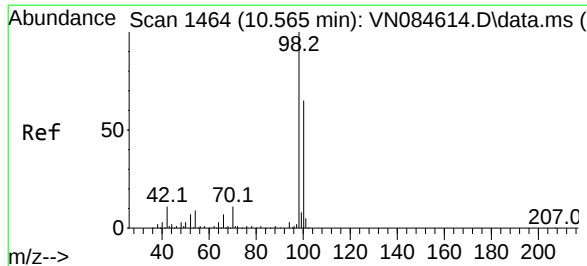
Tgt Ion: 91 Resp: 19845

Ion Ratio Lower Upper

91 100

92 61.4 47.5 71.3





#63

Toluene-d8

Concen: 27.892 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084624.D

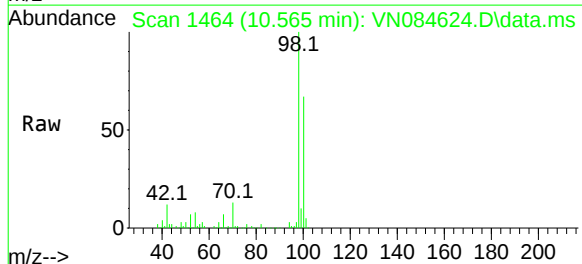
Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA



Tgt Ion: 98 Resp: 198530

Ion Ratio Lower Upper

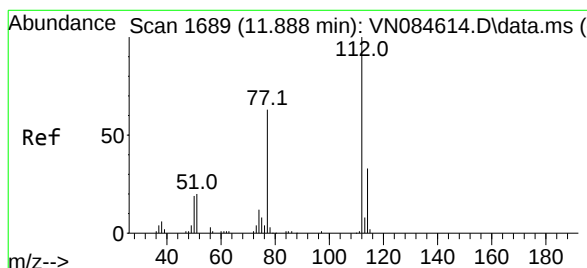
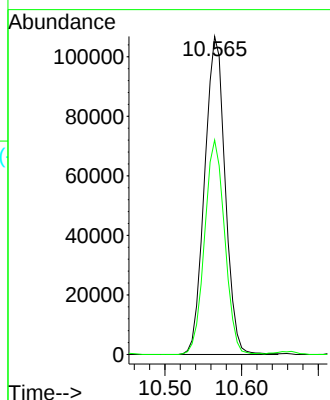
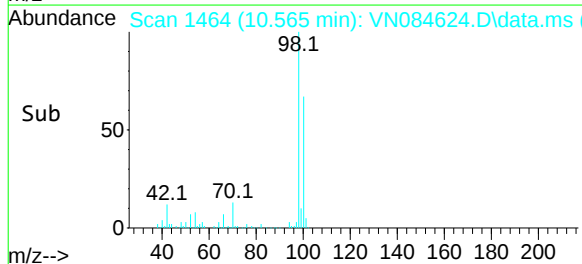
98 100

100 66.1 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#64

Chlorobenzene

Concen: 1.403 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084624.D

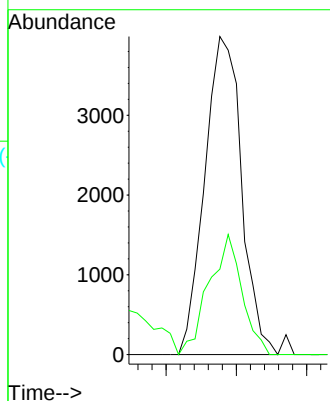
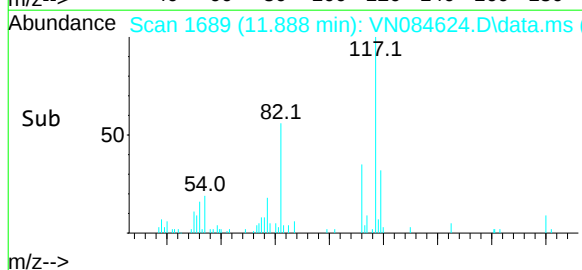
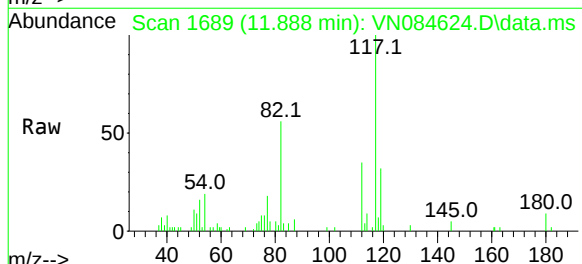
Acq: 31 Oct 2024 17:25

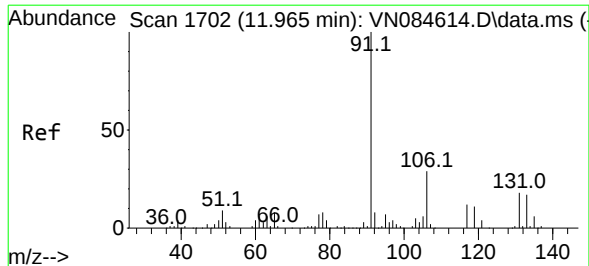
Tgt Ion:112 Resp: 7252

Ion Ratio Lower Upper

112 100

114 26.9 26.2 39.4





#66

Ethyl Benzene

Concen: 6.337 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA

Tgt Ion: 91 Resp: 57034

Ion Ratio Lower Upper

91 100

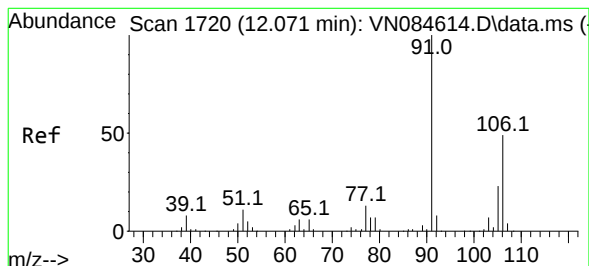
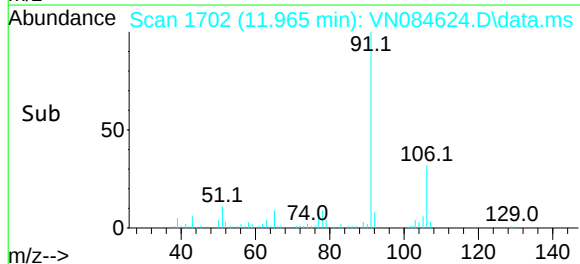
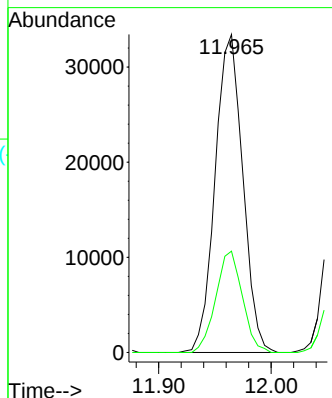
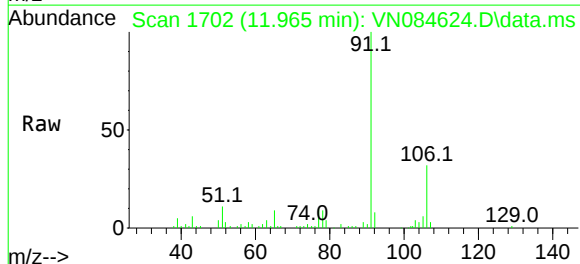
106 31.9 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#67

m/p-Xylenes

Concen: 8.327 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN084624.D

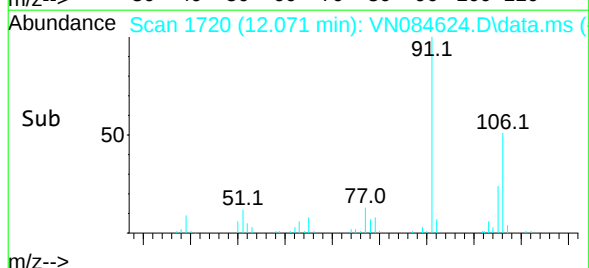
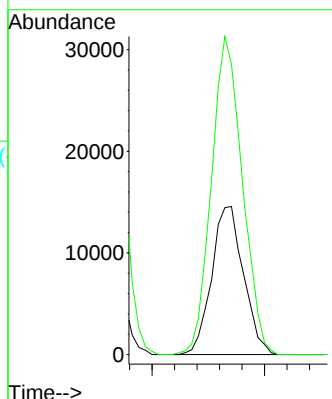
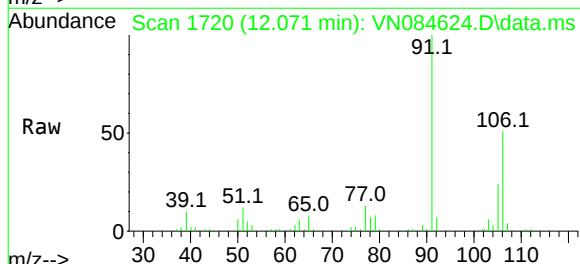
Acq: 31 Oct 2024 17:25

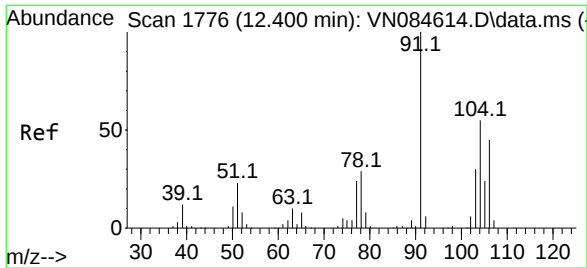
Tgt Ion:106 Resp: 28691

Ion Ratio Lower Upper

106 100

91 208.9 168.1 252.1





#68

o-Xylene

Concen: 5.239 ug/l

RT: 12.394 min Scan# 1776

Delta R.T. -0.006 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA

Tgt Ion:106 Resp: 17412

Ion Ratio Lower Upper

106 100

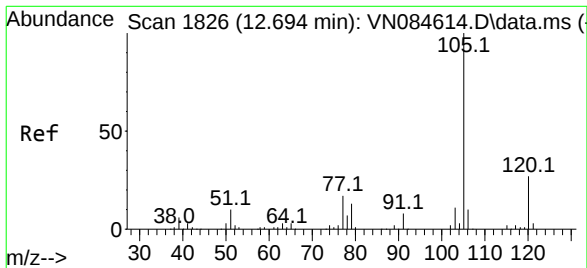
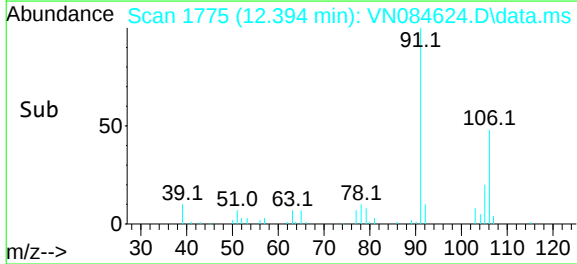
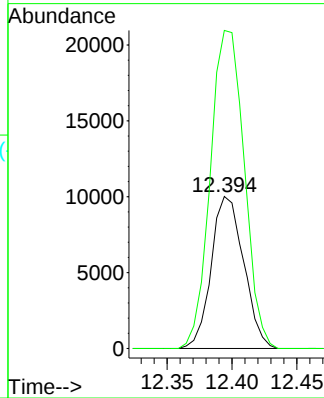
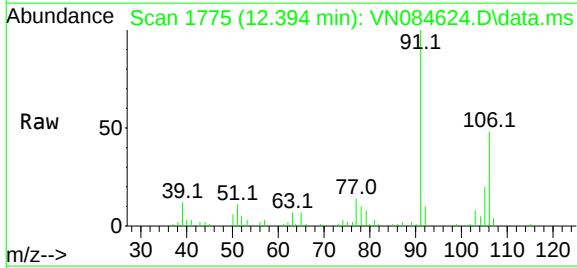
91 218.4 107.7 322.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#70

Isopropylbenzene

Concen: 0.977 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN084624.D

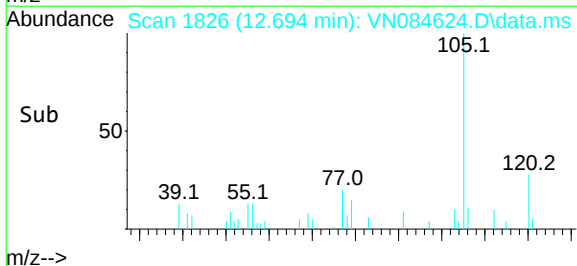
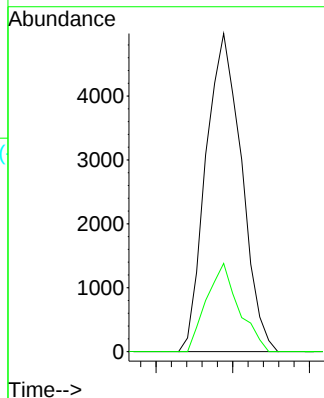
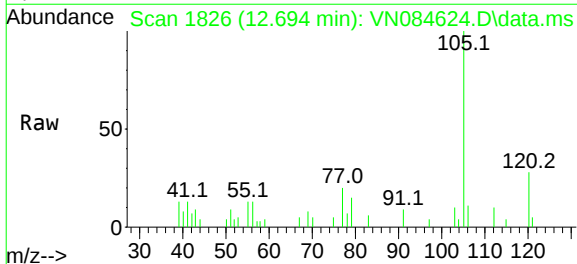
Acq: 31 Oct 2024 17:25

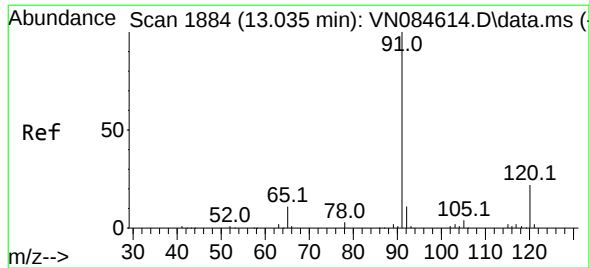
Tgt Ion:105 Resp: 8063

Ion Ratio Lower Upper

105 100

120 25.1 18.7 34.7





#74

n-propylbenzene

Concen: 0.521 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA

Tgt Ion: 91 Resp: 5033

Ion Ratio Lower Upper

91 100

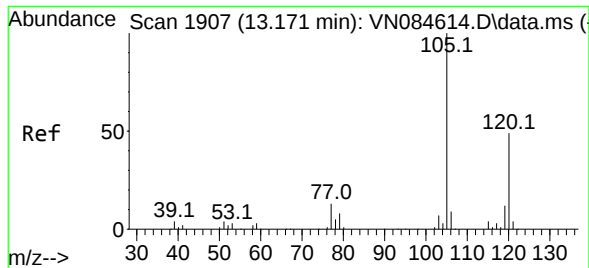
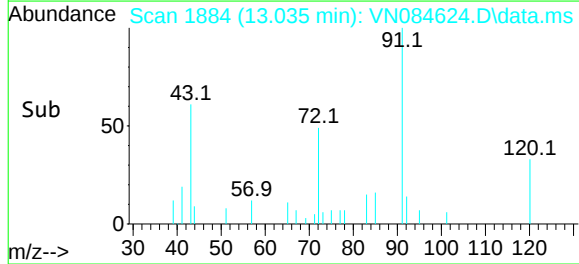
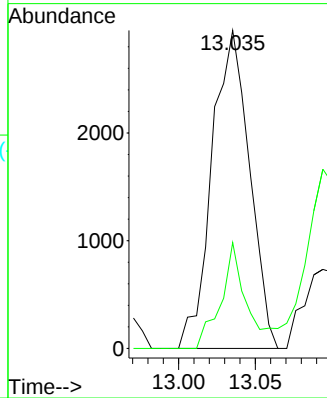
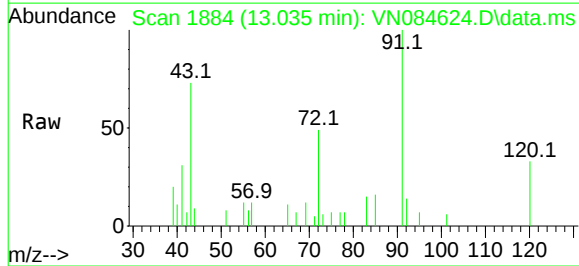
120 21.1 0.0 44.0

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#76

1,3,5-Trimethylbenzene

Concen: 0.724 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN084624.D

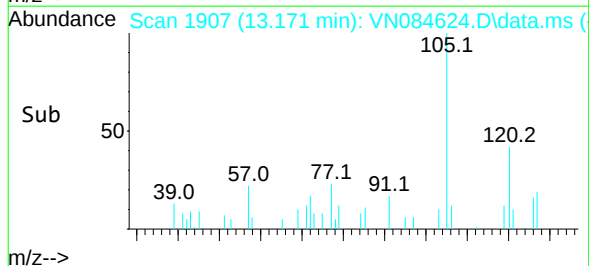
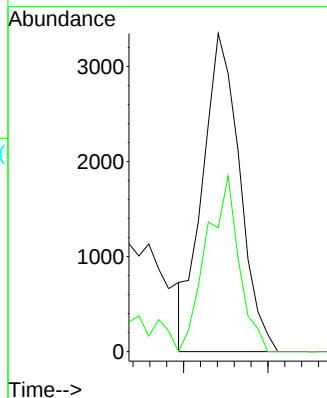
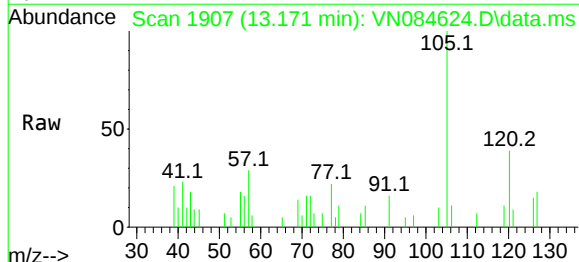
Acq: 31 Oct 2024 17:25

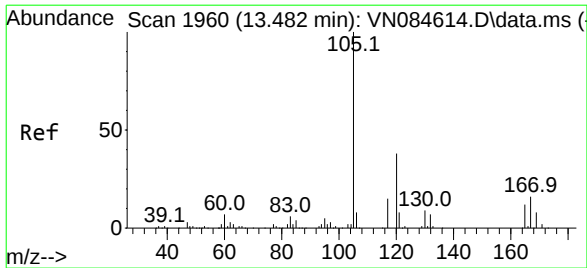
Tgt Ion:105 Resp: 5106

Ion Ratio Lower Upper

105 100

120 48.6 0.0 96.8





#80

1,2,4-Trimethylbenzene

Concen: 2.848 ug/l

RT: 13.482 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA

Tgt Ion:105 Resp: 20270

Ion Ratio Lower Upper

105 100

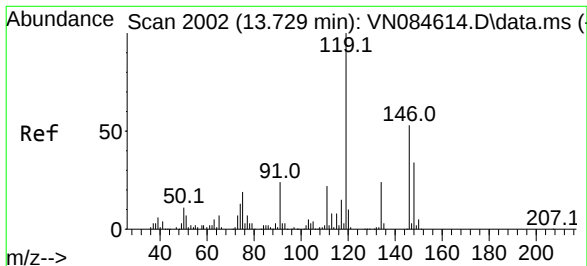
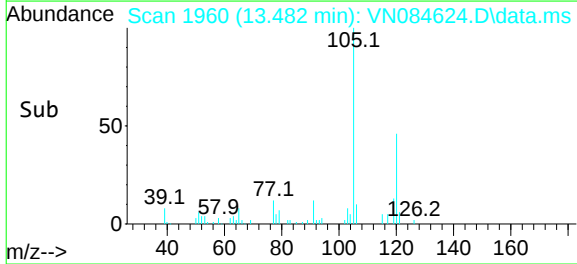
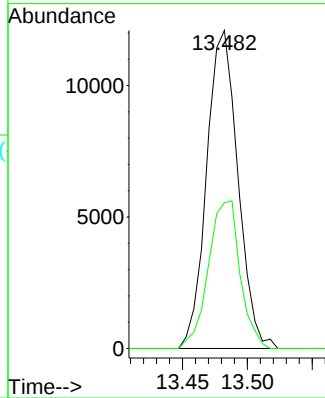
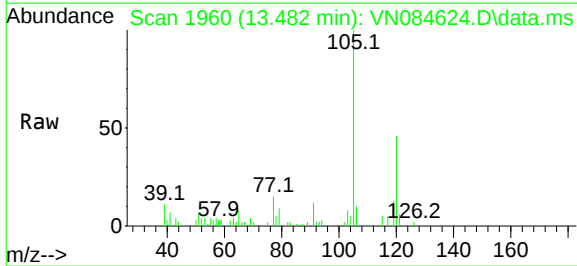
120 47.1 0.0 90.4

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Supervised By :Mahesh Dadoda 11/04/2024



#82

p-Isopropyltoluene

Concen: 1.035 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

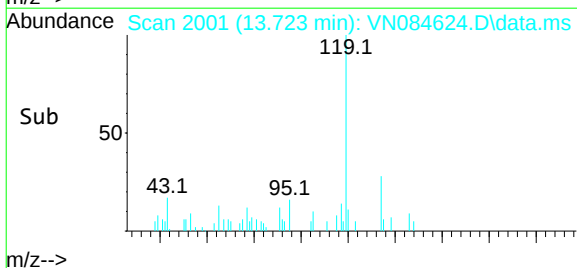
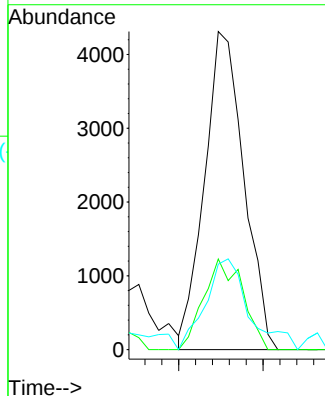
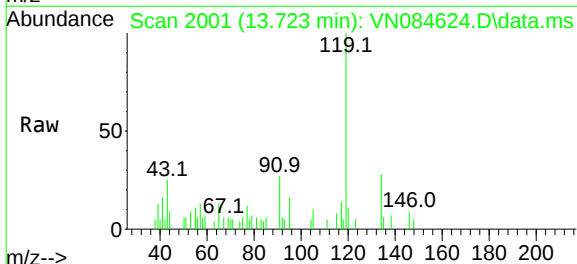
Tgt Ion:119 Resp: 6988

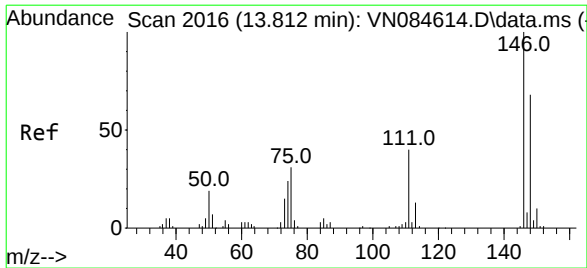
Ion Ratio Lower Upper

119 100

134 28.3 0.0 51.4

91 29.0 0.0 50.4





#84

1,4-Dichlorobenzene

Concen: 3.444 ug/l

RT: 13.806 min Scan# 2016

Delta R.T. -0.006 min

Lab File: VN084624.D

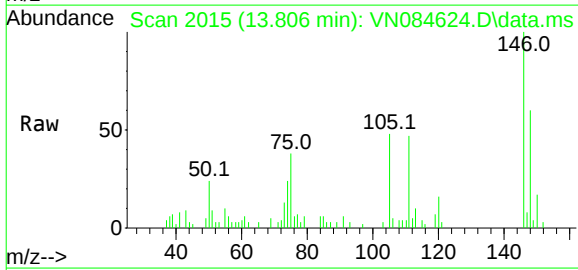
Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA



Tgt Ion: 146 Resp: 13402

Ion Ratio Lower Upper

146 100

111 46.7 20.2 60.5

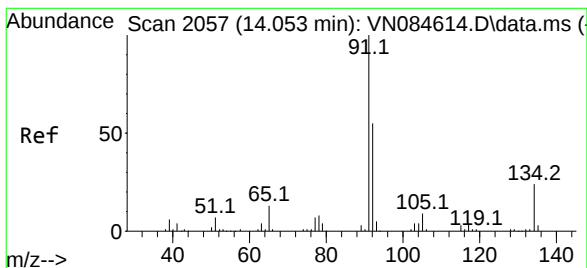
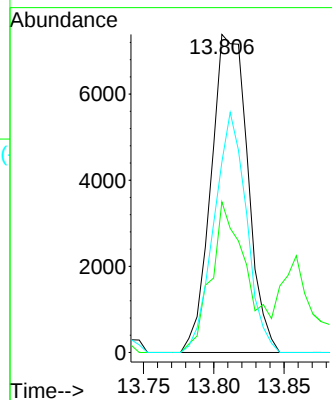
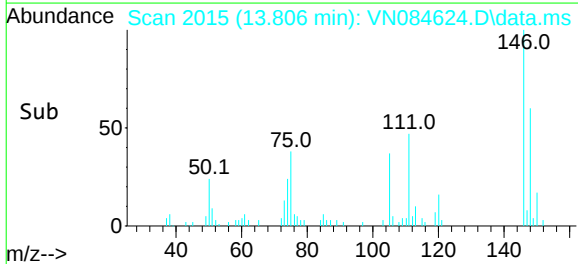
148 66.5 32.6 98.0

