

Cover Page

Order ID : P5399

Project ID : Transfer Station-SPDES

Client : Tully Environmental, Inc

Lab Sample Number

P5399-01
P5399-02
P5399-03
P5399-04

Client Sample Number

001 WILLETS PT BLVD (NOV)
002 35th Ave (Nov)
001 WILLETS PT BLVD (DEC)
002 35TH AVE (DEC)

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

Signature : _____

Date: 1/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5399

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: KETAN PATEL

Date: 01/03/2025

LAB CHRONICLE

OrderID:	P5399	OrderDate:	12/31/2024 8:43:00 AM
Client:	Tully Environmental, Inc	Project:	Transfer Station-SPDES
Contact:	Dean Devoe	Location:	--Select--,L11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5399-03	001 WILLETS PT BLVD (DEC)	Water			12/30/24			12/31/24
			VOC-BTEX	624.1			01/02/25	
P5399-04	002 35TH AVE (DEC)	Water			12/30/24			12/31/24
			VOC-BTEX	624.1			01/02/25	

Hit Summary Sheet
SW-846

SDG No.: P5399
Client: Tully Environmental, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: P5399-03	001 WILLETS PT BLVD (DEC) 001 WILLETS PT F Water		Toluene	81.7		0.72	5.00	ug/L
			Total Voc :	81.7				
			Total Concentration:	81.7				
Client ID: P5399-04	002 35TH AVE (DEC) 002 35TH AVE (DE Water		Toluene	92.0		0.72	5.00	ug/L
			Total Voc :	92.0				
			Total Concentration:	92.0				



QC SUMMARY

Surrogate Summary

SDG No.: P5399

Client: Tully Environmental, Inc

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5399-03	001 WILLETS PT BLVD (DEC)	1,2-Dichloroethane-d4	30	30.6	102	91	110
		Toluene-d8	30	27.4	91	91	112
		4-Bromofluorobenzene	30	25.3	84	63	112
P5399-04	002 35TH AVE (DEC)	1,2-Dichloroethane-d4	30	29.7	99	91	110
		Toluene-d8	30	27.7	92	91	112
		4-Bromofluorobenzene	30	26.4	88	63	112
VN0102WBL01	VN0102WBL01	1,2-Dichloroethane-d4	30	29.1	97	91	110
		Toluene-d8	30	28.4	95	91	112
		4-Bromofluorobenzene	30	23.4	78	63	112
VN0102WBS01	VN0102WBS01	1,2-Dichloroethane-d4	30	29.4	98	91	110
		Toluene-d8	30	29.3	98	91	112
		4-Bromofluorobenzene	30	29.2	97	63	112
VN0102WBSD0	VN0102WBSD01	1,2-Dichloroethane-d4	30	29.5	98	91	110
		Toluene-d8	30	29.3	98	91	112
		4-Bromofluorobenzene	30	28.9	96	63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5399

Client: Tully Environmental, Inc

Analytical Method: SW624.1

Datafile : VN085373.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0102WBS01	Benzene	20	18.4	ug/L	92			65	135	
	Toluene	20	18.6	ug/L	93			70	130	
	Ethyl Benzene	20	17.9	ug/L	90			60	140	
	m/p-Xylenes	40	37.2	ug/L	93			87	111	
	o-Xylene	20	17.9	ug/L	90			87	111	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5399

Client: Tully Environmental, Inc

Analytical Method: SW624.1

Datafile : VN085374.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0102WBSD01	Benzene	20	18.2	ug/L	91	1		65	135	20
	Toluene	20	18.5	ug/L	93	0		70	130	20
	Ethyl Benzene	20	17.7	ug/L	89	1		60	140	20
	m/p-Xylenes	40	36.2	ug/L	91	2		87	111	20
	o-Xylene	20	17.8	ug/L	89	1		87	111	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0102WBL01

Lab Name: CHEMTECH

Contract: TULL01

Lab Code: CHEM Case No.: P5399

SAS No.: P5399 SDG NO.: P5399

Lab File ID: VN085375.D

Lab Sample ID: VN0102WBL01

Date Analyzed: 01/02/2025

Time Analyzed: 12:10

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
VN0102WBS01	VN0102WBS01	VN085373.D	01/02/2025
VN0102WBSD01	VN0102WBSD01	VN085374.D	01/02/2025
001 WILLETS PT BLVD (DEC)	P5399-03	VN085376.D	01/02/2025
002 35TH AVE (DEC)	P5399-04	VN085377.D	01/02/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL01
Lab Code: CHEM Case No.: P5399 SAS No.: P5399 SDG NO.: P5399
Lab File ID: VN085271.D BFB Injection Date: 12/20/2024
Instrument ID: MSVOA_N BFB Injection Time: 09:21
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	24
75	30.0 - 60.0% of mass 95	59.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	1.1 (1.5) 1
174	50.0 - 100.0% of mass 95	73.2
175	5.0 - 9.0% of mass 174	5.9 (8) 1
176	95.0 - 101.0% of mass 174	71 (97) 1
177	5.0 - 9.0% of mass 176	4.5 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VN085272.D	12/20/2024	10:05
VSTDIC020	VSTDIC020	VN085273.D	12/20/2024	10:29
VSTDIC050	VSTDIC050	VN085274.D	12/20/2024	10:53
VSTDIC100	VSTDIC100	VN085275.D	12/20/2024	11:17
VSTDIC150	VSTDIC150	VN085276.D	12/20/2024	11:42



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL01
Lab Code: CHEM Case No.: P5399 SAS No.: P5399 SDG NO.: P5399
Lab File ID: VN085371.D BFB Injection Date: 01/02/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:02
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.2
75	30.0 - 60.0% of mass 95	55.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	75.4
175	5.0 - 9.0% of mass 174	6.1 (8.1) 1
176	95.0 - 101.0% of mass 174	72.1 (95.7) 1
177	5.0 - 9.0% of mass 176	4.4 (6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VN085372.D	01/02/2025	10:36
VN0102WBS01	VN0102WBS01	VN085373.D	01/02/2025	11:11
VN0102WBSD01	VN0102WBSD01	VN085374.D	01/02/2025	11:46
VN0102WBL01	VN0102WBL01	VN085375.D	01/02/2025	12:10
001 WILLETS PT BLVD (DEC)	P5399-03	VN085376.D	01/02/2025	12:44
002 35TH AVE (DEC)	P5399-04	VN085377.D	01/02/2025	13:08

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TULL01
 Lab Code: CHEM Case No.: P5399 SAS No.: P5399 SDG NO.: P5399
 Lab File ID: VN085372.D Date Analyzed: 01/02/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:36
 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	30931	7.81	161808	9.10	150173	11.87
UPPER LIMIT	61862	8.312	323616	9.6	300346	12.365
LOWER LIMIT	15465.5	7.312	80904	8.6	75086.5	11.365
EPA SAMPLE NO.						
001 WILLETS PT BLVD (DEC)	29248	7.81	147571	9.10	145951	11.87
002 35TH AVE (DEC)	27625	7.81	134721	9.10	130305	11.86
VN0102WBL01	28991	7.81	140575	9.10	123860	11.87
VN0102WBS01	34895	7.81	188370	9.10	177459	11.87
VN0102WBSD01	28825	7.81	150375	9.10	140882	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.



SAMPLE DATA

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	12/30/24
Project:	Transfer Station-SPDES	Date Received:	12/31/24
Client Sample ID:	001 WILLETS PT BLVD (DEC)	SDG No.:	P5399
Lab Sample ID:	P5399-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085376.D	1		01/02/25 12:44	VN010225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
108-88-3	Toluene	81.7		0.72	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.6		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	27.4		91 - 112	91%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.3		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29200	7.812			
540-36-3	1,4-Difluorobenzene	148000	9.1			
3114-55-4	Chlorobenzene-d5	146000	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\VN010225\
 Data File : VN085376.D
 Acq On : 02 Jan 2025 12:44
 Operator : JC\MD
 Sample : P5399-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001 WILLETS PT BLVD (DEC)

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/02/2025
 Supervised By : Mahesh Dadoda 01/03/2025

Quant Time: Jan 02 13:54:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29248	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	147571	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	145951	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	78776	30.617	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.067%			
60) 4-Bromofluorobenzene	12.847	95	59747	25.272	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 84.233%			
63) Toluene-d8	10.565	98	195621	27.449	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 91.500%			
Target Compounds					Qvalue	
15) Acetone	4.424	58	16448	62.477	ug/l	87
16) Carbon Disulfide	4.724	76	13576m	2.472	ug/l	
30) 2-Butanone	7.488	43	13124	9.704	ug/l #	95
62) Toluene	10.629	91	732741	81.719	ug/l	100
67) m/p-Xylenes	12.076	106	1393	0.394	ug/l	97
68) o-Xylene	12.406	106	756m	0.224	ug/l	
76) 1,3,5-Trimethylbenzene	13.164	105	1470	0.203	ug/l	94
80) 1,2,4-Trimethylbenzene	13.476	105	6768	0.941	ug/l	96
82) p-Isopropyltoluene	13.729	119	7933	1.129	ug/l	94
91) Naphthalene	15.647	128	5911	1.048	ug/l #	85

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

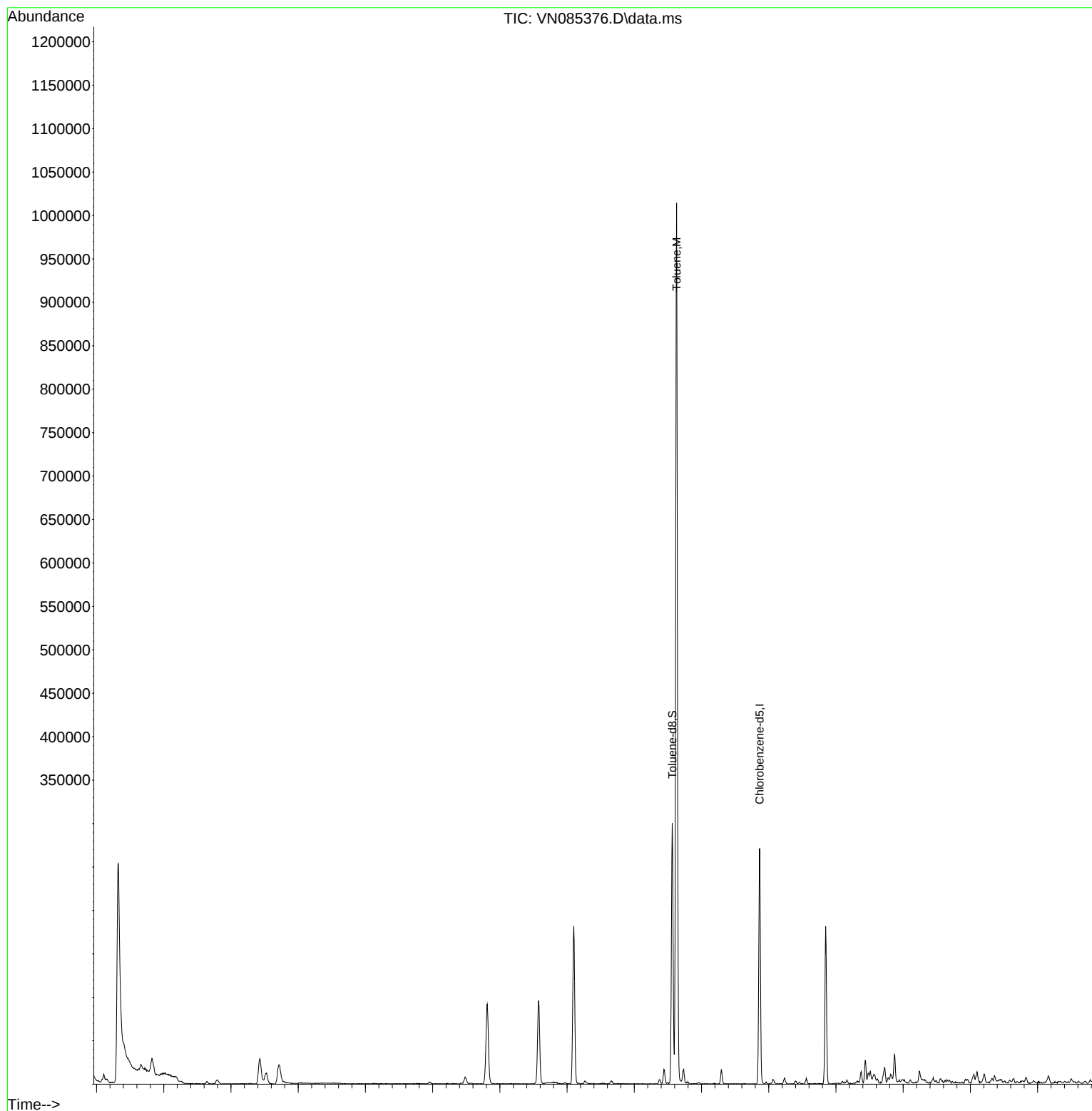
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
Data File : VN085376.D
Acq On : 02 Jan 2025 12:44
Operator : JC\MD
Sample : P5399-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

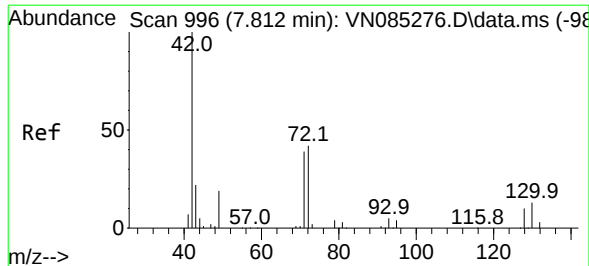
Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (DEC)

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/02/2025
Supervised By : Mahesh Dadoda 01/03/2025

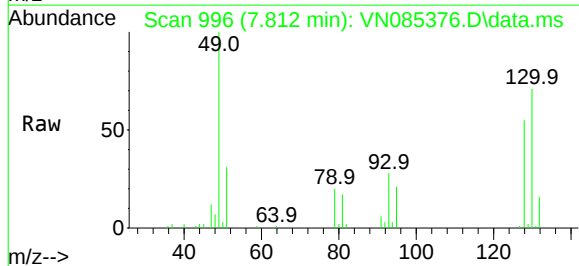
Quant Time: Jan 02 13:54:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

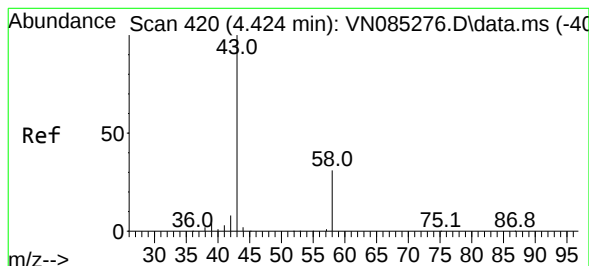
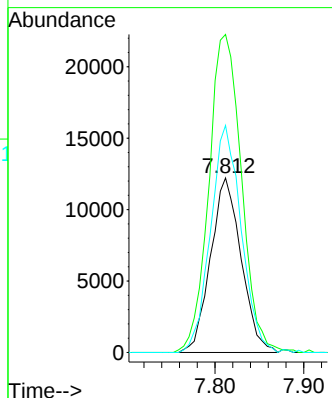
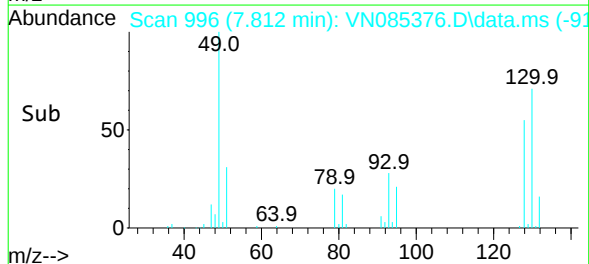
Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (DEC)



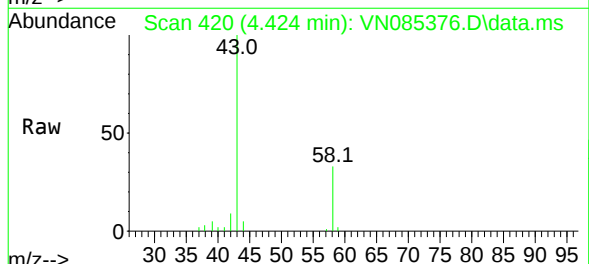
Tgt Ion: 128 Resp: 29248
Ion Ratio Lower Upper
128 100
49 193.9 0.0 497.8
130 130.5 0.0 328.5

Manual Integrations
APPROVED

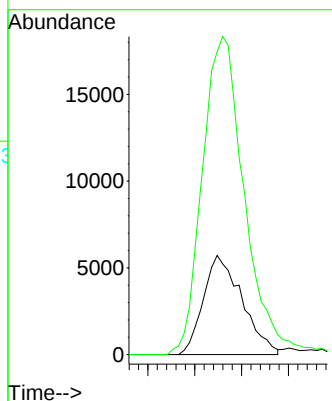
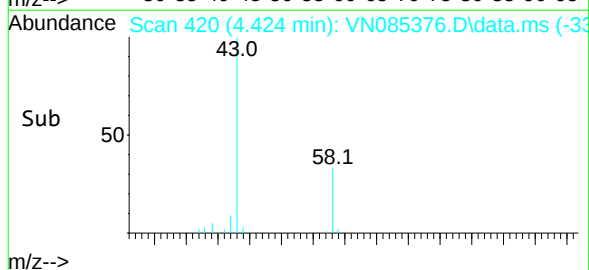
Reviewed By : John Carlone 01/02/2025
Supervised By : Mahesh Dadoda 01/03/2025

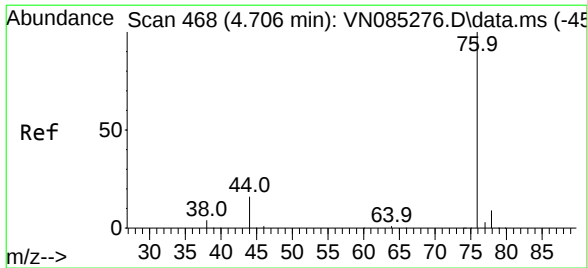


#15
Acetone
Concen: 62.477 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44



Tgt Ion: 58 Resp: 16448
Ion Ratio Lower Upper
58 100
43 296.9 258.8 388.2





#16

Carbon Disulfide

Concen: 2.472 ug/l m

RT: 4.724 min Scan# 471

Delta R.T. 0.012 min

Lab File: VN085376.D

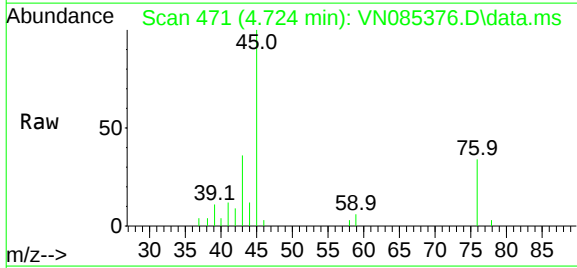
Acq: 02 Jan 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

001 WILLETS PT BLVD (DEC)



Tgt Ion: 76 Resp: 13576

Ion Ratio Lower Upper

76 100

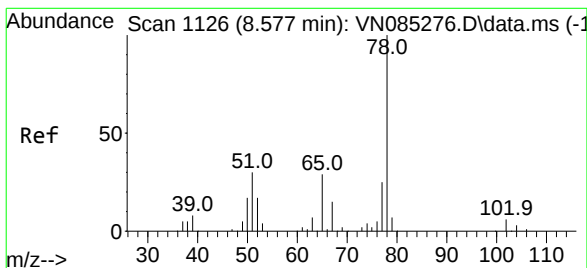
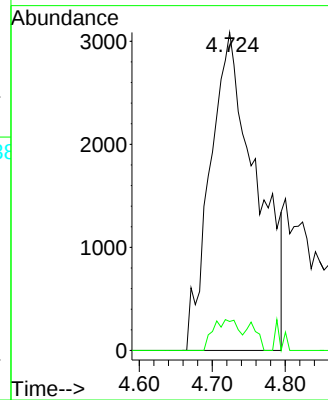
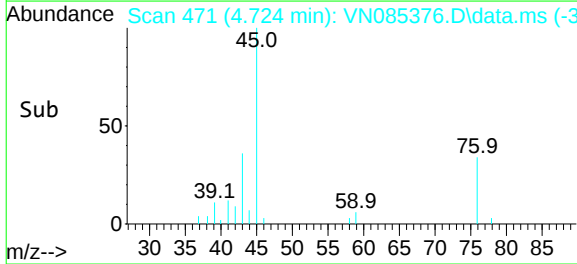
78 9.1 6.6 9.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/02/2025

Supervised By :Mahesh Dadoda 01/03/2025



#27

1,2-Dichloroethane-d4

Concen: 30.617 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085376.D

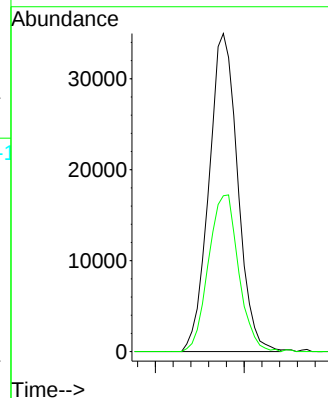
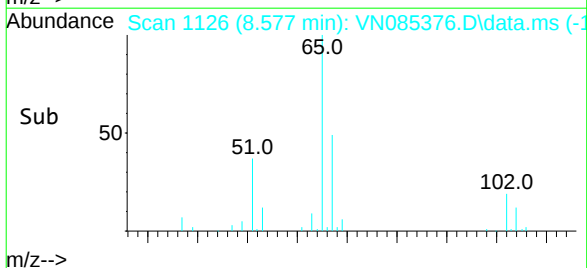
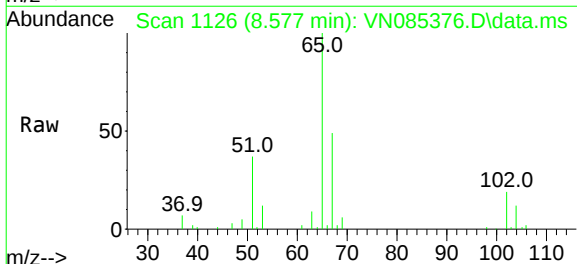
Acq: 02 Jan 2025 12:44

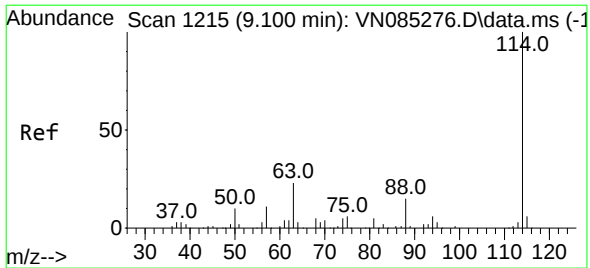
Tgt Ion: 65 Resp: 78776

Ion Ratio Lower Upper

65 100

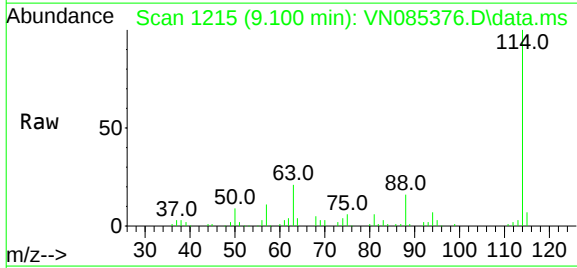
67 51.4 42.0 63.0





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

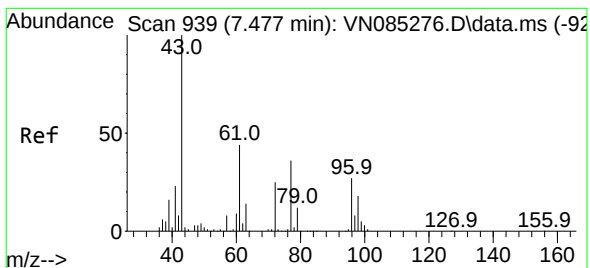
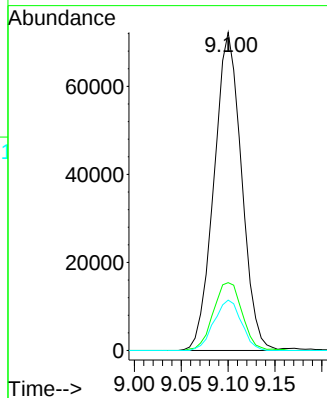
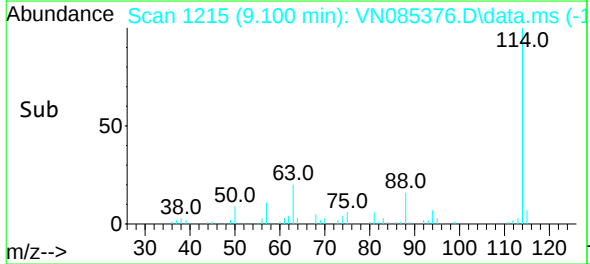
Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (DEC)



Tgt Ion: 114 Resp: 147571
Ion Ratio Lower Upper
114 100
63 22.5 18.0 27.0
88 15.7 12.9 19.3

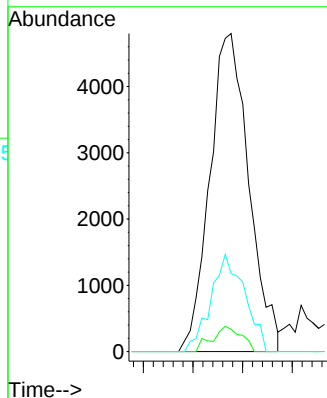
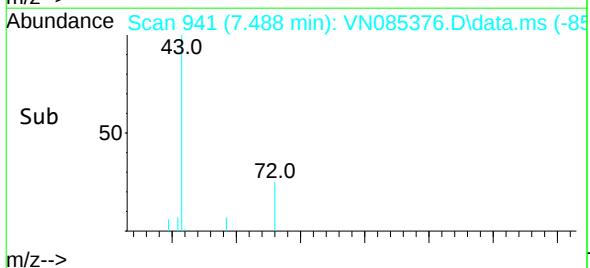
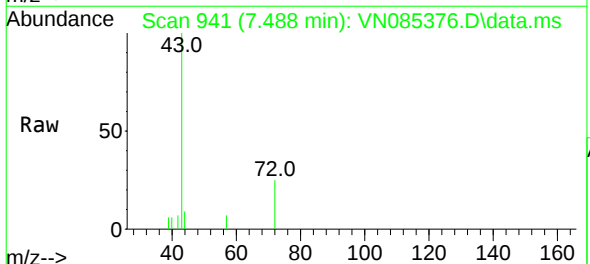
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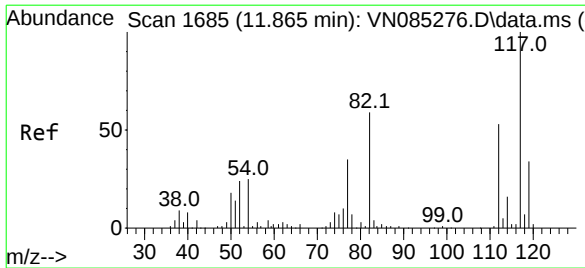
Reviewed By :John Carlone 01/02/2025
Supervised By :Mahesh Dadoda 01/03/2025



#30
2-Butanone
Concen: 9.704 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Tgt Ion: 43 Resp: 13124
Ion Ratio Lower Upper
43 100
57 4.5 6.2 9.2#
72 26.5 19.9 29.9





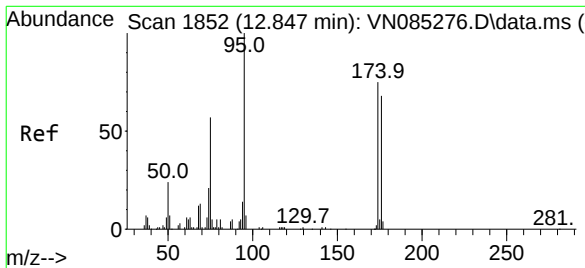
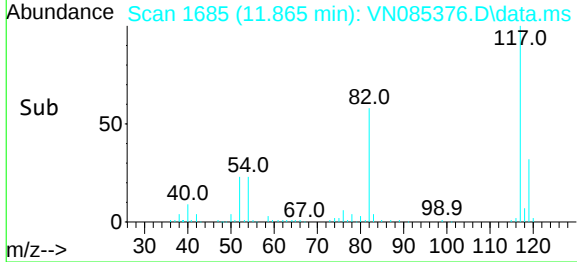
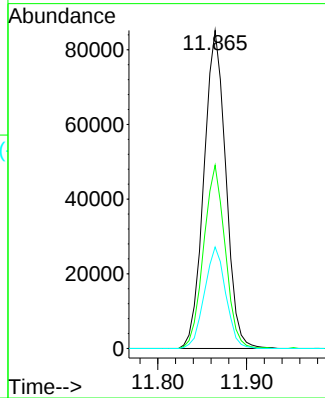
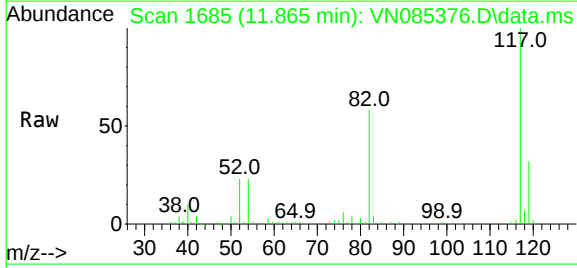
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (DEC)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.7	47.4	71.0
119	31.0	25.3	37.9

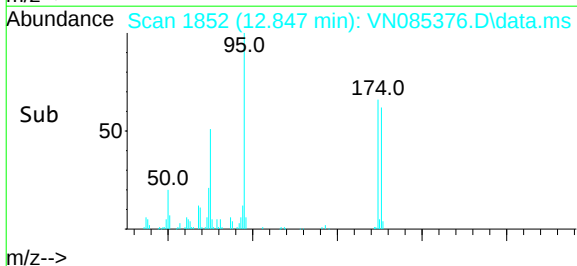
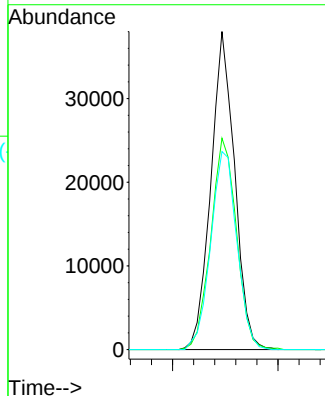
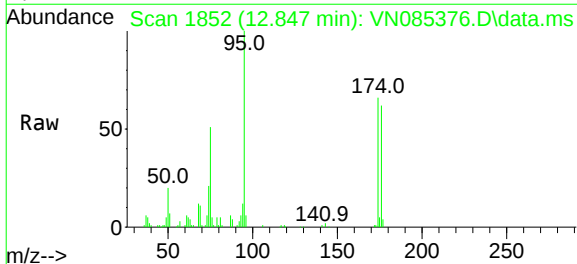
Manual Integrations
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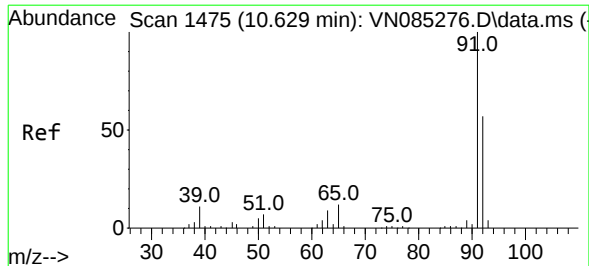
Reviewed By :John Carlone 01/02/2025
Supervised By :Mahesh Dadoda 01/03/2025



#60
4-Bromofluorobenzene
Concen: 25.272 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Tgt Ion	Ratio	Lower	Upper
95	100		
174	71.7	57.8	86.8
176	68.3	57.1	85.7





#62

Toluene

Concen: 81.719 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN085376.D

Acq: 02 Jan 2025 12:44

Tgt Ion: 91 Resp: 732741

Ion Ratio Lower Upper

91 100

92 57.2 45.9 68.9

Instrument :

MSVOA_N

ClientSampleId :

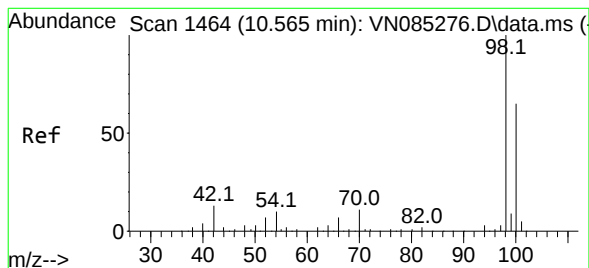
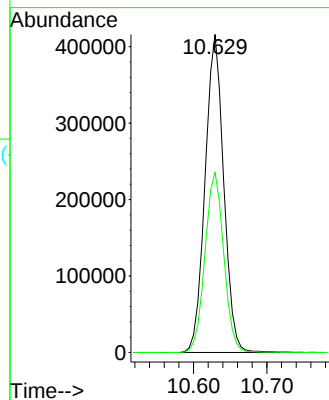
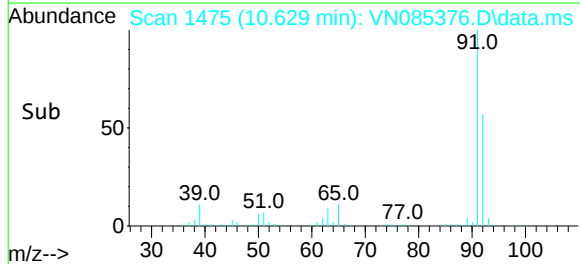
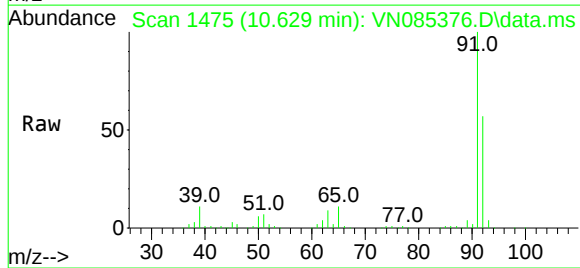
001 WILLETS PT BLVD (DEC)

Manual Integrations

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Reviewed By :John Carlone 01/02/2025

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#63

Toluene-d8

Concen: 27.449 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085376.D

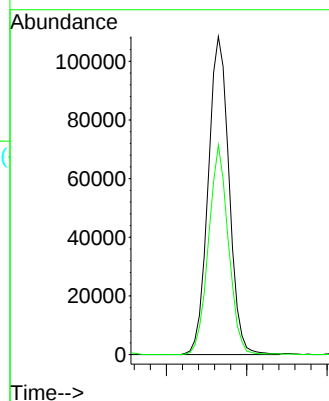
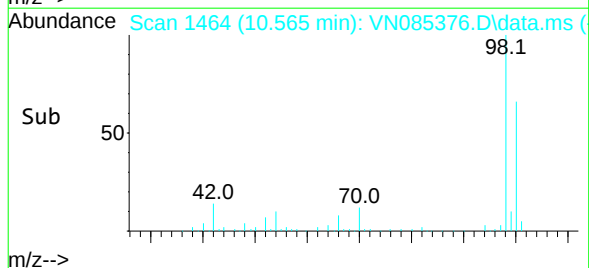
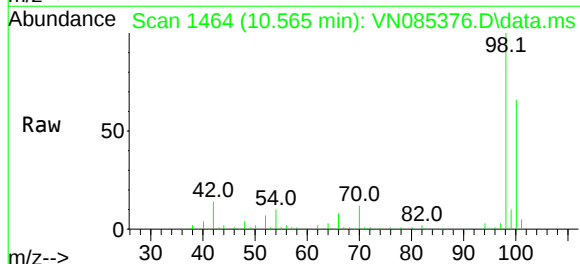
Acq: 02 Jan 2025 12:44

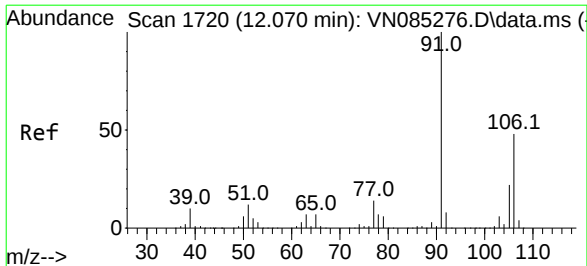
Tgt Ion: 98 Resp: 195621

Ion Ratio Lower Upper

98 100

100 62.5 50.8 76.2





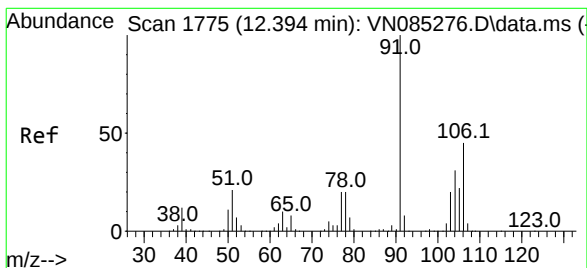
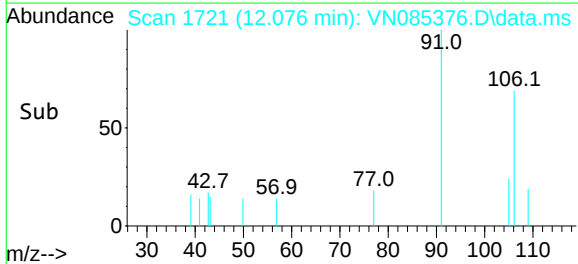
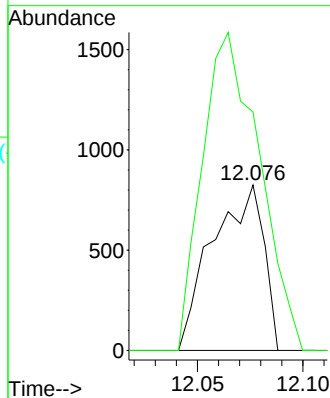
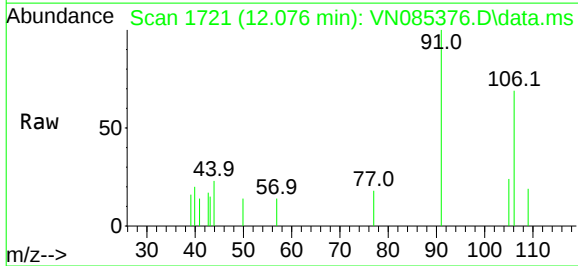
#67
m/p-Xylenes
Concen: 0.394 ug/l
RT: 12.076 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
001 WILLETS PT BLVD (DEC)

Tgt Ion:106 Resp: 1393
Ion Ratio Lower Upper
106 100
91 213.6 167.0 250.4

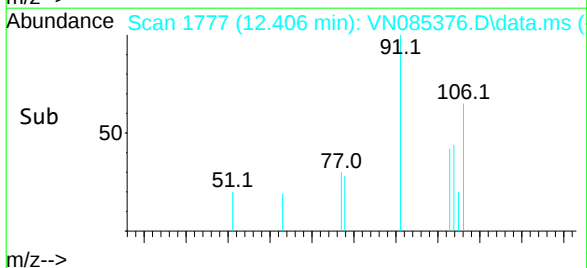
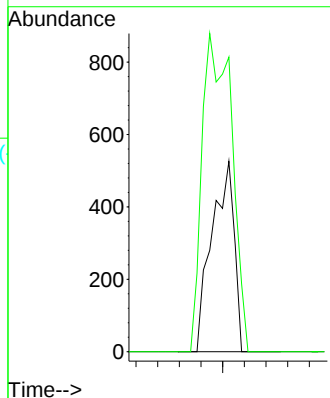
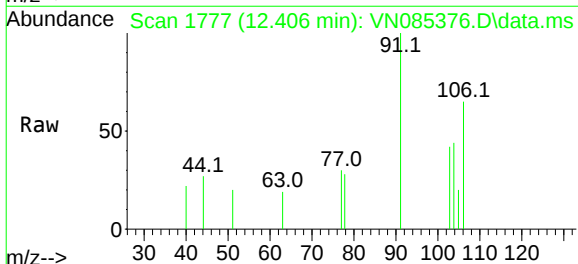
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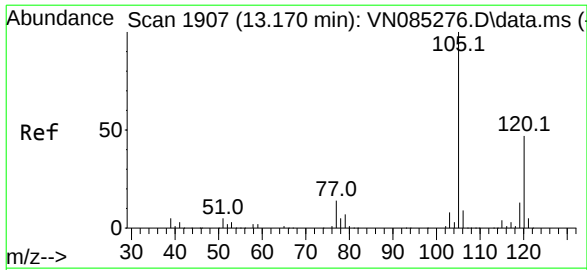
Reviewed By :John Carlone 01/02/2025
Supervised By :Mahesh Dadoda 01/03/2025



#68
o-Xylene
Concen: 0.224 ug/l m
RT: 12.406 min Scan# 1777
Delta R.T. 0.012 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Tgt Ion:106 Resp: 756
Ion Ratio Lower Upper
106 100
91 0.0 110.6 331.8#





#76

1,3,5-Trimethylbenzene

Concen: 0.203 ug/l

RT: 13.164 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VN085376.D

Acq: 02 Jan 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

001 WILLETS PT BLVD (DEC)

Tgt Ion:105 Resp: 1476

Ion Ratio Lower Upper

105 100

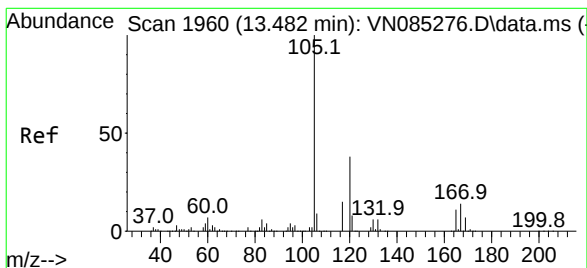
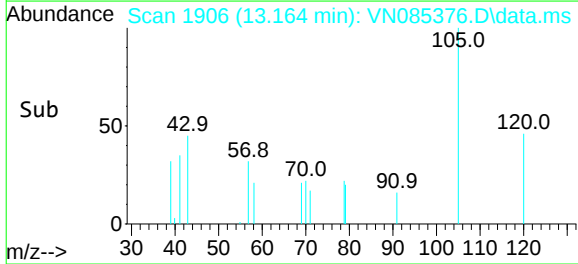
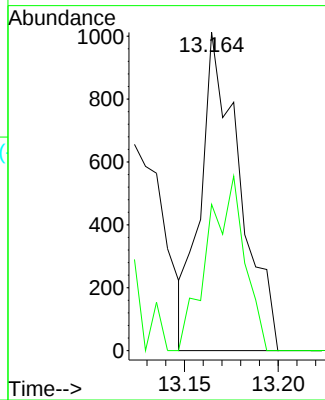
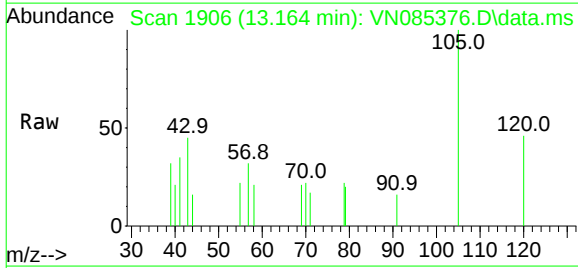
120 51.8 0.0 95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/02/2025

Supervised By :Mahesh Dadoda 01/03/2025



#80

1,2,4-Trimethylbenzene

Concen: 0.941 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.006 min

Lab File: VN085376.D

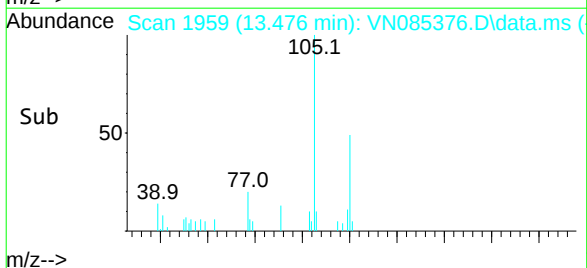
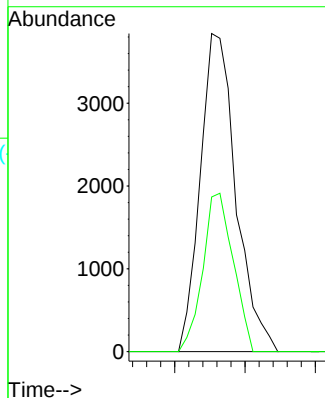
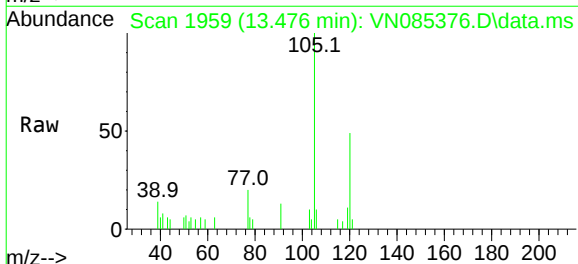
Acq: 02 Jan 2025 12:44

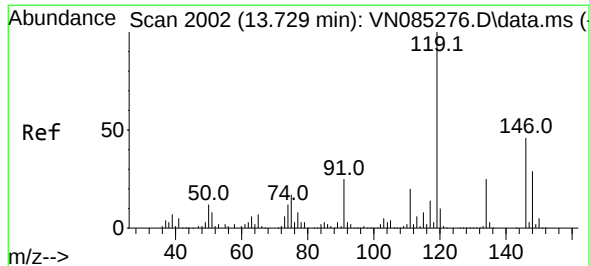
Tgt Ion:105 Resp: 6768

Ion Ratio Lower Upper

105 100

120 42.4 0.0 89.8





#82

p-Isopropyltoluene

Concen: 1.129 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085376.D

Acq: 02 Jan 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

001 WILLETS PT BLVD (DEC)

Tgt Ion:119 Resp: 7933

Ion Ratio Lower Upper

119 100

134 21.1 0.0 51.4

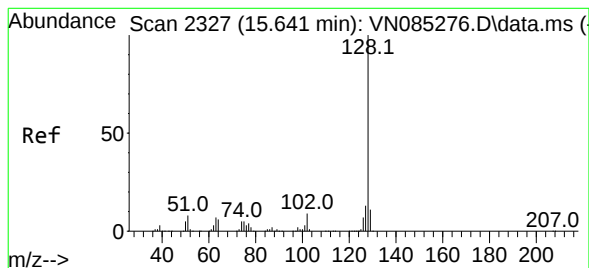
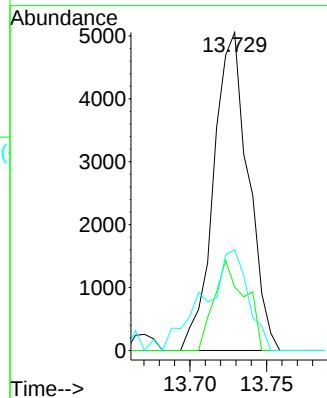
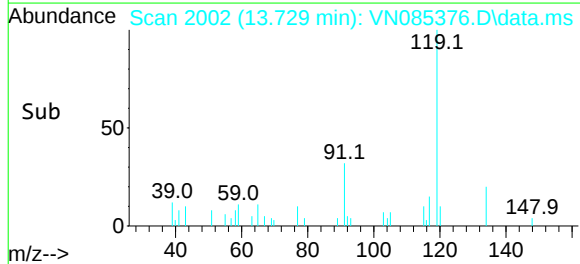
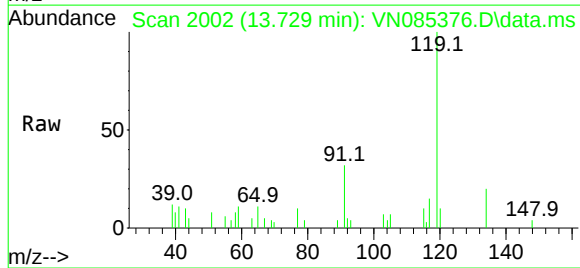
91 27.0 0.0 51.4

Manual Integrations

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Reviewed By :John Carlone 01/02/2025

Supervised By :Mahesh Dadoda 01/03/2025



#91

Naphthalene

Concen: 1.048 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.006 min

Lab File: VN085376.D

Acq: 02 Jan 2025 12:44

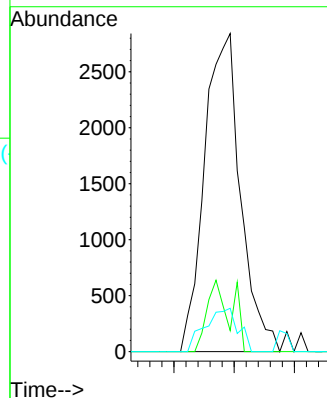
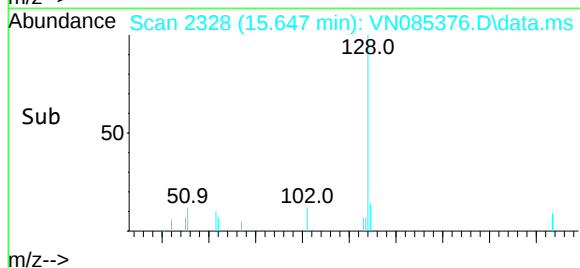
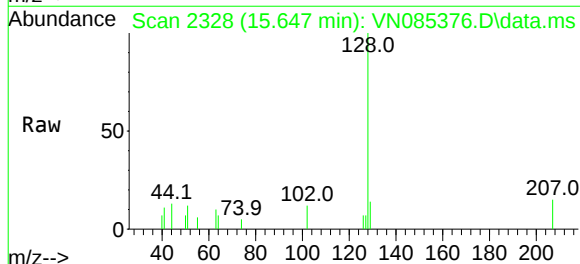
Tgt Ion:128 Resp: 5911

Ion Ratio Lower Upper

128 100

127 3.7 10.6 16.0#

129 12.5 8.6 13.0



Report of Analysis

Client:	Tully Environmental, Inc			Date Collected:	12/30/24	
Project:	Transfer Station-SPDES			Date Received:	12/31/24	
Client Sample ID:	002 35TH AVE (DEC)			SDG No.:	P5399	
Lab Sample ID:	P5399-04			Matrix:	Water	
Analytical Method:	E624.1			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-BTEX	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085377.D	1		01/02/25 13:08	VN010225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
108-88-3	Toluene	92.0		0.72	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.7		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	27.7		91 - 112	92%	SPK: 30
460-00-4	4-Bromofluorobenzene	26.4		63 - 112	88%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	27600	7.806			
540-36-3	1,4-Difluorobenzene	135000	9.1			
3114-55-4	Chlorobenzene-d5	130000	11.864			

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\VN010225\
 Data File : VN085377.D
 Acq On : 02 Jan 2025 13:08
 Operator : JC\MD
 Sample : P5399-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002 35TH AVE (DEC)

Manual Integrations
 APPROVED

Reviewed By :John Carlone 01/02/2025
 Supervised By :Mahesh Dadoda 01/03/2025

Quant Time: Jan 02 13:54:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	27625	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	134721	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.864	117	130305	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	72180	29.702	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.000%		
60) 4-Bromofluorobenzene	12.847	95	55707	26.392	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	87.967%		
63) Toluene-d8	10.565	98	176337	27.714	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	92.367%		
Target Compounds						
15) Acetone	4.430	58	16661	67.004	ug/l	94
16) Carbon Disulfide	4.724	76	13171m	2.539	ug/l	
30) 2-Butanone	7.482	43	13413	10.864	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	12444	4.711	ug/l	98
62) Toluene	10.629	91	736677	92.022	ug/l	100
66) Ethyl Benzene	11.964	91	1725	0.205	ug/l	92
67) m/p-Xylenes	12.059	106	1671	0.529	ug/l	83
68) o-Xylene	12.400	106	811m	0.269	ug/l	
80) 1,2,4-Trimethylbenzene	13.482	105	7574	1.180	ug/l	91
82) p-Isopropyltoluene	13.723	119	8378	1.336	ug/l	95
91) Naphthalene	15.641	128	5757	1.143	ug/l	98

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

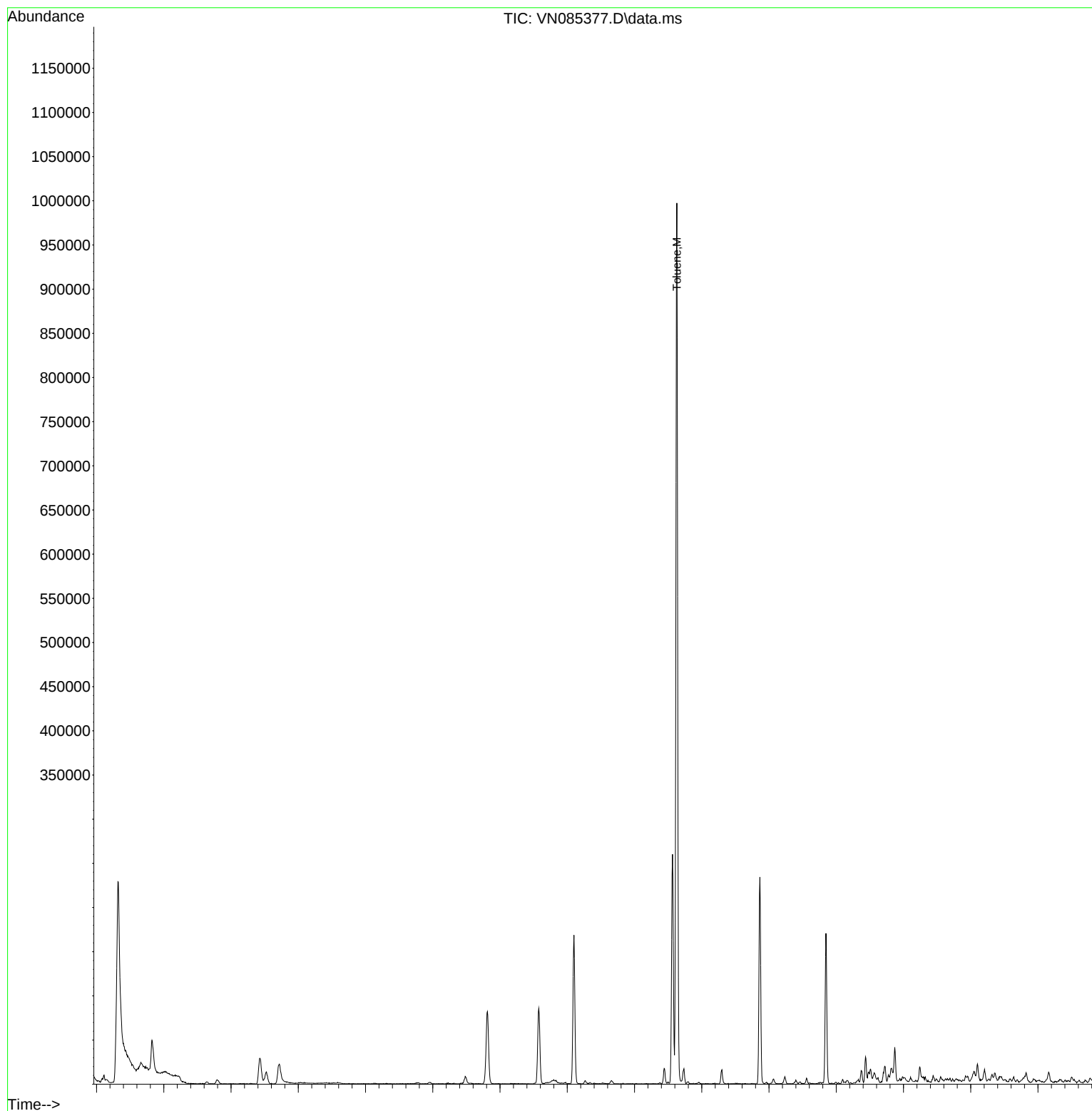
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
Data File : VN085377.D
Acq On : 02 Jan 2025 13:08
Operator : JC\MD
Sample : P5399-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

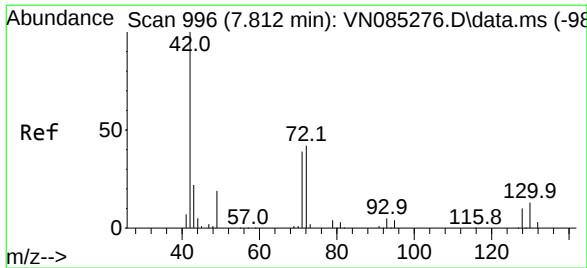
Instrument :
MSVOA_N
ClientSampleId :
002 35TH AVE (DEC)

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/02/2025
Supervised By : Mahesh Dadoda 01/03/2025

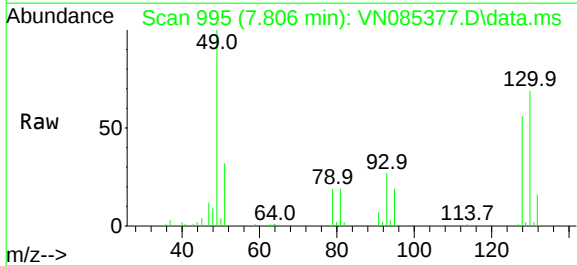
Quant Time: Jan 02 13:54:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN085377.D
Acq: 02 Jan 2025 13:08

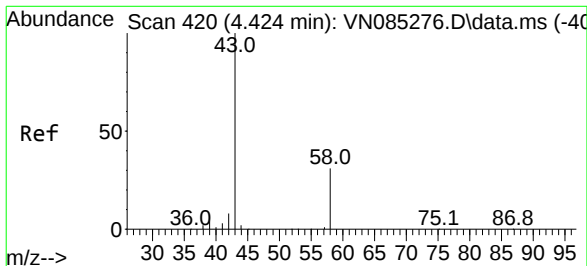
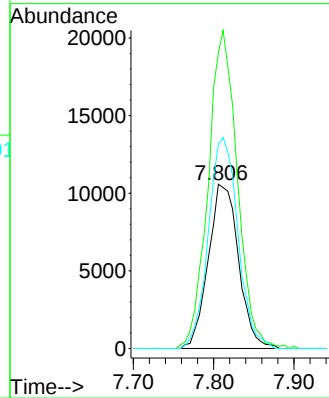
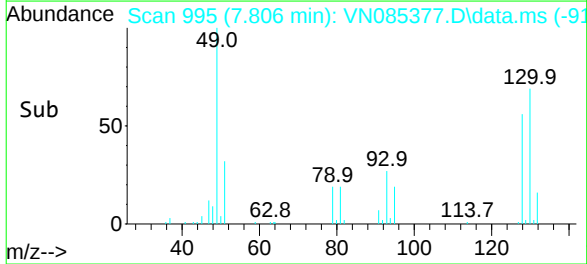
Instrument :
MSVOA_N
ClientSampleId :
002 35TH AVE (DEC)



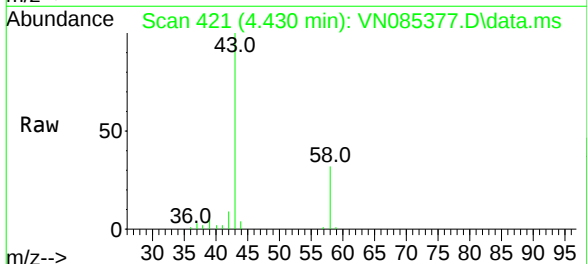
Tgt Ion: 128 Resp: 27625
Ion Ratio Lower Upper
128 100
49 186.7 0.0 497.8
130 125.9 0.0 328.5

Manual Integrations
APPROVED

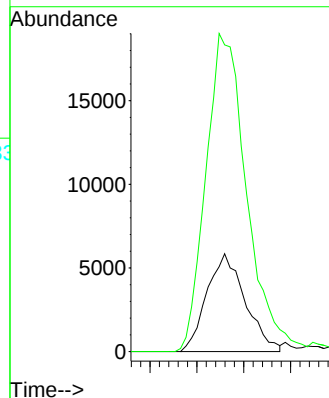
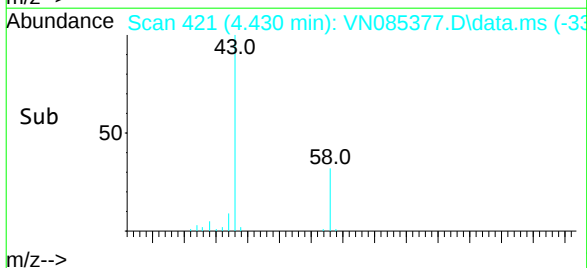
Reviewed By : John Carlone 01/02/2025
Supervised By : Mahesh Dadoda 01/03/2025

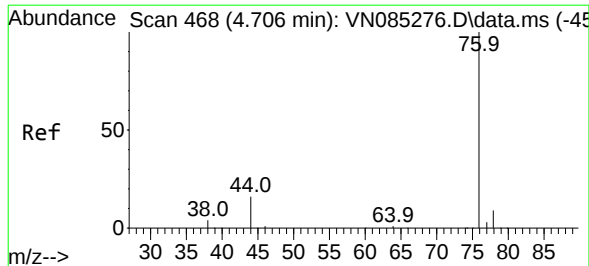


#15
Acetone
Concen: 67.004 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN085377.D
Acq: 02 Jan 2025 13:08



Tgt Ion: 58 Resp: 16661
Ion Ratio Lower Upper
58 100
43 310.3 258.8 388.2





#16

Carbon Disulfide

Concen: 2.539 ug/l m

RT: 4.724 min Scan# 471

Delta R.T. 0.012 min

Lab File: VN085377.D

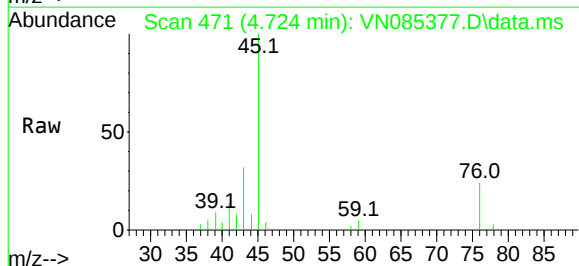
Acq: 02 Jan 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :

002 35TH AVE (DEC)



Tgt Ion: 76 Resp: 13171

Ion Ratio Lower Upper

76 100

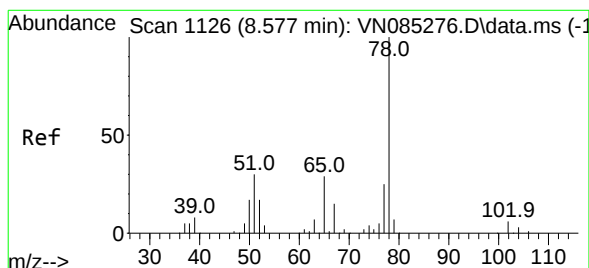
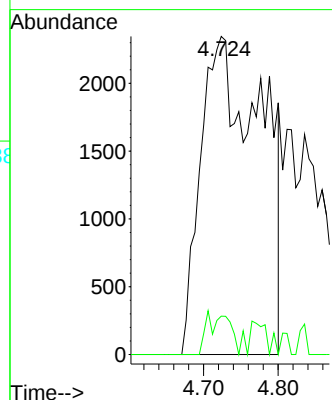
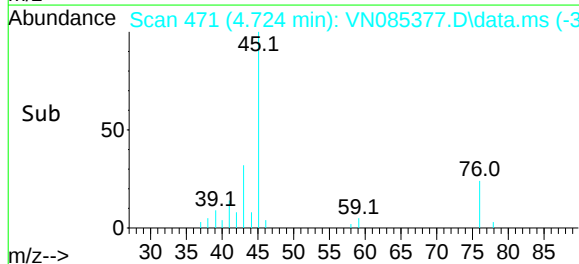
78 12.1 6.6 9.8#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/02/2025

Supervised By :Mahesh Dadoda 01/03/2025



#27

1,2-Dichloroethane-d4

Concen: 29.702 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN085377.D

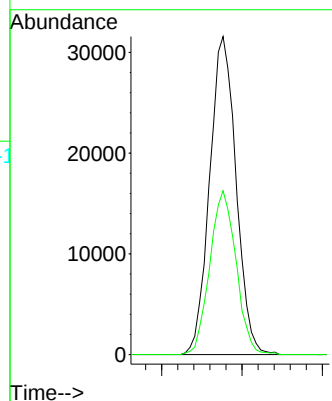
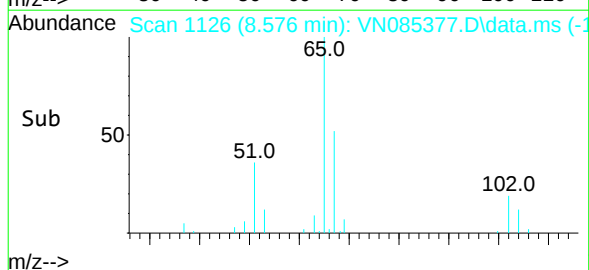
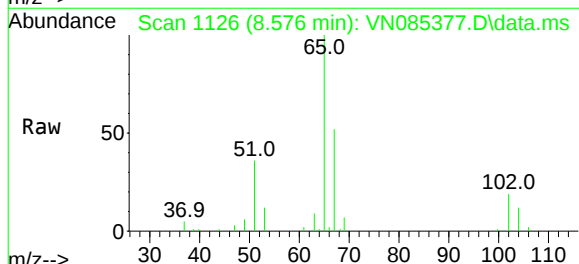
Acq: 02 Jan 2025 13:08