Manual Integrations

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Supervised By :Mahesh Dadoda 11/04/2024



#85

n-Butylbenzene

Concen: 0.257 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

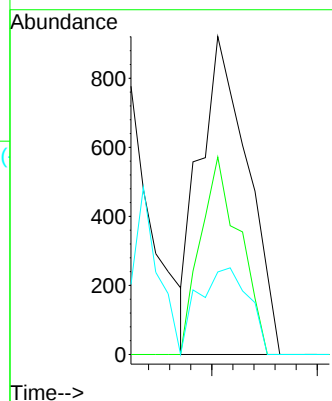
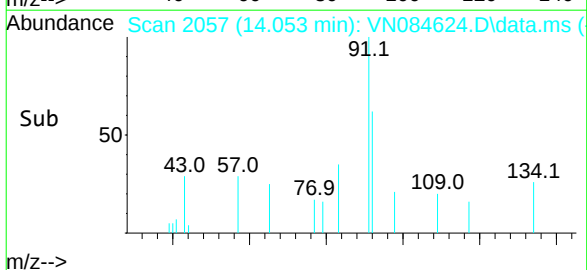
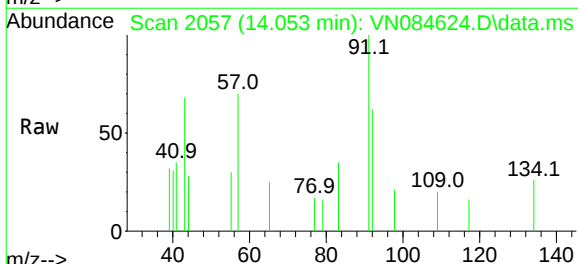
Tgt Ion: 91 Resp: 1456

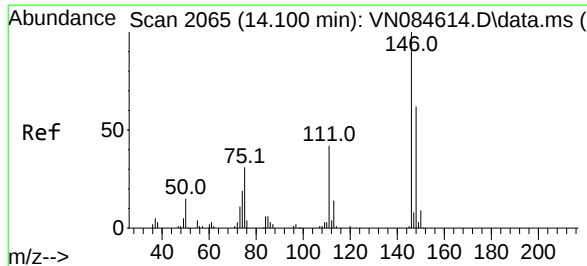
Ion Ratio Lower Upper

91 100

92 51.0 0.0 106.2

134 28.5 0.0 48.2





#87

1,2-Dichlorobenzene

Concen: 0.418 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN084624.D

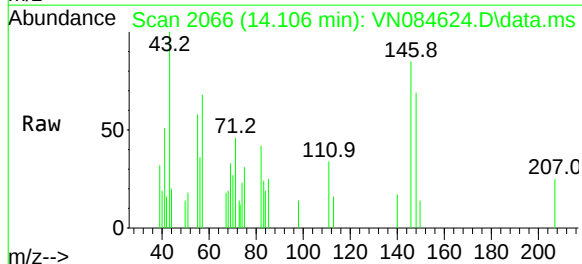
Acq: 31 Oct 2024 17:25

Instrument :

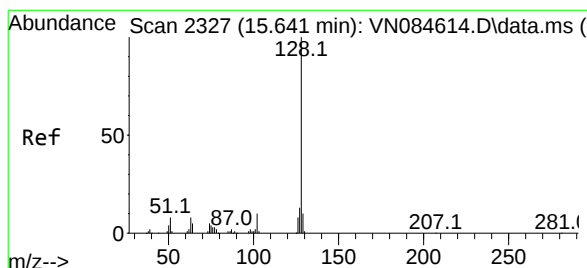
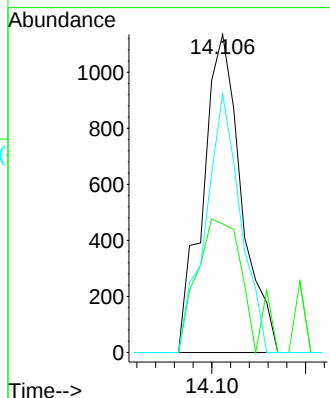
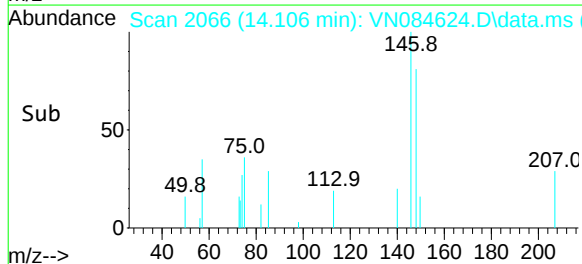
MSVOA_N

ClientSampleId :

241030069-01-VOA



Tgt Ion:	146	Resp:	1621
Ion Ratio	Lower	Upper	
146	100		
111	46.8	22.4	67.0
148	73.8	32.6	98.0

Manual Integrations
APPROVEDReviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

#91

Naphthalene

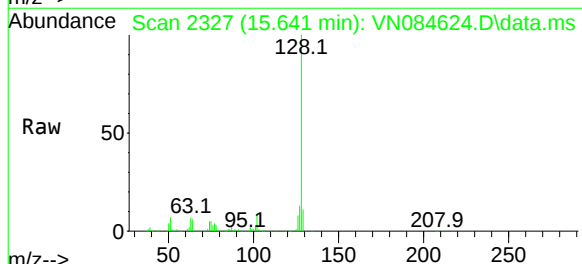
Concen: 33.999 ug/l

RT: 15.641 min Scan# 2327

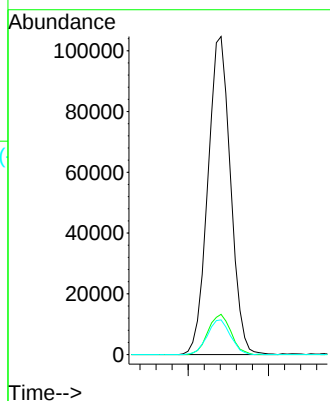
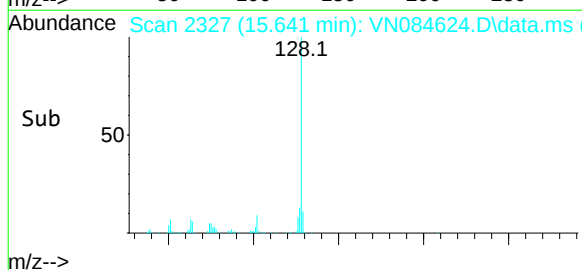
Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25



Tgt Ion:	128	Resp:	205176
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.3	15.5
129	11.1	8.6	12.8



Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/30/24
Project:	Waste Water 2024	Date Received:	10/31/24
Client Sample ID:	241030043-05-TRIP-BLANK	SDG No.:	P4646
Lab Sample ID:	P4646-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOCMS Group1

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084623.D	1		10/31/24 17:01	VN103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.7		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	28.0		91 - 112	93%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.1		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	30500	7.806			
540-36-3	1,4-Difluorobenzene	161000	9.1			
3114-55-4	Chlorobenzene-d5	142000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084623.D
 Acq On : 31 Oct 2024 17:01
 Operator : JC\MD
 Sample : P4646-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 241030043-05-TRIP-BLANK

Quant Time: Nov 01 02:49:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

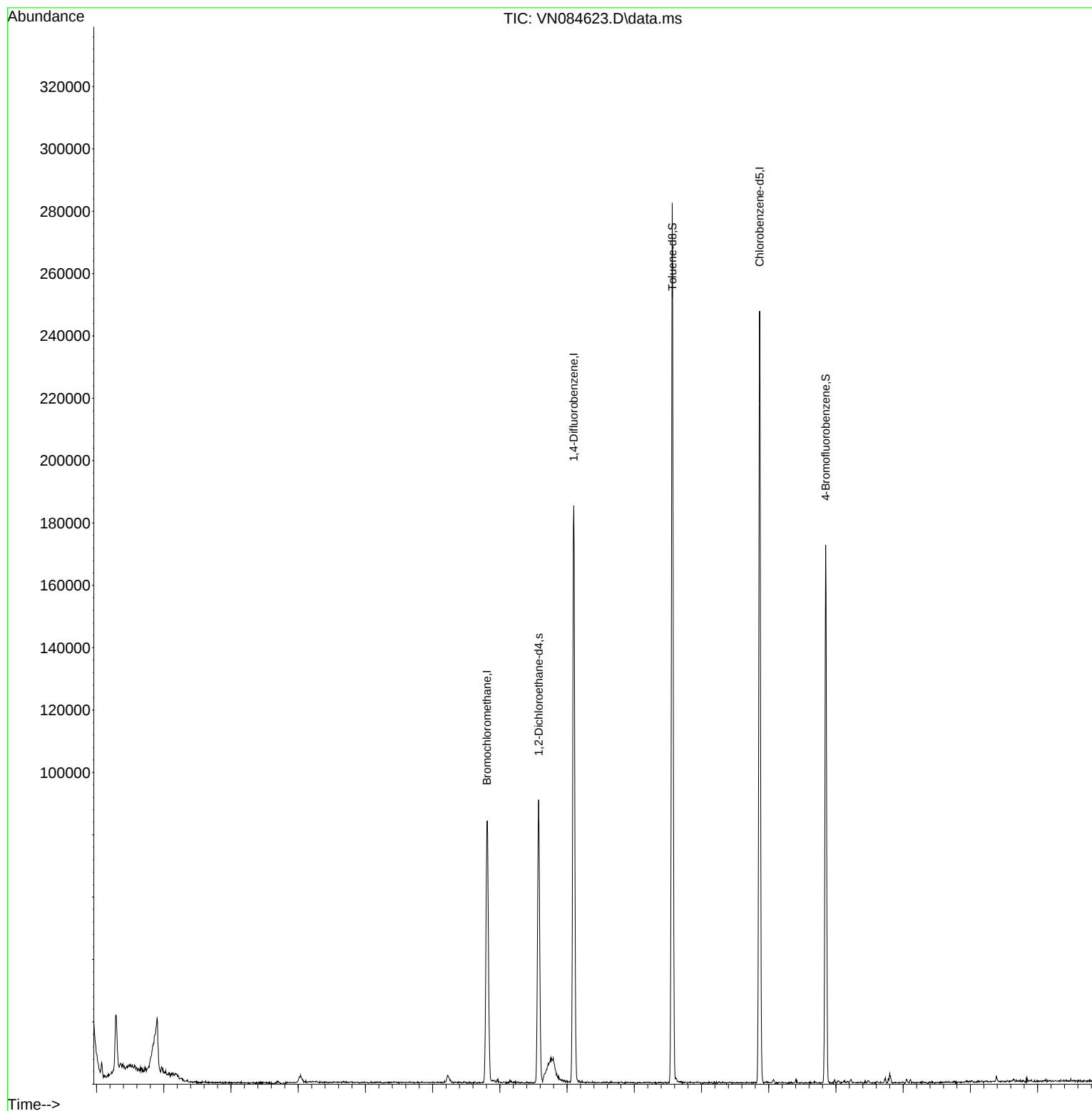
Internal Standards						
1) Bromochloromethane	7.806	128	30549	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	160545	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	142191	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72870	29.671	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.900%
60) 4-Bromofluorobenzene	12.847	95	61359	25.062	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.533%
63) Toluene-d8	10.565	98	188693	28.032	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	93.433%
Target Compounds						Qvalue
12) Methyl Acetate	5.036	43	4714	1.699	ug/l	91

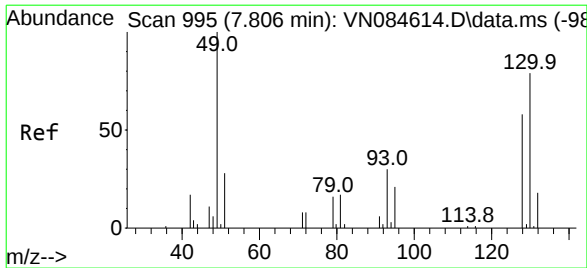
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084623.D
Acq On : 31 Oct 2024 17:01
Operator : JC\MD
Sample : P4646-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241030043-05-TRIP-BLANK

Quant Time: Nov 01 02:49:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

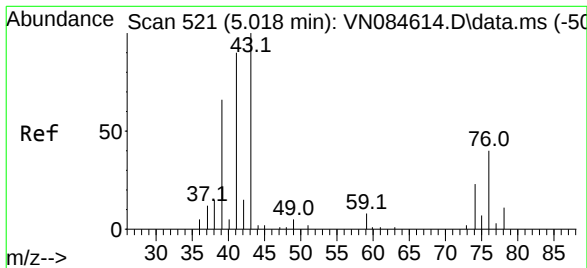
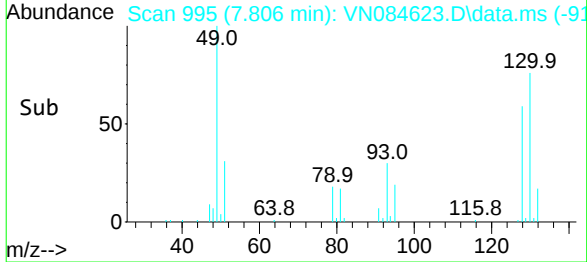
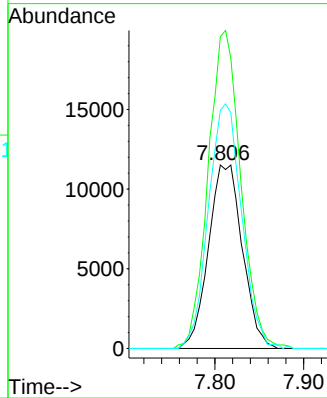
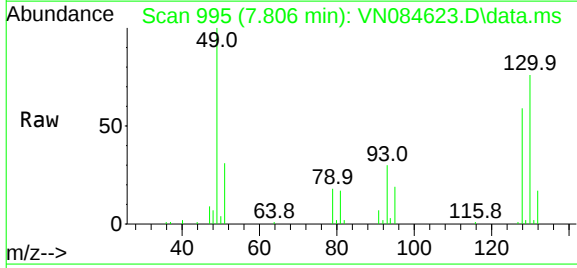




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN084623.D
Acq: 31 Oct 2024 17:01

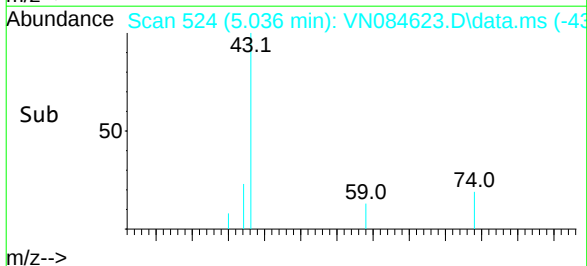
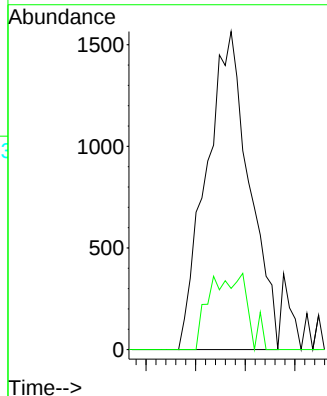
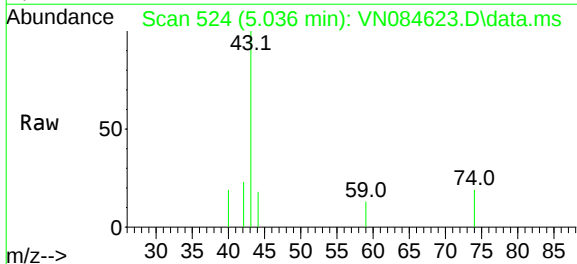
Instrument :
MSVOA_N
ClientSampleId :
241030043-05-TRIP-BLANK

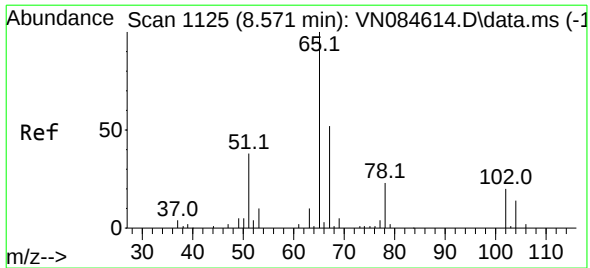
Tgt Ion	Ratio	Lower	Upper
128	100		
49	166.4	0.0	427.0
130	130.4	0.0	322.2



#12
Methyl Acetate
Concen: 1.699 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN084623.D
Acq: 31 Oct 2024 17:01

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.2	19.0	28.4

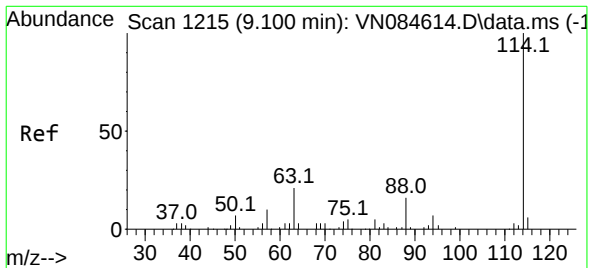
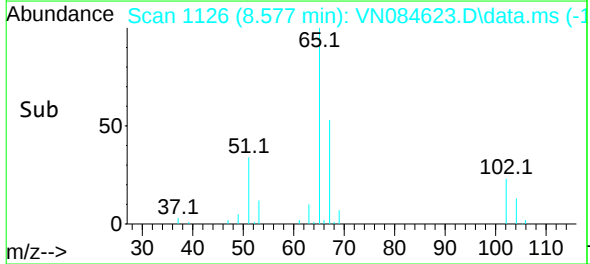
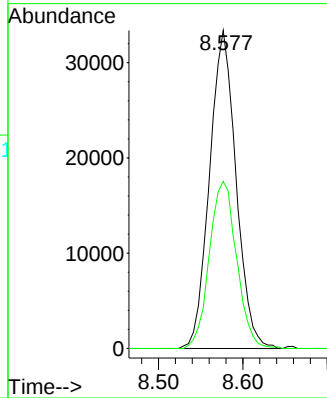
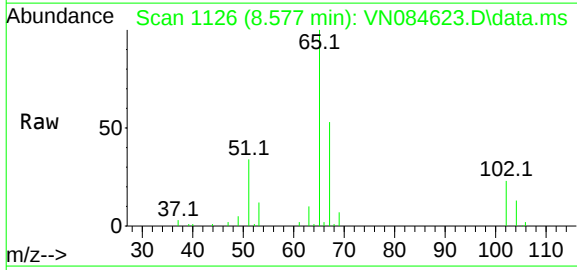




#27
1,2-Dichloroethane-d4
Concen: 29.671 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN084623.D
Acq: 31 Oct 2024 17:01

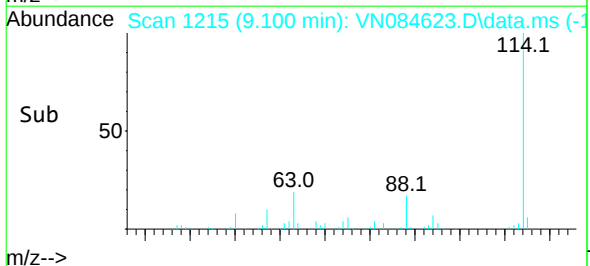
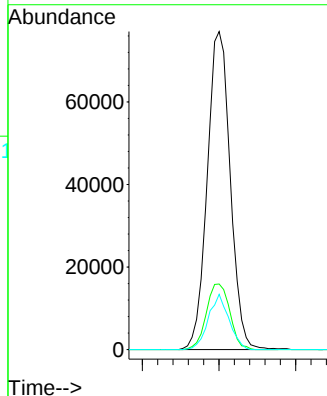
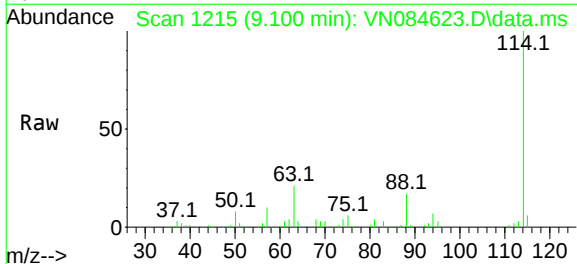
Instrument :
MSVOA_N
ClientSampleId :
241030043-05-TRIP-BLANK

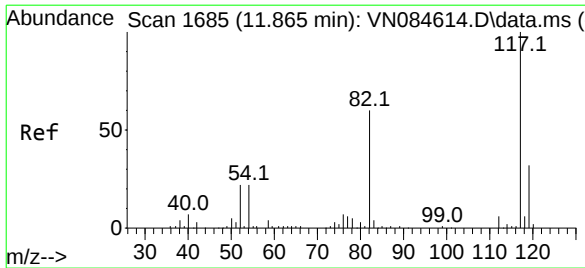
Tgt Ion: 65 Resp: 72870
Ion Ratio Lower Upper
65 100
67 54.0 40.7 61.1



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084623.D
Acq: 31 Oct 2024 17:01

Tgt Ion: 114 Resp: 160545
Ion Ratio Lower Upper
114 100
63 21.0 16.8 25.2
88 15.6 12.9 19.3





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084623.D

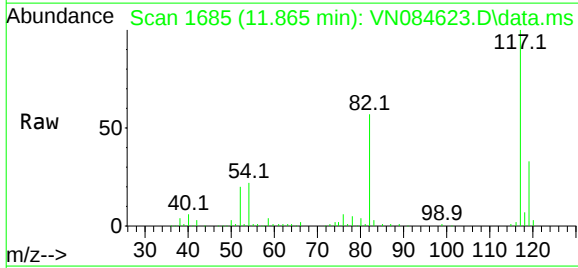
Acq: 31 Oct 2024 17:01

Instrument :

MSVOA_N

ClientSampleId :

241030043-05-TRIP-BLANK



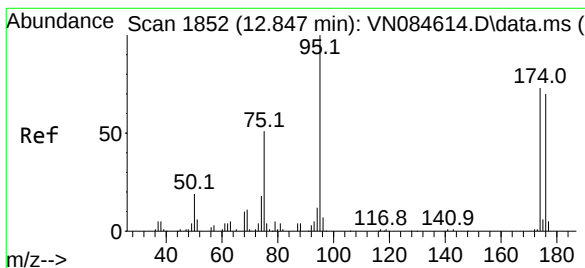
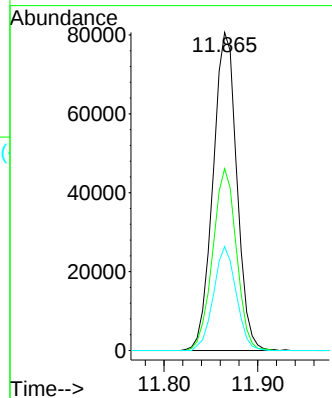
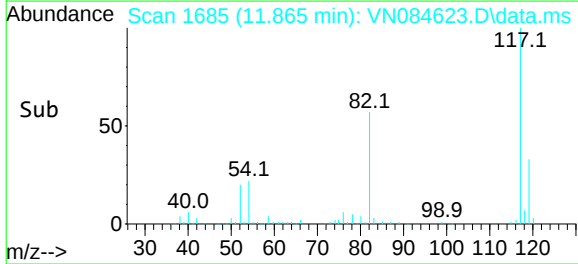
Tgt Ion:117 Resp: 142191

Ion Ratio Lower Upper

117 100

82 56.9 45.5 68.3

119 31.2 25.3 37.9



#60

4-Bromofluorobenzene

Concen: 25.062 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084623.D

Acq: 31 Oct 2024 17:01

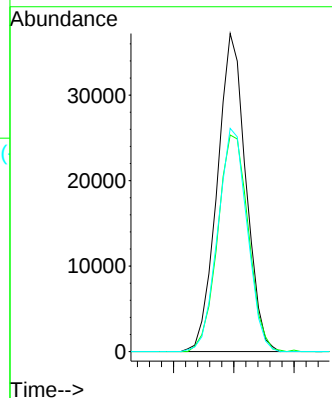
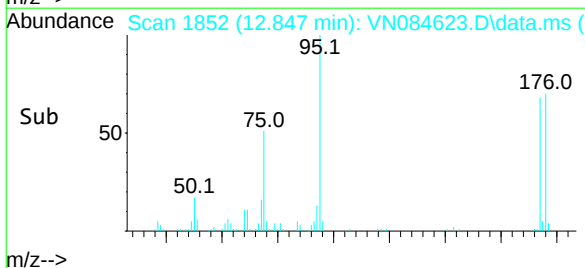
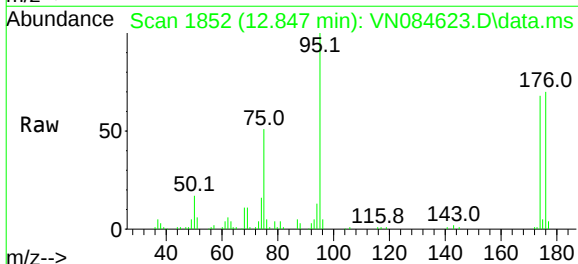
Tgt Ion: 95 Resp: 61359