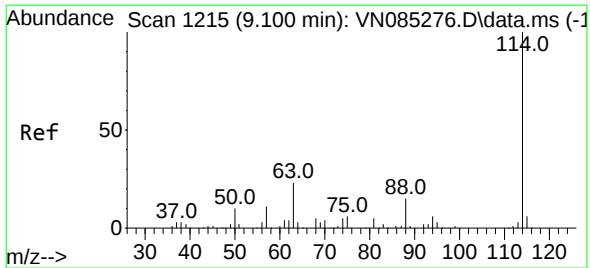
Tgt Ion: 65 Resp: 72180

Ion Ratio Lower Upper

65 100

67 51.2 42.0 63.0





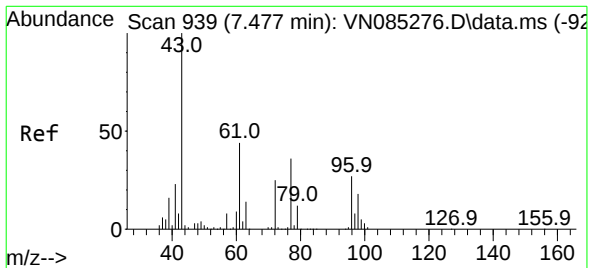
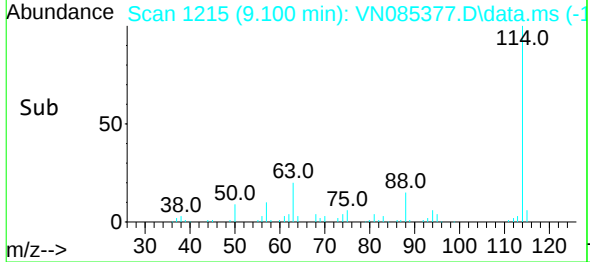
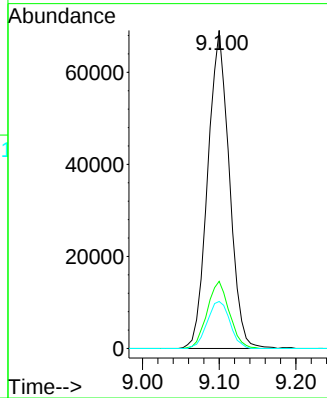
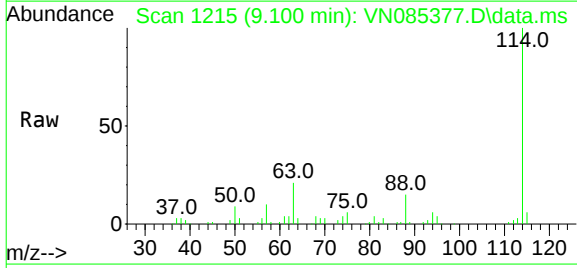
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN085377.D
Acq: 02 Jan 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :
002 35TH AVE (DEC)

Tgt Ion: 114 Resp: 134721
Ion Ratio Lower Upper
114 100
63 21.8 18.0 27.0
88 15.6 12.9 19.3

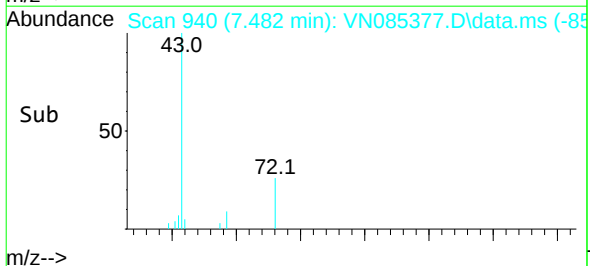
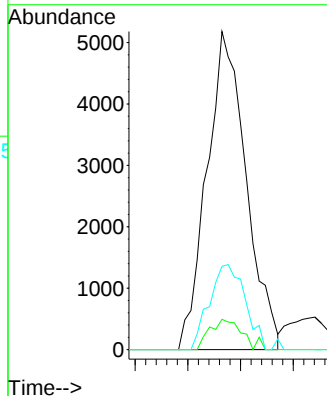
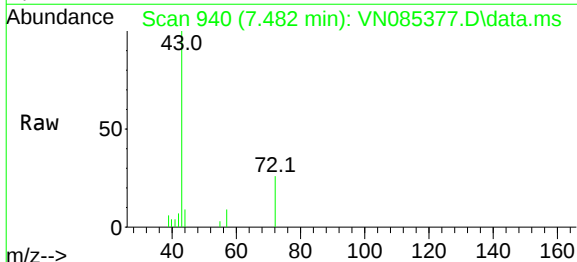
Manual Integrations
APPROVED

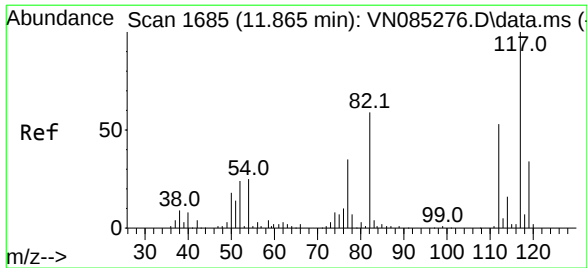
Reviewed By :John Carlone 01/02/2025
Supervised By :Mahesh Dadoda 01/03/2025



#30
2-Butanone
Concen: 10.864 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085377.D
Acq: 02 Jan 2025 13:08

Tgt Ion: 43 Resp: 13413
Ion Ratio Lower Upper
43 100
57 7.4 6.2 9.2
72 24.3 19.9 29.9





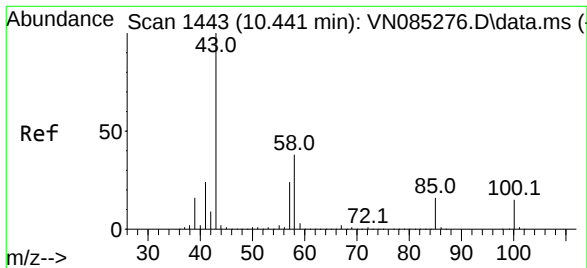
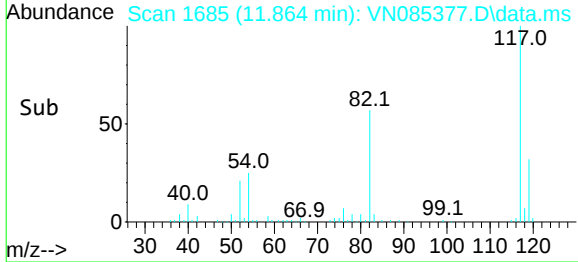
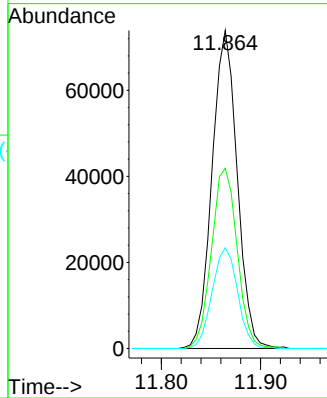
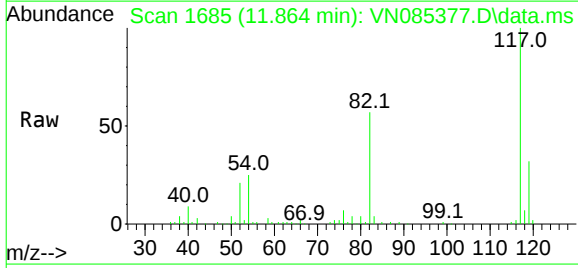
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.864 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085377.D
Acq: 02 Jan 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :
002 35TH AVE (DEC)

Tgt Ion: 117 Resp: 130305
Ion Ratio Lower Upper
117 100
82 57.8 47.4 71.0
119 32.0 25.3 37.9

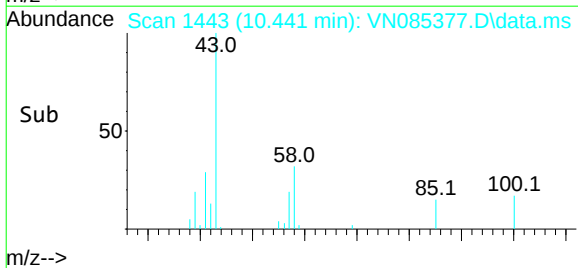
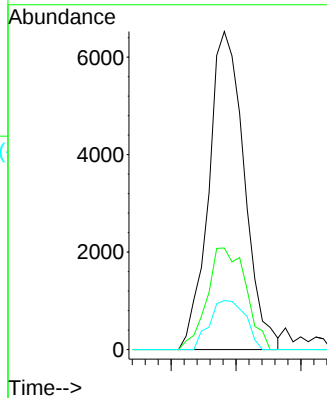
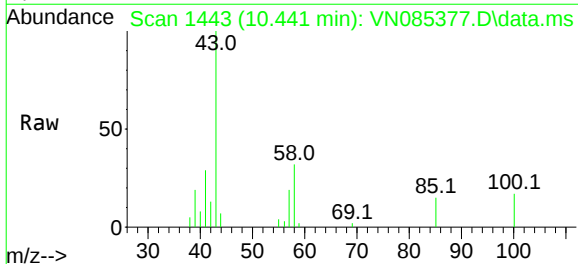
Manual Integrations
APPROVED

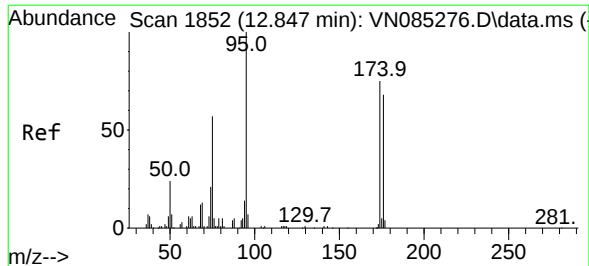
Reviewed By : John Carlone 01/02/2025
Supervised By : Mahesh Dadoda 01/03/2025



#58
4-Methyl-2-Pentanone
Concen: 4.711 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085377.D
Acq: 02 Jan 2025 13:08

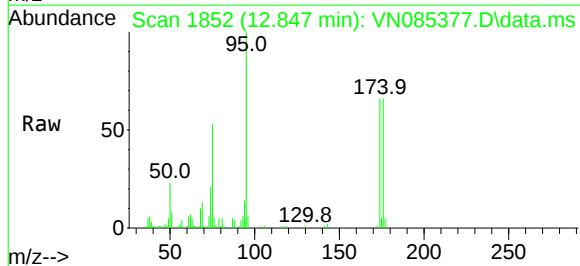
Tgt Ion: 43 Resp: 12444
Ion Ratio Lower Upper
43 100
58 34.8 29.2 43.8
85 15.6 12.8 19.2





#60
4-Bromofluorobenzene
Concen: 26.392 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085377.D
Acq: 02 Jan 2025 13:08

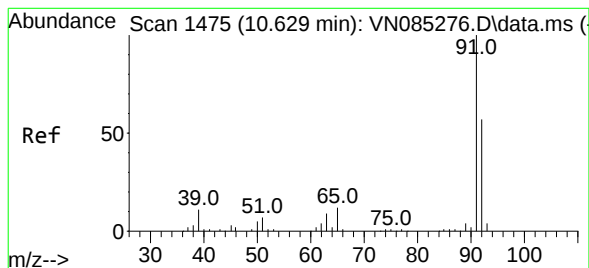
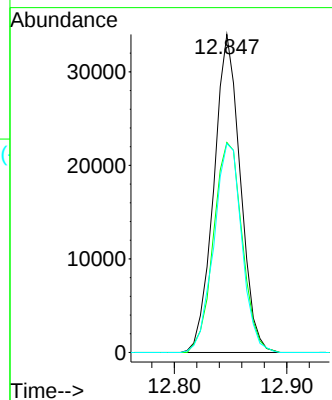
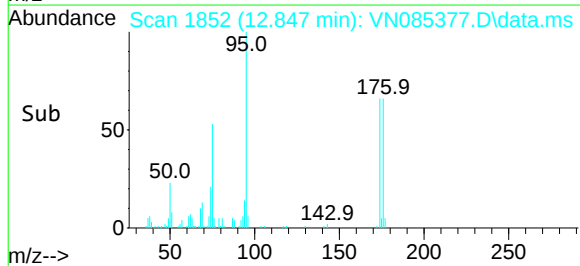
Instrument :
MSVOA_N
ClientSampleId :
002 35TH AVE (DEC)



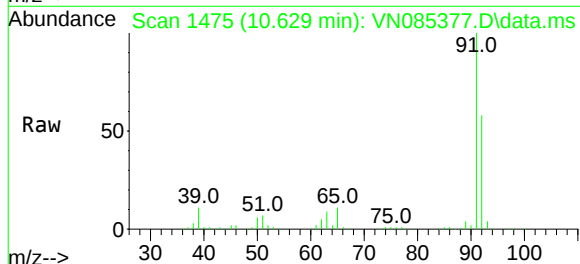
Tgt Ion: 95 Resp: 55707
Ion Ratio Lower Upper
95 100
174 71.4 57.8 86.8
176 69.1 57.1 85.7

Manual Integrations
APPROVED

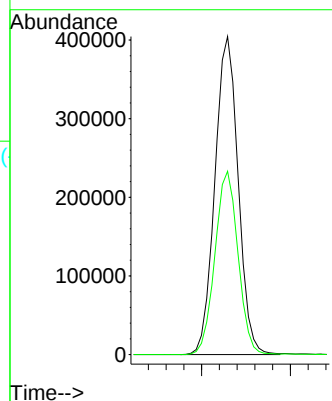
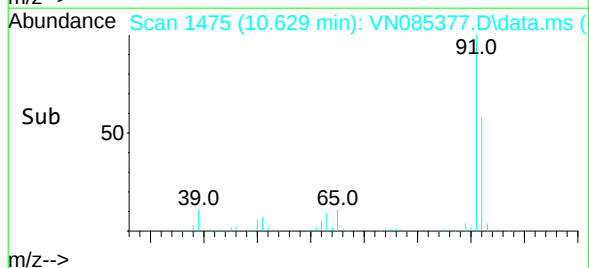
Reviewed By :John Carlone 01/02/2025
Supervised By :Mahesh Dadoda 01/03/2025

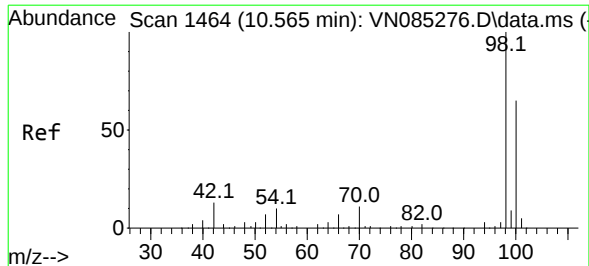


#62
Toluene
Concen: 92.022 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN085377.D
Acq: 02 Jan 2025 13:08



Tgt Ion: 91 Resp: 736677
Ion Ratio Lower Upper
91 100
92 57.1 45.9 68.9





#63

Toluene-d8

Concen: 27.714 ug/l

RT: 10.565 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN085377.D

Acq: 02 Jan 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :

002 35TH AVE (DEC)

Tgt Ion: 98 Resp: 176337

Ion Ratio Lower Upper

98 100

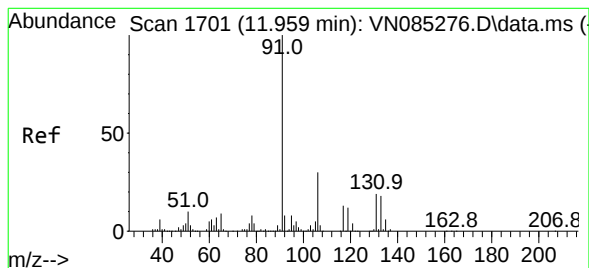
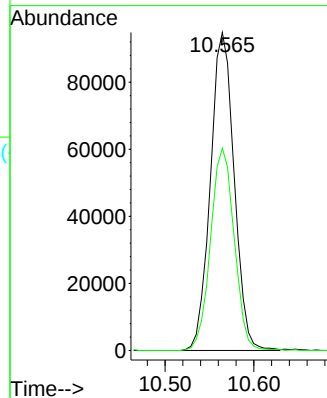
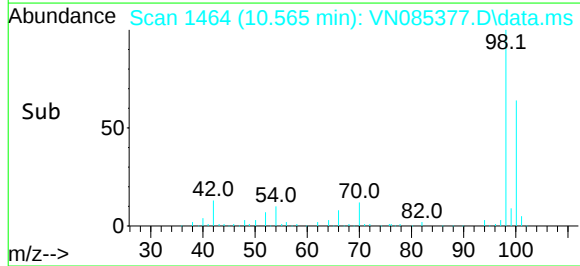
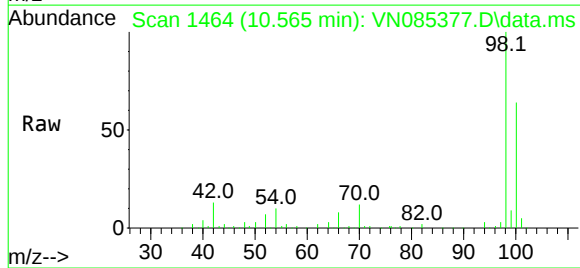
100 63.3 50.8 76.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/02/2025

Supervised By :Mahesh Dadoda 01/03/2025



#66

Ethyl Benzene

Concen: 0.205 ug/l

RT: 11.964 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN085377.D

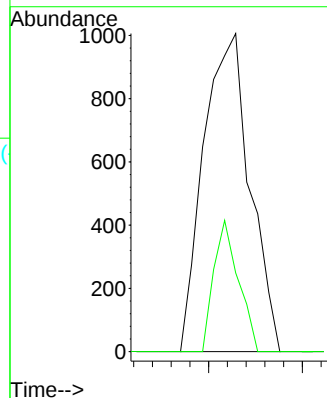
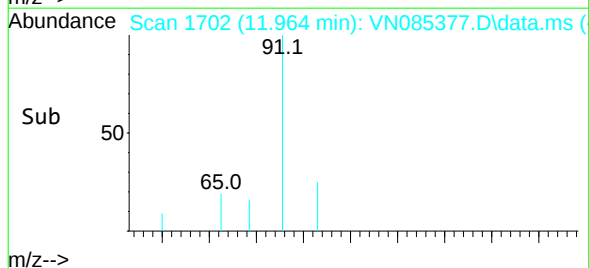
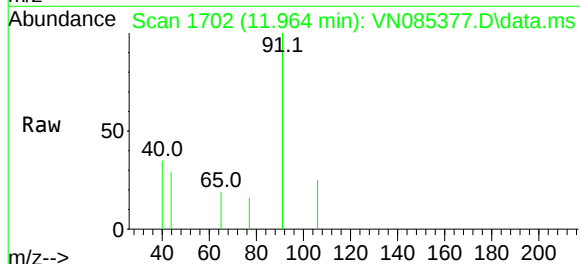
Acq: 02 Jan 2025 13:08

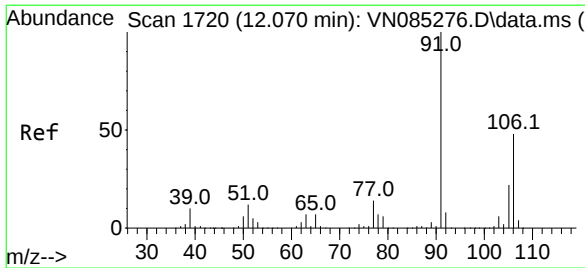
Tgt Ion: 91 Resp: 1725

Ion Ratio Lower Upper

91 100

106 24.8 23.2 34.8





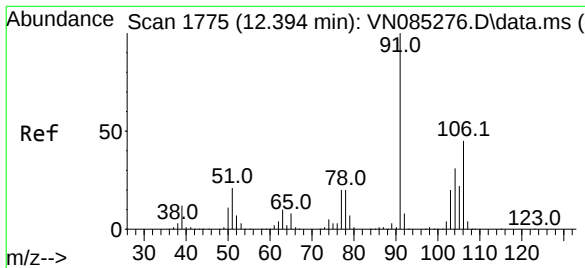
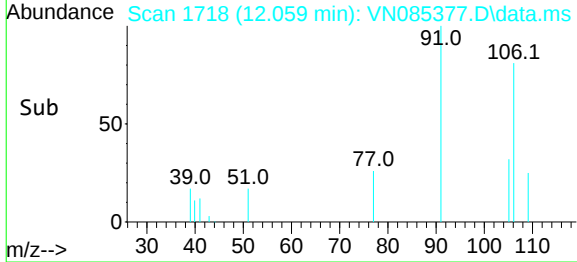
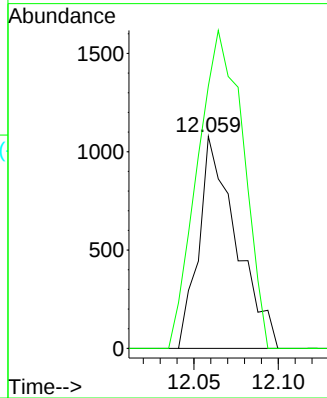
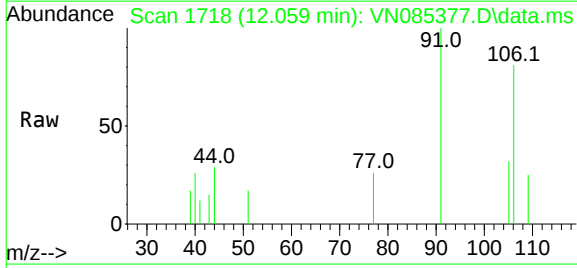
#67
m/p-Xylenes
Concen: 0.529 ug/l
RT: 12.059 min Scan# 1718
Delta R.T. -0.012 min
Lab File: VN085377.D
Acq: 02 Jan 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :
002 35TH AVE (DEC)

Tgt Ion:106 Resp: 1671
Ion Ratio Lower Upper
106 100
91 182.0 167.0 250.4

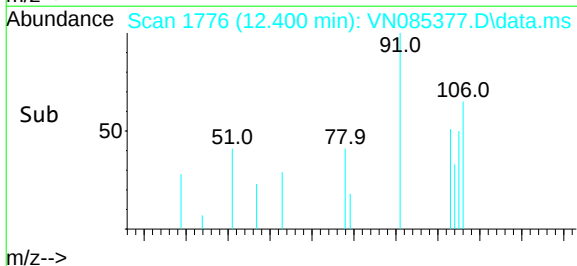
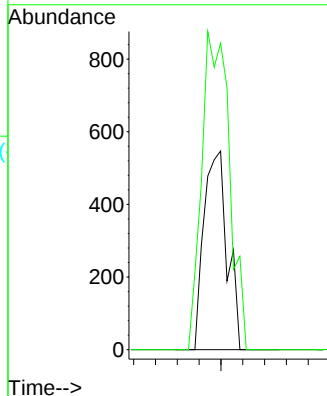
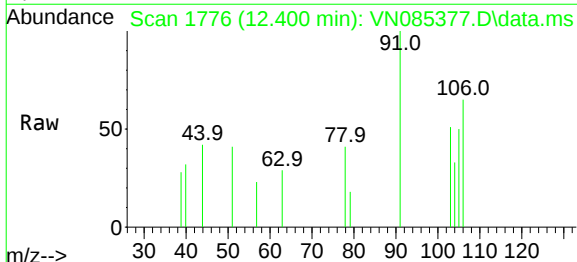
Manual Integrations
APPROVED

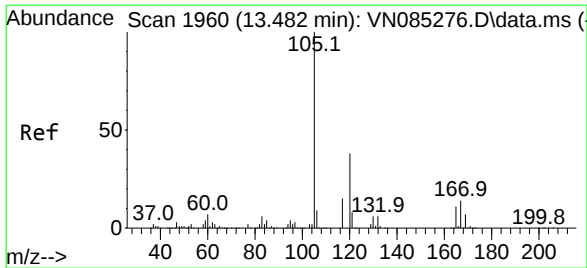
Reviewed By :John Carlone 01/02/2025
Supervised By :Mahesh Dadoda 01/03/2025



#68
o-Xylene
Concen: 0.269 ug/l m
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN085377.D
Acq: 02 Jan 2025 13:08

Tgt Ion:106 Resp: 811
Ion Ratio Lower Upper
106 100
91 375.0 110.6 331.8#





#80

1,2,4-Trimethylbenzene

Concen: 1.180 ug/l

RT: 13.482 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085377.D

Acq: 02 Jan 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :

002 35TH AVE (DEC)

Tgt Ion:105 Resp: 7574

Ion Ratio Lower Upper

105 100

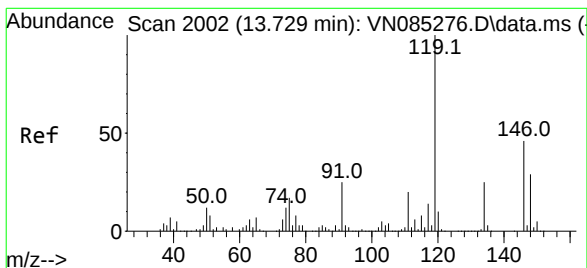
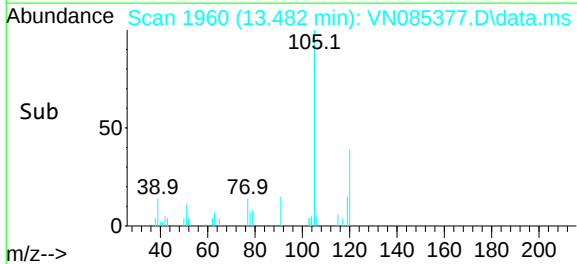
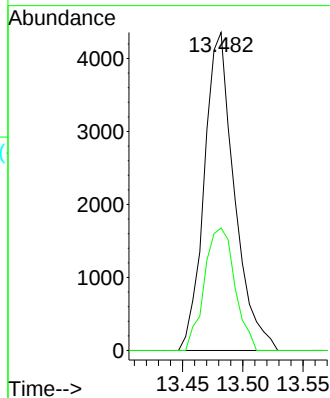
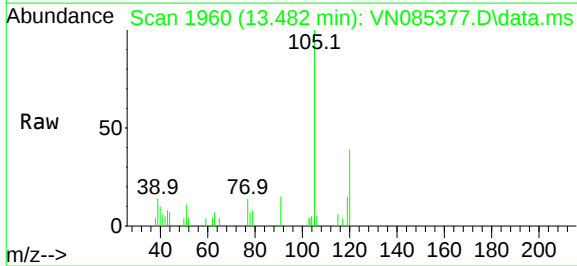
120 38.8 0.0 89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/02/2025

Supervised By :Mahesh Dadoda 01/03/2025



#82

p-Isopropyltoluene

Concen: 1.336 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN085377.D

Acq: 02 Jan 2025 13:08

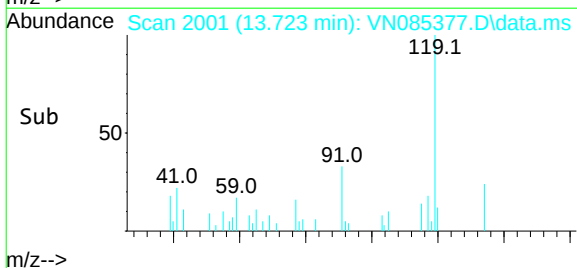
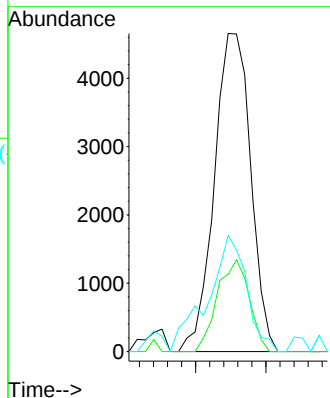
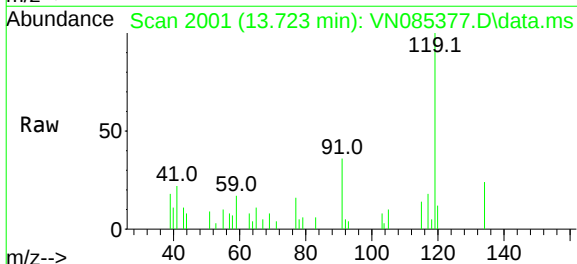
Tgt Ion:119 Resp: 8378

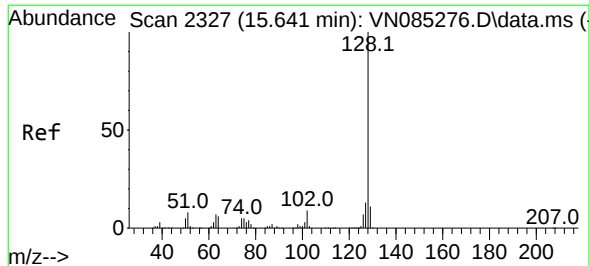
Ion Ratio Lower Upper

119 100

134 25.2 0.0 51.4

91 30.6 0.0 51.4





#91

Naphthalene

Concen: 1.143 ug/l

RT: 15.641 min Scan# 23

Delta R.T. -0.000 min

Lab File: VN085377.D

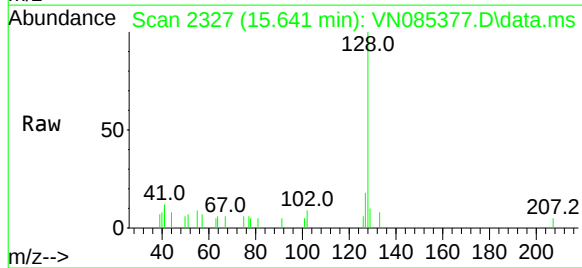
Acq: 02 Jan 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :

002 35TH AVE (DEC)

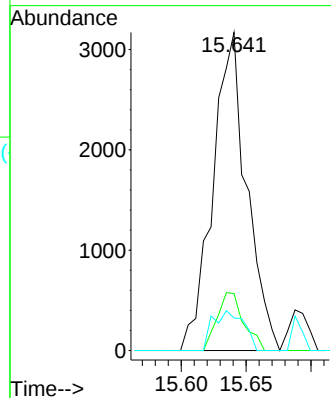
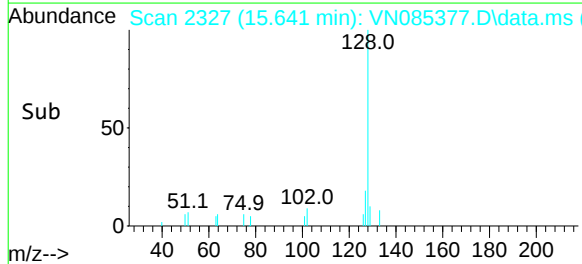


Tgt Ion:	128	Resp:	5757
Ion Ratio	Lower	Upper	
128	100		
127	14.2	10.6	16.0
129	11.4	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/02/2025
Supervised By :Mahesh Dadoda 01/03/2025





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: TULL01
 Lab Code: CHEM Case No.: P5399 SAS No.: P5399 SDG No.: P5399
 Instrument ID: MSVOA_N Calibration Date(s): 12/20/2024 12/20/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:05 11:42
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VN085272.D		RRF020 = VN085273.D		RRF050 = VN085274.D	
		RRF100 = VN085275.D		RRF150 = VN085276.D		RRF =	
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Benzene	1.746	1.700	1.610	1.606	1.570	1.646	4.5
Toluene	1.976	1.904	1.792	1.773	1.770	1.843	5
Ethyl Benzene	1.810	1.922	1.957	2.001	2.007	1.939	4.1
m/p-Xylenes	0.658	0.752	0.748	0.743	0.737	0.728	5.4
o-Xylene	0.645	0.695	0.705	0.714	0.706	0.693	4
1,2-Dichloroethane-d4	2.636	2.656	2.614	2.597	2.692	2.639	1.4
Toluene-d8	1.528	1.510	1.446	1.411	1.430	1.465	3.5
4-Bromofluorobenzene	0.468	0.488	0.484	0.489	0.501	0.486	2.5

* 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 : 624N122024W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Sat Dec 21 02:03:07 2024
 Response Via : Initial Calibration