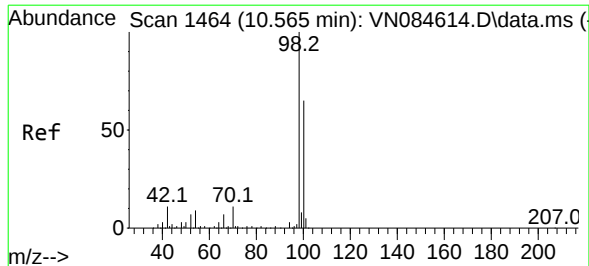
Ion Ratio Lower Upper

95 100

174 72.8 59.6 89.4

176 72.1 58.6 88.0





#63

Toluene-d8

Concen: 28.032 ug/l

RT: 10.565 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN084623.D

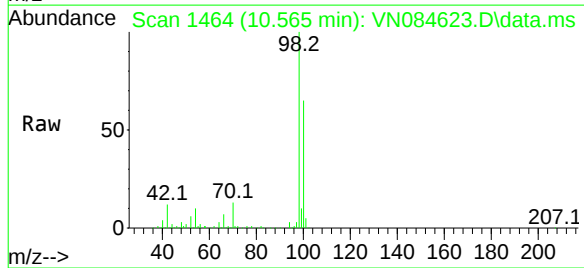
Acq: 31 Oct 2024 17:01

Instrument :

MSVOA_N

ClientSampleId :

241030043-05-TRIP-BLANK

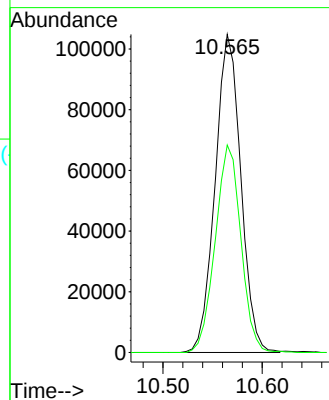
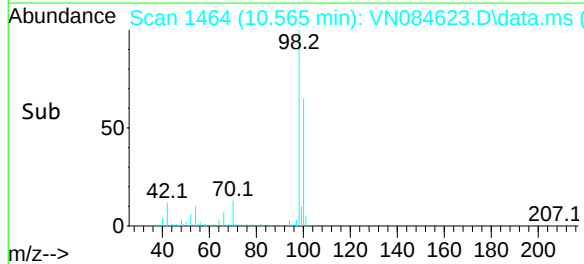


Tgt Ion: 98 Resp: 188693

Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.2





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.: P4646 SAS No.: P4646 SDG No.: P4646
 Instrument ID: MSVOA_N Calibration Date(s): 10/31/2024 10/31/2024
 Heated Purge: (Y/N) N Calibration Time(s): 12:08 18:13
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VN084613.D		RRF020 = VN084614.D		RRF050 = VN084615.D		
		RRF100 = VN084616.D		RRF150 = VN084617.D		RRFCAL = VN084626.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRFCAL	RRF	% RSD
Acrolein	0.345	0.350	0.313	0.326	0.347		0.336	4.8
Acrylonitrile	0.838	0.902	0.889	0.892	0.937		0.892	4
1,2-Dichloroethane-d4	2.444	2.473	2.377	2.353	2.413		2.412	2
Toluene-d8	1.451	1.442	1.416	1.393	1.398		1.420	1.8
4-Bromofluorobenzene	0.482	0.506	0.531	0.538	0.526		0.517	4.4

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N103124W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Nov 01 02:38:04 2024
 Response Via : Initial Calibration

Calibration Files

5 =VN084613.D 20 =VN084614.D 50 =VN084615.D 100 =VN084616.D 150 =VN084617.D

	Compound	5	20	50	100	150	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoro...	1.762	1.842	1.727	1.647	1.746	1.745	4.00
3) M	Chloromethane	2.294	2.180	1.987	1.942	2.100	2.101	6.81
4) M	Vinyl Chloride	1.987	2.059	1.937	1.841	1.929	1.951	4.13
5) M	Bromomethane	1.026	1.087	0.943	0.927	0.969	0.990	6.66
6) M	Chloroethane	1.361	1.345	1.305	1.162	1.231	1.281	6.50
7) M	Trichlorofluorom...	3.268	3.375	3.091	2.971	3.135	3.168	4.96
8) T	Diethyl Ether	1.000	1.165	1.128	1.145	1.212	1.130	7.00
9)	1,1,2-Trichlorot...	1.776	1.938	1.786	1.675	1.777	1.790	5.27
10) M	1,1-Dichloroethene	1.685	1.840	1.711	1.699	1.807	1.748	4.00
11)	Methyl Iodide	2.378	2.507	2.375	2.318	2.437	2.403	2.99
12)	Methyl Acetate	3.900	2.690	2.326	2.302	2.408	2.725	24.75
13) M	Acrolein	0.345	0.350	0.313	0.326	0.347	0.336	4.77
14) M	Acrylonitrile	0.838	0.902	0.889	0.892	0.937	0.892	3.97
15) M	Acetone	0.231	0.235	0.223	0.223	0.233	0.229	2.34
16) M	Carbon Disulfide	5.140	5.375	5.016	4.956	5.235	5.144	3.27
17)	Allyl chloride	2.858	3.101	2.786	2.986	3.164	2.979	5.34
18) M	Methylene Chloride	2.119	2.210	1.980	1.930	2.004	2.049	5.55
19) M	trans-1,2-Dichlo...	1.819	1.905	1.810	1.776	1.854	1.833	2.67
20) T	Diisopropyl ether	5.269	6.283	6.069	5.949	6.249	5.964	6.90
21) M	1,1-Dichloroethane	3.711	3.802	3.469	3.417	3.534	3.587	4.57
22) M	cis-1,2-Dichloro...	2.121	2.237	2.172	2.141	2.269	2.188	2.89
23) M	tert-Butyl Alcohol	0.374	0.310	0.274	0.285	0.313	0.311	12.41
24) M	Methyl tert-Buty...	4.972	5.809	5.618	5.772	6.099	5.654	7.41
25) M	Chloroform	3.764	3.915	3.598	3.469	3.627	3.675	4.64
26)	Cyclohexane	2.348	2.813	2.794	2.761	2.982	2.740	8.58
27) s	1,2-Dichloroetha...	2.444	2.473	2.377	2.353	2.413	2.412	2.02
28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.428	0.467	0.452	0.452	0.461	0.452	3.31
30) M	2-Butanone	0.206	0.207	0.207	0.210	0.213	0.208	1.26
31)	2,2-Dichloropropane	0.563	0.584	0.548	0.528	0.535	0.552	4.06
32) M	1,1,1-Trichloroe...	0.631	0.645	0.604	0.593	0.595	0.614	3.80
33) M	Carbon Tetrachlo...	0.545	0.536	0.517	0.504	0.517	0.524	3.16
34) M	Benzene	1.549	1.525	1.476	1.460	1.458	1.494	2.75
35)	Methacrylonitrile	0.240	0.246	0.234	0.256	0.258	0.247	4.17
36) M	1,2-Dichloroethane	0.521	0.521	0.488	0.469	0.484	0.497	4.71
37) M	Trichloroethene	0.340	0.350	0.331	0.325	0.338	0.337	2.76
38)	Methylcyclohexane	0.429	0.479	0.495	0.504	0.526	0.486	7.52
39) M	1,2-Dichloropropane	0.371	0.372	0.351	0.349	0.355	0.360	3.10
40)	Dibromomethane	0.257	0.262	0.247	0.246	0.245	0.252	3.04
41) M	Bromodichloromet...	0.566	0.547	0.526	0.526	0.531	0.539	3.22
42) M	Vinyl Acetate	0.692	0.782	0.788	0.809	0.824	0.779	6.59
43)	Ethyl Acetate	0.421	0.429	0.446	0.443	0.451	0.438	2.89
44)	Isopropyl Acetate	1.250	0.844	0.785	0.774	0.781	0.887	23.13
45) T	1,4-Dioxane	0.006	0.006	0.006	0.006	0.006	0.006	4.14
46)	Methyl methacrylate	0.332	0.349	0.356	0.369	0.376	0.356	4.92
47)	n-amyl Acetate	0.548	0.667	0.687	0.706	0.703	0.662	9.92
48) M	t-1,3-Dichloropr...	0.509	0.529	0.535	0.538	0.551	0.532	2.94
49) T	cis-1,3-Dichloro...	0.535	0.580	0.567	0.580	0.592	0.571	3.83
50) M	1,1,2-Trichloroe...	0.340	0.353	0.336	0.330	0.328	0.337	2.96
51)	Ethyl methacrylate	0.436	0.503	0.539	0.560	0.563	0.520	10.15
52)	1,3-Dichloropropane	0.582	0.610	0.586	0.577	0.573	0.586	2.46
53) M	Dibromochloromet...	0.378	0.400	0.401	0.397	0.398	0.395	2.47
54) M	1,2-Dibromoethane	0.334	0.357	0.337	0.339	0.339	0.341	2.63
55) M	2-Chloroethyl vi...	0.207	0.266	0.268	0.266	0.267	0.255	10.42
56) M	Bromoform	0.254	0.262	0.269	0.270	0.268	0.265	2.56

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N103124W.M

57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Penta...	0.453	0.490	0.472	0.475	0.478	0.473	2.83
59) M	2-Hexanone	0.325	0.355	0.349	0.354	0.351	0.347	3.60
60) S	4-Bromofluoroben...	0.482	0.506	0.531	0.538	0.526	0.517	4.39
61) M	Tetrachloroethene	0.313	0.331	0.310	0.305	0.311	0.314	3.11
62) M	Toluene	1.732	1.781	1.675	1.658	1.698	1.709	2.87
63) S	Toluene-d8	1.451	1.442	1.416	1.393	1.398	1.420	1.81
64) M	Chlorobenzene	1.030	1.071	1.018	1.011	1.028	1.032	2.25
65)	1,1,1,2-Tetrachl...	0.383	0.398	0.380	0.366	0.368	0.379	3.36
66) M	Ethyl Benzene	1.596	1.824	1.829	1.836	1.894	1.796	6.42
67) M	m/p-Xylenes	0.615	0.710	0.706	0.695	0.712	0.687	5.98
68) M	o-Xylene	0.569	0.690	0.681	0.683	0.692	0.663	7.95
69) M	Styrene	0.911	1.136	1.179	1.154	1.180	1.112	10.22
70)	Isopropylbenzene	1.407	1.671	1.715	1.692	1.752	1.647	8.35
71) M	1,1,2,2-Tetrachl...	0.555	0.568	0.529	0.510	0.509	0.534	4.95
72)	1,2,3-Trichlorop...	0.460	0.527	0.429	0.429	0.434	0.456	9.11
73)	Bromobenzene	0.406	0.442	0.425	0.427	0.425	0.425	2.97
74)	n-propylbenzene	1.596	1.953	2.030	1.985	2.068	1.926	9.86
75)	2-Chlorotoluene	1.156	1.287	1.299	1.255	1.275	1.255	4.56
76)	1,3,5-Trimethylb...	1.193	1.438	1.480	1.442	1.485	1.408	8.64
77)	t-1,4-Dichloro-2...	0.152	0.191	0.193	0.196	0.203	0.187	10.86
78)	4-Chlorotoluene	1.151	1.299	1.301	1.280	1.306	1.268	5.18
79)	tert-butylbenzene	0.947	1.147	1.206	1.243	1.278	1.164	11.24
80)	1,2,4-Trimethylb...	1.129	1.449	1.513	1.494	1.515	1.420	11.60
81)	sec-Butylbenzene	1.290	1.605	1.691	1.689	1.744	1.604	11.37
82)	p-Isopropyltoluene	1.023	1.338	1.445	1.437	1.495	1.348	14.13
83) M	1,3-Dichlorobenzene	0.736	0.812	0.793	0.787	0.801	0.786	3.73
84) M	1,4-Dichlorobenzene	0.729	0.784	0.790	0.779	0.801	0.776	3.59
85)	n-Butylbenzene	0.852	1.069	1.186	1.237	1.316	1.132	15.96
86) T	Hexachloroethane	0.273	0.284	0.275	0.265	0.280	0.276	2.60
87) M	1,2-Dichlorobenzene	0.724	0.821	0.787	0.760	0.780	0.774	4.62
88)	1,2-Dibromo-3-Ch...	0.099	0.108	0.106	0.098	0.105	0.103	4.27
89)	1,2,4-Trichlorob...	0.308	0.383	0.381	0.390	0.424	0.377	11.21
90)	Hexachlorobutadiene	0.160	0.168	0.163	0.158	0.174	0.165	3.93
91) M	Naphthalene	0.839	1.126	1.272	1.338	1.445	1.204	19.47
92)	1,2,3-Trichlorob...	0.308	0.383	0.381	0.390	0.424	0.377	11.21

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084613.D
 Acq On : 31 Oct 2024 12:08
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/01/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:19:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31324	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	165636	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	148900	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	76561	30.402	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.333%			
60) 4-Bromofluorobenzene	12.847	95	71798	28.004	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.333%			
63) Toluene-d8	10.565	98	216062	30.652	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.167%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	9198	5.049	ug/l	96
3) Chloromethane	2.359	50	11978	5.461	ug/l	99
4) Vinyl Chloride	2.512	62	10376	5.094	ug/l #	82
5) Bromomethane	2.900	94	5354	5.179	ug/l	86
6) Chloroethane	3.071	64	7106m	5.250	ug/l	
7) Trichlorofluoromethane	3.471	101	17062	5.158	ug/l	98
8) Diethyl Ether	3.953	74	5222	4.426	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.365	101	9273	4.960	ug/l #	39
10) 1,1-Dichloroethene	4.324	96	8797	4.819	ug/l	92
11) Methyl Iodide	4.571	142	12414	4.948	ug/l	99
12) Methyl Acetate	5.012	43	20360m	7.148	ug/l	
13) Acrolein	4.171	56	9009	25.674	ug/l	92
14) Acrylonitrile	5.718	53	21872m	23.496	ug/l	
15) Acetone	4.442	58	6033m	25.222	ug/l	
16) Carbon Disulfide	4.700	76	26836	4.996	ug/l #	94
17) Allyl chloride	5.006	41	14923m	4.845	ug/l	
18) Methylene Chloride	5.277	84	11065	5.173	ug/l	91
19) trans-1,2-Dichloroethene	5.777	96	9494m	4.962	ug/l	
20) Diisopropyl ether	6.665	45	27506	4.417	ug/l	93
21) 1,1-Dichloroethane	6.559	63	19373	5.173	ug/l	92
22) cis-1,2-Dichloroethene	7.483	96	11073	4.847	ug/l	98
23) tert-Butyl Alcohol	5.530	59	9753	30.011	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	25957	4.397	ug/l #	90
25) Chloroform	7.965	83	19651	5.122	ug/l	94
26) Cyclohexane	8.247	56	12257	4.285	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	11807	4.733	ug/l	98
30) 2-Butanone	7.483	43	28435	24.708	ug/l	100
31) 2,2-Dichloropropane	7.488	77	15547	5.105	ug/l #	90
32) 1,1,1-Trichloroethane	8.159	97	17431	5.143	ug/l #	85
33) Carbon Tetrachloride	8.359	117	15058	5.206	ug/l	92
34) Benzene	8.600	78	42762	5.186	ug/l #	88
35) Methacrylonitrile	7.777	41	6638	4.867	ug/l	87
36) 1,2-Dichloroethane	8.671	62	14384	5.245	ug/l #	95
37) Trichloroethene	9.347	130	9396m	5.051	ug/l	
38) Methylcyclohexane	9.600	83	11830	4.405	ug/l	97
39) 1,2-Dichloropropane	9.624	63	10243	5.160	ug/l	91
40) Dibromomethane	9.706	93	7103	5.115	ug/l	98
41) Bromodichloromethane	9.888	83	15629	5.250	ug/l	99
42) Vinyl Acetate	6.600	43	95572	22.218	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084613.D
 Acq On : 31 Oct 2024 12:08
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/01/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:19:55 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Nov 01 02:19:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	11619	4.747	ug/l	97
44) Isopropyl Acetate	8.682	43	34520	7.050	ug/l #	82
45) 1,4-Dioxane	9.700	88	3084	94.340	ug/l	96
46) Methyl methacrylate	9.677	41	9158	4.654	ug/l	95
47) n-amyl Acetate	12.494	43	15131	4.138	ug/l	96
48) t-1,3-Dichloropropene	10.829	75	14040	4.776	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	14763	4.686	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	9392	5.042	ug/l #	89
51) Ethyl methacrylate	10.871	69	12033	4.191	ug/l	92
52) 1,3-Dichloropropane	11.165	76	16055	4.966	ug/l	98
53) Dibromochloromethane	11.359	129	10423	4.782	ug/l	97
54) 1,2-Dibromoethane	11.471	107	9233	4.901	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	28637	20.343	ug/l	99
56) Bromoform	12.576	173	7007	4.796	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	56166	23.910	ug/l	99
59) 2-Hexanone	11.194	43	40278	23.416	ug/l	95
61) Tetrachloroethene	11.106	164	7756	4.977	ug/l	96
62) Toluene	10.629	91	42993	5.069	ug/l	99
64) Chlorobenzene	11.888	112	25563	4.993	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.959	131	9514	5.056	ug/l	93
66) Ethyl Benzene	11.959	91	39603	4.443	ug/l	98
67) m/p-Xylenes	12.070	106	30521	8.944	ug/l	91
68) o-Xylene	12.394	106	14127	4.292	ug/l	97
69) Styrene	12.412	104	22620	4.099	ug/l	99
70) Isopropylbenzene	12.694	105	34923	4.271	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	13765	5.194	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	11412m	4.514	ug/l	
73) Bromobenzene	12.976	156	10078	4.779	ug/l	92
74) n-propylbenzene	13.035	91	39598	4.141	ug/l	97
75) 2-Chlorotoluene	13.123	91	28696	4.609	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	29615	4.239	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	3762	4.053	ug/l	93
78) 4-Chlorotoluene	13.217	91	28573	4.542	ug/l	98
79) tert-butylbenzene	13.441	119	23495	4.067	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	28024	3.976	ug/l	100
81) sec-Butylbenzene	13.612	105	32017	4.022	ug/l	99
82) p-Isopropyltoluene	13.729	119	25380	3.794	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	18270	4.684	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	18085	4.693	ug/l	93
85) n-Butylbenzene	14.053	91	21135	3.762	ug/l	99
86) Hexachloroethane	14.335	117	6782	4.957	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	17958	4.672	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.717	75	2451	4.793	ug/l	90
89) 1,2,4-Trichlorobenzene	15.835	180	7643	4.084	ug/l	98
90) Hexachlorobutadiene	15.500	225	3978	4.866	ug/l	96
91) Naphthalene	15.641	128	20829	3.485	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	7643	4.084	ug/l	98

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

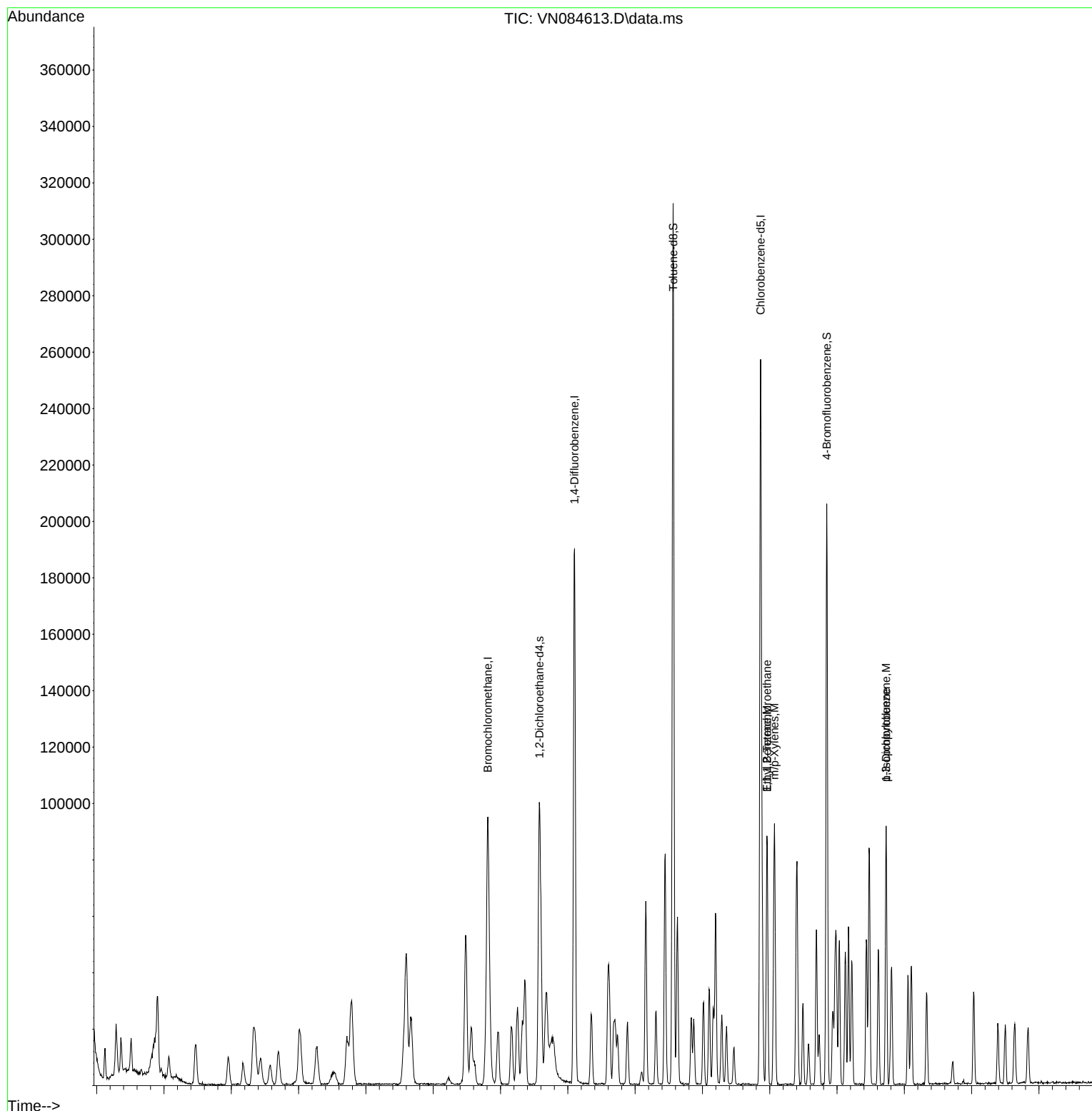
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Data File : VN084613.D
Acq On : 31 Oct 2024 12:08
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/01/2024
Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:19:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084614.D
 Acq On : 31 Oct 2024 12:32
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Nov 01 02:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

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

Internal Standards						
1) Bromochloromethane	7.806	128	31274	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	172181	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	154107	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	77335	30.759	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.533%			
60) 4-Bromofluorobenzene	12.847	95	77916	29.364	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.867%			
63) Toluene-d8	10.565	98	222235	30.462	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.533%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.118	85	38402	21.112	ug/l	100
3) Chloromethane	2.359	50	45455	20.756	ug/l	100
4) Vinyl Chloride	2.512	62	42937	21.114	ug/l	100
5) Bromomethane	2.901	94	22663	21.957	ug/l	100
6) Chloroethane	3.059	64	28033	20.742	ug/l	100
7) Trichlorofluoromethane	3.465	101	70369	21.307	ug/l	100
8) Diethyl Ether	3.953	74	24291	20.620	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	40406	21.649	ug/l	100
10) 1,1-Dichloroethene	4.324	96	38356	21.045	ug/l	100
11) Methyl Iodide	4.583	142	52273	20.867	ug/l	100
12) Methyl Acetate	5.018	43	56085	19.721	ug/l	100
13) Acrolein	4.177	56	36444	104.025	ug/l	100
14) Acrylonitrile	5.718	53	93989	101.129	ug/l	100
15) Acetone	4.430	58	24469	102.461	ug/l	100
16) Carbon Disulfide	4.695	76	112057	20.895	ug/l	100
17) Allyl chloride	5.006	41	64662	21.027	ug/l	100
18) Methylene Chloride	5.265	84	46076	21.573	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	39708	20.785	ug/l	100
20) Diisopropyl ether	6.671	45	130988	21.069	ug/l	100
21) 1,1-Dichloroethane	6.559	63	79269	21.202	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	46637	20.448	ug/l	100
23) tert-Butyl Alcohol	5.542	59	32351m	99.706	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	121117	20.549	ug/l	100
25) Chloroform	7.965	83	81615	21.306	ug/l	100
26) Cyclohexane	8.247	56	58646	20.535	ug/l	100
29) 1,1-Dichloropropene	8.365	75	53609	20.671	ug/l	100
30) 2-Butanone	7.483	43	118837	99.338	ug/l	100
31) 2,2-Dichloropropane	7.489	77	66980	21.158	ug/l	100
32) 1,1,1-Trichloroethane	8.159	97	74085	21.027	ug/l	100
33) Carbon Tetrachloride	8.359	117	61528	20.465	ug/l	100
34) Benzene	8.600	78	175051	20.421	ug/l	100
35) Methacrylonitrile	7.777	41	28223	19.906	ug/l	100
36) 1,2-Dichloroethane	8.665	62	59810	20.981	ug/l	100
37) Trichloroethene	9.347	130	40135	20.754	ug/l	100
38) Methylcyclohexane	9.600	83	54992	19.697	ug/l	100
39) 1,2-Dichloropropane	9.618	63	42682	20.684	ug/l	100
40) Dibromomethane	9.706	93	30074	20.833	ug/l	100
41) Bromodichloromethane	9.882	83	62781	20.287	ug/l	100
42) Vinyl Acetate	6.600	43	448664	100.337	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084614.D
 Acq On : 31 Oct 2024 12:32
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	49217	19.343	ug/l	98
44) Isopropyl Acetate	8.688	43	96864	19.030	ug/l	100
45) 1,4-Dioxane	9.694	88	13694	402.979	ug/l	100
46) Methyl methacrylate	9.682	41	40026	19.568	ug/l	100
47) n-amyl Acetate	12.494	43	76604	20.151	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	60713	19.868	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	66524	20.312	ug/l	100
50) 1,1,2-Trichloroethane	11.018	97	40510	20.921	ug/l	100
51) Ethyl methacrylate	10.877	69	57722	19.339	ug/l	100
52) 1,3-Dichloropropane	11.165	76	70002	20.827	ug/l	100
53) Dibromochloromethane	11.359	129	45946	20.276	ug/l	100
54) 1,2-Dibromoethane	11.465	107	40970	20.920	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	152772	104.401	ug/l	100
56) Bromoform	12.576	173	30104	19.820	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	251499	103.446	ug/l	100
59) 2-Hexanone	11.194	43	182123	102.300	ug/l	100
61) Tetrachloroethene	11.100	164	33984	21.071	ug/l	100
62) Toluene	10.630	91	182960	20.845	ug/l	100
64) Chlorobenzene	11.888	112	110008	20.761	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	40878	20.991	ug/l	100
66) Ethyl Benzene	11.965	91	187374	20.313	ug/l	100
67) m/p-Xylenes	12.071	106	145866	41.303	ug/l	100
68) o-Xylene	12.400	106	70893	20.810	ug/l	100
69) Styrene	12.412	104	116660	20.424	ug/l	100
70) Isopropylbenzene	12.694	105	171676	20.286	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	58304	21.256	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	54117m	20.681	ug/l	
73) Bromobenzene	12.976	156	45364	20.784	ug/l	100
74) n-propylbenzene	13.035	91	200691	20.280	ug/l	100
75) 2-Chlorotoluene	13.123	91	132203	20.515	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	147751	20.434	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	19637	20.442	ug/l	100
78) 4-Chlorotoluene	13.218	91	133430	20.493	ug/l	100
79) tert-butylbenzene	13.435	119	117804	19.701	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	148836	20.404	ug/l	100
81) sec-Butylbenzene	13.612	105	164903	20.014	ug/l	100
82) p-Isopropyltoluene	13.729	119	137483	19.858	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	83438	20.670	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	80500	20.182	ug/l	100
85) n-Butylbenzene	14.053	91	109807	18.885	ug/l	100
86) Hexachloroethane	14.329	117	29191	20.617	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	84342	21.203	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11061	20.899	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	39326	20.305	ug/l	100
90) Hexachlorobutadiene	15.500	225	17295	20.443	ug/l	100
91) Naphthalene	15.641	128	115679	18.702	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	39326	20.305	ug/l	100

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

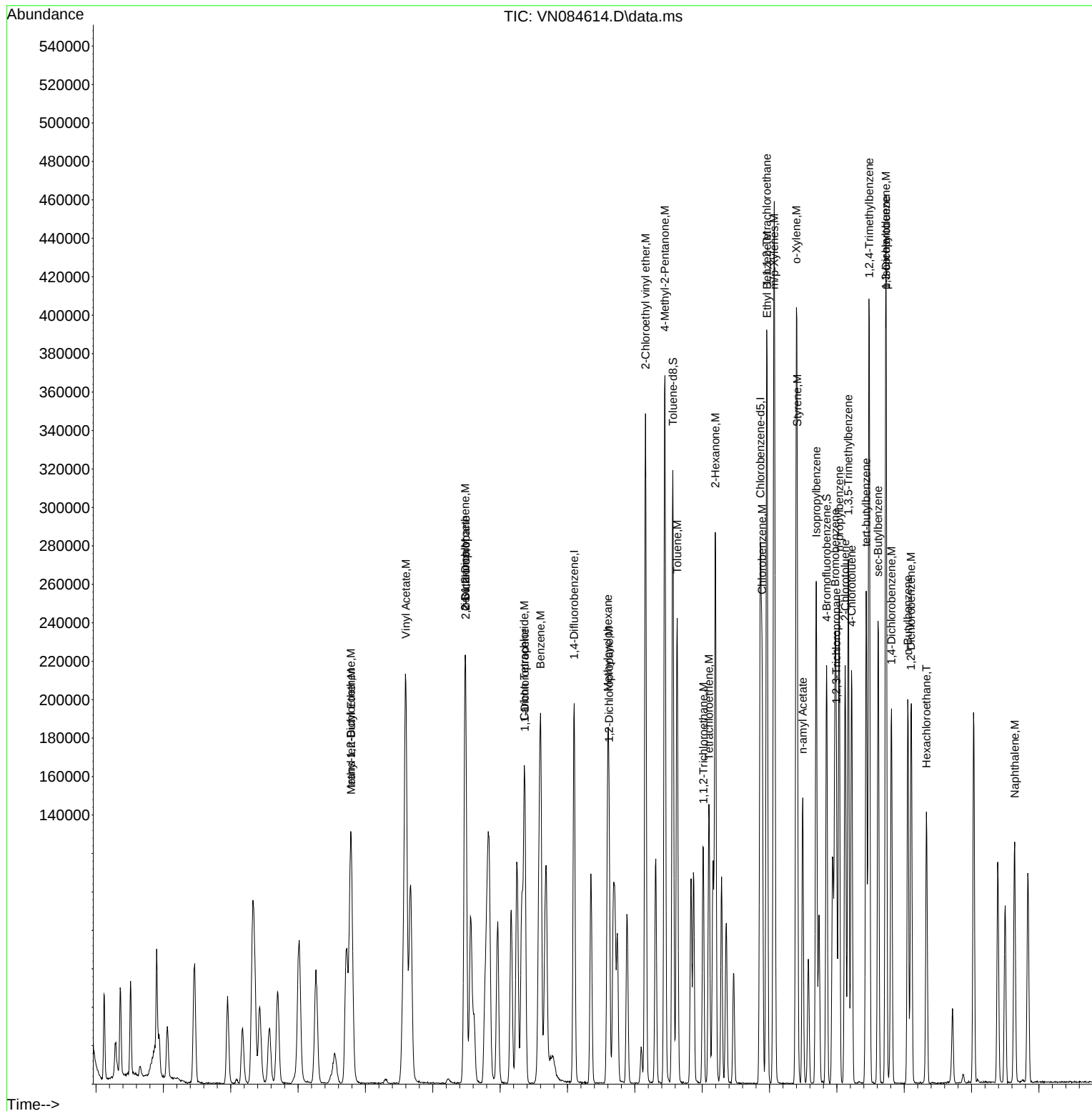
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Data File : VN084614.D
Acq On : 31 Oct 2024 12:32
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:21:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084615.D
 Acq On : 31 Oct 2024 12:56
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:22:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32918	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	176826	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	164720	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	78237	29.563	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.533%		
60) 4-Bromofluorobenzene	12.847	95	87434	30.828	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.767%		
63) Toluene-d8	10.565	98	233304	29.919	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.733%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	94735	49.481	ug/l	96
3) Chloromethane	2.359	50	109029	47.299	ug/l	98
4) Vinyl Chloride	2.512	62	106283	49.654	ug/l	97
5) Bromomethane	2.901	94	51725	47.610	ug/l	100
6) Chloroethane	3.077	64	71616m	50.344	ug/l	
7) Trichlorofluoromethane	3.471	101	169605	48.790	ug/l	97
8) Diethyl Ether	3.953	74	61891	49.913	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.359	101	97991	49.880	ug/l	99
10) 1,1-Dichloroethene	4.324	96	93892	48.943	ug/l	95
11) Methyl Iodide	4.583	142	130322	49.426	ug/l	100
12) Methyl Acetate	5.018	43	127594	42.624	ug/l	94
13) Acrolein	4.171	56	85754	232.550	ug/l	98
14) Acrylonitrile	5.712	53	243950	249.373	ug/l	99
15) Acetone	4.430	58	61279	243.784	ug/l	91
16) Carbon Disulfide	4.700	76	275193	48.752	ug/l	99
17) Allyl chloride	5.012	41	152844	47.220	ug/l	98
18) Methylene Chloride	5.265	84	108652	48.332	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	99291	49.378	ug/l	91
20) Diisopropyl ether	6.671	45	332986	50.885	ug/l	98
21) 1,1-Dichloroethane	6.565	63	190325	48.363	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	119146	49.630	ug/l	94
23) tert-Butyl Alcohol	5.542	59	75243	220.317	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	308206	49.680	ug/l	99
25) Chloroform	7.959	83	197402	48.959	ug/l	94
26) Cyclohexane	8.253	56	153309	51.000	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	133196	50.010	ug/l	100
30) 2-Butanone	7.477	43	305143	248.373	ug/l	99
31) 2,2-Dichloropropane	7.483	77	161607	49.708	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	178128	49.229	ug/l	99
33) Carbon Tetrachloride	8.359	117	152324	49.334	ug/l	98
34) Benzene	8.600	78	434965	49.409	ug/l	97
35) Methacrylonitrile	7.777	41	69021	47.401	ug/l	97
36) 1,2-Dichloroethane	8.665	62	143921	49.161	ug/l	100
37) Trichloroethene	9.353	130	97539	49.114	ug/l	99
38) Methylcyclohexane	9.600	83	145824	50.859	ug/l	98
39) 1,2-Dichloropropane	9.618	63	103300	48.746	ug/l	97
40) Dibromomethane	9.706	93	72848	49.139	ug/l	99
41) Bromodichloromethane	9.882	83	154994	48.769	ug/l	99
42) Vinyl Acetate	6.600	43	1161725	252.978	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084615.D
 Acq On : 31 Oct 2024 12:56
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:22:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	131344	50.265	ug/l	98
44) Isopropyl Acetate	8.688	43	231400	44.267	ug/l	98
45) 1,4-Dioxane	9.694	88	33980	973.675	ug/l #	89
46) Methyl methacrylate	9.677	41	104945	49.957	ug/l	96
47) n-amyl Acetate	12.494	43	202564	51.886	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	157614	50.224	ug/l	95
49) cis-1,3-Dichloropropene	10.312	75	167077	49.675	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	98990	49.780	ug/l	96
51) Ethyl methacrylate	10.871	69	158738	51.786	ug/l	96
52) 1,3-Dichloropropane	11.159	76	172748	50.047	ug/l	99
53) Dibromochloromethane	11.359	129	118100	50.750	ug/l	97
54) 1,2-Dibromoethane	11.465	107	99236	49.341	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	395250	263.010	ug/l	99
56) Bromoform	12.576	173	79210	50.781	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	647306	249.093	ug/l	98
59) 2-Hexanone	11.194	43	478961	251.701	ug/l	99
61) Tetrachloroethene	11.100	164	85090	49.359	ug/l	98
62) Toluene	10.629	91	459711	49.000	ug/l	99
64) Chlorobenzene	11.888	112	279544	49.357	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	104199	50.060	ug/l	98
66) Ethyl Benzene	11.965	91	502126	50.927	ug/l	94
67) m/p-Xylenes	12.071	106	387469	102.646	ug/l	98
68) o-Xylene	12.394	106	187021	51.361	ug/l	98
69) Styrene	12.412	104	323595	53.002	ug/l	98
70) Isopropylbenzene	12.694	105	470823	52.050	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	145223	49.532	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	117853m	42.135	ug/l	
73) Bromobenzene	12.976	156	116686	50.015	ug/l	97
74) n-propylbenzene	13.035	91	557232	52.681	ug/l	99
75) 2-Chlorotoluene	13.123	91	356739	51.790	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	406282	52.568	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	53054	51.671	ug/l	86
78) 4-Chlorotoluene	13.218	91	357227	51.329	ug/l	100
79) tert-butylbenzene	13.435	119	331066	51.799	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	415493	53.289	ug/l	98
81) sec-Butylbenzene	13.618	105	464362	52.727	ug/l	100
82) p-Isopropyltoluene	13.729	119	396709	53.609	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	217624	50.438	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	216965	50.890	ug/l	97
85) n-Butylbenzene	14.053	91	325553	52.381	ug/l	99
86) Hexachloroethane	14.329	117	75612	49.961	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	215946	50.790	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	28965	51.201	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	104664	50.558	ug/l	96
90) Hexachlorobutadiene	15.494	225	44832	49.577	ug/l	95
91) Naphthalene	15.641	128	349297	52.834	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	104664	50.558	ug/l	96

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

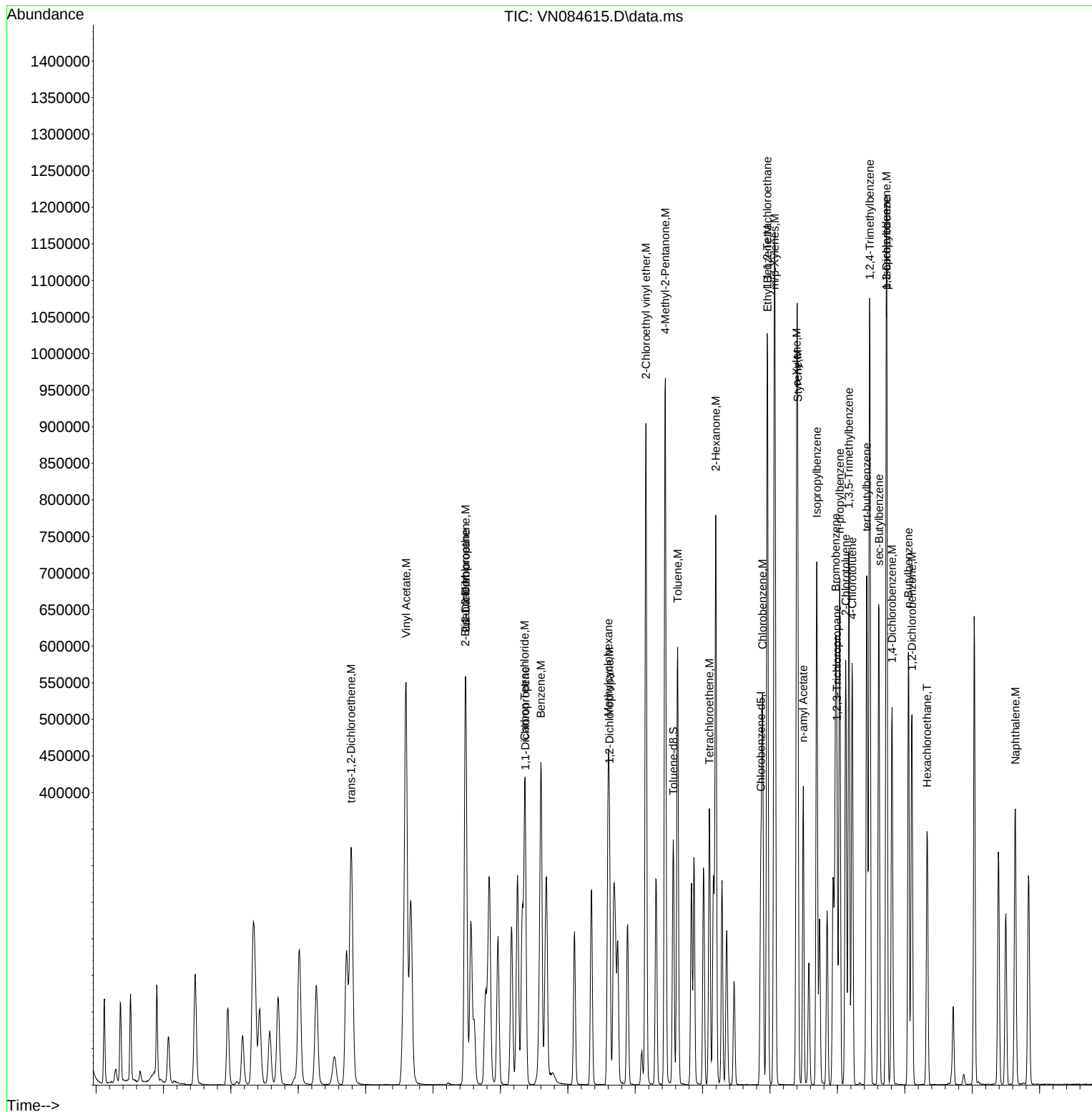
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084615.D
Acq On : 31 Oct 2024 12:56
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084616.D
 Acq On : 31 Oct 2024 13:20
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Nov 01 02:23:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	34742	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	185533	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	172801	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	81745	29.267	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.567%		
60) 4-Bromofluorobenzene	12.847	95	92972	31.247	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	104.167%		
63) Toluene-d8	10.565	98	240739	29.429	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.100%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.118	85	190784	94.416	ug/l	96
3) Chloromethane	2.359	50	224931	92.457	ug/l	96
4) Vinyl Chloride	2.512	62	213170	94.361	ug/l	96
5) Bromomethane	2.901	94	107304	93.582	ug/l	99
6) Chloroethane	3.059	64	134554	89.622	ug/l	91
7) Trichlorofluoromethane	3.465	101	344065	93.780	ug/l	96
8) Diethyl Ether	3.953	74	132542	101.279	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.348	101	193932	93.533	ug/l	100
10) 1,1-Dichloroethene	4.324	96	196748	97.174	ug/l	96
11) Methyl Iodide	4.577	142	268385	96.444	ug/l	93
12) Methyl Acetate	5.024	43	266611	84.389	ug/l	98
13) Acrolein	4.171	56	188911	485.398	ug/l	99
14) Acrylonitrile	5.712	53	516678	500.435	ug/l	98
15) Acetone	4.424	58	129317	487.448	ug/l	84
16) Carbon Disulfide	4.700	76	573917	96.334	ug/l	97
17) Allyl chloride	5.006	41	345769	101.215	ug/l	96
18) Methylene Chloride	5.271	84	223525	94.210	ug/l	99
19) trans-1,2-Dichloroethene	5.777	96	205660	96.906	ug/l	91
20) Diisopropyl ether	6.671	45	688942	99.753	ug/l	96
21) 1,1-Dichloroethane	6.565	63	395669	95.263	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	247895	97.839	ug/l	95
23) tert-Butyl Alcohol	5.547	59	164832	457.302	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	668387	102.082	ug/l	98
25) Chloroform	7.965	83	401691	94.396	ug/l	99
26) Cyclohexane	8.253	56	319727	100.777	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	279360	99.967	ug/l	99
30) 2-Butanone	7.483	43	647906	502.619	ug/l	99
31) 2,2-Dichloropropane	7.488	77	326433	95.693	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	366838	96.624	ug/l	99
33) Carbon Tetrachloride	8.359	117	311893	96.275	ug/l	99
34) Benzene	8.600	78	902770	97.735	ug/l	95
35) Methacrylonitrile	7.777	41	158460	103.718	ug/l	97
36) 1,2-Dichloroethane	8.665	62	289900	94.377	ug/l	99
37) Trichloroethene	9.347	130	201181	96.547	ug/l	94
38) Methylcyclohexane	9.600	83	311539	103.557	ug/l	97
39) 1,2-Dichloropropane	9.618	63	215746	97.029	ug/l	92
40) Dibromomethane	9.706	93	151914	97.663	ug/l	99
41) Bromodichloromethane	9.888	83	325039	97.474	ug/l	99
42) Vinyl Acetate	6.600	43	2500453	518.946	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084616.D
 Acq On : 31 Oct 2024 13:20
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:23:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	274207	100.013	ug/l	98
44) Isopropyl Acetate	8.688	43	478812	87.298	ug/l	96
45) 1,4-Dioxane	9.694	88	75558	2063.461	ug/l	96
46) Methyl methacrylate	9.682	41	228239	103.551	ug/l	94
47) n-amyl Acetate	12.494	43	436801	106.634	ug/l	96
48) t-1,3-Dichloropropene	10.835	75	332996	101.131	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	358906	101.702	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	204253	97.894	ug/l	98
51) Ethyl methacrylate	10.871	69	346376	107.698	ug/l	96
52) 1,3-Dichloropropane	11.159	76	357116	98.605	ug/l	99
53) Dibromochloromethane	11.359	129	245721	100.636	ug/l	97
54) 1,2-Dibromoethane	11.471	107	209631	99.338	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	822490	521.622	ug/l	99
56) Bromoform	12.576	173	167239	102.184	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	1367142	501.494	ug/l	99
59) 2-Hexanone	11.194	43	1018919	510.417	ug/l	98
61) Tetrachloroethene	11.100	164	175966	97.300	ug/l	99
62) Toluene	10.629	91	954854	97.017	ug/l	98
64) Chlorobenzene	11.888	112	582322	98.008	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	211092	96.671	ug/l	99
66) Ethyl Benzene	11.965	91	1057324	102.222	ug/l	97
67) m/p-Xylenes	12.071	106	800698	202.196	ug/l	99
68) o-Xylene	12.394	106	393457	103.001	ug/l	98
69) Styrene	12.412	104	664652	103.773	ug/l	99
70) Isopropylbenzene	12.694	105	974870	102.732	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	293813	95.526	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	247347m	84.297	ug/l	
73) Bromobenzene	12.976	156	245959	100.496	ug/l	98
74) n-propylbenzene	13.035	91	1143491	103.052	ug/l	99
75) 2-Chlorotoluene	13.123	91	722984	100.052	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	830495	102.432	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	112802	104.723	ug/l	91
78) 4-Chlorotoluene	13.223	91	737525	101.018	ug/l	99
79) tert-butylbenzene	13.435	119	716107	106.804	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	860667	105.223	ug/l	99
81) sec-Butylbenzene	13.617	105	973025	105.317	ug/l	100
82) p-Isopropyltoluene	13.729	119	827966	106.655	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	453157	100.115	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	448828	100.351	ug/l	99
85) n-Butylbenzene	14.053	91	712477	109.276	ug/l	99
86) Hexachloroethane	14.329	117	152797	96.241	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	438040	98.208	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	56385	95.009	ug/l	91
89) 1,2,4-Trichlorobenzene	15.835	180	224355	103.306	ug/l	96
90) Hexachlorobutadiene	15.500	225	90825	95.741	ug/l	95
91) Naphthalene	15.635	128	770611	111.109	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	224355	103.306	ug/l	96