Calibration Files

5 =VN085272.D 20 =VN085273.D 50 =VN085274.D 100 =VN085275.D 150 =VN085276.D

	Compound	5	20	50	100	150	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoro...	2.400	2.651	2.538	2.398	2.555	2.508	4.33
3) M	Chloromethane	2.717	2.623	2.537	2.356	2.430	2.533	5.72
4) M	Vinyl Chloride	2.739	2.617	2.511	2.443	2.548	2.572	4.38
5) M	Bromomethane	1.684	1.486	1.447	1.406	1.495	1.503	7.12
6) M	Chloroethane	1.819	1.683	1.574	1.486	1.555	1.623	8.01
7) M	Trichlorofluorom...	3.660	3.639	3.515	3.359	3.492	3.533	3.45
8) T	Diethyl Ether	1.187	1.178	1.211	1.214	1.293	1.217	3.75
9)	1,1,2-Trichlorot...	2.102	2.090	1.976	1.943	2.033	2.029	3.42
10) M	1,1-Dichloroethene	1.861	1.828	1.825	1.812	1.940	1.853	2.80
11)	Methyl Iodide	1.796	2.134	2.294	2.348	2.534	2.221	12.47
12)	Methyl Acetate	2.533	2.813	2.754	2.736	3.003	2.768	6.09
13) M	Acrolein	0.327	0.221	0.221	0.212	0.255	0.247	19.38
14) M	Acrylonitrile	0.962	1.074	1.078	1.080	1.158	1.070	6.53
15) M	Acetone	0.271	0.275	0.263	0.262	0.279	0.270	2.80
16) M	Carbon Disulfide	5.982	5.697	5.501	5.326	5.663	5.634	4.34
17)	Allyl chloride	2.801	2.937	3.000	2.997	3.255	2.998	5.49
18) M	Methylene Chloride	2.390	2.246	2.145	2.069	2.193	2.208	5.45
19) M	trans-1,2-Dichlo...	1.886	1.924	1.933	1.885	2.011	1.928	2.66
20) T	Diisopropyl ether	6.232	7.037	6.941	6.842	7.302	6.871	5.76
21) M	1,1-Dichloroethane	4.112	4.091	3.945	3.848	4.088	4.017	2.88
22) M	cis-1,2-Dichloro...	2.237	2.285	2.270	2.289	2.396	2.295	2.61
23) M	tert-Butyl Alcohol	0.310	0.337	0.354	0.368	0.396	0.353	9.20
24) M	Methyl tert-Buty...	5.238	6.026	6.157	6.242	6.753	6.083	8.99
25) M	Chloroform	4.294	4.193	3.985	3.831	4.055	4.072	4.43
26)	Cyclohexane	2.588	3.018	3.154	3.187	3.367	3.063	9.57
27) s	1,2-Dichloroetha...	2.636	2.656	2.614	2.597	2.692	2.639	1.41
28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.512	0.528	0.518	0.529	0.518	0.521	1.41
30) M	2-Butanone	0.258	0.280	0.275	0.282	0.279	0.275	3.51
31)	2,2-Dichloropropane	0.688	0.678	0.647	0.648	0.639	0.660	3.31
32) M	1,1,1-Trichloroe...	0.743	0.695	0.657	0.649	0.641	0.677	6.25
33) M	Carbon Tetrachlo...	0.643	0.605	0.581	0.573	0.561	0.593	5.47
34) M	Benzene	1.746	1.700	1.610	1.606	1.570	1.646	4.47
35)	Methacrylonitrile	0.296	0.307	0.300	0.307	0.311	0.304	1.94
36) M	1,2-Dichloroethane	0.669	0.610	0.577	0.568	0.553	0.595	7.73
37) M	Trichloroethene	0.383	0.368	0.354	0.353	0.352	0.362	3.72
38)	Methylcyclohexane	0.495	0.500	0.547	0.582	0.571	0.539	7.46
39) M	1,2-Dichloropropane	0.441	0.431	0.413	0.405	0.404	0.419	3.94
40)	Dibromomethane	0.318	0.299	0.287	0.281	0.276	0.292	5.76
41) M	Bromodichloromet...	0.645	0.633	0.595	0.592	0.587	0.610	4.38
42) M	Vinyl Acetate	0.845	0.964	0.995	1.025	1.025	0.971	7.69
43)	Ethyl Acetate	0.564	0.558	0.567	0.581	0.573	0.569	1.59
44)	Isopropyl Acetate	0.920	0.950	0.929	0.966	0.958	0.945	2.08
45) T	1,4-Dioxane	0.007	0.007	0.008	0.008	0.007	0.007	5.72
46)	Methyl methacrylate	0.385	0.441	0.449	0.460	0.457	0.438	7.00
47)	n-amyl Acetate	0.647	0.787	0.819	0.877	0.893	0.805	12.18
48) M	t-1,3-Dichloropr...	0.583	0.595	0.604	0.614	0.619	0.603	2.39
49) T	cis-1,3-Dichloro...	0.647	0.645	0.644	0.655	0.650	0.648	0.74
50) M	1,1,2-Trichloroe...	0.421	0.402	0.367	0.365	0.355	0.382	7.39
51)	Ethyl methacrylate	0.464	0.555	0.596	0.631	0.641	0.578	12.43
52)	1,3-Dichloropropane	0.678	0.694	0.659	0.662	0.641	0.667	3.01
53) M	Dibromochloromet...	0.475	0.466	0.437	0.431	0.429	0.448	4.81
54) M	1,2-Dibromoethane	0.375	0.376	0.364	0.369	0.364	0.370	1.56
55) M	2-Chloroethyl vi...	0.283	0.293	0.300	0.297	0.315	0.298	3.96
56) M	Bromoform	0.304	0.294	0.284	0.291	0.288	0.292	2.56

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N122024W.M

57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Penta...	0.568	0.637	0.612	0.608	0.616	0.608	4.11
59) M	2-Hexanone	0.392	0.459	0.451	0.452	0.455	0.442	6.29
60) S	4-Bromofluoroben...	0.468	0.488	0.484	0.489	0.501	0.486	2.49
61) M	Tetrachloroethene	0.387	0.344	0.324	0.310	0.310	0.335	9.63
62) M	Toluene	1.976	1.904	1.792	1.773	1.770	1.843	5.02
63) S	Toluene-d8	1.528	1.510	1.446	1.411	1.430	1.465	3.51
64) M	Chlorobenzene	1.163	1.131	1.095	1.080	1.089	1.112	3.13
65)	1,1,1,2-Tetrachl...	0.434	0.420	0.393	0.385	0.384	0.403	5.59
66) M	Ethyl Benzene	1.810	1.922	1.957	2.001	2.007	1.939	4.12
67) M	m/p-Xylenes	0.658	0.752	0.748	0.743	0.737	0.728	5.40
68) M	o-Xylene	0.645	0.695	0.705	0.714	0.706	0.693	4.03
69) M	Styrene	0.978	1.193	1.232	1.227	1.225	1.171	9.31
70)	Isopropylbenzene	1.500	1.731	1.802	1.822	1.846	1.740	8.11
71) M	1,1,2,2-Tetrachl...	0.698	0.626	0.594	0.586	0.583	0.617	7.84
72)	1,2,3-Trichlorop...	0.611	0.505	0.558	0.480	0.473	0.525	11.11
73)	Bromobenzene	0.422	0.444	0.432	0.426	0.425	0.430	2.04
74)	n-propylbenzene	1.954	2.178	2.211	2.249	2.248	2.168	5.68
75)	2-Chlorotoluene	1.208	1.315	1.329	1.346	1.333	1.306	4.30
76)	1,3,5-Trimethylb...	1.270	1.515	1.555	1.556	1.529	1.485	8.18
77)	t-1,4-Dichloro-2...	0.189	0.201	0.216	0.228	0.240	0.215	9.39
78)	4-Chlorotoluene	1.236	1.330	1.355	1.362	1.356	1.328	3.98
79)	tert-butylbenzene	1.058	1.174	1.266	1.288	1.285	1.214	8.15
80)	1,2,4-Trimethylb...	1.223	1.494	1.555	1.569	1.549	1.478	9.84
81)	sec-Butylbenzene	1.509	1.713	1.826	1.858	1.858	1.753	8.48
82)	p-Isopropyltoluene	1.196	1.376	1.521	1.561	1.565	1.444	10.96
83) M	1,3-Dichlorobenzene	0.775	0.818	0.808	0.810	0.798	0.802	2.08
84) M	1,4-Dichlorobenzene	0.741	0.754	0.794	0.791	0.798	0.776	3.36
85)	n-Butylbenzene	0.997	1.149	1.290	1.387	1.410	1.247	13.90
86) T	Hexachloroethane	0.313	0.318	0.305	0.306	0.308	0.310	1.76
87) M	1,2-Dichlorobenzene	0.730	0.768	0.784	0.766	0.760	0.762	2.61
88)	1,2-Dibromo-3-Ch...	0.101	0.112	0.115	0.116	0.120	0.113	6.08
89)	1,2,4-Trichlorob...	0.303	0.344	0.373	0.383	0.402	0.361	10.66
90)	Hexachlorobutadiene	0.202	0.179	0.174	0.174	0.172	0.180	6.87
91) M	Naphthalene	0.790	1.044	1.199	1.333	1.431	1.159	21.79
92)	1,2,3-Trichlorob...	0.303	0.344	0.373	0.383	0.402	0.361	10.66

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085272.D
 Acq On : 20 Dec 2024 10:05
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Dec 21 01:40:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:29:00 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	29925	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	147950	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	134950	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	78890	29.968	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.900%
60) 4-Bromofluorobenzene	12.847	95	63148	28.888	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.300%
63) Toluene-d8	10.565	98	206247	31.299	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	104.333%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	11972	4.785	ug/l	93
3) Chloromethane	2.360	50	13552	5.364	ug/l	96
4) Vinyl Chloride	2.513	62	13662	5.326	ug/l	92
5) Bromomethane	2.954	94	8400	5.602	ug/l	99
6) Chloroethane	3.118	64	9071	5.602	ug/l	97
7) Trichlorofluoromethane	3.501	101	18255	5.180	ug/l	93
8) Diethyl Ether	3.960	74	5921	4.878	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	10482	5.180	ug/l	91
10) 1,1-Dichloroethene	4.336	96	9284m	5.022	ug/l	
11) Methyl Iodide	4.589	142	8960	4.044	ug/l	90
12) Methyl Acetate	5.012	43	12634m	4.580	ug/l	
13) Acrolein	4.177	56	8162	33.117	ug/l #	63
14) Acrylonitrile	5.724	53	23999	22.475	ug/l	99
15) Acetone	4.436	58	6761m	25.100	ug/l	
16) Carbon Disulfide	4.707	76	29834	5.309	ug/l	96
17) Allyl chloride	5.024	41	13971	4.672	ug/l	89
18) Methylene Chloride	5.277	84	11918	5.410	ug/l	89
19) trans-1,2-Dichloroethene	5.789	96	9407	4.892	ug/l #	76
20) Diisopropyl ether	6.665	45	31084	4.535	ug/l #	93
21) 1,1-Dichloroethane	6.571	63	20511	5.119	ug/l #	89
22) cis-1,2-Dichloroethene	7.483	96	11156	4.872	ug/l	100
23) tert-Butyl Alcohol	5.518	59	7725m	21.952	ug/l	
24) Methyl tert-Butyl Ether	5.795	73	26125	4.305	ug/l #	66
25) Chloroform	7.965	83	21418	5.273	ug/l	98
26) Cyclohexane	8.253	56	12906	4.225	ug/l #	97
29) 1,1-Dichloropropene	8.365	75	12620	4.913	ug/l #	62
30) 2-Butanone	7.477	43	31835	23.479	ug/l #	63
31) 2,2-Dichloropropane	7.489	77	16976	5.215	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	18325	5.488	ug/l	99
33) Carbon Tetrachloride	8.359	117	15855	5.424	ug/l	84
34) Benzene	8.606	78	43060	5.303	ug/l	93
35) Methacrylonitrile	7.783	41	7309m	4.869	ug/l	
36) 1,2-Dichloroethane	8.665	62	16492	5.617	ug/l	98
37) Trichloroethene	9.347	130	9449	5.289	ug/l	99
38) Methylcyclohexane	9.600	83	12207	4.592	ug/l	99
39) 1,2-Dichloropropane	9.624	63	10877	5.265	ug/l	94
40) Dibromomethane	9.706	93	7832	5.438	ug/l	99
41) Bromodichloromethane	9.883	83	15902	5.283	ug/l	99
42) Vinyl Acetate	6.601	43	104153	21.761	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085272.D
 Acq On : 20 Dec 2024 10:05
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Dec 21 01:40:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:29:00 2024
 Response via : Initial Calibration

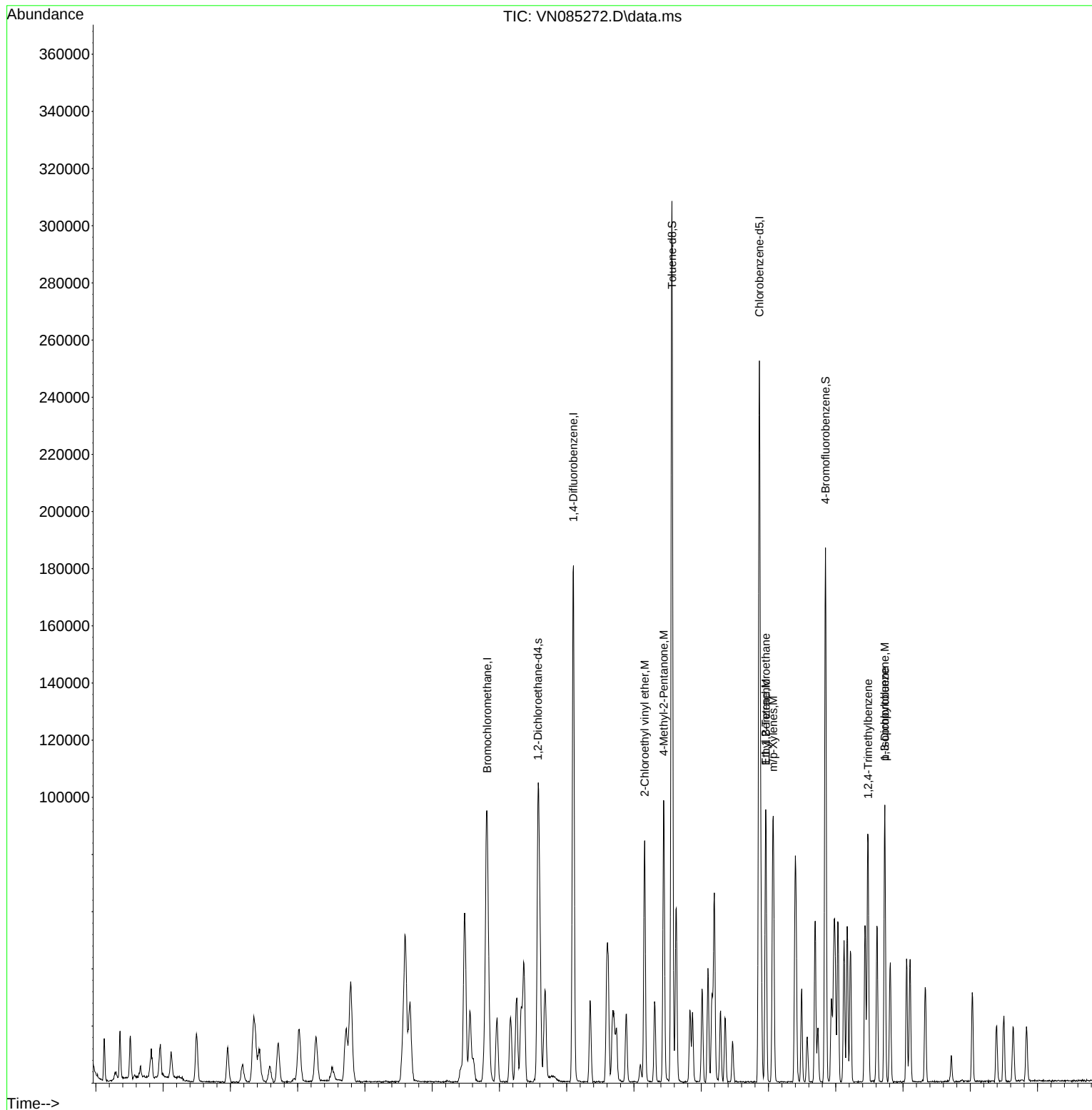
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	13903	4.958	ug/l	98
44) Isopropyl Acetate	8.683	43	22675	4.868	ug/l	95
45) 1,4-Dioxane	9.700	88	3355	92.601	ug/l #	83
46) Methyl methacrylate	9.677	41	9500	4.394	ug/l	91
47) n-amyl Acetate	12.494	43	15955	4.021	ug/l	95
48) t-1,3-Dichloropropene	10.830	75	14385	4.838	ug/l	95
49) cis-1,3-Dichloropropene	10.306	75	15948	4.989	ug/l	93
50) 1,1,2-Trichloroethane	11.012	97	10385	5.513	ug/l	89
51) Ethyl methacrylate	10.871	69	11450	4.019	ug/l	87
52) 1,3-Dichloropropane	11.159	76	16708	5.081	ug/l	97
53) Dibromochloromethane	11.359	129	11724	5.312	ug/l	98
54) 1,2-Dibromoethane	11.465	107	9241	5.069	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	34874	23.763	ug/l	99
56) Bromoform	12.577	173	7486	5.199	ug/l #	92
58) 4-Methyl-2-Pentanone	10.442	43	63871	23.347	ug/l	99
59) 2-Hexanone	11.194	43	44133	22.206	ug/l	95
61) Tetrachloroethene	11.106	164	8697	5.773	ug/l	86
62) Toluene	10.624	91	44448	5.361	ug/l	99
64) Chlorobenzene	11.888	112	26160	5.232	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	9761	5.383	ug/l	96
66) Ethyl Benzene	11.959	91	40717	4.667	ug/l	97
67) m/p-Xylenes	12.071	106	29599	9.044	ug/l	99
68) o-Xylene	12.394	106	14496	4.650	ug/l	96
69) Styrene	12.412	104	21997	4.175	ug/l	95
70) Isopropylbenzene	12.694	105	33727	4.309	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	15703	5.656	ug/l	94
72) 1,2,3-Trichloropropane	12.994	75	13741m	5.523	ug/l	
73) Bromobenzene	12.977	156	9490	4.907	ug/l	93
74) n-propylbenzene	13.035	91	43948	4.507	ug/l	98
75) 2-Chlorotoluene	13.124	91	27159	4.623	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	28562	4.276	ug/l	99
77) t-1,4-Dichloro-2-butene	12.730	75	4250	4.401	ug/l	93
78) 4-Chlorotoluene	13.218	91	27799	4.654	ug/l	100
79) tert-butylbenzene	13.435	119	23802	4.357	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	27501	4.138	ug/l	95
81) sec-Butylbenzene	13.612	105	33950	4.305	ug/l	98
82) p-Isopropyltoluene	13.730	119	26904	4.142	ug/l	98
83) 1,3-Dichlorobenzene	13.730	146	17432	4.833	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	16668	4.777	ug/l	98
85) n-Butylbenzene	14.053	91	22425	3.999	ug/l	97
86) Hexachloroethane	14.329	117	7051	5.057	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	16417	4.791	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	2281m	4.501	ug/l	
89) 1,2,4-Trichlorobenzene	15.841	180	6811	4.196	ug/l	96
90) Hexachlorobutadiene	15.500	225	4533	5.602	ug/l	97
91) Naphthalene	15.641	128	17764	3.406	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	6811	4.196	ug/l	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085272.D
Acq On : 20 Dec 2024 10:05
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Dec 21 01:40:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085273.D
 Acq On : 20 Dec 2024 10:29
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Dec 21 01:54:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:51:00 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29576	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	153203	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	143051	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	78544	30.189	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.633%	
60) 4-Bromofluorobenzene	12.847	95	69746	30.099	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.333%	
63) Toluene-d8	10.565	98	215956	30.916	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.067%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	52267	21.135	ug/l	100
3) Chloromethane	2.359	50	51713	20.711	ug/l	100
4) Vinyl Chloride	2.512	62	51594	20.351	ug/l	100
5) Bromomethane	2.959	94	29293	19.765	ug/l	100
6) Chloroethane	3.118	64	33189	20.738	ug/l	100
7) Trichlorofluoromethane	3.500	101	71742	20.598	ug/l	100
8) Diethyl Ether	3.959	74	23223	19.360	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	41211	20.605	ug/l	100
10) 1,1-Dichloroethene	4.342	96	36049	19.730	ug/l	100
11) Methyl Iodide	4.589	142	42072	19.213	ug/l	100
12) Methyl Acetate	5.024	43	55461	20.341	ug/l	100
13) Acrolein	4.183	56	21739	89.245	ug/l	100
14) Acrylonitrile	5.718	53	105856	100.305	ug/l	100
15) Acetone	4.430	58	27144	101.962	ug/l	100
16) Carbon Disulfide	4.712	76	112335	20.226	ug/l	100
17) Allyl chloride	5.024	41	57914	19.594	ug/l	100
18) Methylene Chloride	5.271	84	44276	20.336	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	37932	19.960	ug/l	100
20) Diisopropyl ether	6.671	45	138751	20.483	ug/l	100
21) 1,1-Dichloroethane	6.565	63	80659	20.368	ug/l	100
22) cis-1,2-Dichloroethene	7.482	96	45052	19.908	ug/l	100
23) tert-Butyl Alcohol	5.518	59	33206	95.473	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	118809	19.811	ug/l	100
25) Chloroform	7.965	83	82672	20.595	ug/l	100
26) Cyclohexane	8.253	56	59501	19.707	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	53883	20.257	ug/l	100
30) 2-Butanone	7.477	43	143077	101.902	ug/l	100
31) 2,2-Dichloropropane	7.488	77	69250	20.546	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	71008	20.535	ug/l	100
33) Carbon Tetrachloride	8.359	117	61840	20.430	ug/l	100
34) Benzene	8.606	78	173626	20.650	ug/l	100
35) Methacrylonitrile	7.771	41	31344	20.166	ug/l	100
36) 1,2-Dichloroethane	8.665	62	62275	20.482	ug/l	100
37) Trichloroethene	9.347	130	37633	20.343	ug/l	100
38) Methylcyclohexane	9.600	83	51030	18.539	ug/l	100
39) 1,2-Dichloropropane	9.618	63	44023	20.579	ug/l	100
40) Dibromomethane	9.706	93	30578	20.502	ug/l	100
41) Bromodichloromethane	9.882	83	64696	20.756	ug/l	100
42) Vinyl Acetate	6.600	43	492149	99.300	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085273.D
 Acq On : 20 Dec 2024 10:29
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Dec 21 01:54:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:51:00 2024
 Response via : Initial Calibration

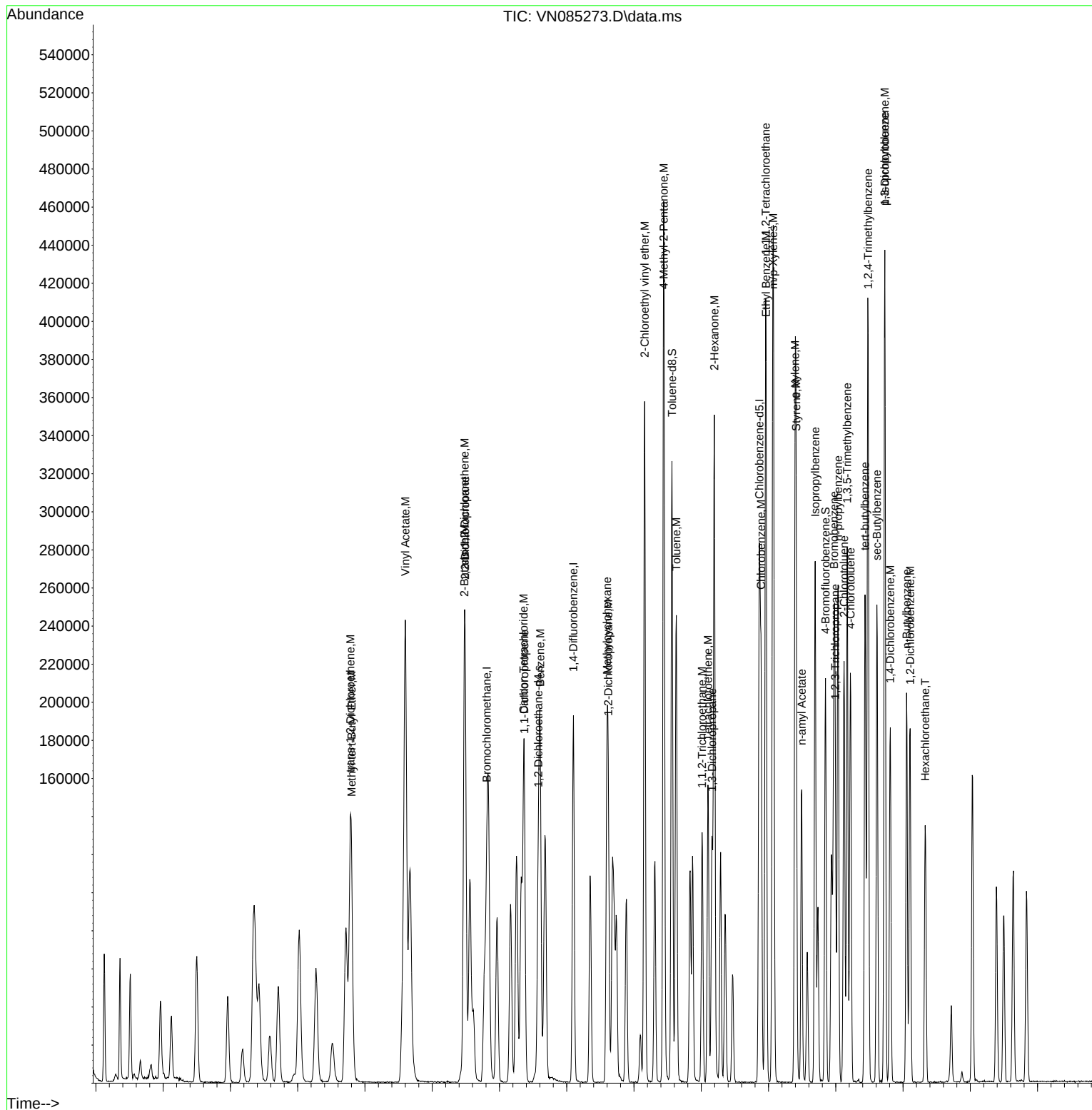
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	56967	19.619	ug/l	100
44) Isopropyl Acetate	8.688	43	97067	20.124	ug/l	100
45) 1,4-Dioxane	9.688	88	15163	404.160	ug/l	100
46) Methyl methacrylate	9.682	41	44997	20.097	ug/l	100
47) n-amyl Acetate	12.494	43	80353	19.555	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	60723	19.723	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	65832	19.889	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	41047	21.044	ug/l	100
51) Ethyl methacrylate	10.871	69	56707	19.221	ug/l	100
52) 1,3-Dichloropropane	11.159	76	70899	20.823	ug/l	100
53) Dibromochloromethane	11.359	129	47574	20.815	ug/l	100
54) 1,2-Dibromoethane	11.465	107	38439	20.363	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	149446	98.342	ug/l	100
56) Bromoform	12.576	173	30002	20.122	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	303556	104.675	ug/l	100
59) 2-Hexanone	11.194	43	219043	103.973	ug/l	100
61) Tetrachloroethene	11.100	164	32838	20.563	ug/l	100
62) Toluene	10.629	91	181570	20.660	ug/l	100
64) Chlorobenzene	11.888	112	107869	20.351	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	40031	20.825	ug/l	100
66) Ethyl Benzene	11.965	91	183288	19.821	ug/l	100
67) m/p-Xylenes	12.070	106	143364	41.324	ug/l	100
68) o-Xylene	12.394	106	66310	20.067	ug/l	100
69) Styrene	12.412	104	113798	20.377	ug/l	100
70) Isopropylbenzene	12.694	105	165058	19.892	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	59675	20.277	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	48125m	19.213	ug/l	
73) Bromobenzene	12.976	156	42355	20.662	ug/l	100
74) n-propylbenzene	13.035	91	207704	20.092	ug/l	100
75) 2-Chlorotoluene	13.123	91	125363	20.131	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	144488	20.407	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	19212	18.768	ug/l	100
78) 4-Chlorotoluene	13.217	91	126859	20.036	ug/l	100
79) tert-butylbenzene	13.435	119	111921	19.329	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	142514	20.230	ug/l	100
81) sec-Butylbenzene	13.611	105	163388	19.545	ug/l	100
82) p-Isopropyltoluene	13.729	119	131247	19.064	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	78045	20.415	ug/l	100
84) 1,4-Dichlorobenzene	13.811	146	71930	19.448	ug/l	100
85) n-Butylbenzene	14.053	91	109530	18.428	ug/l	100
86) Hexachloroethane	14.329	117	30284	20.490	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	73249	20.167	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10690	19.898	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	32846	19.089	ug/l	100
90) Hexachlorobutadiene	15.500	225	17028	19.853	ug/l	100
91) Naphthalene	15.641	128	99596	18.015	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	32846	19.089	ug/l	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085273.D
Acq On : 20 Dec 2024 10:29
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Quant Time: Dec 21 01:54:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:51:00 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085274.D
 Acq On : 20 Dec 2024 10:53
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Dec 21 01:42:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:29:00 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29588	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	155749	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	147286	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	77354	29.719	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.067%		
60) 4-Bromofluorobenzene	12.847	95	71225	29.854	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.500%		
63) Toluene-d8	10.565	98	212997	29.616	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.733%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	125152	50.588	ug/l	100
3) Chloromethane	2.359	50	125132	50.096	ug/l	100
4) Vinyl Chloride	2.512	62	123837	48.826	ug/l	97
5) Bromomethane	2.948	94	71335	48.112	ug/l	100
6) Chloroethane	3.112	64	77595	48.464	ug/l	92
7) Trichlorofluoromethane	3.495	101	173348	49.749	ug/l	97
8) Diethyl Ether	3.959	74	59743	49.784	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	97445	48.701	ug/l	98
10) 1,1-Dichloroethene	4.336	96	89996	49.235	ug/l	90
11) Methyl Iodide	4.583	142	113125	51.640	ug/l	97
12) Methyl Acetate	5.024	43	135823	49.796	ug/l	97
13) Acrolein	4.177	56	54376	223.139	ug/l	100
14) Acrylonitrile	5.712	53	265775	251.737	ug/l	99
15) Acetone	4.430	58	64795	243.294	ug/l	98
16) Carbon Disulfide	4.706	76	271267	48.822	ug/l	98
17) Allyl chloride	5.018	41	147944	50.034	ug/l	95
18) Methylene Chloride	5.271	84	105769	48.560	ug/l	95
19) trans-1,2-Dichloroethene	5.783	96	95330	50.143	ug/l	96
20) Diisopropyl ether	6.671	45	342293	50.511	ug/l	98
21) 1,1-Dichloroethane	6.565	63	194526	49.102	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	111942	49.447	ug/l	98
23) tert-Butyl Alcohol	5.524	59	87172	250.534	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	303617	50.607	ug/l	98
25) Chloroform	7.965	83	196531	48.939	ug/l	100
26) Cyclohexane	8.253	56	155515	51.487	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	134525	49.747	ug/l	99
30) 2-Butanone	7.483	43	357311	250.324	ug/l	100
31) 2,2-Dichloropropane	7.489	77	167877	48.993	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	170514	48.506	ug/l	99
33) Carbon Tetrachloride	8.359	117	150812	49.008	ug/l	96
34) Benzene	8.600	78	417957	48.897	ug/l	97
35) Methacrylonitrile	7.777	41	77907	49.305	ug/l	97
36) 1,2-Dichloroethane	8.671	62	149871	48.487	ug/l	100
37) Trichloroethene	9.347	130	91953	48.894	ug/l	96
38) Methylcyclohexane	9.600	83	141960	50.730	ug/l	96
39) 1,2-Dichloropropane	9.618	63	107319	49.348	ug/l	98
40) Dibromomethane	9.706	93	74458	49.107	ug/l	99
41) Bromodichloromethane	9.882	83	154374	48.718	ug/l	98
42) Vinyl Acetate	6.600	43	1291146	256.254	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085274.D
 Acq On : 20 Dec 2024 10:53
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Dec 21 01:42:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:29:00 2024
 Response via : Initial Calibration

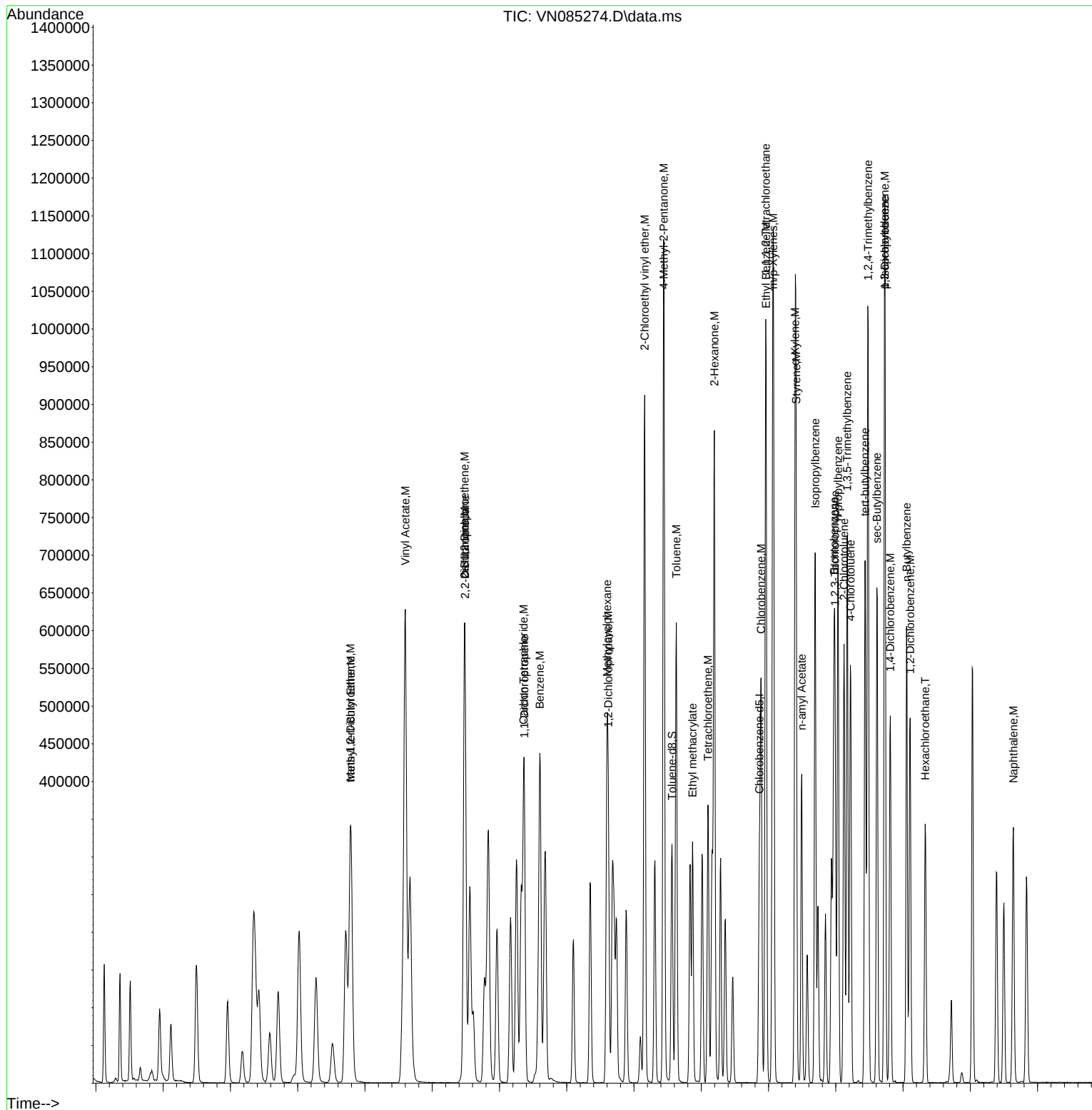
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	147156	49.852	ug/l	95
44) Isopropyl Acetate	8.688	43	241079	49.163	ug/l	98
45) 1,4-Dioxane	9.694	88	39688	1040.566	ug/l	96
46) Methyl methacrylate	9.677	41	116559	51.209	ug/l	98
47) n-amyl Acetate	12.494	43	212696	50.916	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	156703	50.066	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	167067	49.650	ug/l	97
50) 1,1,2-Trichloroethane	11.018	97	95304	48.061	ug/l	94
51) Ethyl methacrylate	10.871	69	154832	51.624	ug/l	93
52) 1,3-Dichloropropane	11.159	76	171106	49.432	ug/l	100
53) Dibromochloromethane	11.359	129	113404	48.807	ug/l	99
54) 1,2-Dibromoethane	11.471	107	94603	49.297	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	389749	252.280	ug/l	99
56) Bromoform	12.576	173	73622	48.571	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	750694	251.417	ug/l	99
59) 2-Hexanone	11.194	43	553103	254.992	ug/l	99
61) Tetrachloroethene	11.100	164	79591	48.406	ug/l	95
62) Toluene	10.630	91	439961	48.622	ug/l	99
64) Chlorobenzene	11.888	112	268859	49.265	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	96474	48.745	ug/l	99
66) Ethyl Benzene	11.965	91	480323	50.448	ug/l	97
67) m/p-Xylenes	12.071	106	367404	102.858	ug/l	99
68) o-Xylene	12.394	106	173012	50.851	ug/l	100
69) Styrene	12.412	104	302535	52.615	ug/l	99
70) Isopropylbenzene	12.694	105	442423	51.786	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	145707	48.087	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	136966m	50.442	ug/l	
73) Bromobenzene	12.976	156	106099	50.270	ug/l	99
74) n-propylbenzene	13.035	91	542722	50.991	ug/l	98
75) 2-Chlorotoluene	13.123	91	326274	50.887	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	381614	52.349	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	52968	50.256	ug/l	98
78) 4-Chlorotoluene	13.218	91	332540	51.010	ug/l	100
79) tert-butylbenzene	13.435	119	310813	52.136	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	381672	52.620	ug/l	99
81) sec-Butylbenzene	13.612	105	448352	52.091	ug/l	99
82) p-Isopropyltoluene	13.729	119	373378	52.675	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	198317	50.383	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	194944	51.191	ug/l	97
85) n-Butylbenzene	14.053	91	316703	51.751	ug/l	99
86) Hexachloroethane	14.329	117	74758	49.126	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	192508	51.479	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	28112	50.822	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	91492	51.642	ug/l	99
90) Hexachlorobutadiene	15.500	225	42618	48.259	ug/l	94
91) Naphthalene	15.641	128	294265	51.695	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	91492	51.642	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085274.D
Acq On : 20 Dec 2024 10:53
Operator : JC\MD
Sample : VSTDIC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Quant Time: Dec 21 01:42:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085275.D
 Acq On : 20 Dec 2024 11:17
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Dec 21 01:43:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:29:00 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30847	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	160498	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	153405	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	80099	29.518	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.400%		
60) 4-Bromofluorobenzene	12.847	95	75053	30.203	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.667%		
63) Toluene-d8	10.565	98	216384	28.887	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.300%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	246556	95.593	ug/l	99
3) Chloromethane	2.359	50	242223	93.014	ug/l	98
4) Vinyl Chloride	2.506	62	251220	95.008	ug/l	98
5) Bromomethane	2.936	94	144535	93.503	ug/l	100
6) Chloroethane	3.106	64	152824	91.555	ug/l	90
7) Trichlorofluoromethane	3.489	101	345388	95.078	ug/l	98
8) Diethyl Ether	3.959	74	124805	99.756	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	199737	95.751	ug/l	98
10) 1,1-Dichloroethene	4.336	96	186282	97.752	ug/l	98
11) Methyl Iodide	4.583	142	241406	105.701	ug/l	98
12) Methyl Acetate	5.018	43	281279	98.914	ug/l	97
13) Acrolein	4.177	56	108832	428.379	ug/l	99
14) Acrylonitrile	5.712	53	555218	504.428	ug/l	99
15) Acetone	4.424	58	134644	484.930	ug/l	95
16) Carbon Disulfide	4.706	76	547597	94.533	ug/l	96
17) Allyl chloride	5.018	41	308150	99.962	ug/l	97
18) Methylene Chloride	5.277	84	212750	93.689	ug/l	96
19) trans-1,2-Dichloroethene	5.783	96	193775	97.765	ug/l	99
20) Diisopropyl ether	6.665	45	703508	99.577	ug/l	96
21) 1,1-Dichloroethane	6.565	63	395631	95.790	ug/l #	96
22) cis-1,2-Dichloroethene	7.482	96	235386	99.731	ug/l	98
23) tert-Butyl Alcohol	5.512	59	188938	520.848	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	641818	102.611	ug/l	97
25) Chloroform	7.965	83	393899	94.083	ug/l	99
26) Cyclohexane	8.253	56	327709	104.067	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	283121	101.600	ug/l	100
30) 2-Butanone	7.477	43	753754	512.438	ug/l	99
31) 2,2-Dichloropropane	7.488	77	346752	98.201	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	347150	95.831	ug/l	98
33) Carbon Tetrachloride	8.359	117	306524	96.662	ug/l	95
34) Benzene	8.606	78	859140	97.537	ug/l	98
35) Methacrylonitrile	7.777	41	164485	101.017	ug/l	96
36) 1,2-Dichloroethane	8.671	62	304004	95.442	ug/l	99
37) Trichloroethene	9.353	130	189053	97.550	ug/l	97
38) Methylcyclohexane	9.600	83	311600	108.056	ug/l	93
39) 1,2-Dichloropropane	9.618	63	216881	96.777	ug/l	95
40) Dibromomethane	9.706	93	150157	96.103	ug/l	99
41) Bromodichloromethane	9.888	83	316593	96.956	ug/l	99
42) Vinyl Acetate	6.600	43	2741189	527.947	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085275.D
 Acq On : 20 Dec 2024 11:17
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Dec 21 01:43:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:29:00 2024
 Response via : Initial Calibration

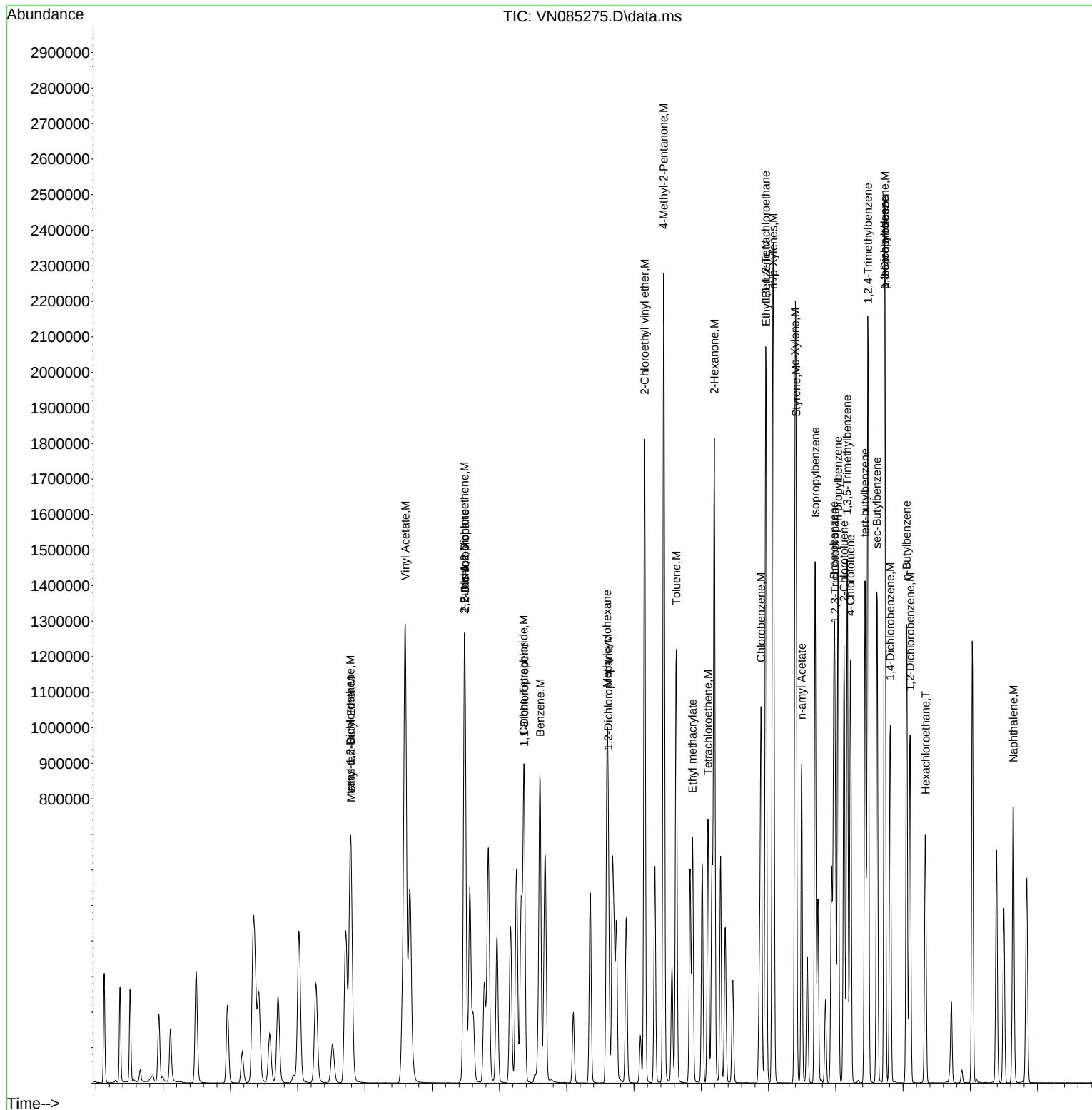
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	311058	102.259	ug/l	94
44) Isopropyl Acetate	8.688	43	516730	102.257	ug/l	99
45) 1,4-Dioxane	9.688	88	83662	2128.602	ug/l	97
46) Methyl methacrylate	9.676	41	246088	104.916	ug/l	98
47) n-amyl Acetate	12.494	43	469368	109.035	ug/l	95
48) t-1,3-Dichloropropene	10.835	75	328441	101.831	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	350611	101.113	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	195079	95.466	ug/l	98
51) Ethyl methacrylate	10.871	69	337682	109.258	ug/l	94
52) 1,3-Dichloropropane	11.159	76	354047	99.257	ug/l	98
53) Dibromochloromethane	11.359	129	230512	96.273	ug/l	98
54) 1,2-Dibromoethane	11.470	107	197287	99.764	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	794467	499.033	ug/l	100
56) Bromoform	12.576	173	155445	99.517	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	1555548	500.192	ug/l	98
59) 2-Hexanone	11.194	43	1155911	511.643	ug/l	97
61) Tetrachloroethene	11.100	164	158376	92.479	ug/l	95
62) Toluene	10.629	91	906601	96.195	ug/l	99
64) Chlorobenzene	11.888	112	552038	97.120	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	196883	95.511	ug/l	99
66) Ethyl Benzene	11.965	91	1023076	103.167	ug/l	98
67) m/p-Xylenes	12.070	106	759711	204.205	ug/l	99
68) o-Xylene	12.394	106	365116	103.033	ug/l	99
69) Styrene	12.412	104	627310	104.745	ug/l	99
70) Isopropylbenzene	12.694	105	931902	104.729	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	299530	94.909	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	245228m	86.710	ug/l	
73) Bromobenzene	12.976	156	217768	99.063	ug/l	97
74) n-propylbenzene	13.035	91	1150009	103.738	ug/l	98
75) 2-Chlorotoluene	13.123	91	688133	103.043	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	795513	104.774	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	116397	106.032	ug/l	90
78) 4-Chlorotoluene	13.217	91	696441	102.569	ug/l	99
79) tert-butylbenzene	13.435	119	658635	106.072	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	802332	106.203	ug/l	99
81) sec-Butylbenzene	13.612	105	950101	105.983	ug/l	99
82) p-Isopropyltoluene	13.729	119	797992	108.087	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	414079	101.002	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	404547	101.995	ug/l	97
85) n-Butylbenzene	14.053	91	709360	111.289	ug/l	98
86) Hexachloroethane	14.335	117	156383	98.666	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	391699	100.567	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	59160	102.685	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	195643	106.025	ug/l	100
90) Hexachlorobutadiene	15.500	225	88782	96.524	ug/l	94
91) Naphthalene	15.641	128	681808	114.999	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	195643	106.025	ug/l	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085275.D
Acq On : 20 Dec 2024 11:17
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Dec 21 01:43:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 01:29:00 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085276.D
 Acq On : 20 Dec 2024 11:42
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 21 01:44:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:29:00 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29871	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	167650	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	157508	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80425	30.606	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.033%	
60) 4-Bromofluorobenzene	12.847	95	78980	30.956	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 103.200%	
63) Toluene-d8	10.565	98	225212	29.282	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 97.600%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	381612	152.790	ug/l	97
3) Chloromethane	2.353	50	362946	143.926	ug/l	98
4) Vinyl Chloride	2.506	62	380504	148.603	ug/l	100
5) Bromomethane	2.924	94	223224	149.127	ug/l	96
6) Chloroethane	3.100	64	232256	143.688	ug/l	91
7) Trichlorofluoromethane	3.489	101	521516	148.252	ug/l	98
8) Diethyl Ether	3.953	74	193189	159.461	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	303693	150.342	ug/l	97
10) 1,1-Dichloroethene	4.330	96	289766	157.023	ug/l	96
11) Methyl Iodide	4.583	142	378427	171.110	ug/l	99
12) Methyl Acetate	5.018	43	448482	162.865	ug/l	92
13) Acrolein	4.171	56	190706	775.174	ug/l	99
14) Acrylonitrile	5.712	53	865051	811.596	ug/l	100
15) Acetone	4.424	58	208374	774.994	ug/l	99
16) Carbon Disulfide	4.706	76	845730	150.770	ug/l	97
17) Allyl chloride	5.018	41	486116	162.845	ug/l	96
18) Methylene Chloride	5.271	84	327575	148.968	ug/l	97
19) trans-1,2-Dichloroethene	5.777	96	300282	156.451	ug/l	94
20) Diisopropyl ether	6.671	45	1090650	159.418	ug/l	95
21) 1,1-Dichloroethane	6.565	63	610620	152.673	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	357862	156.578	ug/l	98
23) tert-Butyl Alcohol	5.524	59	295956	842.524	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	1008587	166.517	ug/l	98
25) Chloroform	7.965	83	605692	149.397	ug/l	100
26) Cyclohexane	8.253	56	502835	164.897	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	433829	149.042	ug/l	100
30) 2-Butanone	7.477	43	1170394	761.746	ug/l	99
31) 2,2-Dichloropropane	7.488	77	535416	145.163	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	537681	142.095	ug/l	98
33) Carbon Tetrachloride	8.359	117	470504	142.043	ug/l	95
34) Benzene	8.606	78	1316056	143.036	ug/l	99
35) Methacrylonitrile	7.777	41	260625	153.232	ug/l	97
36) 1,2-Dichloroethane	8.665	62	463319	139.254	ug/l	100
37) Trichloroethene	9.347	130	295039	145.744	ug/l	96
38) Methylcyclohexane	9.600	83	478702	158.922	ug/l	93
39) 1,2-Dichloropropane	9.618	63	338235	144.489	ug/l	99
40) Dibromomethane	9.706	93	231145	141.625	ug/l	99
41) Bromodichloromethane	9.888	83	492008	144.248	ug/l	99
42) Vinyl Acetate	6.600	43	4294003	791.735	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085276.D
 Acq On : 20 Dec 2024 11:42
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 21 01:44:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:29:00 2024
 Response via : Initial Calibration

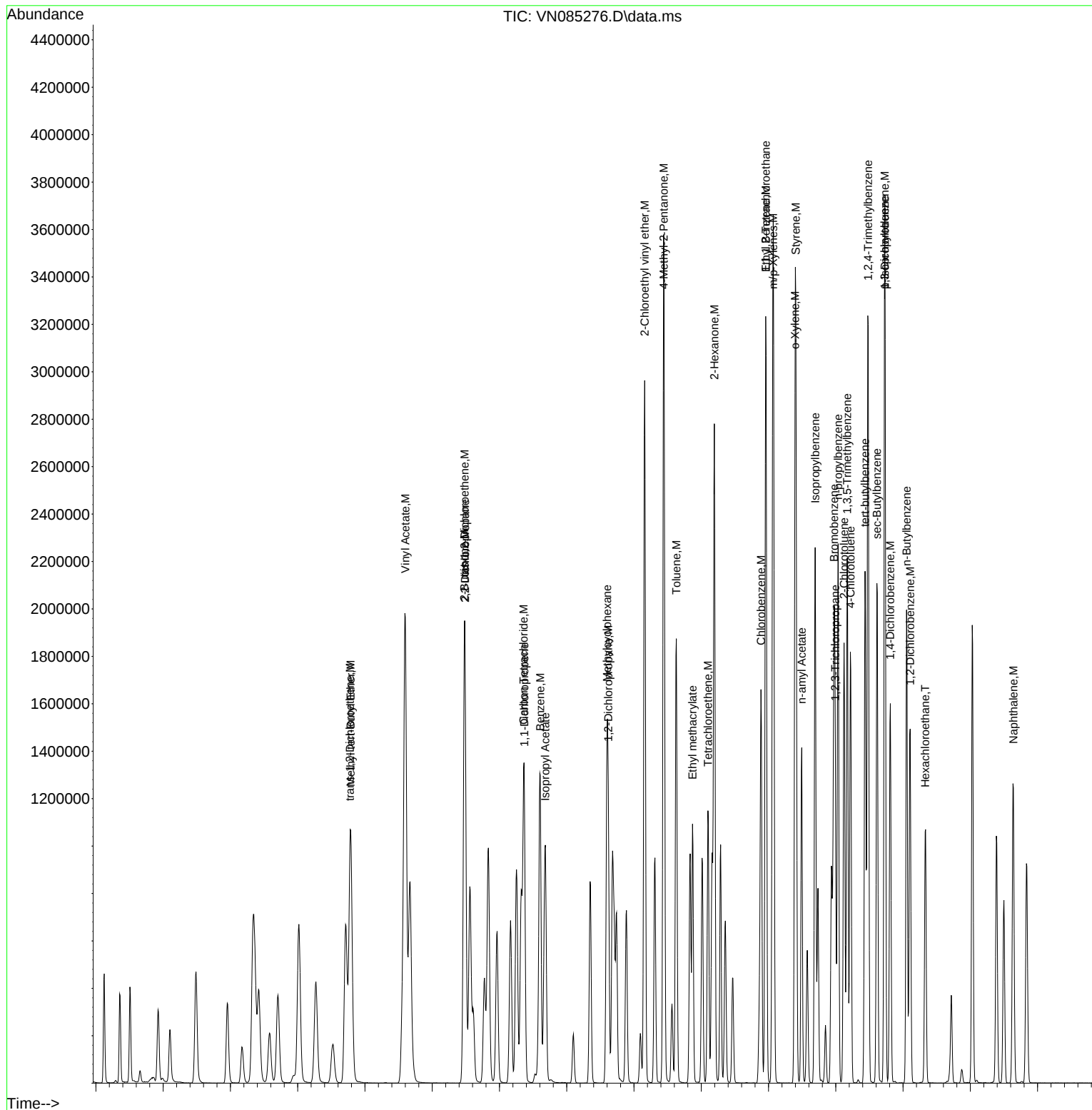
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	480322	151.167	ug/l	100
44) Isopropyl Acetate	8.682	43	803196	152.166	ug/l	99
45) 1,4-Dioxane	9.694	88	118082	2876.180	ug/l	98
46) Methyl methacrylate	9.677	41	383334	156.458	ug/l	97
47) n-amyl Acetate	12.494	43	748297	166.415	ug/l	92
48) t-1,3-Dichloropropene	10.835	75	518772	153.981	ug/l	95
49) cis-1,3-Dichloropropene	10.312	75	545222	150.530	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	297532	139.393	ug/l	97
51) Ethyl methacrylate	10.871	69	537584	166.516	ug/l	93
52) 1,3-Dichloropropane	11.159	76	537291	144.204	ug/l	99
53) Dibromochloromethane	11.359	129	359410	143.703	ug/l	98
54) 1,2-Dibromoethane	11.465	107	305011	147.658	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	1320616	794.138	ug/l	99
56) Bromoform	12.576	173	241680	148.125	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	2426748	760.003	ug/l	98
59) 2-Hexanone	11.194	43	1789778	771.576	ug/l	97
61) Tetrachloroethene	11.100	164	243812	138.658	ug/l	94
62) Toluene	10.629	91	1393988	144.057	ug/l	100
64) Chlorobenzene	11.888	112	857578	146.943	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	302293	142.827	ug/l	99
66) Ethyl Benzene	11.959	91	1580537	155.229	ug/l	99
67) m/p-Xylenes	12.070	106	1160717	303.865	ug/l	100
68) o-Xylene	12.394	106	556306	152.896	ug/l	98
69) Styrene	12.406	104	965130	156.955	ug/l	99
70) Isopropylbenzene	12.694	105	1453567	159.099	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	458872	141.611	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	372774m	128.375	ug/l	
73) Bromobenzene	12.976	156	334967	148.408	ug/l	97
74) n-propylbenzene	13.035	91	1770285	155.531	ug/l	98
75) 2-Chlorotoluene	13.123	91	1049767	153.101	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	1204028	154.448	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	188674	167.396	ug/l	90
78) 4-Chlorotoluene	13.217	91	1068236	153.228	ug/l	99
79) tert-butylbenzene	13.435	119	1012350	158.790	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	1219847	157.263	ug/l	100
81) sec-Butylbenzene	13.612	105	1463612	159.012	ug/l	98
82) p-Isopropyltoluene	13.729	119	1232499	162.592	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	628188	149.235	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	628233	154.265	ug/l	97
85) n-Butylbenzene	14.053	91	1110120	169.627	ug/l	98
86) Hexachloroethane	14.329	117	242863	149.237	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	598727	149.716	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	94207	159.257	ug/l	93
89) 1,2,4-Trichlorobenzene	15.841	180	316396	166.998	ug/l	99
90) Hexachlorobutadiene	15.500	225	135495	143.473	ug/l	92
91) Naphthalene	15.641	128	1126942	185.128	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	316396	166.998	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085276.D
 Acq On : 20 Dec 2024 11:42
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Dec 21 01:44:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 01:29:00 2024
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085278.D
 Acq On : 20 Dec 2024 12:32
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122024

Quant Time: Dec 21 02:21:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30734	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	166208	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	149394	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	82112	30.371	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.233%
60) 4-Bromofluorobenzene	12.847	95	72466	29.945	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.833%
63) Toluene-d8	10.565	98	223219	30.599	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.000%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	50158	19.518	ug/l	99
3) Chloromethane	2.359	50	49349	19.020	ug/l	99
4) Vinyl Chloride	2.512	62	48734	18.498	ug/l	97
5) Bromomethane	2.959	94	31015	20.138	ug/l	93
6) Chloroethane	3.118	64	32060	19.277	ug/l	96
7) Trichlorofluoromethane	3.495	101	70938	19.599	ug/l	93
8) Diethyl Ether	3.959	74	24315	19.506	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.365	101	39991	19.242	ug/l	98
10) 1,1-Dichloroethene	4.342	96	36767	19.365	ug/l	83
11) Methyl Iodide	4.589	142	41974	18.446	ug/l	99
12) Methyl Acetate	5.024	43	55895	19.713	ug/l	98
13) Acrolein	4.183	56	23101	91.263	ug/l	96
14) Acrylonitrile	5.718	53	105493	96.195	ug/l	99
15) Acetone	4.424	58	26887	97.191	ug/l	96
16) Carbon Disulfide	4.706	76	110681	19.177	ug/l	98
17) Allyl chloride	5.018	41	58719	19.118	ug/l	94
18) Methylene Chloride	5.271	84	42309	18.700	ug/l	96
19) trans-1,2-Dichloroethene	5.789	96	38628	19.561	ug/l	89
20) Diisopropyl ether	6.671	45	137464	19.529	ug/l	97
21) 1,1-Dichloroethane	6.565	63	78482	19.072	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	45475	19.338	ug/l	96
23) tert-Butyl Alcohol	5.518	59	38641	106.914	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	121633	19.518	ug/l	98
25) Chloroform	7.965	83	80282	19.246	ug/l	100
26) Cyclohexane	8.259	56	59091	18.834	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	53477	18.531	ug/l	99
30) 2-Butanone	7.483	43	144903	95.128	ug/l	99
31) 2,2-Dichloropropane	7.488	77	70358	19.241	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	69300	18.473	ug/l	98
33) Carbon Tetrachloride	8.359	117	60749	18.499	ug/l	99
34) Benzene	8.600	78	168630	18.487	ug/l	96
35) Methacrylonitrile	7.777	41	32208	19.101	ug/l	96
36) 1,2-Dichloroethane	8.671	62	60133	18.230	ug/l	99
37) Trichloroethene	9.353	130	36391	18.132	ug/l	97
38) Methylcyclohexane	9.600	83	52332	17.524	ug/l	96
39) 1,2-Dichloropropane	9.618	63	42670	18.386	ug/l	99
40) Dibromomethane	9.712	93	29338	18.132	ug/l	99
41) Bromodichloromethane	9.882	83	63230	18.699	ug/l	99
42) Vinyl Acetate	6.600	43	501206	93.215	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085278.D
 Acq On : 20 Dec 2024 12:32
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122024

Quant Time: Dec 21 02:21:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

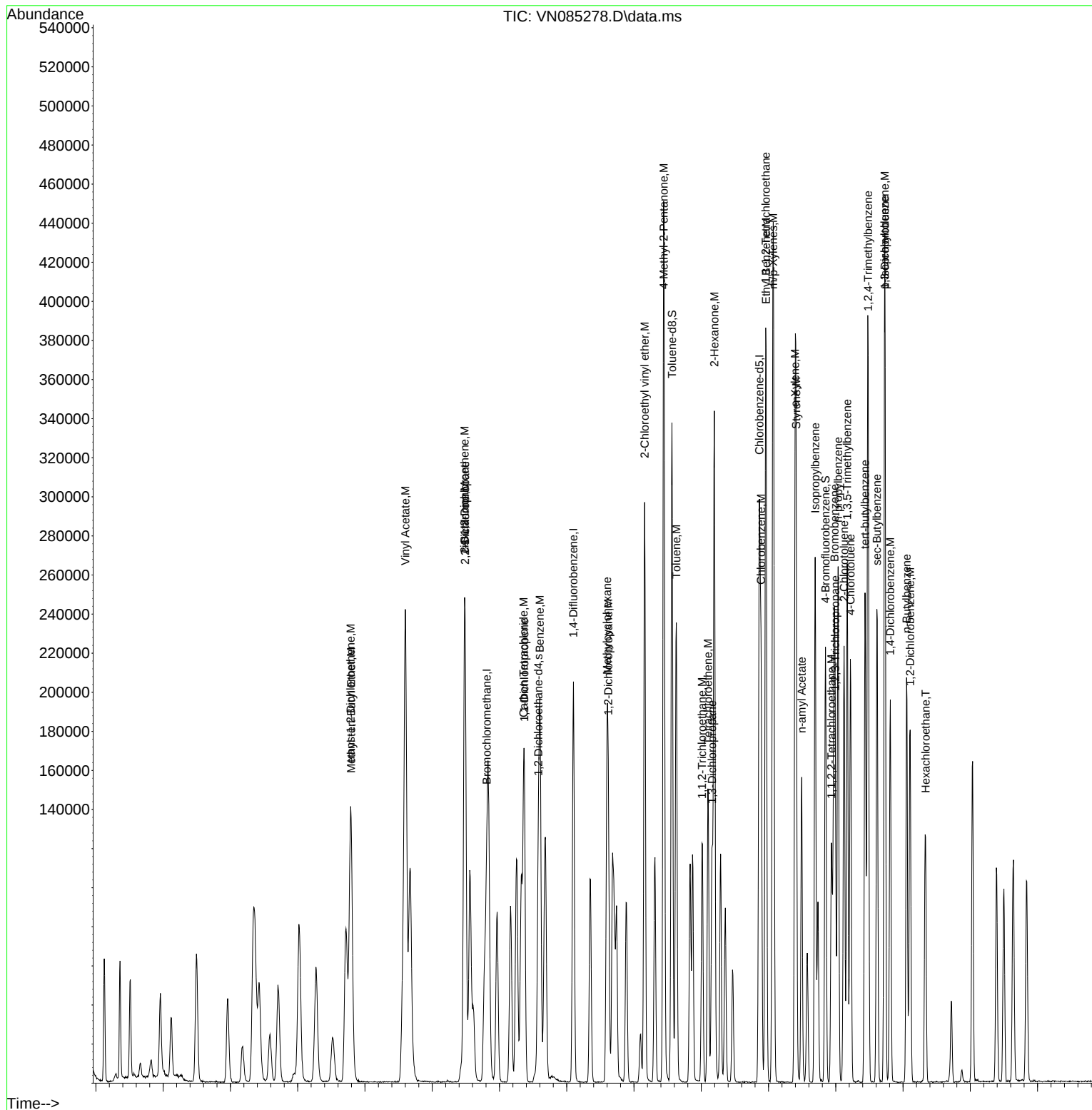
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	62834	19.947	ug/l	93
44) Isopropyl Acetate	8.688	43	96175	18.379	ug/l	99
45) 1,4-Dioxane	9.694	88	16365	402.068	ug/l	95
46) Methyl methacrylate	9.677	41	44473	18.309	ug/l	97
47) n-amyl Acetate	12.494	43	81622	18.310	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	61560	18.431	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	66312	18.467	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	38883	18.375	ug/l	95
51) Ethyl methacrylate	10.871	69	58393	18.244	ug/l	94
52) 1,3-Dichloropropane	11.159	76	67544	18.285	ug/l	97
53) Dibromochloromethane	11.359	129	43527	17.554	ug/l	96
54) 1,2-Dibromoethane	11.465	107	38245	18.675	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	125619	76.195	ug/l	99
56) Bromoform	12.576	173	28323	17.510	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	301712	99.621	ug/l	99
59) 2-Hexanone	11.194	43	219768	99.888	ug/l	98
61) Tetrachloroethene	11.100	164	32545	19.514	ug/l	88
62) Toluene	10.629	91	174303	18.991	ug/l	100
64) Chlorobenzene	11.888	112	105816	19.116	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	38072	18.965	ug/l	98
66) Ethyl Benzene	11.965	91	182223	18.869	ug/l	98
67) m/p-Xylenes	12.070	106	140385	38.748	ug/l	99
68) o-Xylene	12.394	106	64760	18.765	ug/l	97
69) Styrene	12.412	104	110048	18.869	ug/l	99
70) Isopropylbenzene	12.694	105	165430	19.090	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	57570	18.731	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	47827m	18.284	ug/l	
73) Bromobenzene	12.982	156	40507	18.921	ug/l	98
74) n-propylbenzene	13.035	91	202117	18.722	ug/l	98
75) 2-Chlorotoluene	13.123	91	125070	19.231	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	139164	18.821	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	19274	18.029	ug/l	90
78) 4-Chlorotoluene	13.217	91	124745	18.865	ug/l	98
79) tert-butylbenzene	13.435	119	111942	18.512	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	141891	19.279	ug/l	99
81) sec-Butylbenzene	13.612	105	163364	18.712	ug/l	99
82) p-Isopropyltoluene	13.729	119	134436	18.698	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	76679	19.206	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	74097	19.183	ug/l	97
85) n-Butylbenzene	14.053	91	114050	18.373	ug/l	99
86) Hexachloroethane	14.335	117	28626	18.546	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	72156	19.023	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11313	20.163	ug/l	97
89) 1,2,4-Trichlorobenzene	15.841	180	34849	19.393	ug/l	99
90) Hexachlorobutadiene	15.494	225	18190	20.307	ug/l	94
91) Naphthalene	15.641	128	103789	17.976	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	34849	19.393	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085278.D
Acq On : 20 Dec 2024 12:32
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122024