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

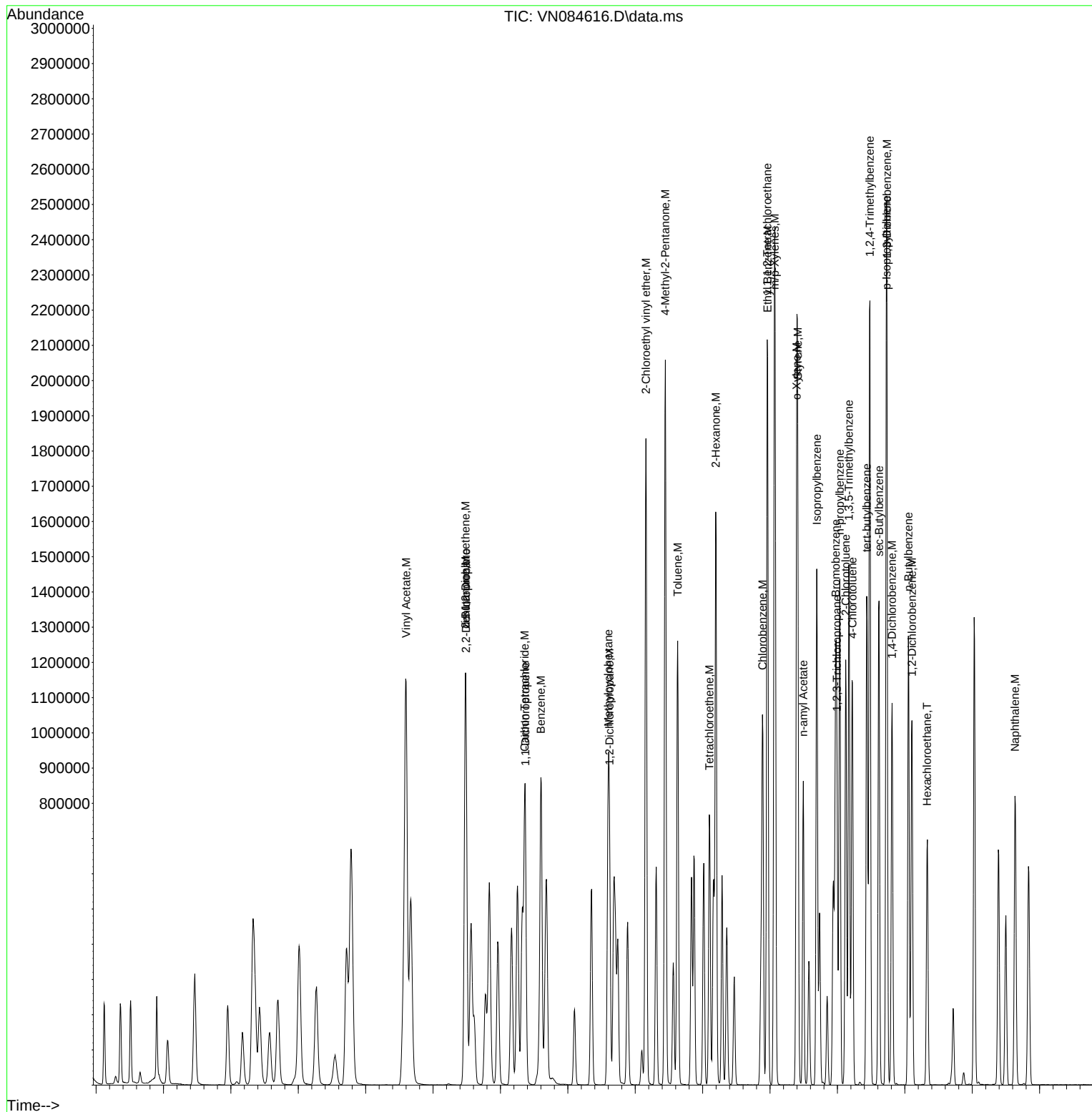
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Data File : VN084616.D  
Acq On    : 31 Oct 2024  13:20  
Operator  : JC\MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 1      Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:23:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084617.D
 Acq On : 31 Oct 2024 13:44
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Nov 01 02:24:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	34315	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	189928	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	174515	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	82785	30.008	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.033%			
60) 4-Bromofluorobenzene	12.847	95	91818	30.557	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.867%			
63) Toluene-d8	10.565	98	244038	29.539	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.467%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	299645	150.135	ug/l	94
3) Chloromethane	2.359	50	360263	149.927	ug/l	100
4) Vinyl Chloride	2.512	62	330947	148.318	ug/l	95
5) Bromomethane	2.900	94	166205	146.755	ug/l	99
6) Chloroethane	3.053	64	211245	142.454	ug/l	90
7) Trichlorofluoromethane	3.459	101	537825	148.417	ug/l	99
8) Diethyl Ether	3.953	74	208008	160.923	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.347	101	304904	148.885	ug/l	100
10) 1,1-Dichloroethene	4.324	96	309990	155.009	ug/l	93
11) Methyl Iodide	4.577	142	418106	152.116	ug/l	93
12) Methyl Acetate	5.018	43	413207	132.418	ug/l	97
13) Acrolein	4.171	56	297469	773.843	ug/l	98
14) Acrylonitrile	5.718	53	803457	787.881	ug/l	98
15) Acetone	4.424	58	199728	762.223	ug/l	94
16) Carbon Disulfide	4.694	76	898255	152.651	ug/l	98
17) Allyl chloride	5.012	41	542863	160.886	ug/l	96
18) Methylene Chloride	5.265	84	343819	146.714	ug/l	95
19) trans-1,2-Dichloroethene	5.777	96	318103	151.754	ug/l	89
20) Diisopropyl ether	6.671	45	1072240	157.183	ug/l	98
21) 1,1-Dichloroethane	6.559	63	606359	147.807	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	389337	155.576	ug/l	94
23) tert-Butyl Alcohol	5.553	59	268783	754.978	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	1046401	161.805	ug/l	98
25) Chloroform	7.965	83	622385	148.078	ug/l	96
26) Cyclohexane	8.253	56	511647	163.276	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	437707	153.006	ug/l	100
30) 2-Butanone	7.482	43	1009048	764.664	ug/l	98
31) 2,2-Dichloropropane	7.488	77	508098	145.502	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	565049	145.389	ug/l	99
33) Carbon Tetrachloride	8.359	117	490498	147.903	ug/l	98
34) Benzene	8.600	78	1384757	146.447	ug/l	96
35) Methacrylonitrile	7.777	41	245428	156.925	ug/l	99
36) 1,2-Dichloroethane	8.665	62	459837	146.236	ug/l	99
37) Trichloroethene	9.347	130	321371	150.657	ug/l	93
38) Methylcyclohexane	9.600	83	499572	162.217	ug/l	97
39) 1,2-Dichloropropane	9.618	63	337522	148.284	ug/l	96
40) Dibromomethane	9.706	93	233108	146.393	ug/l	99
41) Bromodichloromethane	9.888	83	504647	147.833	ug/l	98
42) Vinyl Acetate	6.600	43	3914346	793.588	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084617.D
 Acq On : 31 Oct 2024 13:44
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:24:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	428446	152.653	ug/l	97
44) Isopropyl Acetate	8.688	43	741325	132.033	ug/l	96
45) 1,4-Dioxane	9.700	88	117373	3131.238	ug/l	96
46) Methyl methacrylate	9.682	41	357456	158.423	ug/l	98
47) n-amyl Acetate	12.494	43	667282	159.131	ug/l	94
48) t-1,3-Dichloropropene	10.835	75	523588	155.334	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	561762	155.501	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	311081	145.645	ug/l	95
51) Ethyl methacrylate	10.876	69	534438	162.326	ug/l	96
52) 1,3-Dichloropropane	11.165	76	544181	146.779	ug/l	99
53) Dibromochloromethane	11.359	129	378123	151.277	ug/l	98
54) 1,2-Dibromoethane	11.470	107	321983	149.047	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	1267478	785.232	ug/l	99
56) Bromoform	12.576	173	254436	151.864	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	2085089	757.339	ug/l	98
59) 2-Hexanone	11.200	43	1531300	759.555	ug/l	98
61) Tetrachloroethene	11.100	164	271458	148.628	ug/l	98
62) Toluene	10.629	91	1481581	149.056	ug/l	98
64) Chlorobenzene	11.888	112	896579	149.418	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	321277	145.687	ug/l	100
66) Ethyl Benzene	11.965	91	1652923	158.236	ug/l	96
67) m/p-Xylenes	12.070	106	1242416	310.660	ug/l	100
68) o-Xylene	12.400	106	604062	156.582	ug/l	98
69) Styrene	12.412	104	1029762	159.199	ug/l	99
70) Isopropylbenzene	12.694	105	1528377	159.480	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	443836	142.885	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	379116m	127.935	ug/l	
73) Bromobenzene	12.982	156	370688	149.971	ug/l	97
74) n-propylbenzene	13.035	91	1804610	161.034	ug/l	99
75) 2-Chlorotoluene	13.123	91	1112415	152.433	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	1295565	158.223	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	177307	162.992	ug/l	90
78) 4-Chlorotoluene	13.223	91	1139441	154.535	ug/l	100
79) tert-butylbenzene	13.435	119	1114831	164.638	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	1321571	159.986	ug/l	98
81) sec-Butylbenzene	13.617	105	1521726	163.089	ug/l	100
82) p-Isopropyltoluene	13.729	119	1304826	166.431	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	699236	152.963	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	698605	154.663	ug/l	99
85) n-Butylbenzene	14.053	91	1148718	174.453	ug/l	99
86) Hexachloroethane	14.335	117	244372	152.408	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	680730	151.120	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	91914	153.355	ug/l	92
89) 1,2,4-Trichlorobenzene	15.841	180	369695	168.557	ug/l	96
90) Hexachlorobutadiene	15.500	225	151702	158.343	ug/l	94
91) Naphthalene	15.641	128	1260875	180.011	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	369695	168.557	ug/l	96

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

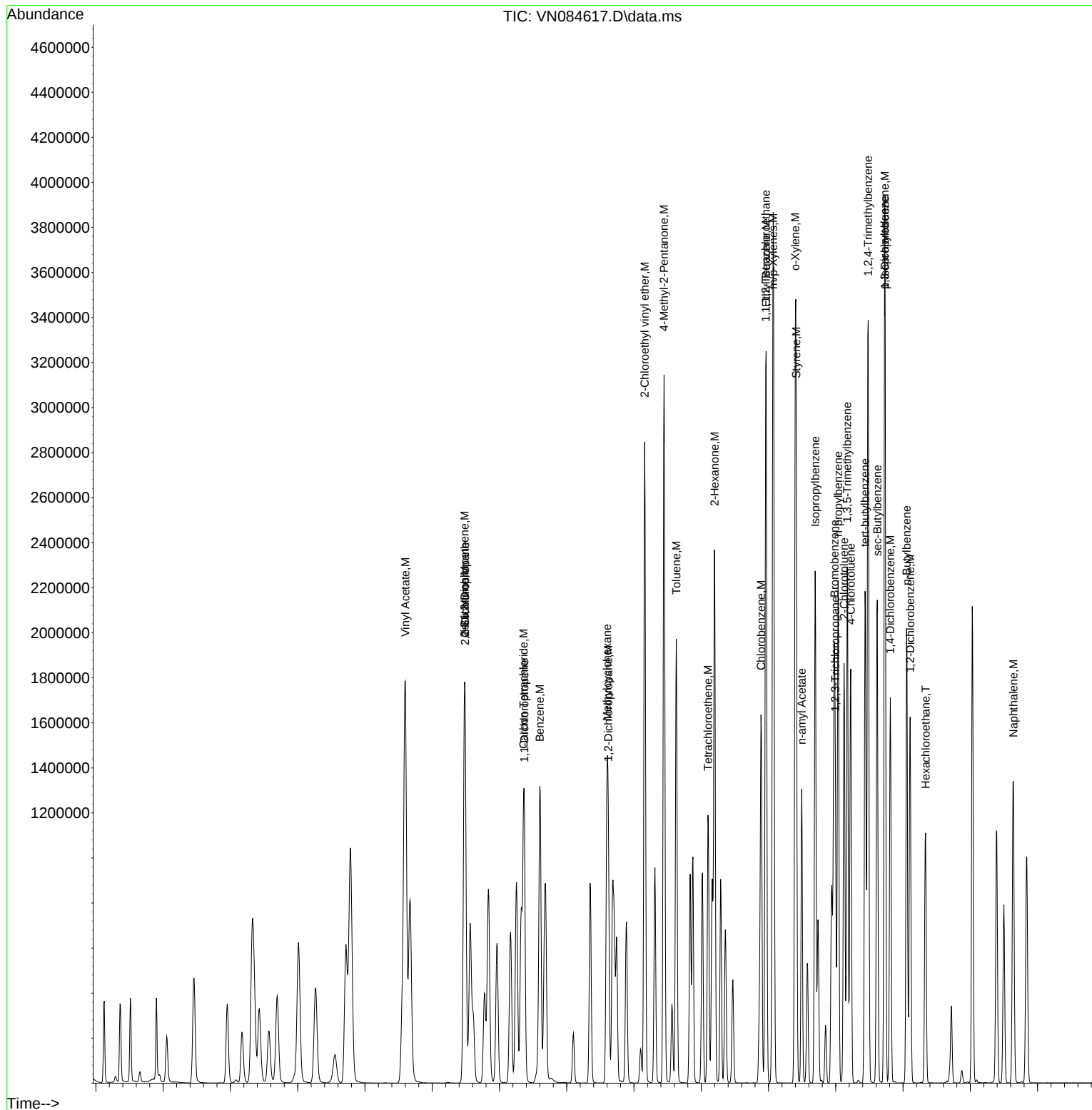
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084617.D
Acq On : 31 Oct 2024 13:44
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:24:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN103124

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:42:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	33219	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	181690	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	170699	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	78518	29.401	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.000%		
60) 4-Bromofluorobenzene	12.847	95	87996	29.939	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.800%		
63) Toluene-d8	10.565	98	235463	29.138	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.133%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	39007	20.189	ug/l	96
3) Chloromethane	2.359	50	45924	19.742	ug/l	96
4) Vinyl Chloride	2.512	62	43634	20.200	ug/l	96
5) Bromomethane	2.900	94	21634	19.733	ug/l	100
6) Chloroethane	3.077	64	27349	19.284	ug/l #	89
7) Trichlorofluoromethane	3.471	101	70373	20.061	ug/l	100
8) Diethyl Ether	3.953	74	26411	21.107	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.353	101	41161	20.762	ug/l	98
10) 1,1-Dichloroethene	4.330	96	38591	19.934	ug/l	94
11) Methyl Iodide	4.577	142	52797	19.843	ug/l	92
12) Methyl Acetate	5.018	43	54572	18.084	ug/l	98
13) Acrolein	4.171	56	36257	97.432	ug/l	97
14) Acrylonitrile	5.718	53	99433	100.722	ug/l	97
15) Acetone	4.430	58	26069	102.773	ug/l	95
16) Carbon Disulfide	4.700	76	112949	19.828	ug/l	98
17) Allyl chloride	5.012	41	62388	18.913	ug/l	93
18) Methylene Chloride	5.265	84	43401	19.131	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	39248	19.342	ug/l	94
20) Diisopropyl ether	6.665	45	129663	19.635	ug/l	97
21) 1,1-Dichloroethane	6.565	63	76784	19.334	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	46989	19.396	ug/l	97
23) tert-Butyl Alcohol	5.541	59	37052	107.508	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	122468	19.562	ug/l	100
25) Chloroform	7.965	83	79286	19.486	ug/l	97
26) Cyclohexane	8.253	56	62127	20.480	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	53477	19.541	ug/l	99
30) 2-Butanone	7.482	43	126487	100.199	ug/l	100
31) 2,2-Dichloropropane	7.488	77	66622	19.943	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	71786	19.308	ug/l	99
33) Carbon Tetrachloride	8.365	117	62252	19.622	ug/l	94
34) Benzene	8.606	78	173675	19.200	ug/l #	95
35) Methacrylonitrile	7.777	41	29897	19.983	ug/l	98
36) 1,2-Dichloroethane	8.671	62	57389	19.078	ug/l	99
37) Trichloroethene	9.353	130	40639	19.915	ug/l	85
38) Methylcyclohexane	9.600	83	57621	19.559	ug/l	97
39) 1,2-Dichloropropane	9.623	63	41855	19.222	ug/l	90
40) Dibromomethane	9.706	93	29763	19.539	ug/l	97
41) Bromodichloromethane	9.882	83	63336	19.395	ug/l	94
42) Vinyl Acetate	6.600	43	471501	99.926	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN103124

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:42:26 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Nov 01 02:38:04 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	52600	19.830	ug/l	96
44) Isopropyl Acetate	8.688	43	98265	18.295	ug/l	100
45) 1,4-Dioxane	9.694	88	14685	409.524	ug/l	94
46) Methyl methacrylate	9.682	41	42350	19.620	ug/l	91
47) n-amyl Acetate	12.494	43	79469	19.811	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	63042	19.551	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	67490	19.529	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	40428	19.786	ug/l	92
51) Ethyl methacrylate	10.870	69	61356	19.481	ug/l	96
52) 1,3-Dichloropropane	11.165	76	68595	19.341	ug/l	98
53) Dibromochloromethane	11.359	129	47080	19.690	ug/l	98
54) 1,2-Dibromoethane	11.465	107	40000	19.356	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	158206	102.456	ug/l	99
56) Bromoform	12.582	173	31892	19.898	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	269754	100.170	ug/l	98
59) 2-Hexanone	11.194	43	196485	99.639	ug/l	99
61) Tetrachloroethene	11.100	164	34173	19.129	ug/l	94
62) Toluene	10.629	91	184150	18.941	ug/l	99
64) Chlorobenzene	11.894	112	114563	19.519	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	40847	18.937	ug/l	97
66) Ethyl Benzene	11.965	91	193657	18.953	ug/l	95
67) m/p-Xylenes	12.070	106	153096	39.137	ug/l	98
68) o-Xylene	12.400	106	73335	19.434	ug/l	95
69) Styrene	12.412	104	124645	19.701	ug/l	99
70) Isopropylbenzene	12.694	105	188026	20.058	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.935	83	58559	19.273	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	55357m	21.337	ug/l	
73) Bromobenzene	12.982	156	46221	19.118	ug/l	94
74) n-propylbenzene	13.035	91	217666	19.858	ug/l	100
75) 2-Chlorotoluene	13.123	91	141697	19.851	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	160297	20.014	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	20549	19.312	ug/l	95
78) 4-Chlorotoluene	13.217	91	141472	19.616	ug/l	99
79) tert-butylbenzene	13.441	119	134979	20.379	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	160493	19.863	ug/l	99
81) sec-Butylbenzene	13.617	105	179829	19.704	ug/l	100
82) p-Isopropyltoluene	13.729	119	148622	19.381	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	86431	19.330	ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	87143	19.724	ug/l	97
85) n-Butylbenzene	14.053	91	124802	19.377	ug/l	99
86) Hexachloroethane	14.335	117	30122	19.206	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	86578	19.650	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12268	20.926	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	43307	20.187	ug/l	98
90) Hexachlorobutadiene	15.500	225	19143	20.428	ug/l	96
91) Naphthalene	15.641	128	132615	19.356	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	43307	20.187	ug/l	98

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

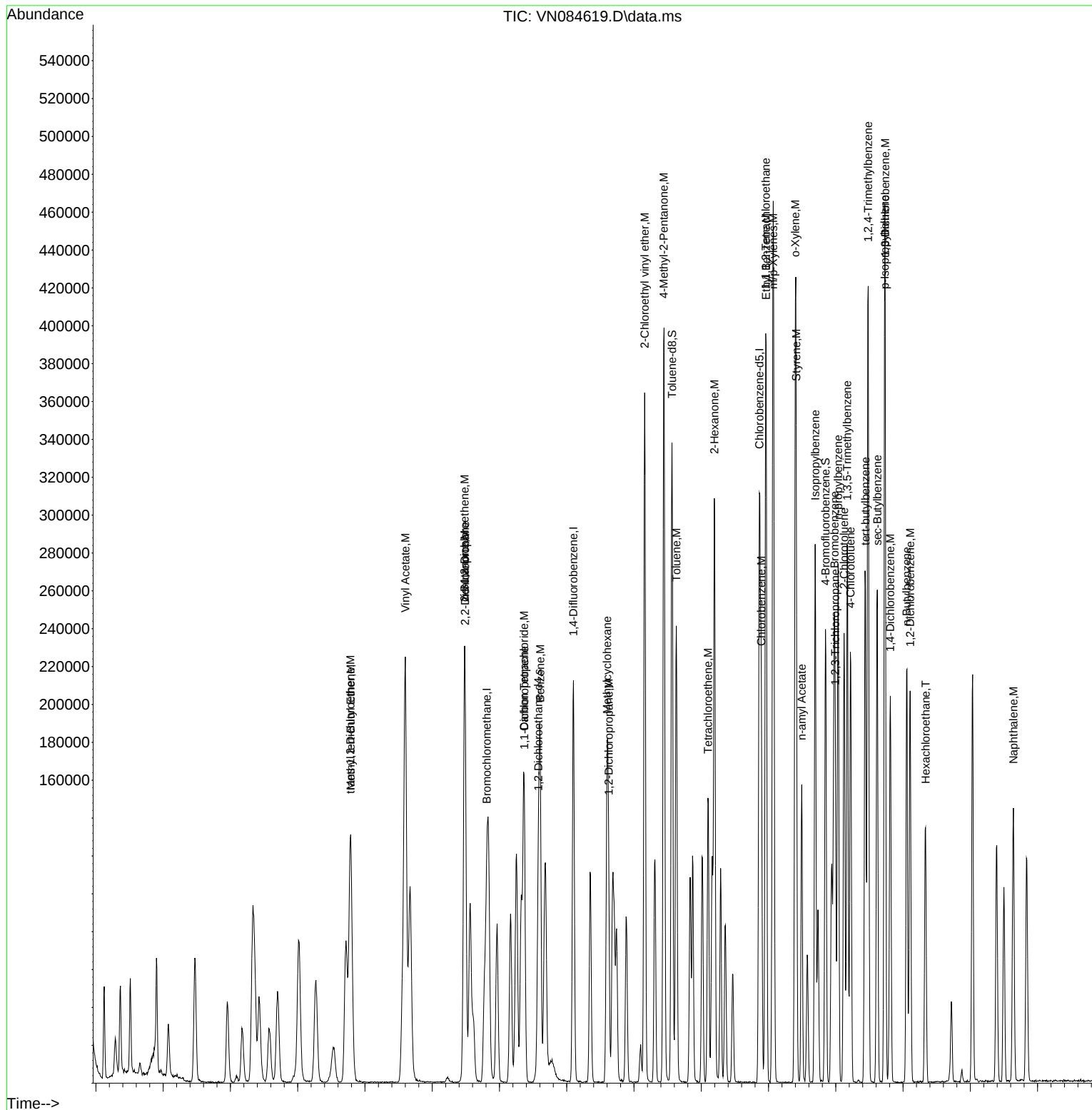
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084619.D
Acq On : 31 Oct 2024 14:42
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN103124

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:42:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103124

Quant Time: Nov 01 02:42:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 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	106	0.00
2 M	Dichlorodifluoromethane	1.745	1.761	-0.9	102	0.00
3 M	Chloromethane	2.101	2.074	1.3	101	0.00
4 M	Vinyl Chloride	1.951	1.970	-1.0	102	0.00
5 M	Bromomethane	0.990	0.977	1.3	95	0.00
6 M	Chloroethane	1.281	1.235	3.6	98	0.02
7 M	Trichlorofluoromethane	3.168	3.178	-0.3	100	0.00
8 T	Diethyl Ether	1.130	1.193	-5.6	109	0.00
9	1,1,2-Trichlorotrifluoroeth	1.790	1.859	-3.9	102	0.00
10 M	1,1-Dichloroethene	1.748	1.743	0.3	101	0.00
11	Methyl Iodide	2.403	2.384	0.8	101	0.00
12	Methyl Acetate	2.725	2.464	9.6	97	0.00
13 M	Acrolein	0.336	0.327	2.7	99	0.00
14 M	Acrylonitrile	0.892	0.898	-0.7	106	0.00
15 M	Acetone	0.229	0.235	-2.6	107	0.00
16 M	Carbon Disulfide	5.144	5.100	0.9	101	0.00
17	Allyl chloride	2.979	2.817	5.4	96	0.00
18 M	Methylene Chloride	2.049	1.960	4.3	94	0.00
19 M	trans-1,2-Dichloroethene	1.833	1.772	3.3	99	0.00
20 T	Diisopropyl ether	5.964	5.855	1.8	99	0.00
21 M	1,1-Dichloroethane	3.587	3.467	3.3	97	0.00
22 M	cis-1,2-Dichloroethene	2.188	2.122	3.0	101	0.00
23 M	tert-Butyl Alcohol	0.311	0.335	-7.7	115	0.00
24 M	Methyl tert-Butyl Ether	5.654	5.530	2.2	101	0.00
25 M	Chloroform	3.675	3.580	2.6	97	0.00
26	Cyclohexane	2.740	2.805	-2.4	106	0.00
27 s	1,2-Dichloroethane-d4	2.412	2.364	2.0	102	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	106	0.00
29	1,1-Dichloropropene	0.452	0.441	2.4	100	0.00
30 M	2-Butanone	0.208	0.209	-0.5	106	0.00
31	2,2-Dichloropropane	0.552	0.550	0.4	99	0.00
32 M	1,1,1-Trichloroethane	0.614	0.593	3.4	97	0.00
33 M	Carbon Tetrachloride	0.524	0.514	1.9	101	0.00
34 M	Benzene	1.494	1.434	4.0	99	0.00
35	Methacrylonitrile	0.247	0.247	0.0	106	0.00
36 M	1,2-Dichloroethane	0.497	0.474	4.6	96	0.00
37 M	Trichloroethene	0.337	0.336	0.3	101	0.00
38	Methylcyclohexane	0.486	0.476	2.1	105	0.00
39 M	1,2-Dichloropropane	0.360	0.346	3.9	98	0.00
40	Dibromomethane	0.252	0.246	2.4	99	0.00
41 M	Bromodichloromethane	0.539	0.523	3.0	101	0.00
42 M	Vinyl Acetate	0.779	0.779	0.0	105	0.00
43	Ethyl Acetate	0.438	0.434	0.9	107	0.00
44	Isopropyl Acetate	0.887	0.811	8.6	101	0.00
45 T	1,4-Dioxane	0.006	0.006	0.0	107	0.00
46	Methyl methacrylate	0.356	0.350	1.7	106	0.00
47	n-amyl Acetate	0.662	0.656	0.9	104	0.00
48 M	t-1,3-Dichloropropene	0.532	0.520	2.3	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103124