Quant Time: Dec 21 02:21:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 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	104	0.00
2 M	Dichlorodifluoromethane	2.508	2.448	2.4	96	0.00
3 M	Chloromethane	2.533	2.409	4.9	95	0.00
4 M	Vinyl Chloride	2.572	2.379	7.5	94	0.00
5 M	Bromomethane	1.503	1.514	-0.7	106	0.00
6 M	Chloroethane	1.623	1.565	3.6	97	0.00
7 M	Trichlorofluoromethane	3.533	3.462	2.0	99	0.00
8 T	Diethyl Ether	1.217	1.187	2.5	105	0.00
9	1,1,2-Trichlorotrifluoroeth	2.029	1.952	3.8	97	0.00
10 M	1,1-Dichloroethene	1.853	1.794	3.2	102	0.00
11	Methyl Iodide	2.221	2.049	7.7	100	0.00
12	Methyl Acetate	2.768	2.728	1.4	101	0.00
13 M	Acrolein	0.247	0.225	8.9	106	0.00
14 M	Acrylonitrile	1.070	1.030	3.7	100	0.00
15 M	Acetone	0.270	0.262	3.0	99	0.00
16 M	Carbon Disulfide	5.634	5.402	4.1	99	0.00
17	Allyl chloride	2.998	2.866	4.4	101	0.00
18 M	Methylene Chloride	2.208	2.065	6.5	96	0.00
19 M	trans-1,2-Dichloroethene	1.928	1.885	2.2	102	0.00
20 T	Diisopropyl ether	6.871	6.709	2.4	99	0.00
21 M	1,1-Dichloroethane	4.017	3.830	4.7	97	0.00
22 M	cis-1,2-Dichloroethene	2.295	2.219	3.3	101	0.00
23 M	tert-Butyl Alcohol	0.353	0.377	-6.8	116	0.00
24 M	Methyl tert-Butyl Ether	6.083	5.936	2.4	102	0.00
25 M	Chloroform	4.072	3.918	3.8	97	0.00
26	Cyclohexane	3.063	2.884	5.8	99	0.00
27 s	1,2-Dichloroethane-d4	2.639	2.672	-1.3	105	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
29	1,1-Dichloropropene	0.521	0.483	7.3	99	0.00
30 M	2-Butanone	0.275	0.262	4.7	101	0.00
31	2,2-Dichloropropane	0.660	0.635	3.8	102	0.00
32 M	1,1,1-Trichloroethane	0.677	0.625	7.7	98	0.00
33 M	Carbon Tetrachloride	0.593	0.548	7.6	98	0.00
34 M	Benzene	1.646	1.522	7.5	97	0.00
35	Methacrylonitrile	0.304	0.291	4.3	103	0.00
36 M	1,2-Dichloroethane	0.595	0.543	8.7	97	0.00
37 M	Trichloroethene	0.362	0.328	9.4	97	0.00
38	Methylcyclohexane	0.539	0.472	12.4	103	0.00
39 M	1,2-Dichloropropane	0.419	0.385	8.1	97	0.00
40	Dibromomethane	0.292	0.265	9.2	96	0.00
41 M	Bromodichloromethane	0.610	0.571	6.4	98	0.00
42 M	Vinyl Acetate	0.971	0.905	6.8	102	0.00
43	Ethyl Acetate	0.569	0.567	0.4	110	0.00
44	Isopropyl Acetate	0.945	0.868	8.1	99	0.00
45 T	1,4-Dioxane	0.007	0.007	0.0	108	0.00
46	Methyl methacrylate	0.438	0.401	8.4	99	0.00
47	n-amyl Acetate	0.805	0.737	8.4	102	0.00
48 M	t-1,3-Dichloropropene	0.603	0.556	7.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085278.D
 Acq On : 20 Dec 2024 12:32
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122024

Quant Time: Dec 21 02:21:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 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	0.648	0.598	7.7	101	0.00
50 M	1,1,2-Trichloroethane	0.382	0.351	8.1	95	0.00
51	Ethyl methacrylate	0.578	0.527	8.8	103	0.00
52	1,3-Dichloropropane	0.667	0.610	8.5	95	0.00
53 M	Dibromochloromethane	0.448	0.393	12.3	91	0.00
54 M	1,2-Dibromoethane	0.370	0.345	6.8	99	0.00
55 M	2-Chloroethyl vinyl ether	0.298	0.227	23.8	84	0.00
56 M	Bromoform	0.292	0.256	12.3	94	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
58 M	4-Methyl-2-Pentanone	0.608	0.606	0.3	99	0.00
59 M	2-Hexanone	0.442	0.441	0.2	100	0.00
60 S	4-Bromofluorobenzene	0.486	0.485	0.2	104	0.00
61 M	Tetrachloroethene	0.335	0.327	2.4	99	0.00
62 M	Toluene	1.843	1.750	5.0	96	0.00
63 S	Toluene-d8	1.465	1.494	-2.0	103	0.00
64 M	Chlorobenzene	1.112	1.062	4.5	98	0.00
65	1,1,1,2-Tetrachloroethane	0.403	0.382	5.2	95	0.00
66 M	Ethyl Benzene	1.939	1.830	5.6	99	0.00
67 M	m/p-Xylenes	0.728	0.705	3.2	98	0.00
68 M	o-Xylene	0.693	0.650	6.2	98	0.00
69 M	Styrene	1.171	1.105	5.6	97	0.00
70	Isopropylbenzene	1.740	1.661	4.5	100	0.00
71 M	1,1,2,2-Tetrachloroethane	0.617	0.578	6.3	96	0.00
72	1,2,3-Trichloropropane	0.525	0.480	8.6	99	0.00
73	Bromobenzene	0.430	0.407	5.3	96	0.00
74	n-propylbenzene	2.168	2.029	6.4	97	0.00
75	2-Chlorotoluene	1.306	1.256	3.8	100	0.00
76	1,3,5-Trimethylbenzene	1.485	1.397	5.9	96	0.00
77	t-1,4-Dichloro-2-butene	0.215	0.194	9.8	100	0.00
78	4-Chlorotoluene	1.328	1.253	5.6	98	0.00
79	tert-butylbenzene	1.214	1.124	7.4	100	0.00
80	1,2,4-Trimethylbenzene	1.478	1.425	3.6	100	0.00
81	sec-Butylbenzene	1.753	1.640	6.4	100	0.00
82	p-Isopropyltoluene	1.444	1.350	6.5	102	0.00
83 M	1,3-Dichlorobenzene	0.802	0.770	4.0	98	0.00
84 M	1,4-Dichlorobenzene	0.776	0.744	4.1	103	0.00
85	n-Butylbenzene	1.247	1.145	8.2	104	0.00
86 T	Hexachloroethane	0.310	0.287	7.4	95	0.00
87 M	1,2-Dichlorobenzene	0.762	0.724	5.0	99	0.00
88	1,2-Dibromo-3-Chloropropane	0.113	0.114	-0.9	106	0.00
89	1,2,4-Trichlorobenzene	0.361	0.350	3.0	106	0.00
90	Hexachlorobutadiene	0.180	0.183	-1.7	107	0.00
91 M	Naphthalene	1.159	1.042	10.1	104	0.00
92	1,2,3-Trichlorobenzene	0.361	0.350	3.0	106	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085278.D
 Acq On : 20 Dec 2024 12:32
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122024

Quant Time: Dec 21 02:21:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 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	104	0.00
2 M	Dichlorodifluoromethane	20.000	19.518	2.4	96	0.00
3 M	Chloromethane	20.000	19.020	4.9	95	0.00
4 M	Vinyl Chloride	20.000	18.498	7.5	94	0.00
5 M	Bromomethane	20.000	20.138	-0.7	106	0.00
6 M	Chloroethane	20.000	19.277	3.6	97	0.00
7 M	Trichlorofluoromethane	20.000	19.599	2.0	99	0.00
8 T	Diethyl Ether	20.000	19.506	2.5	105	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	19.242	3.8	97	0.00
10 M	1,1-Dichloroethene	20.000	19.365	3.2	102	0.00
11	Methyl Iodide	20.000	18.446	7.8	100	0.00
12	Methyl Acetate	20.000	19.713	1.4	101	0.00
13 M	Acrolein	100.000	91.263	8.7	106	0.00
14 M	Acrylonitrile	100.000	96.195	3.8	100	0.00
15 M	Acetone	100.000	97.191	2.8	99	0.00
16 M	Carbon Disulfide	20.000	19.177	4.1	99	0.00
17	Allyl chloride	20.000	19.118	4.4	101	0.00
18 M	Methylene Chloride	20.000	18.700	6.5	96	0.00
19 M	trans-1,2-Dichloroethene	20.000	19.561	2.2	102	0.00
20 T	Diisopropyl ether	20.000	19.529	2.4	99	0.00
21 M	1,1-Dichloroethane	20.000	19.072	4.6	97	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.338	3.3	101	0.00
23 M	tert-Butyl Alcohol	100.000	106.914	-6.9	116	0.00
24 M	Methyl tert-Butyl Ether	20.000	19.518	2.4	102	0.00
25 M	Chloroform	20.000	19.246	3.8	97	0.00
26	Cyclohexane	20.000	18.834	5.8	99	0.00
27 s	1,2-Dichloroethane-d4	30.000	30.371	-1.2	105	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	108	0.00
29	1,1-Dichloropropene	20.000	18.531	7.3	99	0.00
30 M	2-Butanone	100.000	95.128	4.9	101	0.00
31	2,2-Dichloropropane	20.000	19.241	3.8	102	0.00
32 M	1,1,1-Trichloroethane	20.000	18.473	7.6	98	0.00
33 M	Carbon Tetrachloride	20.000	18.499	7.5	98	0.00
34 M	Benzene	20.000	18.487	7.6	97	0.00
35	Methacrylonitrile	20.000	19.101	4.5	103	0.00
36 M	1,2-Dichloroethane	20.000	18.230	8.8	97	0.00
37 M	Trichloroethene	20.000	18.132	9.3	97	0.00
38	Methylcyclohexane	20.000	17.524	12.4	103	0.00
39 M	1,2-Dichloropropane	20.000	18.386	8.1	97	0.00
40	Dibromomethane	20.000	18.132	9.3	96	0.00
41 M	Bromodichloromethane	20.000	18.699	6.5	98	0.00
42 M	Vinyl Acetate	100.000	93.215	6.8	102	0.00
43	Ethyl Acetate	20.000	19.947	0.3	110	0.00
44	Isopropyl Acetate	20.000	18.379	8.1	99	0.00
45 T	1,4-Dioxane	400.000	402.068	-0.5	108	0.00
46	Methyl methacrylate	20.000	18.309	8.5	99	0.00
47	n-amyl Acetate	20.000	18.310	8.5	102	0.00
48 M	t-1,3-Dichloropropene	20.000	18.431	7.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
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 Acq On : 20 Dec 2024 12:32
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 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122024

Quant Time: Dec 21 02:21:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 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	18.467	7.7	101	0.00
50 M	1,1,2-Trichloroethane	20.000	18.375	8.1	95	0.00
51	Ethyl methacrylate	20.000	18.244	8.8	103	0.00
52	1,3-Dichloropropane	20.000	18.285	8.6	95	0.00
53 M	Dibromochloromethane	20.000	17.554	12.2	91	0.00
54 M	1,2-Dibromoethane	20.000	18.675	6.6	99	0.00
55 M	2-Chloroethyl vinyl ether	100.000	76.195	23.8	84	0.00
56 M	Bromoform	20.000	17.510	12.4	94	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	104	0.00
58 M	4-Methyl-2-Pentanone	100.000	99.621	0.4	99	0.00
59 M	2-Hexanone	100.000	99.888	0.1	100	0.00
60 S	4-Bromofluorobenzene	30.000	29.945	0.2	104	0.00
61 M	Tetrachloroethene	20.000	19.514	2.4	99	0.00
62 M	Toluene	20.000	18.991	5.0	96	0.00
63 S	Toluene-d8	30.000	30.599	-2.0	103	0.00
64 M	Chlorobenzene	20.000	19.116	4.4	98	0.00
65	1,1,1,2-Tetrachloroethane	20.000	18.965	5.2	95	0.00
66 M	Ethyl Benzene	20.000	18.869	5.7	99	0.00
67 M	m/p-Xylenes	40.000	38.748	3.1	98	0.00
68 M	o-Xylene	20.000	18.765	6.2	98	0.00
69 M	Styrene	20.000	18.869	5.7	97	0.00
70	Isopropylbenzene	20.000	19.090	4.6	100	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	18.731	6.3	96	0.00
72	1,2,3-Trichloropropane	20.000	18.284	8.6	99	0.00
73	Bromobenzene	20.000	18.921	5.4	96	0.00
74	n-propylbenzene	20.000	18.722	6.4	97	0.00
75	2-Chlorotoluene	20.000	19.231	3.8	100	0.00
76	1,3,5-Trimethylbenzene	20.000	18.821	5.9	96	0.00
77	t-1,4-Dichloro-2-butene	20.000	18.029	9.9	100	0.00
78	4-Chlorotoluene	20.000	18.865	5.7	98	0.00
79	tert-butylbenzene	20.000	18.512	7.4	100	0.00
80	1,2,4-Trimethylbenzene	20.000	19.279	3.6	100	0.00
81	sec-Butylbenzene	20.000	18.712	6.4	100	0.00
82	p-Isopropyltoluene	20.000	18.698	6.5	102	0.00
83 M	1,3-Dichlorobenzene	20.000	19.206	4.0	98	0.00
84 M	1,4-Dichlorobenzene	20.000	19.183	4.1	103	0.00
85	n-Butylbenzene	20.000	18.373	8.1	104	0.00
86 T	Hexachloroethane	20.000	18.546	7.3	95	0.00
87 M	1,2-Dichlorobenzene	20.000	19.023	4.9	99	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	20.163	-0.8	106	0.00
89	1,2,4-Trichlorobenzene	20.000	19.393	3.0	106	0.00
90	Hexachlorobutadiene	20.000	20.307	-1.5	107	0.00
91 M	Naphthalene	20.000	17.976	10.1	104	0.00
92	1,2,3-Trichlorobenzene	20.000	19.393	3.0	106	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: TULL01

Lab Code: CHEM Case No.: P5399 SAS No.: P5399 SDG No.: P5399

Instrument ID: MSVOA_N Calibration Date/Time: 01/02/2025 10:36

Lab File ID: VN085372.D Init. Calib. Date(s): 12/20/2024 12/20/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:05 11:42

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Benzene	1.646	1.621	0.5	-1.52	
Toluene	1.843	1.782	0.4	-3.31	
Ethyl Benzene	1.939	1.838	0.1	-5.21	
m/p-Xylenes	0.728	0.731	0.3	0.41	
o-Xylene	0.693	0.673	0.3	-2.89	
1,2-Dichloroethane-d4	2.639	2.614	0.01	-0.95	
Toluene-d8	1.465	1.488	0.01	1.57	
4-Bromofluorobenzene	0.486	0.486	0.2	0	

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\VN010225\
 Data File : VN085372.D
 Acq On : 02 Jan 2025 10:36
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/03/2025
 Supervised By :Semsettin Yesilyurt 01/03/2025

Quant Time: Jan 03 00:41:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30931	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	161808	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	150173	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80849	29.713	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.033%	
60) 4-Bromofluorobenzene	12.847	95	73031	30.022	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.067%	
63) Toluene-d8	10.565	98	223395	30.465	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.533%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	52671	20.366	ug/l	95
3) Chloromethane	2.359	50	50866	19.480	ug/l	99
4) Vinyl Chloride	2.512	62	52054	19.633	ug/l	92
5) Bromomethane	2.959	94	30622	19.756	ug/l	95
6) Chloroethane	3.124	64	33654	20.107	ug/l	94
7) Trichlorofluoromethane	3.500	101	73109	20.071	ug/l	95
8) Diethyl Ether	3.959	74	23114	18.425	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	42326	20.235	ug/l	96
10) 1,1-Dichloroethene	4.336	96	36764	19.240	ug/l	87
11) Methyl Iodide	4.583	142	45500	19.868	ug/l	96
12) Methyl Acetate	5.024	43	59625	20.895	ug/l	93
13) Acrolein	4.183	56	25323	99.404	ug/l	95
14) Acrylonitrile	5.718	53	104564	94.741	ug/l	99
15) Acetone	4.430	58	26681	95.833	ug/l	94
16) Carbon Disulfide	4.712	76	108523	18.684	ug/l #	94
17) Allyl chloride	5.024	41	54871	17.751	ug/l	99
18) Methylene Chloride	5.277	84	45143m	19.826	ug/l	
19) trans-1,2-Dichloroethene	5.794	96	39032m	19.639	ug/l	
20) Diisopropyl ether	6.671	45	137887	19.464	ug/l	98
21) 1,1-Dichloroethane	6.571	63	80989	19.556	ug/l #	95
22) cis-1,2-Dichloroethene	7.482	96	45817	19.360	ug/l	99
23) tert-Butyl Alcohol	5.512	59	32385	89.034	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	118934	18.963	ug/l	98
25) Chloroform	7.965	83	83622	19.919	ug/l	99
26) Cyclohexane	8.253	56	59024	18.693	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	54274	19.319	ug/l	98
30) 2-Butanone	7.477	43	137479	92.708	ug/l	99
31) 2,2-Dichloropropane	7.482	77	69206	19.441	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	71059	19.457	ug/l	100
33) Carbon Tetrachloride	8.359	117	63266	19.789	ug/l	93
34) Benzene	8.606	78	174892	19.694	ug/l	97
35) Methacrylonitrile	7.777	41	30595	18.637	ug/l	96
36) 1,2-Dichloroethane	8.665	62	63020	19.625	ug/l #	93
37) Trichloroethene	9.353	130	38276	19.590	ug/l	98
38) Methylcyclohexane	9.600	83	53311	18.337	ug/l	96
39) 1,2-Dichloropropane	9.618	63	44397	19.650	ug/l	98
40) Dibromomethane	9.706	93	31019	19.692	ug/l	97
41) Bromodichloromethane	9.882	83	64227	19.510	ug/l	97
42) Vinyl Acetate	6.600	43	475411	90.822	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
 Data File : VN085372.D
 Acq On : 02 Jan 2025 10:36
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/03/2025

Supervised By :Semsettin Yesilyurt 01/03/2025

Quant Time: Jan 03 00:41:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Sat Dec 21 02:03:07 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	55647	18.146	ug/l	100
44) Isopropyl Acetate	8.682	43	94269	18.504	ug/l	97
45) 1,4-Dioxane	9.694	88	15094	380.926	ug/l	96
46) Methyl methacrylate	9.682	41	42710	18.061	ug/l	98
47) n-amyl Acetate	12.494	43	78759	18.148	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	61004	18.761	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	66572	19.043	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	39550	19.198	ug/l	96
51) Ethyl methacrylate	10.871	69	57103	18.326	ug/l	89
52) 1,3-Dichloropropane	11.159	76	69851	19.424	ug/l	98
53) Dibromochloromethane	11.353	129	46777	19.378	ug/l	98
54) 1,2-Dibromoethane	11.470	107	39958	20.042	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	128653	80.157	ug/l	99
56) Bromoform	12.576	173	29906	18.991	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	295690	97.127	ug/l	99
59) 2-Hexanone	11.194	43	209864	94.892	ug/l	98
61) Tetrachloroethene	11.100	164	35336	21.078	ug/l	96
62) Toluene	10.629	91	178377	19.334	ug/l	98
64) Chlorobenzene	11.888	112	110353	19.832	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	39839	19.742	ug/l	99
66) Ethyl Benzene	11.965	91	184020	18.956	ug/l	99
67) m/p-Xylenes	12.070	106	146287	40.167	ug/l	100
68) o-Xylene	12.394	106	67368	19.420	ug/l	98
69) Styrene	12.412	104	113725	19.398	ug/l	100
70) Isopropylbenzene	12.694	105	168906	19.390	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	59234	19.173	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	50342m	19.145	ug/l	
73) Bromobenzene	12.976	156	42053	19.542	ug/l	99
74) n-propylbenzene	13.035	91	213001	19.628	ug/l	98
75) 2-Chlorotoluene	13.123	91	128777	19.698	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	145549	19.582	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	19876	18.496	ug/l	94
78) 4-Chlorotoluene	13.217	91	130424	19.622	ug/l	98
79) tert-butylbenzene	13.435	119	116565	19.177	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	148491	20.071	ug/l	98
81) sec-Butylbenzene	13.617	105	172100	19.611	ug/l	98
82) p-Isopropyltoluene	13.729	119	139232	19.265	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	77570	19.328	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	76914	19.809	ug/l	97
85) n-Butylbenzene	14.053	91	114032	18.275	ug/l	100
86) Hexachloroethane	14.329	117	29698	19.140	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	74925	19.651	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10941	19.399	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	34458	19.076	ug/l	98
90) Hexachlorobutadiene	15.500	225	17368	19.289	ug/l	95
91) Naphthalene	15.641	128	99820	17.199	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	34458	19.076	ug/l	98

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

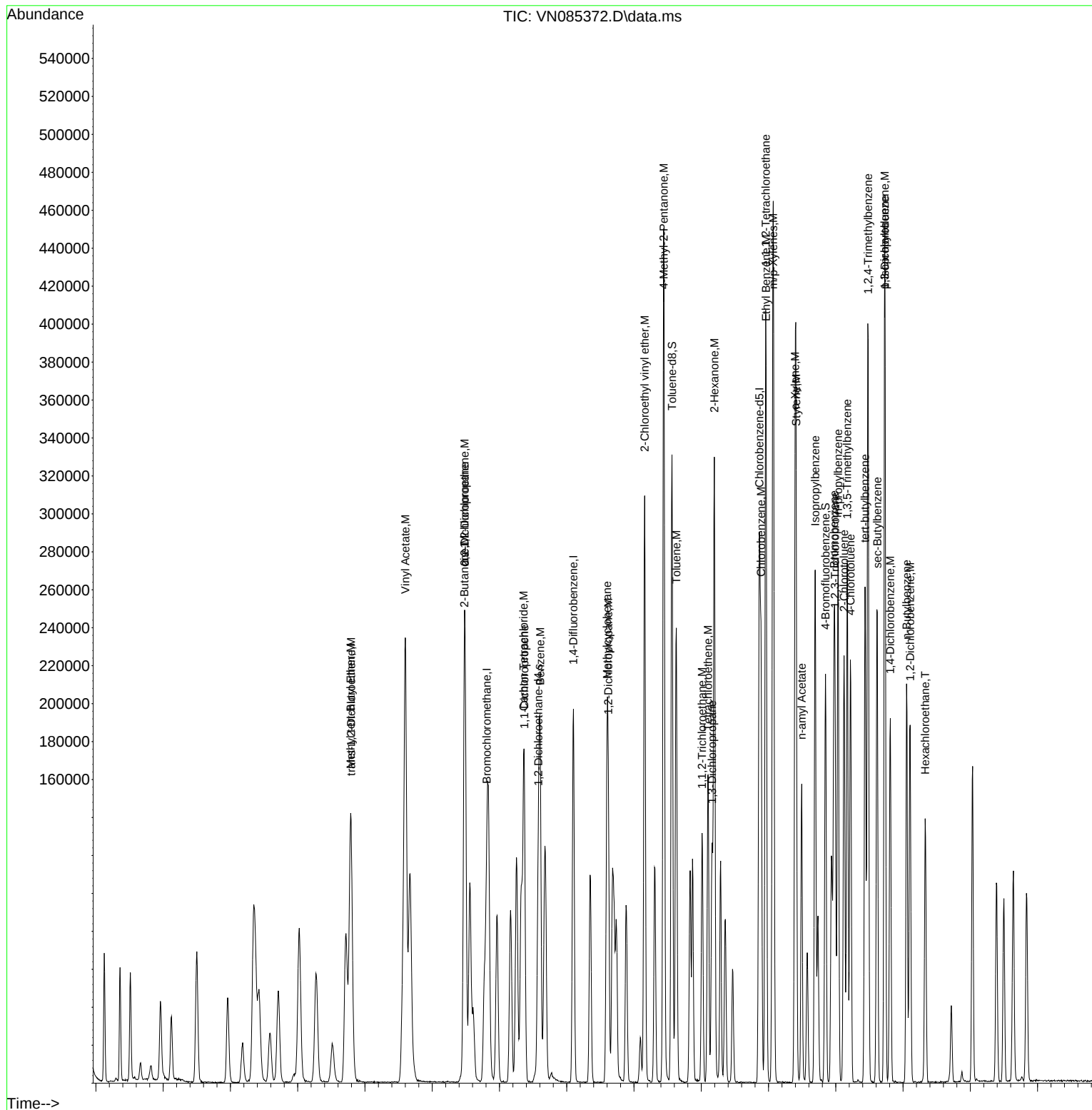
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
Data File : VN085372.D
Acq On : 02 Jan 2025 10:36
Operator : JC\MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/03/2025
Supervised By :Semsettin Yesilyurt 01/03/2025

Quant Time: Jan 03 00:41:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
 Data File : VN085372.D
 Acq On : 02 Jan 2025 10:36
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Jan 03 00:41:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 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	105	0.00
2 M	Dichlorodifluoromethane	2.508	2.554	-1.8	101	0.00
3 M	Chloromethane	2.533	2.467	2.6	98	0.00
4 M	Vinyl Chloride	2.572	2.524	1.9	101	0.00
5 M	Bromomethane	1.503	1.485	1.2	105	0.00
6 M	Chloroethane	1.623	1.632	-0.6	101	0.00
7 M	Trichlorofluoromethane	3.533	3.545	-0.3	102	0.00
8 T	Diethyl Ether	1.217	1.121	7.9	100	0.00
9	1,1,2-Trichlorotrifluoroeth	2.029	2.053	-1.2	103	0.00
10 M	1,1-Dichloroethene	1.853	1.783	3.8	102	0.00
11	Methyl Iodide	2.221	2.207	0.6	108	0.00
12	Methyl Acetate	2.768	2.892	-4.5	108	0.00
13 M	Acrolein	0.247	0.246	0.4	116	0.00
14 M	Acrylonitrile	1.070	1.014	5.2	99	0.00
15 M	Acetone	0.270	0.259	4.1	98	0.00
16 M	Carbon Disulfide	5.634	5.263	6.6	97	0.00
17	Allyl chloride	2.998	2.661	11.2	95	0.00
18 M	Methylene Chloride	2.208	2.189	0.9	102	0.00
19 M	trans-1,2-Dichloroethene	1.928	1.893	1.8	103	0.01
20 T	Diisopropyl ether	6.871	6.687	2.7	99	0.00
21 M	1,1-Dichloroethane	4.017	3.928	2.2	100	0.00
22 M	cis-1,2-Dichloroethene	2.295	2.222	3.2	102	0.00
23 M	tert-Butyl Alcohol	0.353	0.314	11.0	98	0.00
24 M	Methyl tert-Butyl Ether	6.083	5.768	5.2	100	-0.01
25 M	Chloroform	4.072	4.055	0.4	101	0.00
26	Cyclohexane	3.063	2.862	6.6	99	0.00
27 s	1,2-Dichloroethane-d4	2.639	2.614	0.9	103	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	106	0.00
29	1,1-Dichloropropene	0.521	0.503	3.5	101	0.00
30 M	2-Butanone	0.275	0.255	7.3	96	0.00
31	2,2-Dichloropropane	0.660	0.642	2.7	100	0.00
32 M	1,1,1-Trichloroethane	0.677	0.659	2.7	100	0.00
33 M	Carbon Tetrachloride	0.593	0.586	1.2	102	0.00
34 M	Benzene	1.646	1.621	1.5	101	0.00
35	Methacrylonitrile	0.304	0.284	6.6	98	0.00
36 M	1,2-Dichloroethane	0.595	0.584	1.8	101	0.00
37 M	Trichloroethene	0.362	0.355	1.9	102	0.00
38	Methylcyclohexane	0.539	0.494	8.3	104	0.00
39 M	1,2-Dichloropropane	0.419	0.412	1.7	101	0.00
40	Dibromomethane	0.292	0.288	1.4	101	0.00
41 M	Bromodichloromethane	0.610	0.595	2.5	99	0.00
42 M	Vinyl Acetate	0.971	0.881	9.3	97	0.00
43	Ethyl Acetate	0.569	0.516	9.3	98	0.00
44	Isopropyl Acetate	0.945	0.874	7.5	97	0.00
45 T	1,4-Dioxane	0.007	0.007	0.0	100	0.00
46	Methyl methacrylate	0.438	0.396	9.6	95	0.00
47	n-amyl Acetate	0.805	0.730	9.3	98	0.00
48 M	t-1,3-Dichloropropene	0.603	0.566	6.1	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
 Data File : VN085372.D
 Acq On : 02 Jan 2025 10:36
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Jan 03 00:41:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 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	0.648	0.617	4.8	101	0.00
50 M	1,1,2-Trichloroethane	0.382	0.367	3.9	96	0.00
51	Ethyl methacrylate	0.578	0.529	8.5	101	0.00
52	1,3-Dichloropropane	0.667	0.648	2.8	99	0.00
53 M	Dibromochloromethane	0.448	0.434	3.1	98	0.00
54 M	1,2-Dibromoethane	0.370	0.370	0.0	104	0.00
55 M	2-Chloroethyl vinyl ether	0.298	0.239	19.8	86	0.00
56 M	Bromoform	0.292	0.277	5.1	100	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
58 M	4-Methyl-2-Pentanone	0.608	0.591	2.8	97	0.00
59 M	2-Hexanone	0.442	0.419	5.2	96	0.00
60 S	4-Bromofluorobenzene	0.486	0.486	0.0	105	0.00
61 M	Tetrachloroethene	0.335	0.353	-5.4	108	0.00
62 M	Toluene	1.843	1.782	3.3	98	0.00
63 S	Toluene-d8	1.465	1.488	-1.6	103	0.00
64 M	Chlorobenzene	1.112	1.102	0.9	102	0.00
65	1,1,1,2-Tetrachloroethane	0.403	0.398	1.2	100	0.00
66 M	Ethyl Benzene	1.939	1.838	5.2	100	0.00
67 M	m/p-Xylenes	0.728	0.731	-0.4	102	0.00
68 M	o-Xylene	0.693	0.673	2.9	102	0.00
69 M	Styrene	1.171	1.136	3.0	100	0.00
70	Isopropylbenzene	1.740	1.687	3.0	102	0.00
71 M	1,1,2,2-Tetrachloroethane	0.617	0.592	4.1	99	0.00
72	1,2,3-Trichloropropane	0.525	0.503	4.2	105	0.00
73	Bromobenzene	0.430	0.420	2.3	99	0.00
74	n-propylbenzene	2.168	2.128	1.8	103	0.00
75	2-Chlorotoluene	1.306	1.286	1.5	103	0.00
76	1,3,5-Trimethylbenzene	1.485	1.454	2.1	101	0.00
77	t-1,4-Dichloro-2-butene	0.215	0.199	7.4	103	0.00
78	4-Chlorotoluene	1.328	1.303	1.9	103	0.00
79	tert-butylbenzene	1.214	1.164	4.1	104	0.00
80	1,2,4-Trimethylbenzene	1.478	1.483	-0.3	104	0.00
81	sec-Butylbenzene	1.753	1.719	1.9	105	0.00
82	p-Isopropyltoluene	1.444	1.391	3.7	106	0.00
83 M	1,3-Dichlorobenzene	0.802	0.775	3.4	99	0.00
84 M	1,4-Dichlorobenzene	0.776	0.768	1.0	107	0.00
85	n-Butylbenzene	1.247	1.139	8.7	104	0.00
86 T	Hexachloroethane	0.310	0.297	4.2	98	0.00
87 M	1,2-Dichlorobenzene	0.762	0.748	1.8	102	0.00
88	1,2-Dibromo-3-Chloropropane	0.113	0.109	3.5	102	0.00
89	1,2,4-Trichlorobenzene	0.361	0.344	4.7	105	0.00
90	Hexachlorobutadiene	0.180	0.173	3.9	102	0.00
91 M	Naphthalene	1.159	0.997	14.0	100	0.00
92	1,2,3-Trichlorobenzene	0.361	0.344	4.7	105	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
 Data File : VN085372.D
 Acq On : 02 Jan 2025 10:36
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Jan 03 00:41:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 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	105	0.00
2 M	Dichlorodifluoromethane	20.000	20.366	-1.8	101	0.00
3 M	Chloromethane	20.000	19.480	2.6	98	0.00
4 M	Vinyl Chloride	20.000	19.633	1.8	101	0.00
5 M	Bromomethane	20.000	19.756	1.2	105	0.00
6 M	Chloroethane	20.000	20.107	-0.5	101	0.00
7 M	Trichlorofluoromethane	20.000	20.071	-0.4	102	0.00
8 T	Diethyl Ether	20.000	18.425	7.9	100	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	20.235	-1.2	103	0.00
10 M	1,1-Dichloroethene	20.000	19.240	3.8	102	0.00
11	Methyl Iodide	20.000	19.868	0.7	108	0.00
12	Methyl Acetate	20.000	20.895	-4.5	108	0.00
13 M	Acrolein	100.000	99.404	0.6	116	0.00
14 M	Acrylonitrile	100.000	94.741	5.3	99	0.00
15 M	Acetone	100.000	95.833	4.2	98	0.00
16 M	Carbon Disulfide	20.000	18.684	6.6	97	0.00
17	Allyl chloride	20.000	17.751	11.2	95	0.00
18 M	Methylene Chloride	20.000	19.826	0.9	102	0.00
19 M	trans-1,2-Dichloroethene	20.000	19.639	1.8	103	0.01
20 T	Diisopropyl ether	20.000	19.464	2.7	99	0.00
21 M	1,1-Dichloroethane	20.000	19.556	2.2	100	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.360	3.2	102	0.00
23 M	tert-Butyl Alcohol	100.000	89.034	11.0	98	0.00
24 M	Methyl tert-Butyl Ether	20.000	18.963	5.2	100	-0.01
25 M	Chloroform	20.000	19.919	0.4	101	0.00
26	Cyclohexane	20.000	18.693	6.5	99	0.00
27 s	1,2-Dichloroethane-d4	30.000	29.713	1.0	103	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	106	0.00
29	1,1-Dichloropropene	20.000	19.319	3.4	101	0.00
30 M	2-Butanone	100.000	92.708	7.3	96	0.00
31	2,2-Dichloropropane	20.000	19.441	2.8	100	0.00
32 M	1,1,1-Trichloroethane	20.000	19.457	2.7	100	0.00
33 M	Carbon Tetrachloride	20.000	19.789	1.1	102	0.00
34 M	Benzene	20.000	19.694	1.5	101	0.00
35	Methacrylonitrile	20.000	18.637	6.8	98	0.00
36 M	1,2-Dichloroethane	20.000	19.625	1.9	101	0.00
37 M	Trichloroethene	20.000	19.590	2.1	102	0.00
38	Methylcyclohexane	20.000	18.337	8.3	104	0.00
39 M	1,2-Dichloropropane	20.000	19.650	1.8	101	0.00
40	Dibromomethane	20.000	19.692	1.5	101	0.00
41 M	Bromodichloromethane	20.000	19.510	2.4	99	0.00
42 M	Vinyl Acetate	100.000	90.822	9.2	97	0.00
43	Ethyl Acetate	20.000	18.146	9.3	98	0.00
44	Isopropyl Acetate	20.000	18.504	7.5	97	0.00
45 T	1,4-Dioxane	400.000	380.926	4.8	100	0.00
46	Methyl methacrylate	20.000	18.061	9.7	95	0.00
47	n-amyl Acetate	20.000	18.148	9.3	98	0.00
48 M	t-1,3-Dichloropropene	20.000	18.761	6.2	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
 Data File : VN085372.D
 Acq On : 02 Jan 2025 10:36
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Jan 03 00:41:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 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	19.043	4.8	101	0.00
50 M	1,1,2-Trichloroethane	20.000	19.198	4.0	96	0.00
51	Ethyl methacrylate	20.000	18.326	8.4	101	0.00
52	1,3-Dichloropropane	20.000	19.424	2.9	99	0.00
53 M	Dibromochloromethane	20.000	19.378	3.1	98	0.00
54 M	1,2-Dibromoethane	20.000	20.042	-0.2	104	0.00
55 M	2-Chloroethyl vinyl ether	100.000	80.157	19.8	86	0.00
56 M	Bromoform	20.000	18.991	5.0	100	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	105	0.00
58 M	4-Methyl-2-Pentanone	100.000	97.127	2.9	97	0.00
59 M	2-Hexanone	100.000	94.892	5.1	96	0.00
60 S	4-Bromofluorobenzene	30.000	30.022	-0.1	105	0.00
61 M	Tetrachloroethene	20.000	21.078	-5.4	108	0.00
62 M	Toluene	20.000	19.334	3.3	98	0.00
63 S	Toluene-d8	30.000	30.465	-1.5	103	0.00
64 M	Chlorobenzene	20.000	19.832	0.8	102	0.00
65	1,1,1,2-Tetrachloroethane	20.000	19.742	1.3	100	0.00
66 M	Ethyl Benzene	20.000	18.956	5.2	100	0.00
67 M	m/p-Xylenes	40.000	40.167	-0.4	102	0.00
68 M	o-Xylene	20.000	19.420	2.9	102	0.00
69 M	Styrene	20.000	19.398	3.0	100	0.00
70	Isopropylbenzene	20.000	19.390	3.0	102	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	19.173	4.1	99	0.00
72	1,2,3-Trichloropropane	20.000	19.145	4.3	105	0.00
73	Bromobenzene	20.000	19.542	2.3	99	0.00
74	n-propylbenzene	20.000	19.628	1.9	103	0.00
75	2-Chlorotoluene	20.000	19.698	1.5	103	0.00
76	1,3,5-Trimethylbenzene	20.000	19.582	2.1	101	0.00
77	t-1,4-Dichloro-2-butene	20.000	18.496	7.5	103	0.00
78	4-Chlorotoluene	20.000	19.622	1.9	103	0.00
79	tert-butylbenzene	20.000	19.177	4.1	104	0.00
80	1,2,4-Trimethylbenzene	20.000	20.071	-0.4	104	0.00
81	sec-Butylbenzene	20.000	19.611	1.9	105	0.00
82	p-Isopropyltoluene	20.000	19.265	3.7	106	0.00
83 M	1,3-Dichlorobenzene	20.000	19.328	3.4	99	0.00
84 M	1,4-Dichlorobenzene	20.000	19.809	1.0	107	0.00
85	n-Butylbenzene	20.000	18.275	8.6	104	0.00
86 T	Hexachloroethane	20.000	19.140	4.3	98	0.00
87 M	1,2-Dichlorobenzene	20.000	19.651	1.7	102	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	19.399	3.0	102	0.00
89	1,2,4-Trichlorobenzene	20.000	19.076	4.6	105	0.00
90	Hexachlorobutadiene	20.000	19.289	3.6	102	0.00
91 M	Naphthalene	20.000	17.199	14.0	100	0.00
92	1,2,3-Trichlorobenzene	20.000	19.076	4.6	105	0.00

(#) = Out of Range

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



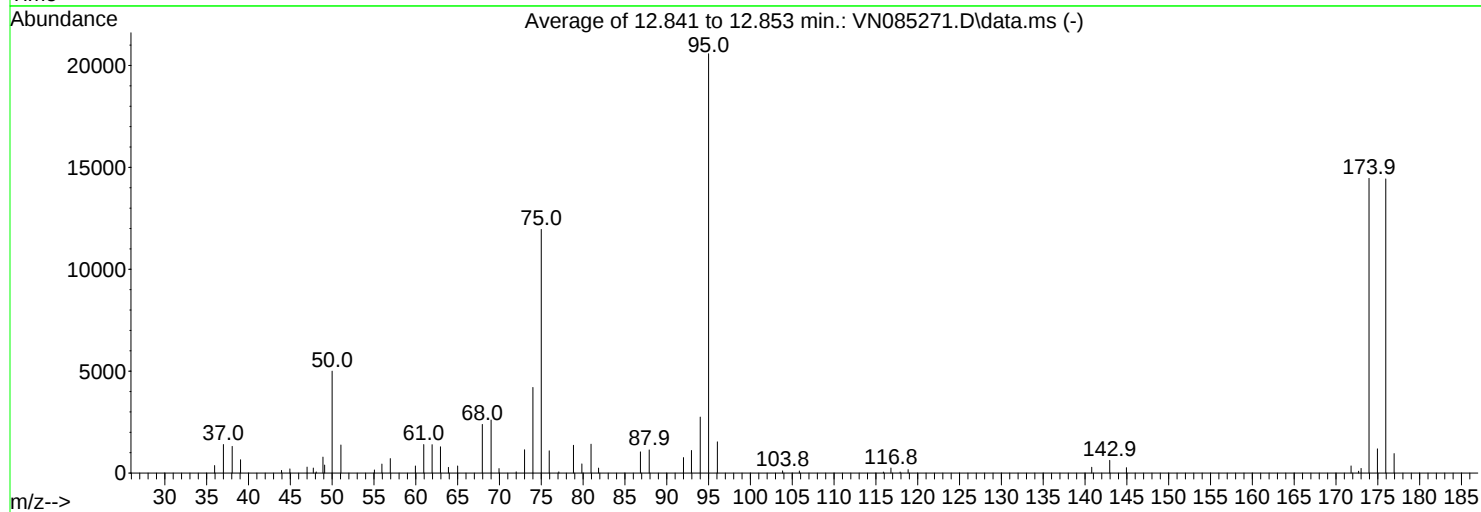
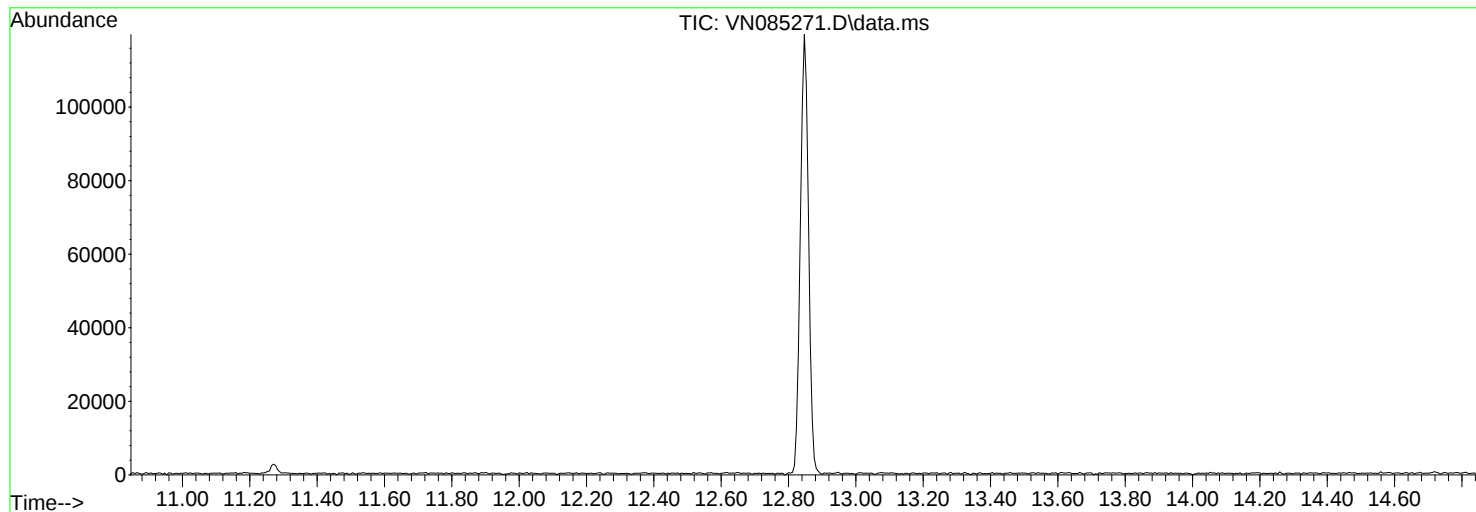
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085271.D
Acq On : 20 Dec 2024 09:21
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\624N122024W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Sat Dec 21 02:03:07 2024



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

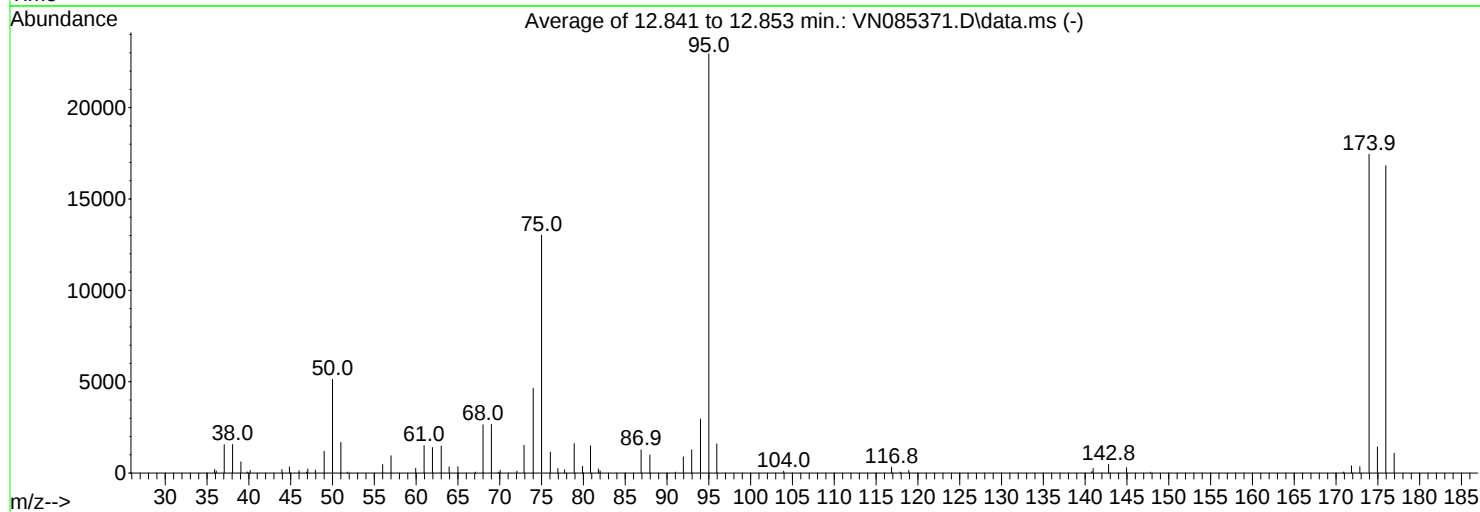
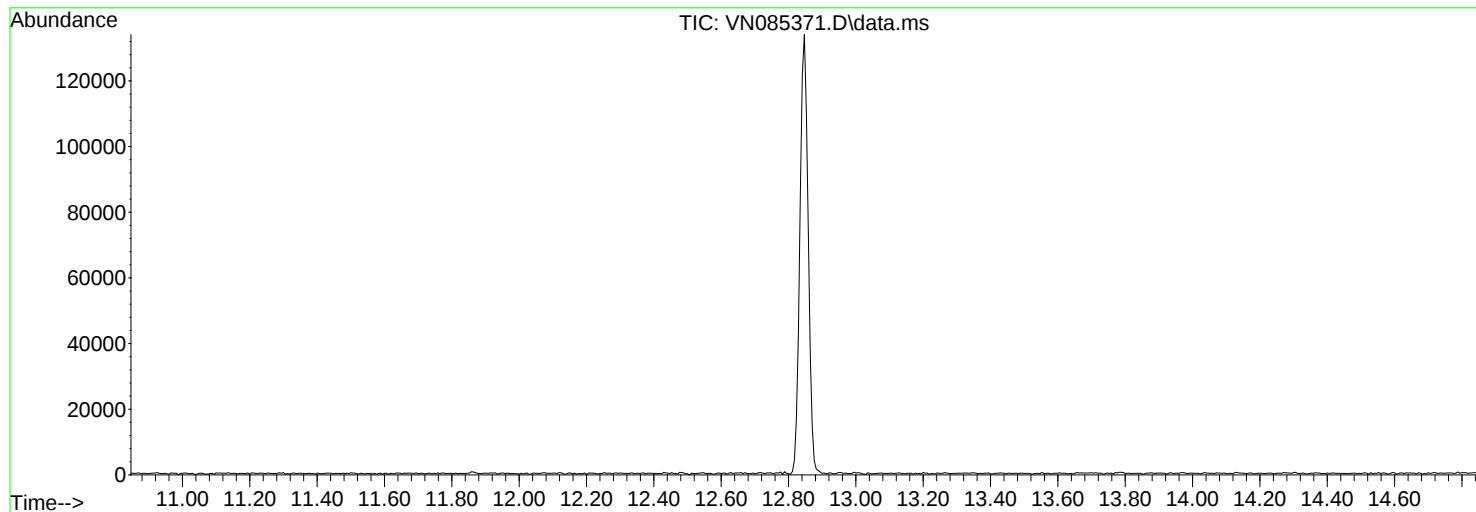
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.3	5003	PASS
75	95	30	60	58.1	11958	PASS
95	95	100	100	100.0	20576	PASS
96	95	5	9	7.5	1534	PASS
173	174	0.00	2	1.6	229	PASS
174	95	50	100	70.3	14462	PASS
175	174	5	9	8.2	1190	PASS
176	174	95	101	99.8	14434	PASS
177	176	5	9	6.6	957	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
Data File : VN085371.D
Acq On : 02 Jan 2025 10:02
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Sat Dec 21 02:03:07 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	22.4	5134	PASS
75	95	30	60	56.7	13019	PASS
95	95	100	100	100.0	22949	PASS
96	95	5	9	7.0	1595	PASS
173	174	0.00	2	2.0	349	PASS
174	95	50	100	76.0	17451	PASS
175	174	5	9	8.2	1431	PASS
176	174	95	101	96.4	16826	PASS
177	176	5	9	6.4	1082	PASS

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	
Project:	Transfer Station-SPDES	Date Received:	
Client Sample ID:	VN0102WBL01	SDG No.:	P5399
Lab Sample ID:	VN0102WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085375.D	1		01/02/25 12:10	VN010225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
108-88-3	Toluene	0.72	U	0.72	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.1		91 - 110	97%	SPK: 30
2037-26-5	Toluene-d8	28.4		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	23.4		63 - 112	78%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29000	7.812			
540-36-3	1,4-Difluorobenzene	141000	9.1			
3114-55-4	Chlorobenzene-d5	124000	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\VN010225\
Data File : VN085375.D
Acq On : 02 Jan 2025 12:10
Operator : JC\MD
Sample : VN0102WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0102WBL01

Quant Time: Jan 03 00:43:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28991	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	140575	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	123860	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	74120	29.063	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.867%
60) 4-Bromofluorobenzene	12.847	95	47025	23.438	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	78.133%
63) Toluene-d8	10.565	98	171982	28.436	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.800%

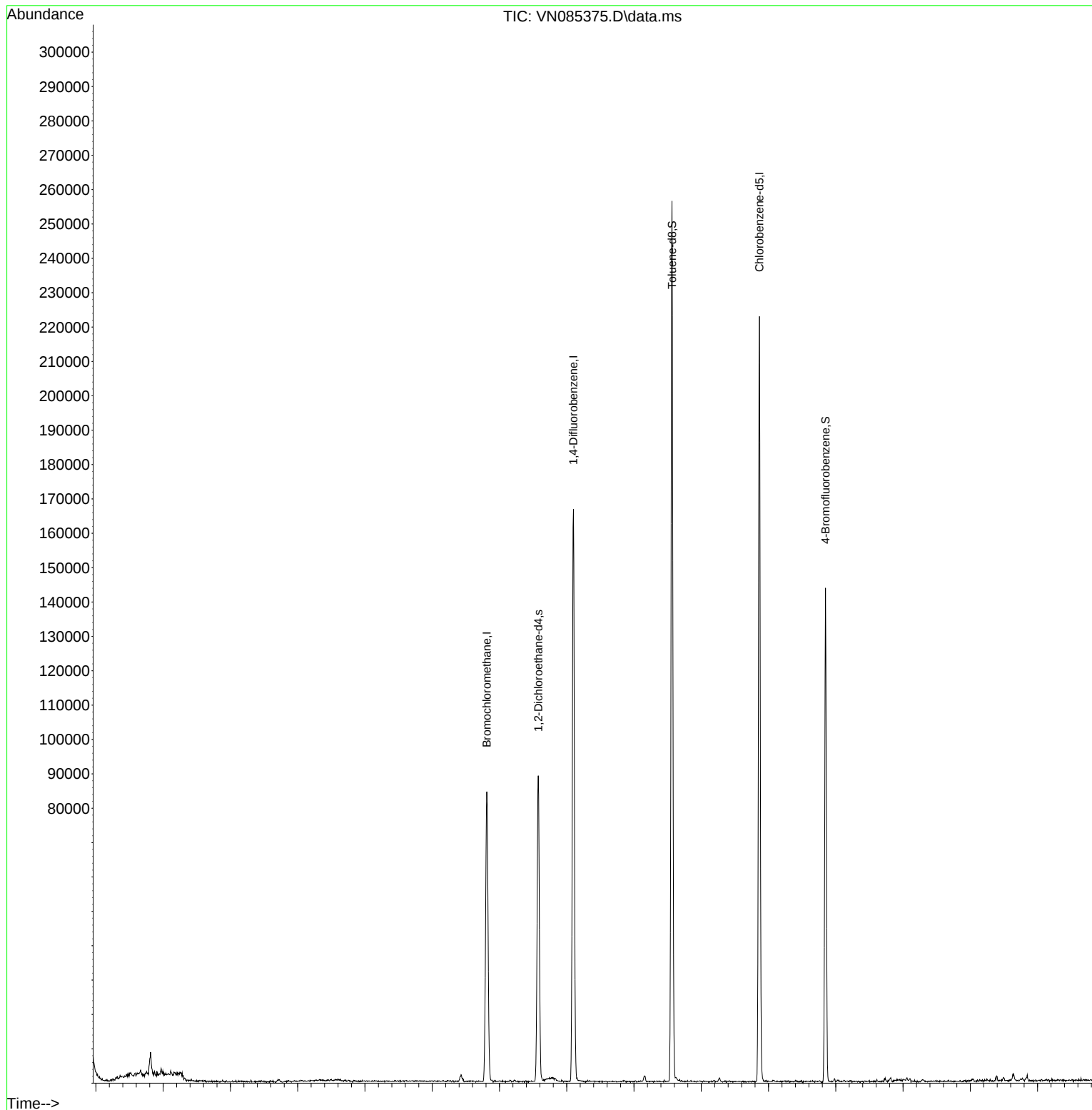
Target Compounds	Qvalue

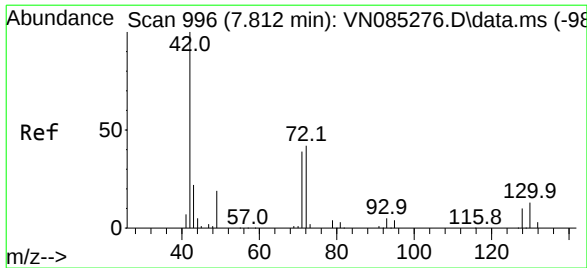
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
Data File : VN085375.D
Acq On : 02 Jan 2025 12:10
Operator : JC\MD
Sample : VN0102WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0102WBL01

Quant Time: Jan 03 00:43:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

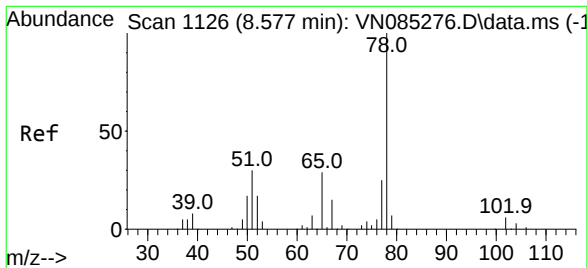
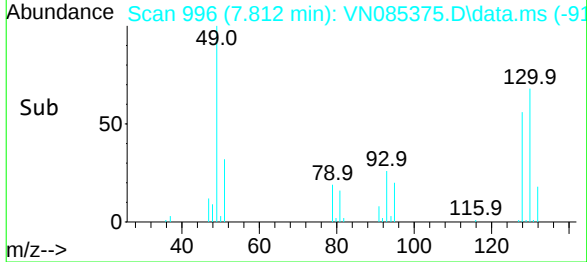
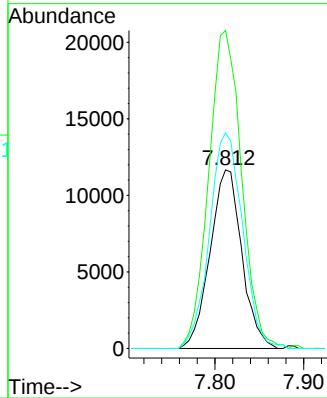
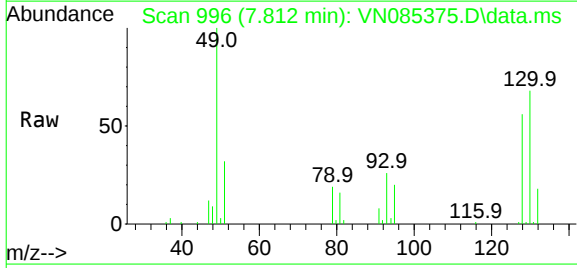




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085375.D
Acq: 02 Jan 2025 12:10

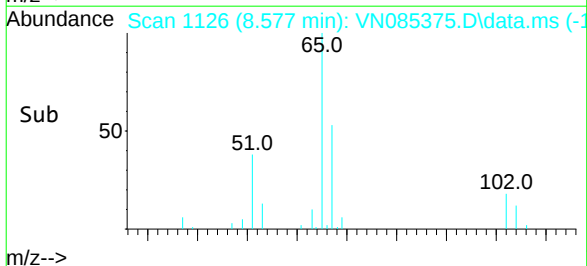
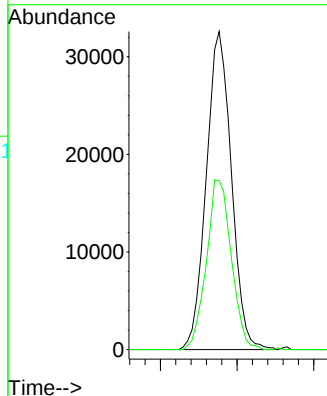
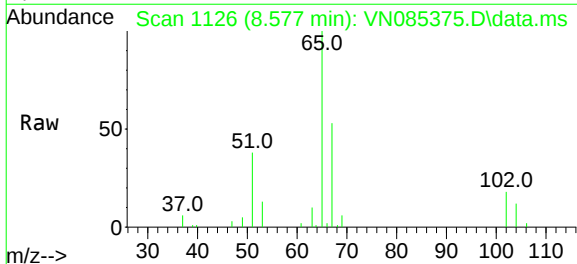
Instrument :
MSVOA_N
ClientSampleId :
VN0102WBL01

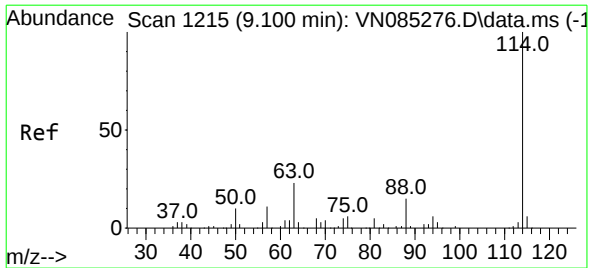
Tgt Ion	Ratio	Lower	Upper
128	100		
49	184.1	0.0	497.8
130	126.4	0.0	328.5



#27
1,2-Dichloroethane-d4
Concen: 29.063 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085375.D
Acq: 02 Jan 2025 12:10

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.9	42.0	63.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN085375.D

Acq: 02 Jan 2025 12:10

Instrument :

MSVOA_N

ClientSampleId :

VN0102WBL01

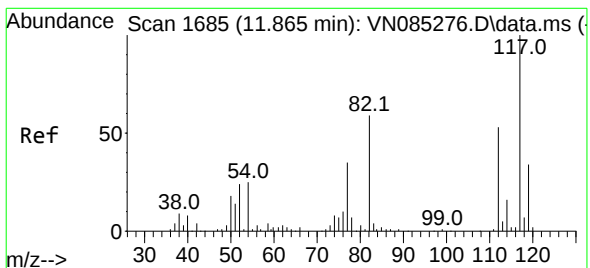
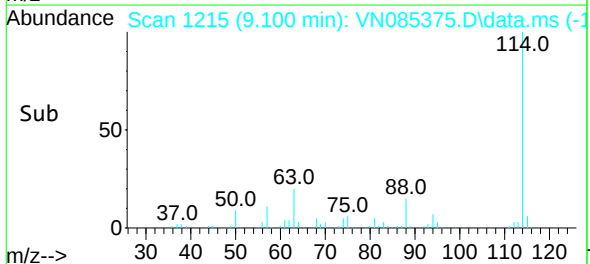
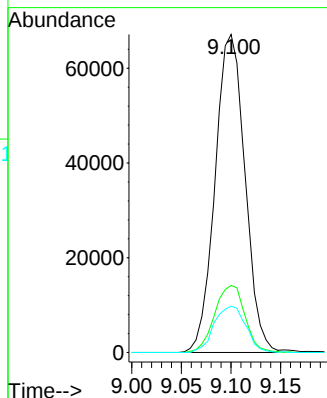
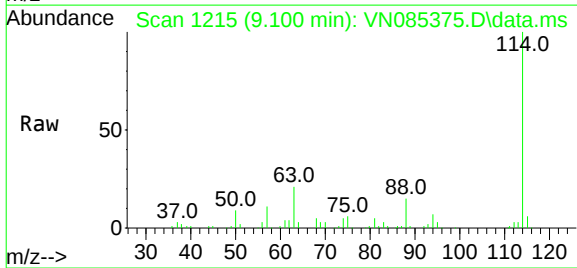
Tgt Ion:114 Resp: 140575