Quant Time: Nov 01 02:42:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 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	0.571	0.557	2.5	101	0.00
50 M	1,1,2-Trichloroethane	0.337	0.334	0.9	100	0.00
51	Ethyl methacrylate	0.520	0.507	2.5	106	0.00
52	1,3-Dichloropropane	0.586	0.566	3.4	98	0.00
53 M	Dibromochloromethane	0.395	0.389	1.5	102	0.00
54 M	1,2-Dibromoethane	0.341	0.330	3.2	98	0.00
55 M	2-Chloroethyl vinyl ether	0.255	0.261	-2.4	104	0.00
56 M	Bromoform	0.265	0.263	0.8	106	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00
58 M	4-Methyl-2-Pentanone	0.473	0.474	-0.2	107	0.00
59 M	2-Hexanone	0.347	0.345	0.6	108	0.00
60 S	4-Bromofluorobenzene	0.517	0.516	0.2	113	0.00
61 M	Tetrachloroethene	0.314	0.300	4.5	101	0.00
62 M	Toluene	1.709	1.618	5.3	101	0.00
63 S	Toluene-d8	1.420	1.379	2.9	106	0.00
64 M	Chlorobenzene	1.032	1.007	2.4	104	0.00
65	1,1,1,2-Tetrachloroethane	0.379	0.359	5.3	100	0.00
66 M	Ethyl Benzene	1.796	1.702	5.2	103	0.00
67 M	m/p-Xylenes	0.687	0.673	2.0	105	0.00
68 M	o-Xylene	0.663	0.644	2.9	103	0.00
69 M	Styrene	1.112	1.095	1.5	107	0.00
70	Isopropylbenzene	1.647	1.652	-0.3	110	0.00
71 M	1,1,2,2-Tetrachloroethane	0.534	0.515	3.6	100	0.00
72	1,2,3-Trichloropropane	0.456	0.486	-6.6	102	0.00
73	Bromobenzene	0.425	0.406	4.5	102	0.00
74	n-propylbenzene	1.926	1.913	0.7	108	0.00
75	2-Chlorotoluene	1.255	1.245	0.8	107	0.00
76	1,3,5-Trimethylbenzene	1.408	1.409	-0.1	108	0.00
77	t-1,4-Dichloro-2-butene	0.187	0.181	3.2	105	0.00
78	4-Chlorotoluene	1.268	1.243	2.0	106	0.00
79	tert-butylbenzene	1.164	1.186	-1.9	115	0.00
80	1,2,4-Trimethylbenzene	1.420	1.410	0.7	108	0.00
81	sec-Butylbenzene	1.604	1.580	1.5	109	0.00
82	p-Isopropyltoluene	1.348	1.306	3.1	108	0.00
83 M	1,3-Dichlorobenzene	0.786	0.760	3.3	104	0.00
84 M	1,4-Dichlorobenzene	0.776	0.766	1.3	108	0.00
85	n-Butylbenzene	1.132	1.097	3.1	114	0.00
86 T	Hexachloroethane	0.276	0.265	4.0	103	0.00
87 M	1,2-Dichlorobenzene	0.774	0.761	1.7	103	0.00
88	1,2-Dibromo-3-Chloropropane	0.103	0.108	-4.9	111	0.00
89	1,2,4-Trichlorobenzene	0.377	0.381	-1.1	110	0.00
90	Hexachlorobutadiene	0.165	0.168	-1.8	111	0.00
91 M	Naphthalene	1.204	1.165	3.2	115	0.00
92	1,2,3-Trichlorobenzene	0.377	0.381	-1.1	110	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN103124

Quant Time: Nov 01 02:42:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 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	106	0.00
2 M	Dichlorodifluoromethane	20.000	20.189	-0.9	102	0.00
3 M	Chloromethane	20.000	19.742	1.3	101	0.00
4 M	Vinyl Chloride	20.000	20.200	-1.0	102	0.00
5 M	Bromomethane	20.000	19.733	1.3	95	0.00
6 M	Chloroethane	20.000	19.284	3.6	98	0.02
7 M	Trichlorofluoromethane	20.000	20.061	-0.3	100	0.00
8 T	Diethyl Ether	20.000	21.107	-5.5	109	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	20.762	-3.8	102	0.00
10 M	1,1-Dichloroethene	20.000	19.934	0.3	101	0.00
11	Methyl Iodide	20.000	19.843	0.8	101	0.00
12	Methyl Acetate	20.000	18.084	9.6	97	0.00
13 M	Acrolein	100.000	97.432	2.6	99	0.00
14 M	Acrylonitrile	100.000	100.722	-0.7	106	0.00
15 M	Acetone	100.000	102.773	-2.8	107	0.00
16 M	Carbon Disulfide	20.000	19.828	0.9	101	0.00
17	Allyl chloride	20.000	18.913	5.4	96	0.00
18 M	Methylene Chloride	20.000	19.131	4.3	94	0.00
19 M	trans-1,2-Dichloroethene	20.000	19.342	3.3	99	0.00
20 T	Diisopropyl ether	20.000	19.635	1.8	99	0.00
21 M	1,1-Dichloroethane	20.000	19.334	3.3	97	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.396	3.0	101	0.00
23 M	tert-Butyl Alcohol	100.000	107.508	-7.5	115	0.00
24 M	Methyl tert-Butyl Ether	20.000	19.562	2.2	101	0.00
25 M	Chloroform	20.000	19.486	2.6	97	0.00
26	Cyclohexane	20.000	20.480	-2.4	106	0.00
27 s	1,2-Dichloroethane-d4	30.000	29.401	2.0	102	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	106	0.00
29	1,1-Dichloropropene	20.000	19.541	2.3	100	0.00
30 M	2-Butanone	100.000	100.199	-0.2	106	0.00
31	2,2-Dichloropropane	20.000	19.943	0.3	99	0.00
32 M	1,1,1-Trichloroethane	20.000	19.308	3.5	97	0.00
33 M	Carbon Tetrachloride	20.000	19.622	1.9	101	0.00
34 M	Benzene	20.000	19.200	4.0	99	0.00
35	Methacrylonitrile	20.000	19.983	0.1	106	0.00
36 M	1,2-Dichloroethane	20.000	19.078	4.6	96	0.00
37 M	Trichloroethene	20.000	19.915	0.4	101	0.00
38	Methylcyclohexane	20.000	19.559	2.2	105	0.00
39 M	1,2-Dichloropropane	20.000	19.222	3.9	98	0.00
40	Dibromomethane	20.000	19.539	2.3	99	0.00
41 M	Bromodichloromethane	20.000	19.395	3.0	101	0.00
42 M	Vinyl Acetate	100.000	99.926	0.1	105	0.00
43	Ethyl Acetate	20.000	19.830	0.9	107	0.00
44	Isopropyl Acetate	20.000	18.295	8.5	101	0.00
45 T	1,4-Dioxane	400.000	409.524	-2.4	107	0.00
46	Methyl methacrylate	20.000	19.620	1.9	106	0.00
47	n-amyl Acetate	20.000	19.811	0.9	104	0.00
48 M	t-1,3-Dichloropropene	20.000	19.551	2.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084619.D
 Acq On : 31 Oct 2024 14:42
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN103124

Quant Time: Nov 01 02:42:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 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	19.529	2.4	101	0.00
50 M	1,1,2-Trichloroethane	20.000	19.786	1.1	100	0.00
51	Ethyl methacrylate	20.000	19.481	2.6	106	0.00
52	1,3-Dichloropropane	20.000	19.341	3.3	98	0.00
53 M	Dibromochloromethane	20.000	19.690	1.5	102	0.00
54 M	1,2-Dibromoethane	20.000	19.356	3.2	98	0.00
55 M	2-Chloroethyl vinyl ether	100.000	102.456	-2.5	104	0.00
56 M	Bromoform	20.000	19.898	0.5	106	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	111	0.00
58 M	4-Methyl-2-Pentanone	100.000	100.170	-0.2	107	0.00
59 M	2-Hexanone	100.000	99.639	0.4	108	0.00
60 S	4-Bromofluorobenzene	30.000	29.939	0.2	113	0.00
61 M	Tetrachloroethene	20.000	19.129	4.4	101	0.00
62 M	Toluene	20.000	18.941	5.3	101	0.00
63 S	Toluene-d8	30.000	29.138	2.9	106	0.00
64 M	Chlorobenzene	20.000	19.519	2.4	104	0.00
65	1,1,1,2-Tetrachloroethane	20.000	18.937	5.3	100	0.00
66 M	Ethyl Benzene	20.000	18.953	5.2	103	0.00
67 M	m/p-Xylenes	40.000	39.137	2.2	105	0.00
68 M	o-Xylene	20.000	19.434	2.8	103	0.00
69 M	Styrene	20.000	19.701	1.5	107	0.00
70	Isopropylbenzene	20.000	20.058	-0.3	110	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	19.273	3.6	100	0.00
72	1,2,3-Trichloropropane	20.000	21.337	-6.7	102	0.00
73	Bromobenzene	20.000	19.118	4.4	102	0.00
74	n-propylbenzene	20.000	19.858	0.7	108	0.00
75	2-Chlorotoluene	20.000	19.851	0.7	107	0.00
76	1,3,5-Trimethylbenzene	20.000	20.014	-0.1	108	0.00
77	t-1,4-Dichloro-2-butene	20.000	19.312	3.4	105	0.00
78	4-Chlorotoluene	20.000	19.616	1.9	106	0.00
79	tert-butylbenzene	20.000	20.379	-1.9	115	0.00
80	1,2,4-Trimethylbenzene	20.000	19.863	0.7	108	0.00
81	sec-Butylbenzene	20.000	19.704	1.5	109	0.00
82	p-Isopropyltoluene	20.000	19.381	3.1	108	0.00
83 M	1,3-Dichlorobenzene	20.000	19.330	3.4	104	0.00
84 M	1,4-Dichlorobenzene	20.000	19.724	1.4	108	0.00
85	n-Butylbenzene	20.000	19.377	3.1	114	0.00
86 T	Hexachloroethane	20.000	19.206	4.0	103	0.00
87 M	1,2-Dichlorobenzene	20.000	19.650	1.8	103	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	20.926	-4.6	111	0.00
89	1,2,4-Trichlorobenzene	20.000	20.187	-0.9	110	0.00
90	Hexachlorobutadiene	20.000	20.428	-2.1	111	0.00
91 M	Naphthalene	20.000	19.356	3.2	115	0.00
92	1,2,3-Trichlorobenzene	20.000	20.187	-0.9	110	0.00

(#) = Out of Range

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



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.: P4646 SAS No.: P4646 SDG No.: P4646

Instrument ID: MSVOA_N Calibration Date/Time: 10/31/2024 12:32

Lab File ID: VN084614.D Init. Calib. Date(s): 10/31/2024 10/31/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:08 18:13

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Acrolein	0.336	0.350		4.17	
Acrylonitrile	0.892	0.902		1.12	
1,2-Dichloroethane-d4	2.412	2.473		2.53	
Toluene-d8	1.420	1.442		1.55	
4-Bromofluorobenzene	0.517	0.506		-2.13	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084614.D
 Acq On : 31 Oct 2024 12:32
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	31274	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	172181	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	154107	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	77335	30.759	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.533%			
60) 4-Bromofluorobenzene	12.847	95	77916	29.364	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.867%			
63) Toluene-d8	10.565	98	222235	30.462	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.533%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.118	85	38402	21.112	ug/l	100
3) Chloromethane	2.359	50	45455	20.756	ug/l	100
4) Vinyl Chloride	2.512	62	42937	21.114	ug/l	100
5) Bromomethane	2.901	94	22663	21.957	ug/l	100
6) Chloroethane	3.059	64	28033	20.742	ug/l	100
7) Trichlorofluoromethane	3.465	101	70369	21.307	ug/l	100
8) Diethyl Ether	3.953	74	24291	20.620	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	40406	21.649	ug/l	100
10) 1,1-Dichloroethene	4.324	96	38356	21.045	ug/l	100
11) Methyl Iodide	4.583	142	52273	20.867	ug/l	100
12) Methyl Acetate	5.018	43	56085	19.721	ug/l	100
13) Acrolein	4.177	56	36444	104.025	ug/l	100
14) Acrylonitrile	5.718	53	93989	101.129	ug/l	100
15) Acetone	4.430	58	24469	102.461	ug/l	100
16) Carbon Disulfide	4.695	76	112057	20.895	ug/l	100
17) Allyl chloride	5.006	41	64662	21.027	ug/l	100
18) Methylene Chloride	5.265	84	46076	21.573	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	39708	20.785	ug/l	100
20) Diisopropyl ether	6.671	45	130988	21.069	ug/l	100
21) 1,1-Dichloroethane	6.559	63	79269	21.202	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	46637	20.448	ug/l	100
23) tert-Butyl Alcohol	5.542	59	32351m	99.706	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	121117	20.549	ug/l	100
25) Chloroform	7.965	83	81615	21.306	ug/l	100
26) Cyclohexane	8.247	56	58646	20.535	ug/l	100
29) 1,1-Dichloropropene	8.365	75	53609	20.671	ug/l	100
30) 2-Butanone	7.483	43	118837	99.338	ug/l	100
31) 2,2-Dichloropropane	7.489	77	66980	21.158	ug/l	100
32) 1,1,1-Trichloroethane	8.159	97	74085	21.027	ug/l	100
33) Carbon Tetrachloride	8.359	117	61528	20.465	ug/l	100
34) Benzene	8.600	78	175051	20.421	ug/l	100
35) Methacrylonitrile	7.777	41	28223	19.906	ug/l	100
36) 1,2-Dichloroethane	8.665	62	59810	20.981	ug/l	100
37) Trichloroethene	9.347	130	40135	20.754	ug/l	100
38) Methylcyclohexane	9.600	83	54992	19.697	ug/l	100
39) 1,2-Dichloropropane	9.618	63	42682	20.684	ug/l	100
40) Dibromomethane	9.706	93	30074	20.833	ug/l	100
41) Bromodichloromethane	9.882	83	62781	20.287	ug/l	100
42) Vinyl Acetate	6.600	43	448664	100.337	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084614.D
 Acq On : 31 Oct 2024 12:32
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:21:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:19:19 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	49217	19.343	ug/l	98
44) Isopropyl Acetate	8.688	43	96864	19.030	ug/l	100
45) 1,4-Dioxane	9.694	88	13694	402.979	ug/l	100
46) Methyl methacrylate	9.682	41	40026	19.568	ug/l	100
47) n-amyl Acetate	12.494	43	76604	20.151	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	60713	19.868	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	66524	20.312	ug/l	100
50) 1,1,2-Trichloroethane	11.018	97	40510	20.921	ug/l	100
51) Ethyl methacrylate	10.877	69	57722	19.339	ug/l	100
52) 1,3-Dichloropropane	11.165	76	70002	20.827	ug/l	100
53) Dibromochloromethane	11.359	129	45946	20.276	ug/l	100
54) 1,2-Dibromoethane	11.465	107	40970	20.920	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	152772	104.401	ug/l	100
56) Bromoform	12.576	173	30104	19.820	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	251499	103.446	ug/l	100
59) 2-Hexanone	11.194	43	182123	102.300	ug/l	100
61) Tetrachloroethene	11.100	164	33984	21.071	ug/l	100
62) Toluene	10.630	91	182960	20.845	ug/l	100
64) Chlorobenzene	11.888	112	110008	20.761	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	40878	20.991	ug/l	100
66) Ethyl Benzene	11.965	91	187374	20.313	ug/l	100
67) m/p-Xylenes	12.071	106	145866	41.303	ug/l	100
68) o-Xylene	12.400	106	70893	20.810	ug/l	100
69) Styrene	12.412	104	116660	20.424	ug/l	100
70) Isopropylbenzene	12.694	105	171676	20.286	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	58304	21.256	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	54117m	20.681	ug/l	
73) Bromobenzene	12.976	156	45364	20.784	ug/l	100
74) n-propylbenzene	13.035	91	200691	20.280	ug/l	100
75) 2-Chlorotoluene	13.123	91	132203	20.515	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	147751	20.434	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	19637	20.442	ug/l	100
78) 4-Chlorotoluene	13.218	91	133430	20.493	ug/l	100
79) tert-butylbenzene	13.435	119	117804	19.701	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	148836	20.404	ug/l	100
81) sec-Butylbenzene	13.612	105	164903	20.014	ug/l	100
82) p-Isopropyltoluene	13.729	119	137483	19.858	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	83438	20.670	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	80500	20.182	ug/l	100
85) n-Butylbenzene	14.053	91	109807	18.885	ug/l	100
86) Hexachloroethane	14.329	117	29191	20.617	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	84342	21.203	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11061	20.899	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	39326	20.305	ug/l	100
90) Hexachlorobutadiene	15.500	225	17295	20.443	ug/l	100
91) Naphthalene	15.641	128	115679	18.702	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	39326	20.305	ug/l	100

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

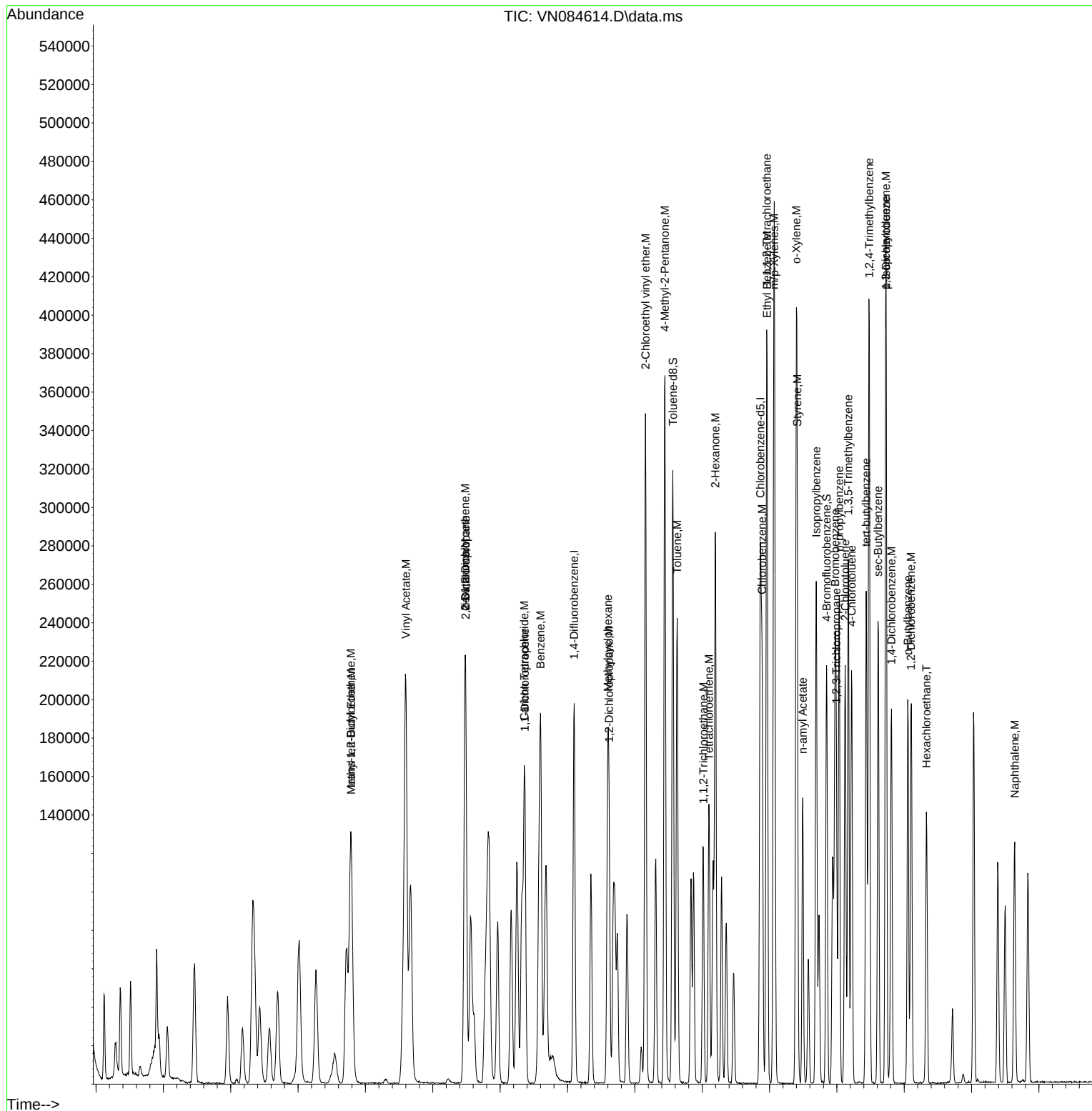
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084614.D
Acq On : 31 Oct 2024 12:32
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:21:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:19:19 2024
Response via : Initial Calibration





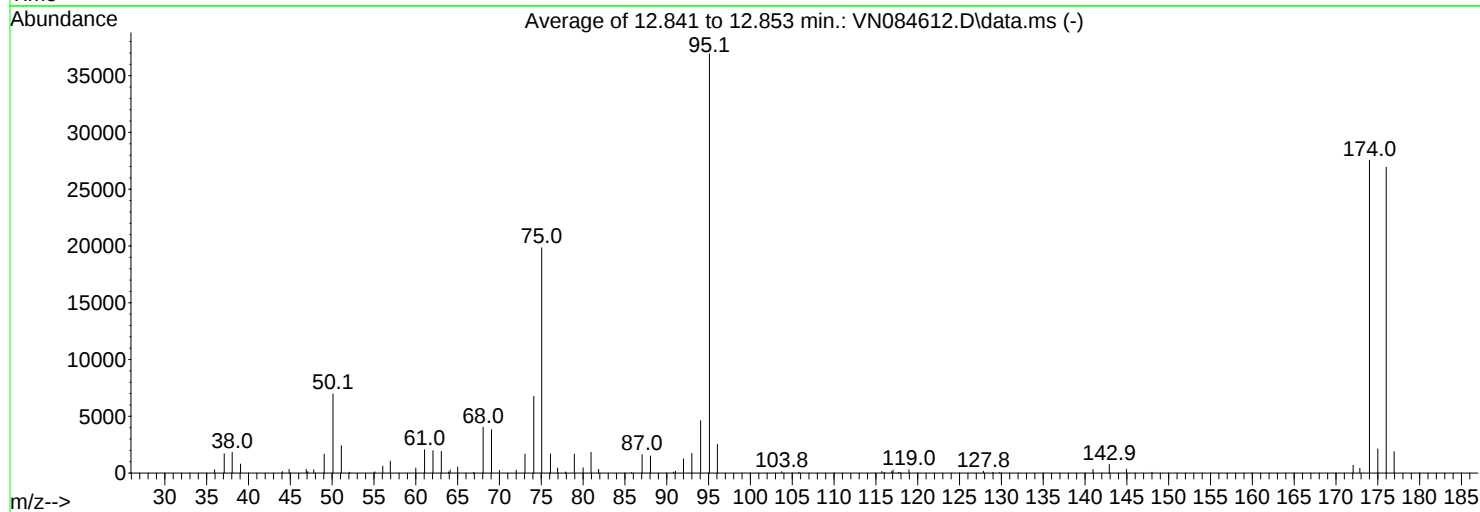
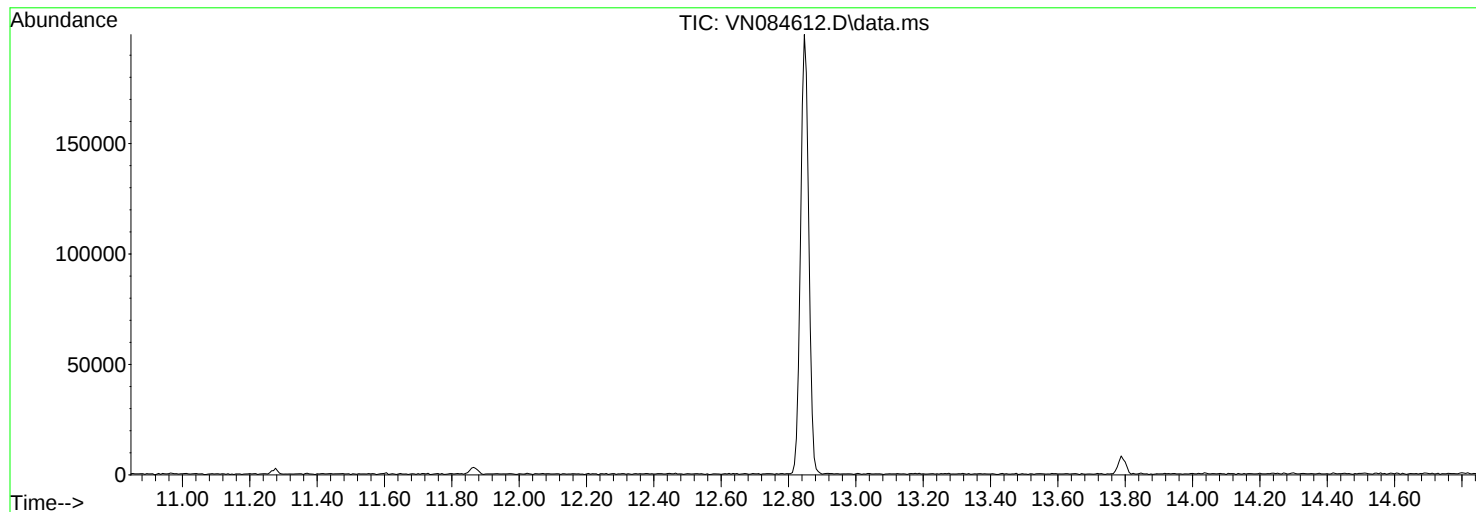
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084612.D
Acq On : 31 Oct 2024 10:56
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Fri Nov 01 02:38:04 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1844

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	6981	PASS
75	95	30	60	53.7	19840	PASS
95	95	100	100	100.0	36931	PASS
96	95	5	9	6.9	2535	PASS
173	174	0.00	2	1.5	422	PASS
174	95	50	100	74.6	27560	PASS
175	174	5	9	7.7	2131	PASS
176	174	95	101	97.7	26936	PASS
177	176	5	9	7.0	1894	PASS

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1031WBL01	SDG No.:	P4646
Lab Sample ID:	VN1031WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084622.D	1		10/31/24 16:37	VN103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.3		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	28.4		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.0		63 - 112	83%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	32200	7.812			
540-36-3	1,4-Difluorobenzene	168000	9.1			
3114-55-4	Chlorobenzene-d5	145000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084622.D
Acq On : 31 Oct 2024 16:37
Operator : JC\MD
Sample : VN1031WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1031WBL01

Quant Time: Nov 01 02:48:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32185	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	168153	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	145344	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	75738	29.271	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.567%
60) 4-Bromofluorobenzene	12.847	95	62663	25.039	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.467%
63) Toluene-d8	10.565	98	195650	28.435	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.767%

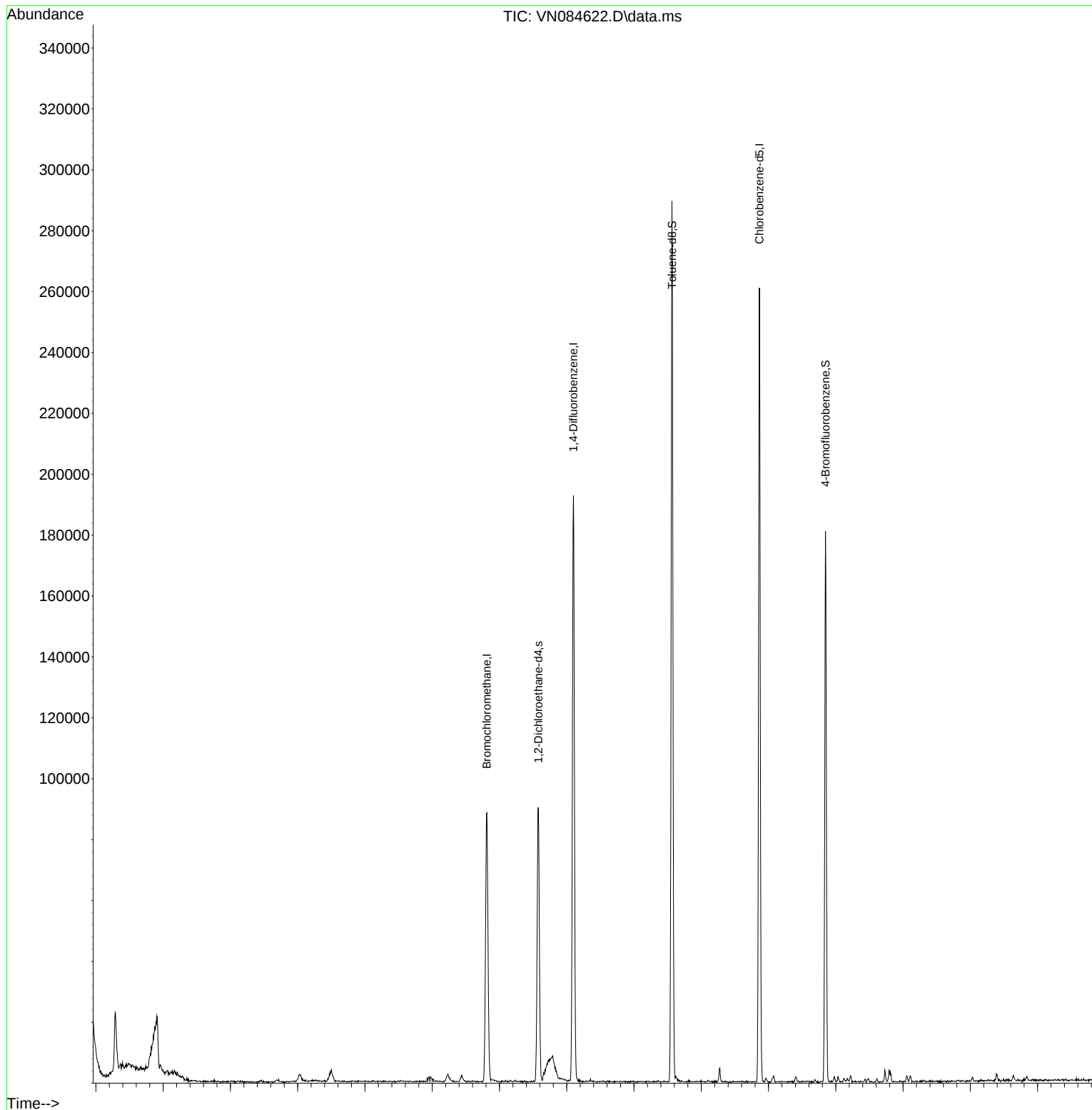
Target Compounds	Qvalue

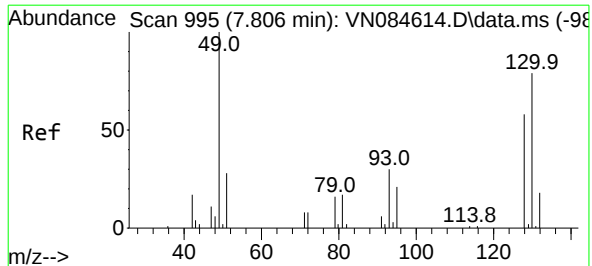
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084622.D
Acq On : 31 Oct 2024 16:37
Operator : JC\MD
Sample : VN1031WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1031WBL01

Quant Time: Nov 01 02:48:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

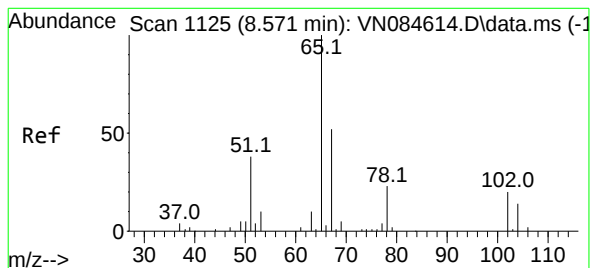
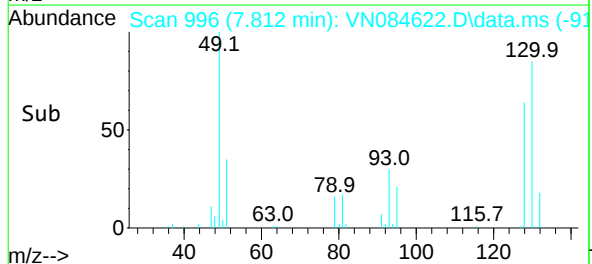
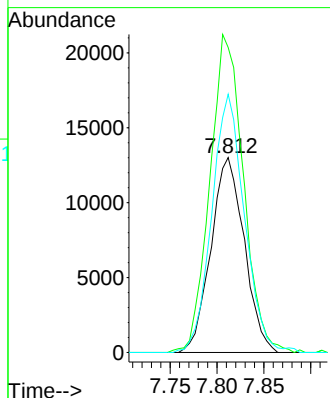
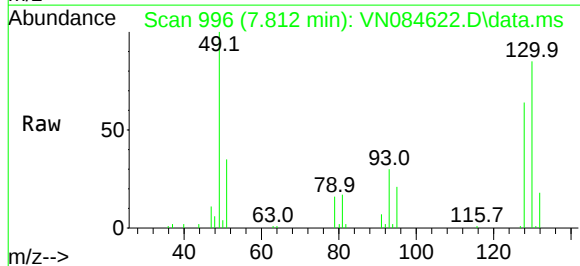




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 995
Delta R.T. 0.006 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

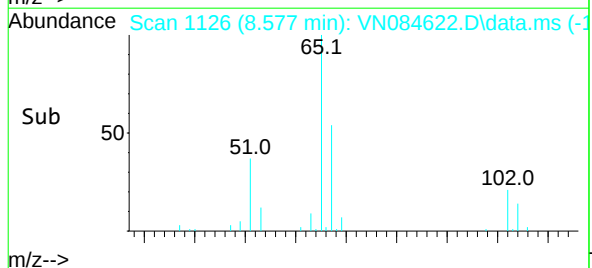
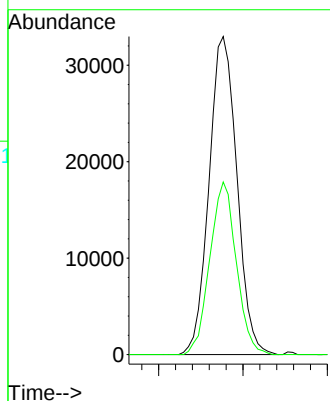
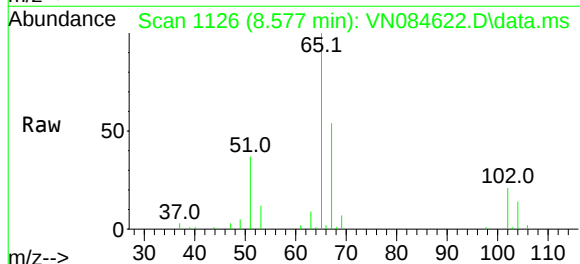
Instrument :
MSVOA_N
ClientSampleId :
VN1031WBL01

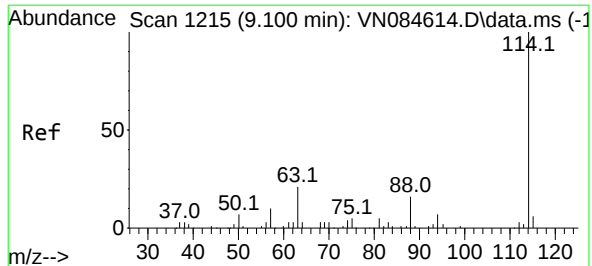
Tgt Ion	Ratio	Lower	Upper
128	100		
49	164.1	0.0	427.0
130	129.3	0.0	322.2



#27
1,2-Dichloroethane-d4
Concen: 29.271 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.5	40.7	61.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN084622.D

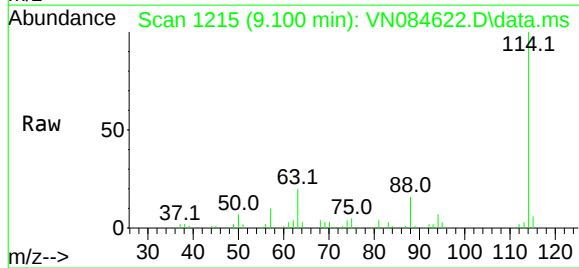
Acq: 31 Oct 2024 16:37

Instrument :

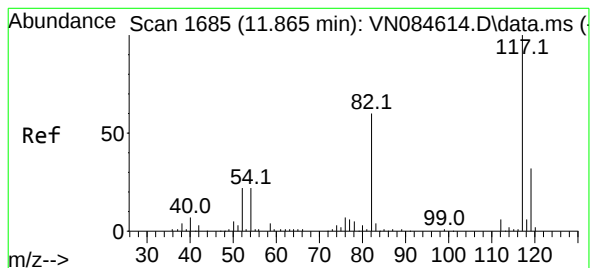
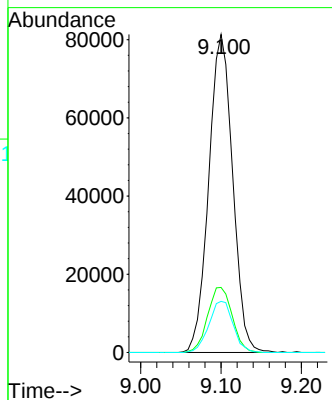
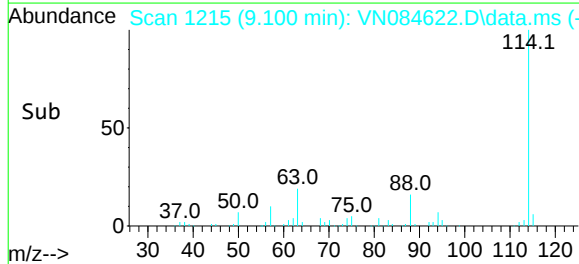
MSVOA_N

ClientSampleId :

VN1031WBL01



Tgt Ion:	114	Resp:	168153
Ion	Ratio	Lower	Upper
114	100		
63	21.0	16.8	25.2
88	16.3	12.9	19.3



#57

Chlorobenzene-d5

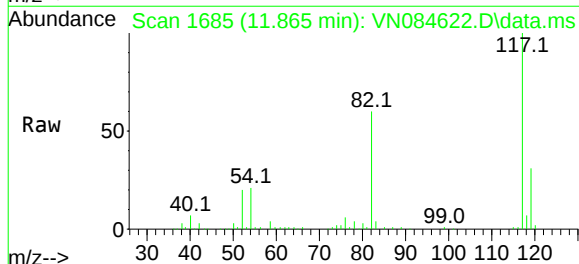
Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

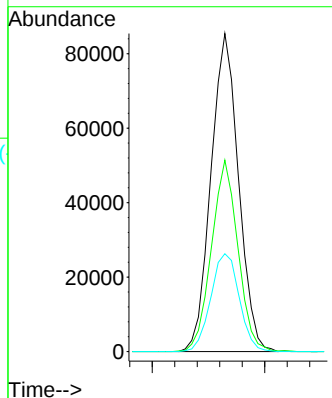
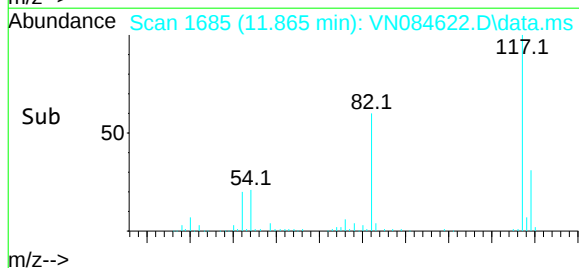
Delta R.T. -0.000 min

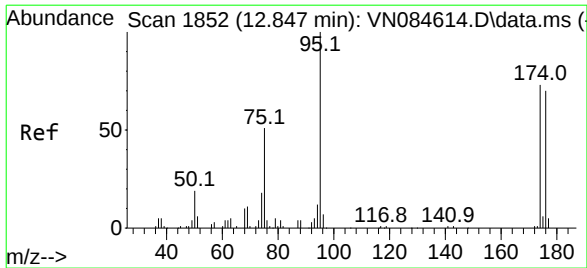
Lab File: VN084622.D

Acq: 31 Oct 2024 16:37



Tgt Ion:	117	Resp:	145344
Ion	Ratio	Lower	Upper
117	100		
82	57.8	45.5	68.3
119	31.8	25.3	37.9





#60

4-Bromofluorobenzene

Concen: 25.039 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084622.D

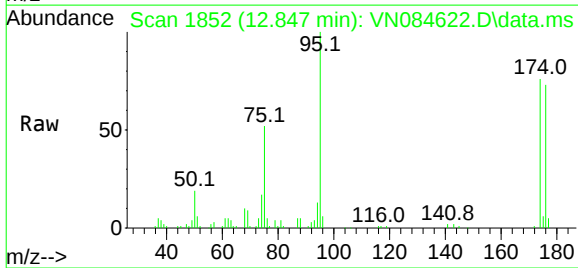
Acq: 31 Oct 2024 16:37

Instrument :

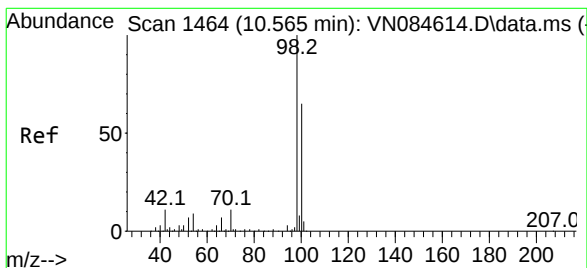
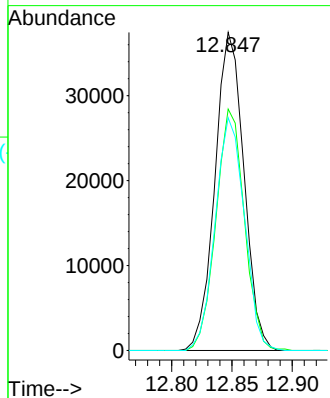
MSVOA_N

ClientSampleId :

VN1031WBL01



Tgt Ion:	95	Resp:	62663
Ion	Ratio	Lower	Upper
95	100		
174	74.5	59.6	89.4
176	73.9	58.6	88.0



#63

Toluene-d8

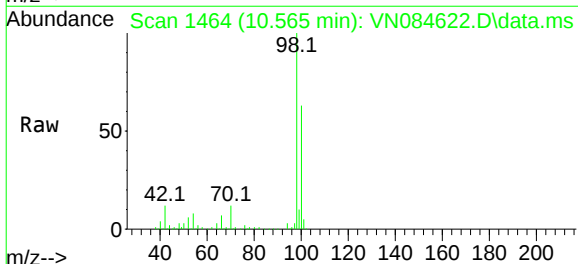
Concen: 28.435 ug/l

RT: 10.565 min Scan# 1464

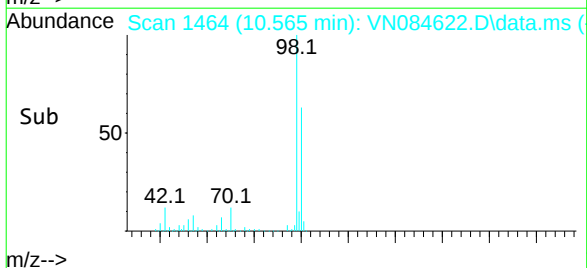
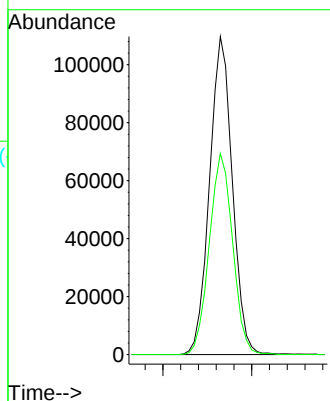
Delta R.T. -0.000 min

Lab File: VN084622.D

Acq: 31 Oct 2024 16:37



Tgt Ion:	98	Resp:	195650
Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2



Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1031WBS01	SDG No.:	P4646
Lab Sample ID:	VN1031WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084620.D	1		10/31/24 15:25	VN103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	100		9.30	25.0	ug/L
107-13-1	Acrylonitrile	100		3.70	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.0		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.6		63 - 112	99%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	33400	7.812			
540-36-3	1,4-Difluorobenzene	191000	9.1			
3114-55-4	Chlorobenzene-d5	177000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084620.D
 Acq On : 31 Oct 2024 15:25
 Operator : JC\MD
 Sample : VN1031WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1031WBS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
 Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:47:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	33399	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	190761	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	176885	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	81408	30.319	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	101.067%		
60) 4-Bromofluorobenzene	12.847	95	90137	29.595	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.667%		
63) Toluene-d8	10.565	98	242553	28.966	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.567%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	42599	21.929	ug/l	96
3) Chloromethane	2.360	50	48182	20.601	ug/l	98
4) Vinyl Chloride	2.512	62	45800	21.089	ug/l	92
5) Bromomethane	2.901	94	23288	21.127	ug/l	99
6) Chloroethane	3.083	64	28938	20.294	ug/l	90
7) Trichlorofluoromethane	3.477	101	72515	20.560	ug/l	98
8) Diethyl Ether	3.954	74	25925	20.607	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	43080m	21.613	ug/l	
10) 1,1-Dichloroethene	4.330	96	41048	21.089	ug/l	95
11) Methyl Iodide	4.577	142	56567	21.145	ug/l	92
12) Methyl Acetate	5.024	43	56949	18.770	ug/l	99
13) Acrolein	4.177	56	39277	104.978	ug/l	97
14) Acrylonitrile	5.712	53	101806	102.570	ug/l	99
15) Acetone	4.430	58	29244m	114.669	ug/l	
16) Carbon Disulfide	4.706	76	119634	20.888	ug/l	100
17) Allyl chloride	5.018	41	63363	19.105	ug/l	96
18) Methylene Chloride	5.271	84	46752	20.497	ug/l	96
19) trans-1,2-Dichloroethene	5.777	96	41749	20.463	ug/l	90
20) Diisopropyl ether	6.665	45	139393	20.994	ug/l	97
21) 1,1-Dichloroethane	6.559	63	81312	20.364	ug/l	96
22) cis-1,2-Dichloroethene	7.489	96	50182	20.602	ug/l	97
23) tert-Butyl Alcohol	5.536	59	35402m	102.167	ug/l	
24) Methyl tert-Butyl Ether	5.795	73	130027	20.658	ug/l	99
25) Chloroform	7.965	83	81662	19.962	ug/l	94
26) Cyclohexane	8.253	56	64244	21.064	ug/l #	97
29) 1,1-Dichloropropene	8.371	75	55913	19.460	ug/l	99
30) 2-Butanone	7.483	43	131624	99.310	ug/l	100
31) 2,2-Dichloropropane	7.483	77	74068	21.118	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	74402	19.060	ug/l	99
33) Carbon Tetrachloride	8.359	117	65330	19.613	ug/l	97
34) Benzene	8.600	78	182332	19.199	ug/l	95
35) Methacrylonitrile	7.777	41	31177	19.847	ug/l	96
36) 1,2-Dichloroethane	8.671	62	61079	19.339	ug/l	100
37) Trichloroethene	9.353	130	43111	20.122	ug/l	96
38) Methylcyclohexane	9.600	83	60844	19.671	ug/l	98
39) 1,2-Dichloropropane	9.618	63	44096	19.288	ug/l	95
40) Dibromomethane	9.706	93	30967	19.362	ug/l	99
41) Bromodichloromethane	9.888	83	64547	18.826	ug/l	93
42) Vinyl Acetate	6.600	43	487246	98.352	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084620.D
 Acq On : 31 Oct 2024 15:25
 Operator : JC\MD
 Sample : VN1031WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1031WBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:47:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	53782	19.312	ug/l	99
44) Isopropyl Acetate	8.689	43	103338	18.324	ug/l	100
45) 1,4-Dioxane	9.700	88	15567	413.478	ug/l #	92
46) Methyl methacrylate	9.683	41	44299	19.547	ug/l	97
47) n-amyl Acetate	12.494	43	82462	19.579	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	66374	19.605	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	71193	19.621	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	43089	20.086	ug/l	92
51) Ethyl methacrylate	10.871	69	66643	20.153	ug/l	93
52) 1,3-Dichloropropane	11.159	76	72538	19.480	ug/l	99
53) Dibromochloromethane	11.359	129	49065	19.544	ug/l	99
54) 1,2-Dibromoethane	11.465	107	42466	19.572	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	159615	98.453	ug/l	98
56) Bromoform	12.577	173	32429	19.271	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	275302	98.655	ug/l	98
59) 2-Hexanone	11.194	43	206596	101.103	ug/l	99
61) Tetrachloroethene	11.100	164	37634	20.329	ug/l	98
62) Toluene	10.630	91	194250	19.281	ug/l	98
64) Chlorobenzene	11.888	112	121575	19.989	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	43317	19.379	ug/l	100
66) Ethyl Benzene	11.965	91	209600	19.796	ug/l	97
67) m/p-Xylenes	12.071	106	163590	40.357	ug/l	98
68) o-Xylene	12.394	106	77525	19.826	ug/l	96
69) Styrene	12.412	104	134476	20.511	ug/l	97
70) Isopropylbenzene	12.694	105	194101	19.982	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	60828	19.320	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	51730m	19.242	ug/l	
73) Bromobenzene	12.976	156	50409	20.121	ug/l	99
74) n-propylbenzene	13.035	91	231556	20.386	ug/l	100
75) 2-Chlorotoluene	13.124	91	149817	20.254	ug/l	97
76) 1,3,5-Trimethylbenzene	13.171	105	170491	20.543	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	22437	20.349	ug/l	90
78) 4-Chlorotoluene	13.224	91	152409	20.393	ug/l	99
79) tert-butylbenzene	13.435	119	141995	20.689	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	172807	20.639	ug/l	98
81) sec-Butylbenzene	13.618	105	192399	20.344	ug/l	99
82) p-Isopropyltoluene	13.729	119	159925	20.125	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	91075	19.656	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	91454	19.976	ug/l	98
85) n-Butylbenzene	14.059	91	135833	20.352	ug/l	99
86) Hexachloroethane	14.329	117	31507	19.387	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	89499	19.602	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	12304	20.254	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	43053	19.366	ug/l	95
90) Hexachlorobutadiene	15.506	225	20434	21.043	ug/l	94
91) Naphthalene	15.641	128	137299	19.339	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	43053	19.366	ug/l	95

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

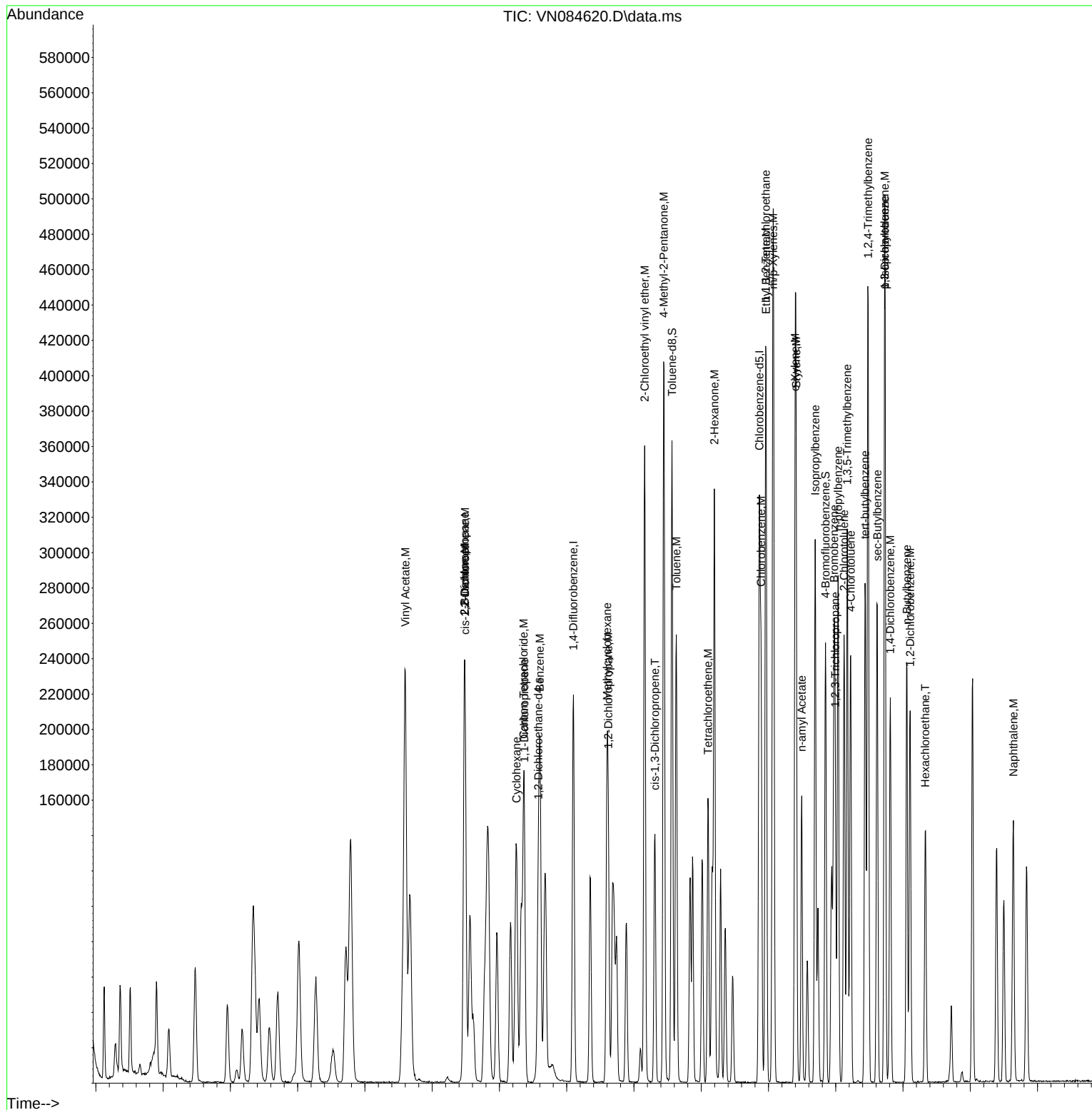
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084620.D
Acq On : 31 Oct 2024 15:25
Operator : JC\MD
Sample : VN1031WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1031WBS01

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:47:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1031WBSD01	SDG No.:	P4646
Lab Sample ID:	VN1031WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084621.D	1		10/31/24 15:49	VN103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	100		9.30	25.0	ug/L
107-13-1	Acrylonitrile	100		3.70	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.2		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.4		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.2		63 - 112	97%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	32600	7.812			
540-36-3	1,4-Difluorobenzene	183000	9.1			
3114-55-4	Chlorobenzene-d5	168000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084621.D
 Acq On : 31 Oct 2024 15:49
 Operator : JC\MD
 Sample : VN1031WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1031WBSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:48:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32646	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	182685	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	167999	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	79275	30.205	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.700%			
60) 4-Bromofluorobenzene	12.847	95	84456	29.197	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.333%			
63) Toluene-d8	10.565	98	233505	29.360	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.867%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	38985	20.532	ug/l	95
3) Chloromethane	2.359	50	46257	20.234	ug/l	99
4) Vinyl Chloride	2.512	62	42525	20.032	ug/l	92
5) Bromomethane	2.900	94	22376	20.768	ug/l	100
6) Chloroethane	3.065	64	28556	20.488	ug/l	95
7) Trichlorofluoromethane	3.465	101	71406	20.712	ug/l	99
8) Diethyl Ether	3.953	74	25474	20.715	ug/l	94
9) 1,1,2-Trichlorotrifluoro...	4.353	101	40541	20.808	ug/l	99
10) 1,1-Dichloroethene	4.324	96	39157	20.581	ug/l	95
11) Methyl Iodide	4.571	142	53170	20.333	ug/l	92
12) Methyl Acetate	5.024	43	56139	18.930	ug/l	96
13) Acrolein	4.177	56	37462	102.437	ug/l	100
14) Acrylonitrile	5.724	53	97670	100.673	ug/l	99
15) Acetone	4.430	58	27180	109.034	ug/l	85
16) Carbon Disulfide	4.700	76	113085	20.200	ug/l	99
17) Allyl chloride	5.012	41	66114	20.394	ug/l	96
18) Methylene Chloride	5.265	84	45208	20.277	ug/l	95
19) trans-1,2-Dichloroethene	5.783	96	40300	20.209	ug/l	92
20) Diisopropyl ether	6.671	45	133508	20.572	ug/l	97
21) 1,1-Dichloroethane	6.559	63	78145	20.023	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	48039	20.177	ug/l	97
23) tert-Butyl Alcohol	5.536	59	37032m	109.336	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	127042	20.649	ug/l	99
25) Chloroform	7.959	83	80528	20.139	ug/l	95
26) Cyclohexane	8.253	56	64909	21.773	ug/l #	95
29) 1,1-Dichloropropene	8.365	75	54654	19.862	ug/l	99
30) 2-Butanone	7.483	43	125147	98.597	ug/l	98
31) 2,2-Dichloropropane	7.483	77	70080	20.864	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	74479	19.923	ug/l	99
33) Carbon Tetrachloride	8.359	117	63277	19.837	ug/l	99
34) Benzene	8.606	78	177177	19.480	ug/l	94
35) Methacrylonitrile	7.777	41	28441	18.906	ug/l	97
36) 1,2-Dichloroethane	8.665	62	58249	19.259	ug/l	100
37) Trichloroethene	9.353	130	40196	19.591	ug/l	91
38) Methylcyclohexane	9.600	83	59338	20.032	ug/l	99
39) 1,2-Dichloropropane	9.618	63	44012	20.103	ug/l	93
40) Dibromomethane	9.706	93	29895	19.519	ug/l	98
41) Bromodichloromethane	9.888	83	63485	19.335	ug/l	95
42) Vinyl Acetate	6.600	43	477204	100.583	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084621.D
 Acq On : 31 Oct 2024 15:49
 Operator : JC\MD
 Sample : VN1031WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1031WBSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:48:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	52620	19.730	ug/l	100
44) Isopropyl Acetate	8.688	43	94921	17.576	ug/l	97
45) 1,4-Dioxane	9.694	88	15679	434.863	ug/l #	85
46) Methyl methacrylate	9.682	41	41700	19.214	ug/l	91
47) n-amyl Acetate	12.494	43	80970	20.075	ug/l	95
48) t-1,3-Dichloropropene	10.835	75	63914	19.713	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	69450	19.987	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	40510	19.718	ug/l	95
51) Ethyl methacrylate	10.876	69	63630	20.093	ug/l	94
52) 1,3-Dichloropropane	11.159	76	70880	19.876	ug/l	99
53) Dibromochloromethane	11.359	129	48005	19.967	ug/l	97
54) 1,2-Dibromoethane	11.465	107	40593	19.536	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	154220	99.331	ug/l	99
56) Bromoform	12.576	173	31835	19.755	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	267088	100.773	ug/l	100
59) 2-Hexanone	11.194	43	196936	101.473	ug/l	99
61) Tetrachloroethene	11.100	164	34684	19.727	ug/l	97
62) Toluene	10.629	91	186269	19.467	ug/l	99
64) Chlorobenzene	11.888	112	115588	20.010	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	41286	19.448	ug/l	98
66) Ethyl Benzene	11.965	91	195795	19.471	ug/l	94
67) m/p-Xylenes	12.070	106	152197	39.532	ug/l	100
68) o-Xylene	12.394	106	74275	20.000	ug/l	96
69) Styrene	12.412	104	126243	20.274	ug/l	98
70) Isopropylbenzene	12.694	105	185047	20.058	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	59950	20.048	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	49762m	19.489	ug/l	
73) Bromobenzene	12.976	156	47545	19.982	ug/l	98
74) n-propylbenzene	13.035	91	216677	20.085	ug/l	100
75) 2-Chlorotoluene	13.123	91	141777	20.181	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	161455	20.483	ug/l	97
77) t-1,4-Dichloro-2-butene	12.735	75	20864	19.923	ug/l	90
78) 4-Chlorotoluene	13.223	91	143411	20.204	ug/l	100
79) tert-butylbenzene	13.435	119	136935	21.007	ug/l	95
80) 1,2,4-Trimethylbenzene	13.482	105	164066	20.632	ug/l	97
81) sec-Butylbenzene	13.612	105	177891	19.805	ug/l	98
82) p-Isopropyltoluene	13.729	119	150744	19.973	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	88108	20.022	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	86946	19.995	ug/l	99
85) n-Butylbenzene	14.053	91	123578	19.495	ug/l	98
86) Hexachloroethane	14.329	117	31385	20.333	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	87547	20.189	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12546	21.744	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	42048	19.915	ug/l	99
90) Hexachlorobutadiene	15.500	225	19789	21.456	ug/l	93
91) Naphthalene	15.641	128	132406	19.636	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	42048	19.915	ug/l	99

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

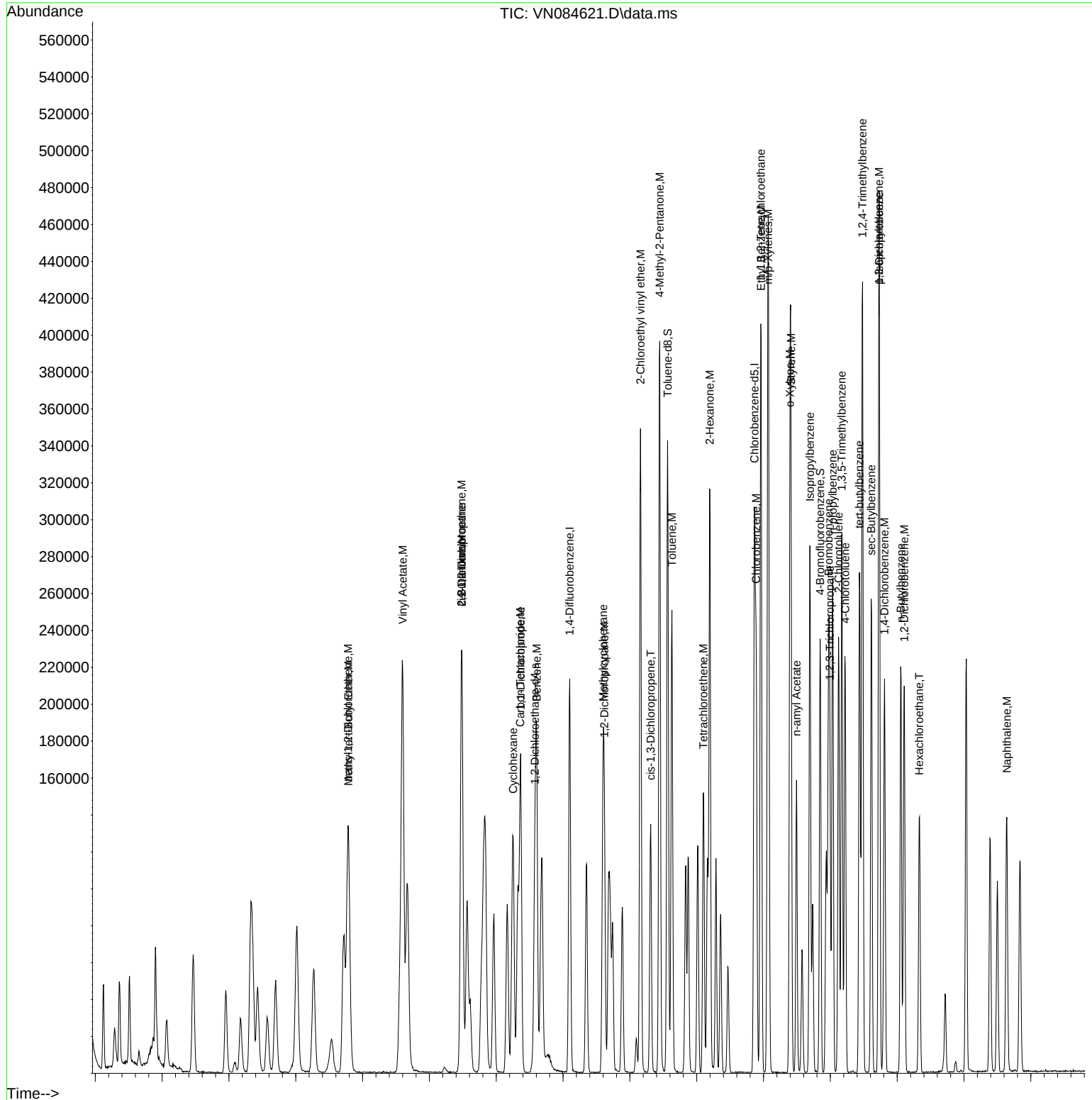
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084621.D
Acq On : 31 Oct 2024 15:49
Operator : JC\MD
Sample : VN1031WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1031WBSD01

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/04/2024
Supervised By : Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:	VN103124	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VN084613.D	1,2,3-Trichloropropane	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Acetone	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Acrylonitrile	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Allyl chloride	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Chloroethane	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Methyl Acetate	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	trans-1,2-Dichloroethene	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICC005	VN084613.D	Trichloroethene	SAM	11/1/2024 11:36:59 AM	MMDadoda	11/4/2024 1:19:09 AM	Peak Integrated by Software
VSTDICCC020	VN084614.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:50 AM	MMDadoda	11/4/2024 1:19:11 AM	Peak Integrated by Software
VSTDICCC020	VN084614.D	tert-Butyl Alcohol	SAM	11/4/2024 1:13:50 AM	MMDadoda	11/4/2024 1:19:11 AM	Peak Integrated by Software
VSTDICCC050	VN084615.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:52 AM	MMDadoda	11/4/2024 1:19:12 AM	Peak Integrated by Software
VSTDICCC050	VN084615.D	Chloroethane	SAM	11/4/2024 1:13:52 AM	MMDadoda	11/4/2024 1:19:12 AM	Peak Integrated by Software
VSTDICCC100	VN084616.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:53 AM	MMDadoda	11/4/2024 1:19:13 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN103124	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC150	VN084617.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:54 AM	MMDadoda	11/4/2024 1:19:15 AM	Peak Integrated by Software
VSTDICV020	VN084619.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:55 AM	MMDadoda	11/4/2024 1:19:16 AM	Peak Integrated by Software
VN1031WBS01	VN084620.D	1,1,2-Trichlorotrifluoroethane	SAM	11/4/2024 1:13:57 AM	MMDadoda	11/4/2024 1:19:17 AM	Peak Integrated by Software
VN1031WBS01	VN084620.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:57 AM	MMDadoda	11/4/2024 1:19:17 AM	Peak Integrated by Software
VN1031WBS01	VN084620.D	Acetone	SAM	11/4/2024 1:13:57 AM	MMDadoda	11/4/2024 1:19:17 AM	Peak Integrated by Software
VN1031WBS01	VN084620.D	tert-Butyl Alcohol	SAM	11/4/2024 1:13:57 AM	MMDadoda	11/4/2024 1:19:17 AM	Peak Integrated by Software
VN1031WBSD01	VN084621.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:13:58 AM	MMDadoda	11/4/2024 1:19:19 AM	Peak Integrated by Software
VN1031WBSD01	VN084621.D	tert-Butyl Alcohol	SAM	11/4/2024 1:13:58 AM	MMDadoda	11/4/2024 1:19:19 AM	Peak Integrated by Software
P4646-01	VN084624.D	Diethyl Ether	SAM	11/4/2024 1:13:59 AM	MMDadoda	11/4/2024 1:19:22 AM	Peak Integrated by Software
P4646-01	VN084624.D	Methyl Acetate	SAM	11/4/2024 1:13:59 AM	MMDadoda	11/4/2024 1:19:22 AM	Peak Integrated by Software
P4646-01	VN084624.D	Methyl tert-Butyl Ether	SAM	11/4/2024 1:13:59 AM	MMDadoda	11/4/2024 1:19:22 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	Allyl chloride	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN103124

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN084626.D	Diethyl Ether	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	tert-Butyl Alcohol	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software
VSTDCCC020	VN084626.D	trans-1,2-Dichloroethene	SAM	11/4/2024 1:14:00 AM	MMDadoda	11/4/2024 1:19:23 AM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN103124

Review By	Semsettin Yesilyurt	Review On	11/1/2024 11:37:52 AM		
Supervise By	Maresh Dadoda	Supervise On	11/4/2024 1:19:34 AM		
SubDirectory	VN103124	HP Acquire Method	MSVOA_N	HP Processing Method	624n103124w.m
STD. NAME		STD REF.#			
Tune/Reschk		VP131208			
Initial Calibration Stds		VP131209,VP131210,VP131211,VP131212,VP131213			
CCC		VP131215,VP131216			
Internal Standard/PEM		VP130994			
ICV/I.BLK		VP131214			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084612.D	31 Oct 2024 10:56	JC\MD	Ok
2	VSTDIC005	VN084613.D	31 Oct 2024 12:08	JC\MD	Ok,M
3	VSTDICCC020	VN084614.D	31 Oct 2024 12:32	JC\MD	Ok,M
4	VSTDIC050	VN084615.D	31 Oct 2024 12:56	JC\MD	Ok,M
5	VSTDIC100	VN084616.D	31 Oct 2024 13:20	JC\MD	Ok,M
6	VSTDIC150	VN084617.D	31 Oct 2024 13:44	JC\MD	Ok,M
7	VIBLK	VN084618.D	31 Oct 2024 14:08	JC\MD	Ok
8	VSTDICV020	VN084619.D	31 Oct 2024 14:42	JC\MD	Ok,M
9	VN1031WBS01	VN084620.D	31 Oct 2024 15:25	JC\MD	Ok,M
10	VN1031WBSD01	VN084621.D	31 Oct 2024 15:49	JC\MD	Ok,M
11	VN1031WBL01	VN084622.D	31 Oct 2024 16:37	JC\MD	Ok
12	P4646-02	VN084623.D	31 Oct 2024 17:01	JC\MD	Ok
13	P4646-01	VN084624.D	31 Oct 2024 17:25	JC\MD	Ok,M
14	VIBLK	VN084625.D	31 Oct 2024 17:49	JC\MD	Ok
15	VSTDCCC020	VN084626.D	31 Oct 2024 18:13	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN103124

Review By	Semsettin Yesilyurt	Review On	11/1/2024 11:37:52 AM
Supervise By	Maresh Dadoda	Supervise On	11/4/2024 1:19:34 AM
SubDirectory	VN103124	HP Acquire Method	MSVOA_N HP Processing Method 624n103124w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131208
Initial Calibration Stds	VP131209,VP131210,VP131211,VP131212,VP131213
CCC	VP131215,VP131216
Internal Standard/PEM	VP130994
ICV/I.BLK	VP131214
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084612.D	31 Oct 2024 10:56		JC\MD	Ok
2	VSTDIC005	VSTDIC005	VN084613.D	31 Oct 2024 12:08		JC\MD	Ok,M
3	VSTDICCC020	VSTDICCC020	VN084614.D	31 Oct 2024 12:32		JC\MD	Ok,M
4	VSTDIC050	VSTDIC050	VN084615.D	31 Oct 2024 12:56		JC\MD	Ok,M
5	VSTDIC100	VSTDIC100	VN084616.D	31 Oct 2024 13:20		JC\MD	Ok,M
6	VSTDIC150	VSTDIC150	VN084617.D	31 Oct 2024 13:44		JC\MD	Ok,M
7	VIBLK	VIBLK	VN084618.D	31 Oct 2024 14:08		JC\MD	Ok
8	VSTDICV020	ICVVN103124	VN084619.D	31 Oct 2024 14:42		JC\MD	Ok,M
9	VN1031WBS01	VN1031WBS01	VN084620.D	31 Oct 2024 15:25		JC\MD	Ok,M
10	VN1031WBSD01	VN1031WBSD01	VN084621.D	31 Oct 2024 15:49		JC\MD	Ok,M
11	VN1031WBL01	VN1031WBL01	VN084622.D	31 Oct 2024 16:37		JC\MD	Ok
12	P4646-02	241030043-05-TRIP-BL	VN084623.D	31 Oct 2024 17:01	TB,pH#6.0 B	JC\MD	Ok
13	P4646-01	241030069-01-VOA	VN084624.D	31 Oct 2024 17:25	pH#9.0 B	JC\MD	Ok,M
14	VIBLK	VIBLK	VN084625.D	31 Oct 2024 17:49		JC\MD	Ok
15	VSTDCCC020	VSTDCCC020EC	VN084626.D	31 Oct 2024 18:13		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

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: Hillside, NJ 07205

Email: rszot@gslabs.com

SAMPLE INFORMATION

SAMPLE TYPE: WASTE WATER

SAMPLE LOCATION: ACUA SW LANDFILL LEACHATE TANKS

SAMPLE ID

SAMPLE COLLECTION

ANALYSIS REQUIRED (Print Legibly)

CONTAINER INFORMATION

DELIVERED BY CLIENT

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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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4646 GARD04

Order Date : 10/31/2024 10:57:00 AM

Project Mgr :

Client Name : Garden State Laboratories, I

Project Name : Waste Water 2024

Report Type : Level 1

Client Contact : Sharon Ercoliani

Receive DateTime : 10/31/2024 8:28:00 AM

EDD Type : EXCEL NOCLEANUP

Invoice Name : Garden State Laboratories, I

Purchase Order :

Hard Copy Date :

Invoice Contact : Sharon Ercoliani

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4646-01	241030069-01-VOA	Water	10/30/2024	10:56					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days
P4646-02	241030043-05-TRIP-BLANK	Water	10/30/2024	00:00					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days

Relinquished By :

Date / Time : 10-31-24 1225

Received By :

Date / Time : 10-31-24 12:25

Storage Area : VOA Refridgerator Room