Ion Ratio Lower Upper

114 100

63 21.4 18.0 27.0

88 15.4 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: VN085375.D

Acq: 02 Jan 2025 12:10

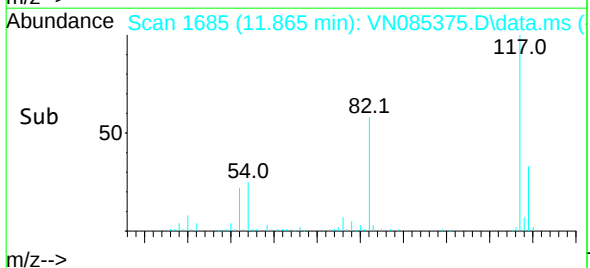
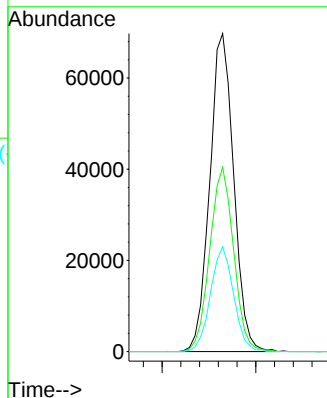
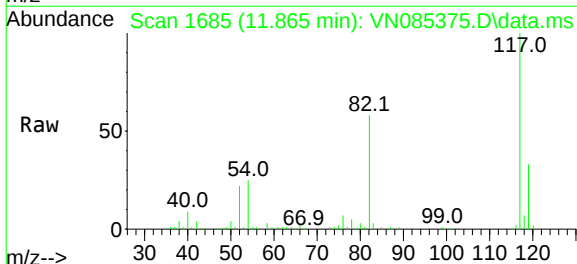
Tgt Ion:117 Resp: 123860

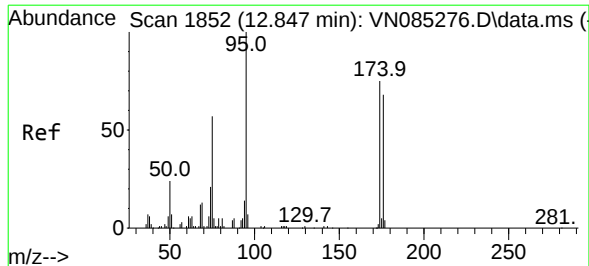
Ion Ratio Lower Upper

117 100

82 57.7 47.4 71.0

119 31.8 25.3 37.9





#60

4-Bromofluorobenzene

Concen: 23.438 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN085375.D

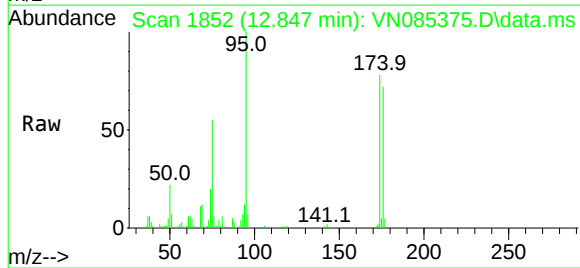
Acq: 02 Jan 2025 12:10

Instrument :

MSVOA_N

ClientSampleId :

VN0102WBL01



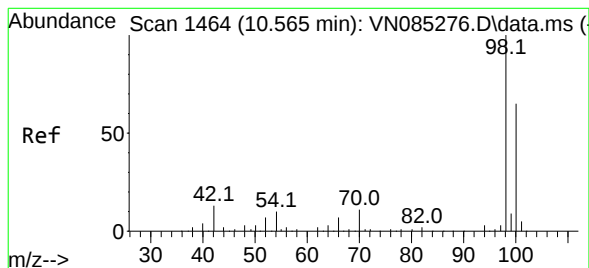
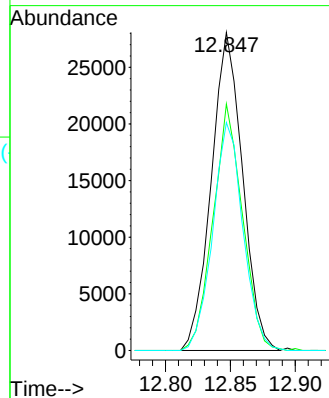
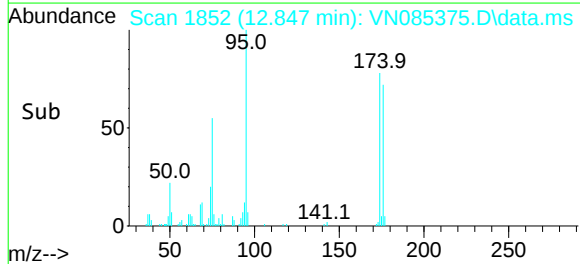
Tgt Ion: 95 Resp: 47025

Ion Ratio Lower Upper

95 100

174 73.0 57.8 86.8

176 69.3 57.1 85.7



#63

Toluene-d8

Concen: 28.436 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085375.D

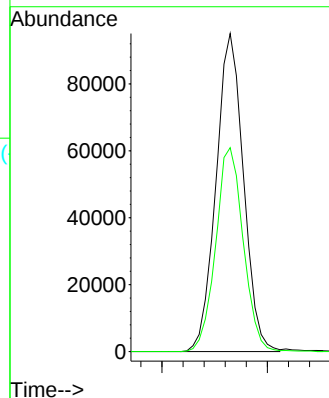
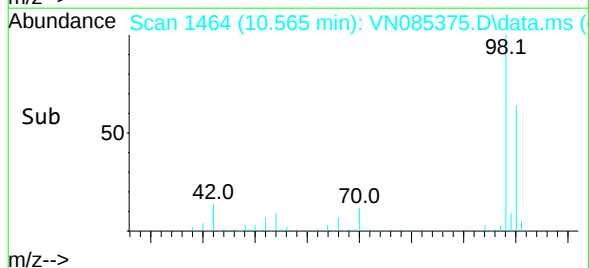
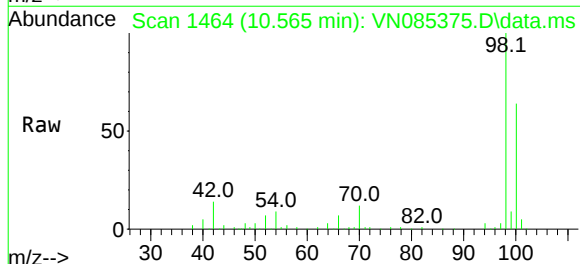
Acq: 02 Jan 2025 12:10

Tgt Ion: 98 Resp: 171982

Ion Ratio Lower Upper

98 100

100 64.2 50.8 76.2



Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	
Project:	Transfer Station-SPDES	Date Received:	
Client Sample ID:	VN0102WBS01	SDG No.:	P5399
Lab Sample ID:	VN0102WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085373.D	1		01/02/25 11:11	VN010225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	18.4		0.69	5.00	ug/L
108-88-3	Toluene	18.6		0.72	5.00	ug/L
100-41-4	Ethyl Benzene	17.9		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	37.2		1.70	10.0	ug/L
95-47-6	o-Xylene	17.9		0.82	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.4		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	29.3		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.2		63 - 112	97%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	34900	7.812			
540-36-3	1,4-Difluorobenzene	188000	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\VN010225\
 Data File : VN085373.D
 Acq On : 02 Jan 2025 11:11
 Operator : JC\MD
 Sample : VN0102WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0102WBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/03/2025
 Supervised By :Semsettin Yesilyurt 01/03/2025

Quant Time: Jan 03 00:42:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	34895	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	188370	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	177459	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	90236	29.396	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.000%		
60) 4-Bromofluorobenzene	12.847	95	83815	29.158	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.200%		
63) Toluene-d8	10.565	98	253470	29.251	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.500%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	56208	19.265	ug/l	98
3) Chloromethane	2.359	50	53560	18.181	ug/l	99
4) Vinyl Chloride	2.512	62	55869	18.678	ug/l	98
5) Bromomethane	2.959	94	33344	19.069	ug/l	98
6) Chloroethane	3.124	64	36611	19.389	ug/l	95
7) Trichlorofluoromethane	3.500	101	77986	18.977	ug/l	100
8) Diethyl Ether	3.959	74	25739	18.187	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.371	101	45368	19.226	ug/l	97
10) 1,1-Dichloroethene	4.341	96	40486	18.781	ug/l	97
11) Methyl Iodide	4.589	142	50269	19.457	ug/l	96
12) Methyl Acetate	5.018	43	63361	19.682	ug/l	95
13) Acrolein	4.183	56	34043	118.454	ug/l	100
14) Acrylonitrile	5.712	53	113343	91.029	ug/l	99
15) Acetone	4.424	58	29730	94.653	ug/l	98
16) Carbon Disulfide	4.712	76	118940	18.151	ug/l	97
17) Allyl chloride	5.024	41	62379	17.888	ug/l	92
18) Methylene Chloride	5.277	84	47733	18.582	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	43177	19.257	ug/l	90
20) Diisopropyl ether	6.665	45	150669	18.852	ug/l	94
21) 1,1-Dichloroethane	6.565	63	86997	18.620	ug/l #	95
22) cis-1,2-Dichloroethene	7.488	96	50080	18.757	ug/l	98
23) tert-Butyl Alcohol	5.518	59	37582	91.584	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	133648	18.888	ug/l	97
25) Chloroform	7.959	83	89671	18.933	ug/l	97
26) Cyclohexane	8.253	56	66195	18.582	ug/l #	98
29) 1,1-Dichloropropene	8.365	75	59160	18.089	ug/l	98
30) 2-Butanone	7.482	43	154299	89.378	ug/l	100
31) 2,2-Dichloropropane	7.488	77	76961	18.571	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	77054	18.123	ug/l	99
33) Carbon Tetrachloride	8.359	117	68447	18.391	ug/l	99
34) Benzene	8.606	78	190211	18.399	ug/l	98
35) Methacrylonitrile	7.777	41	34953	18.290	ug/l	91
36) 1,2-Dichloroethane	8.665	62	67226	17.983	ug/l	100
37) Trichloroethene	9.353	130	42625	18.740	ug/l	95
38) Methylcyclohexane	9.600	83	60970	18.015	ug/l	96
39) 1,2-Dichloropropane	9.618	63	48144	18.304	ug/l	96
40) Dibromomethane	9.706	93	32747	17.857	ug/l	97
41) Bromodichloromethane	9.888	83	70277	18.338	ug/l	100
42) Vinyl Acetate	6.600	43	532595	87.399	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
 Data File : VN085373.D
 Acq On : 02 Jan 2025 11:11
 Operator : JC\MD
 Sample : VN0102WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0102WBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/03/2025
 Supervised By :Semsettin Yesilyurt 01/03/2025

Quant Time: Jan 03 00:42:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	64755	18.138	ug/l	# 92
44) Isopropyl Acetate	8.688	43	103845	17.510	ug/l	98
45) 1,4-Dioxane	9.694	88	16200	351.188	ug/l	97
46) Methyl methacrylate	9.682	41	46434	16.867	ug/l	97
47) n-amyl Acetate	12.494	43	87243	17.268	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	66432	17.549	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	74284	18.253	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	44405	18.515	ug/l	92
51) Ethyl methacrylate	10.870	69	62938	17.351	ug/l	88
52) 1,3-Dichloropropane	11.165	76	76363	18.241	ug/l	99
53) Dibromochloromethane	11.353	129	50973	18.139	ug/l	100
54) 1,2-Dibromoethane	11.465	107	42459	18.294	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	183673	98.301	ug/l	99
56) Bromoform	12.576	173	31770	17.330	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	323452	89.909	ug/l	99
59) 2-Hexanone	11.194	43	230759	88.296	ug/l	98
61) Tetrachloroethene	11.100	164	39228	19.801	ug/l	92
62) Toluene	10.629	91	202799	18.601	ug/l	99
64) Chlorobenzene	11.888	112	122269	18.595	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	44365	18.605	ug/l	98
66) Ethyl Benzene	11.959	91	205867	17.946	ug/l	100
67) m/p-Xylenes	12.070	106	160161	37.215	ug/l	100
68) o-Xylene	12.394	106	73220	17.861	ug/l	97
69) Styrene	12.412	104	125523	18.118	ug/l	99
70) Isopropylbenzene	12.694	105	187465	18.212	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	63932	17.512	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	58847m	18.939	ug/l	
73) Bromobenzene	12.976	156	46908	18.446	ug/l	98
74) n-propylbenzene	13.035	91	236170	18.416	ug/l	97
75) 2-Chlorotoluene	13.123	91	140521	18.190	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	160785	18.306	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	21225	16.714	ug/l	98
78) 4-Chlorotoluene	13.217	91	142287	18.115	ug/l	98
79) tert-butylbenzene	13.435	119	129447	18.021	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	160995	18.415	ug/l	99
81) sec-Butylbenzene	13.611	105	191803	18.495	ug/l	99
82) p-Isopropyltoluene	13.729	119	156946	18.377	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	86279	18.192	ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	84454	18.406	ug/l	97
85) n-Butylbenzene	14.053	91	132320	17.945	ug/l	100
86) Hexachloroethane	14.335	117	31690	17.284	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	82836	18.385	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	11622	17.438	ug/l	94
89) 1,2,4-Trichlorobenzene	15.835	180	38776	18.165	ug/l	98
90) Hexachlorobutadiene	15.494	225	19438	18.268	ug/l	93
91) Naphthalene	15.641	128	115282	16.809	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	38776	18.165	ug/l	98

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

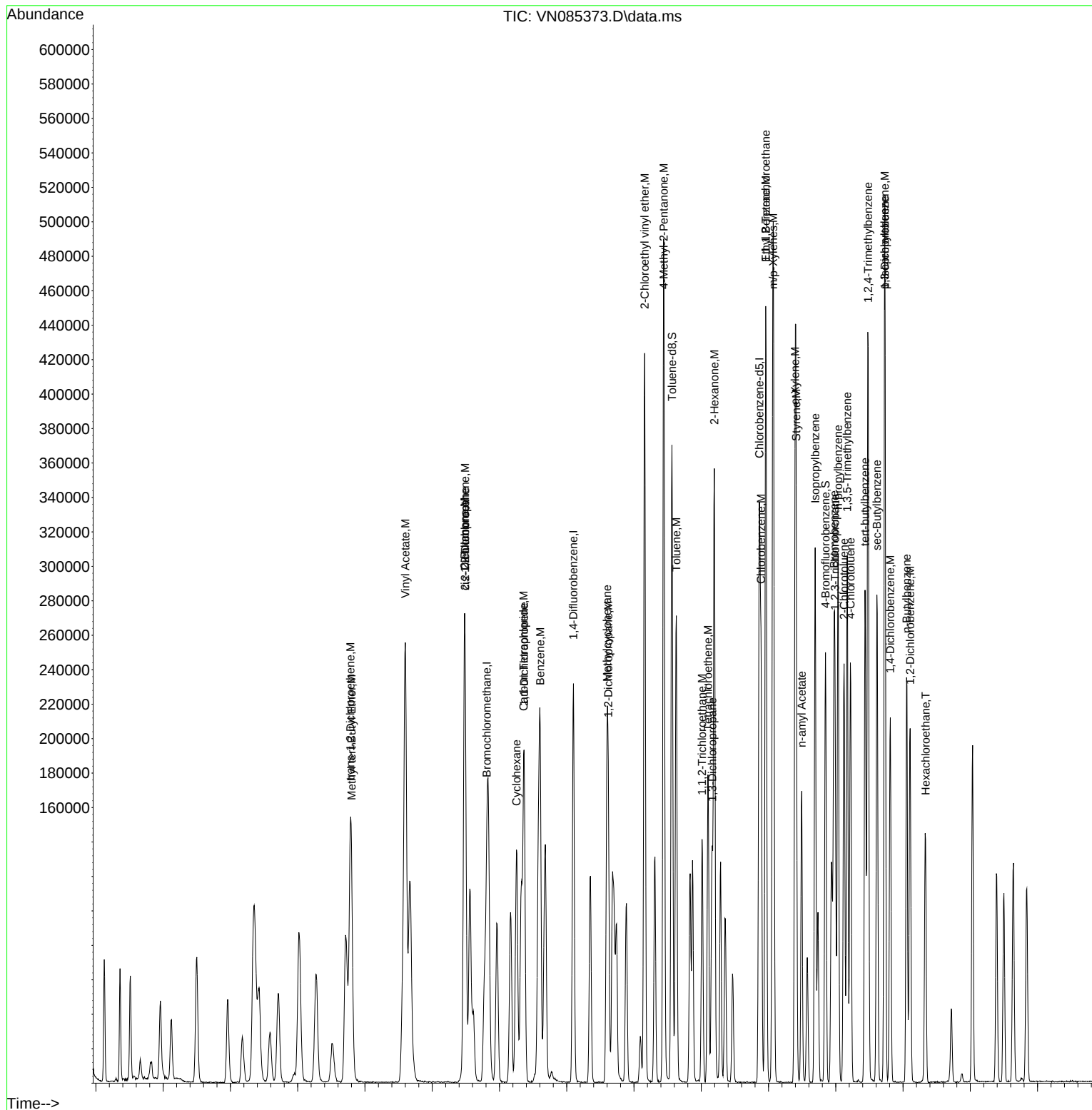
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
Data File : VN085373.D
Acq On : 02 Jan 2025 11:11
Operator : JC\MD
Sample : VN0102WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0102WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/03/2025
Supervised By :Semsettin Yesilyurt 01/03/2025

Quant Time: Jan 03 00:42:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	
Project:	Transfer Station-SPDES	Date Received:	
Client Sample ID:	VN0102WBSD01	SDG No.:	P5399
Lab Sample ID:	VN0102WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085374.D	1		01/02/25 11:46	VN010225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	18.2		0.69	5.00	ug/L
108-88-3	Toluene	18.5		0.72	5.00	ug/L
100-41-4	Ethyl Benzene	17.7		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	36.2		1.70	10.0	ug/L
95-47-6	o-Xylene	17.8		0.82	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.5		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	29.3		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.9		63 - 112	96%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	28800	7.812			
540-36-3	1,4-Difluorobenzene	150000	9.1			
3114-55-4	Chlorobenzene-d5	141000	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\VN010225\
 Data File : VN085374.D
 Acq On : 02 Jan 2025 11:46
 Operator : JC\MD
 Sample : VN0102WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0102WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/03/2025
 Supervised By :Semsettin Yesilyurt 01/03/2025

Quant Time: Jan 03 00:43:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28825	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	150375	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	140882	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	74885	29.532	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.433%		
60) 4-Bromofluorobenzene	12.847	95	65881	28.869	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.233%		
63) Toluene-d8	10.565	98	201810	29.336	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.800%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	43830	18.186	ug/l	97
3) Chloromethane	2.359	50	43561	17.901	ug/l	100
4) Vinyl Chloride	2.512	62	43983	17.801	ug/l	98
5) Bromomethane	2.959	94	27832	19.268	ug/l	97
6) Chloroethane	3.124	64	28664	18.377	ug/l	96
7) Trichlorofluoromethane	3.495	101	61204	18.030	ug/l	96
8) Diethyl Ether	3.965	74	21636	18.507	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	35722	18.326	ug/l	97
10) 1,1-Dichloroethene	4.336	96	32218	18.093	ug/l	87
11) Methyl Iodide	4.589	142	40645	19.045	ug/l	93
12) Methyl Acetate	5.018	43	54269	20.407	ug/l #	89
13) Acrolein	4.177	56	28011	117.990	ug/l	97
14) Acrylonitrile	5.718	53	97259	94.560	ug/l	99
15) Acetone	4.430	58	24494	94.405	ug/l	100
16) Carbon Disulfide	4.712	76	93192	17.216	ug/l	97
17) Allyl chloride	5.012	41	49592	17.216	ug/l	91
18) Methylene Chloride	5.271	84	39098	18.425	ug/l	93
19) trans-1,2-Dichloroethene	5.783	96	33702	18.196	ug/l	91
20) Diisopropyl ether	6.671	45	121088	18.341	ug/l	96
21) 1,1-Dichloroethane	6.571	63	70509	18.269	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	40529	18.376	ug/l	98
23) tert-Butyl Alcohol	5.518	59	31596	93.211	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	108906	18.633	ug/l	99
25) Chloroform	7.965	83	71120	18.179	ug/l	95
26) Cyclohexane	8.259	56	50243	17.074	ug/l #	95
29) 1,1-Dichloropropene	8.371	75	46936	17.977	ug/l	100
30) 2-Butanone	7.477	43	130466	94.668	ug/l #	97
31) 2,2-Dichloropropane	7.489	77	61332	18.539	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	60856	17.930	ug/l	98
33) Carbon Tetrachloride	8.359	117	54050	18.192	ug/l	95
34) Benzene	8.600	78	150116	18.190	ug/l	97
35) Methacrylonitrile	7.777	41	29327	19.223	ug/l	92
36) 1,2-Dichloroethane	8.665	62	56272	18.856	ug/l	99
37) Trichloroethene	9.347	130	33322	18.351	ug/l	84
38) Methylcyclohexane	9.600	83	43968	16.274	ug/l	97
39) 1,2-Dichloropropane	9.618	63	39840	18.974	ug/l	89
40) Dibromomethane	9.706	93	27515	18.795	ug/l	99
41) Bromodichloromethane	9.882	83	57181	18.690	ug/l	96
42) Vinyl Acetate	6.600	43	430164	88.426	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
 Data File : VN085374.D
 Acq On : 02 Jan 2025 11:46
 Operator : JC\MD
 Sample : VN0102WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0102WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/03/2025
 Supervised By :Semsettin Yesilyurt 01/03/2025

Quant Time: Jan 03 00:43:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	53057	18.616	ug/l	98
44) Isopropyl Acetate	8.688	43	88418	18.675	ug/l	99
45) 1,4-Dioxane	9.694	88	13683	371.571	ug/l	95
46) Methyl methacrylate	9.682	41	40144	18.267	ug/l	95
47) n-amyl Acetate	12.494	43	70942	17.589	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	53939	17.849	ug/l	95
49) cis-1,3-Dichloropropene	10.306	75	58851	18.115	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	36274	18.947	ug/l	96
51) Ethyl methacrylate	10.871	69	51381	17.744	ug/l	96
52) 1,3-Dichloropropane	11.159	76	62769	18.782	ug/l	98
53) Dibromochloromethane	11.359	129	42092	18.763	ug/l	98
54) 1,2-Dibromoethane	11.465	107	35337	19.072	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	140721	94.342	ug/l	99
56) Bromoform	12.571	173	26113	17.843	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	274920	96.260	ug/l	99
59) 2-Hexanone	11.194	43	196346	94.634	ug/l	98
61) Tetrachloroethene	11.100	164	30525	19.409	ug/l	96
62) Toluene	10.630	91	159821	18.465	ug/l	99
64) Chlorobenzene	11.888	112	97178	18.616	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	35713	18.865	ug/l	99
66) Ethyl Benzene	11.959	91	161218	17.702	ug/l	96
67) m/p-Xylenes	12.071	106	123557	36.163	ug/l	100
68) o-Xylene	12.394	106	57898	17.791	ug/l	99
69) Styrene	12.412	104	97383	17.706	ug/l	99
70) Isopropylbenzene	12.694	105	146445	17.921	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	53484	18.453	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	49026m	19.874	ug/l	
73) Bromobenzene	12.976	156	36573	18.116	ug/l	97
74) n-propylbenzene	13.035	91	178497	17.533	ug/l	98
75) 2-Chlorotoluene	13.123	91	110458	18.011	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	121916	17.484	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	17774	17.630	ug/l	95
78) 4-Chlorotoluene	13.218	91	112409	18.027	ug/l	98
79) tert-butylbenzene	13.435	119	98400	17.256	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	122987	17.720	ug/l	100
81) sec-Butylbenzene	13.612	105	142823	17.348	ug/l	100
82) p-Isopropyltoluene	13.729	119	117390	17.314	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	67151	17.835	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	65266	17.918	ug/l	98
85) n-Butylbenzene	14.053	91	97474	16.652	ug/l	100
86) Hexachloroethane	14.335	117	24404	16.766	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	64401	18.004	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	9684	18.303	ug/l	91
89) 1,2,4-Trichlorobenzene	15.841	180	30152	17.793	ug/l	98
90) Hexachlorobutadiene	15.500	225	14503	17.169	ug/l	97
91) Naphthalene	15.641	128	92325	16.957	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	30152	17.793	ug/l	98

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

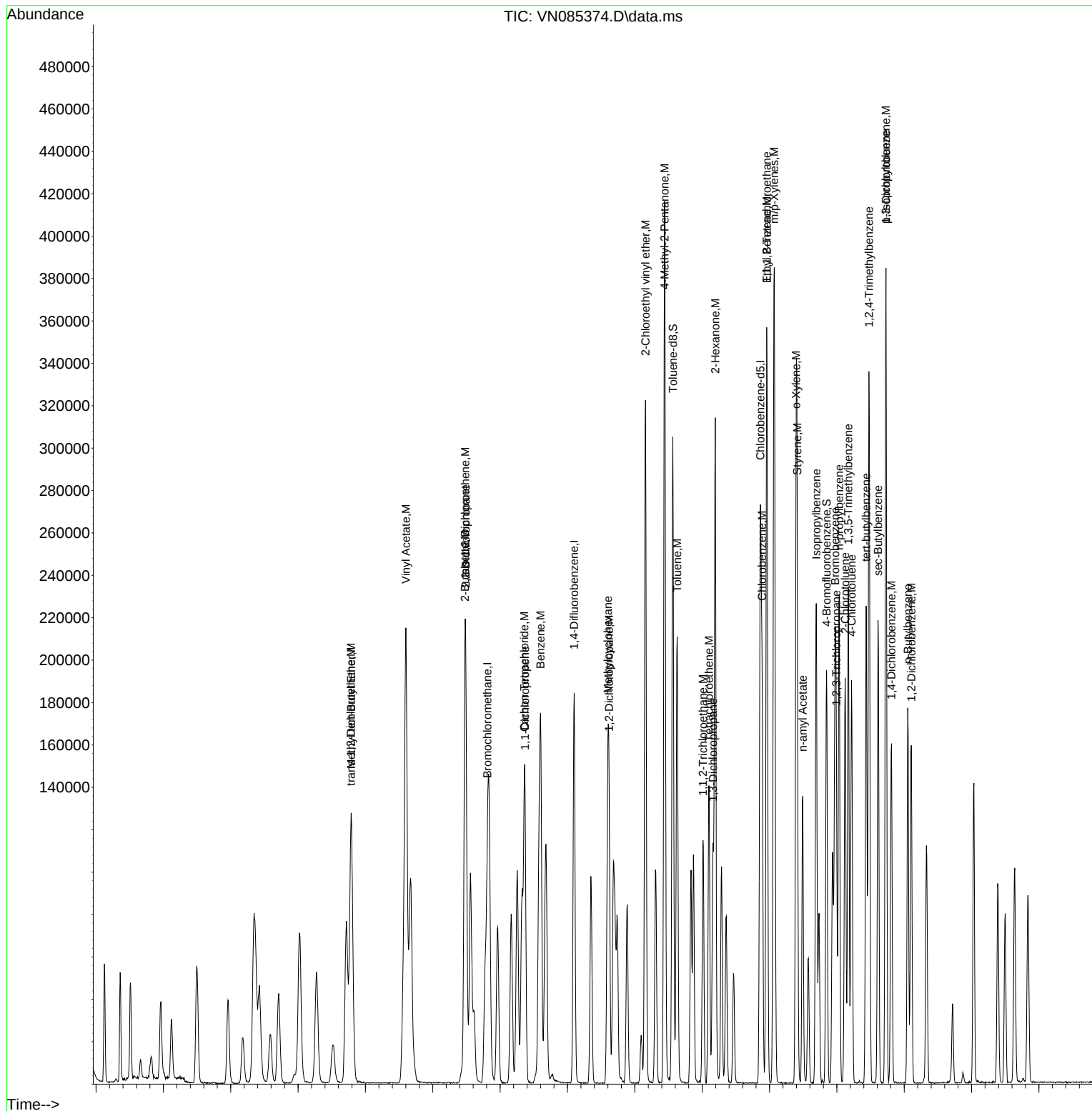
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\  
Data File : VN085374.D  
Acq On    : 02 Jan 2025  11:46  
Operator  : JC\MD  
Sample    : VN0102WBSD01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN0102WBSD01

Manual Integrations

Reviewed By :Mahesh Dadoda 01/03/2025
Supervised By :Semsettin Yesilyurt 01/03/2025

Quant Time: Jan 03 00:43:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:	VN122024	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VN085272.D	1,1-Dichloroethene	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	1,2-Dibromo-3-Chloropropane	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	Acetone	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	Methacrylonitrile	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	Methyl Acetate	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICC005	VN085272.D	tert-Butyl Alcohol	SAM	12/23/2024 7:24:42 AM	MMDadoda	12/24/2024 12:27:52 AM	Peak Integrated by Software
VSTDICCC020	VN085273.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:44 AM	MMDadoda	12/24/2024 12:27:54 AM	Peak Integrated by Software
VSTDICC050	VN085274.D	1,2,3-Trichloropropane	JOHN	12/23/2024 9:01:06 AM	MMDadoda	12/24/2024 12:27:55 AM	Peak Integrated by Software
VSTDICC100	VN085275.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:45 AM	MMDadoda	12/24/2024 12:27:57 AM	Peak Integrated by Software
VSTDICC150	VN085276.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:47 AM	MMDadoda	12/24/2024 12:27:58 AM	Peak Integrated by Software
VSTDICV020	VN085278.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:51 AM	MMDadoda	12/24/2024 12:28:01 AM	Peak Integrated by Software
VSTDCCC020	VN085284.D	1,2,3-Trichloropropane	SAM	12/23/2024 7:24:56 AM	MMDadoda	12/24/2024 12:28:06 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VN122024

Instrument

MSVOA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VN010225	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN085372.D	1,2,3-Trichloropropane	MMDadoda	1/3/2025 1:08:22 PM	SAM	1/3/2025 1:09:11 PM	Peak Integrated by Software
VSTDCCC020	VN085372.D	Methylene Chloride	MMDadoda	1/3/2025 1:08:22 PM	SAM	1/3/2025 1:09:11 PM	Peak Integrated by Software
VSTDCCC020	VN085372.D	trans-1,2-Dichloroethene	MMDadoda	1/3/2025 1:08:22 PM	SAM	1/3/2025 1:09:11 PM	Peak Integrated by Software
VN0102WBS01	VN085373.D	1,2,3-Trichloropropane	MMDadoda	1/3/2025 1:08:24 PM	SAM	1/3/2025 1:09:12 PM	Peak Integrated by Software
VN0102WBSD01	VN085374.D	1,2,3-Trichloropropane	MMDadoda	1/3/2025 1:08:25 PM	SAM	1/3/2025 1:09:13 PM	Peak Integrated by Software
P5399-03	VN085376.D	Carbon Disulfide	JOHN	1/2/2025 2:30:48 PM	MMDadoda	1/3/2025 1:08:26 PM	Peak Integrated by Software
P5399-04	VN085377.D	Carbon Disulfide	JOHN	1/2/2025 2:30:53 PM	MMDadoda	1/3/2025 1:08:28 PM	Peak Integrated by Software
P5399-04	VN085377.D	o-Xylene	JOHN	1/2/2025 2:30:53 PM	MMDadoda	1/3/2025 1:08:28 PM	Peak Integrated by Software
VSTDCCC020	VN085378.D	1,2,3-Trichloropropane	MMDadoda	1/3/2025 1:08:29 PM	SAM	1/3/2025 1:09:15 PM	Peak Integrated by Software
VSTDCCC020	VN085378.D	Carbon Tetrachloride	MMDadoda	1/3/2025 1:08:29 PM	SAM	1/3/2025 1:09:15 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:25:05 AM
Supervise By	John Carlone	Supervise On	12/23/2024 9:01:48 AM
SubDirectory	VN122024	HP Acquire Method	HP Processing Method 624N122024W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132256		
Initial Calibration Stds	VP132258,VP132259,VP132260,VP132261,VP132262		
CCC	VP132257		
Internal Standard/PEM			
ICV/I.BLK	VP132262		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085271.D	20 Dec 2024 09:21	JC\MD	Ok
2	VSTDIC005	VN085272.D	20 Dec 2024 10:05	JC\MD	Ok,M
3	VSTDICCC020	VN085273.D	20 Dec 2024 10:29	JC\MD	Ok,M
4	VSTDIC050	VN085274.D	20 Dec 2024 10:53	JC\MD	Ok,M
5	VSTDIC100	VN085275.D	20 Dec 2024 11:17	JC\MD	Ok,M
6	VSTDIC150	VN085276.D	20 Dec 2024 11:42	JC\MD	Ok,M
7	IBLK	VN085277.D	20 Dec 2024 12:06	JC\MD	Ok,M
8	VSTDICV020	VN085278.D	20 Dec 2024 12:32	JC\MD	Ok,M
9	VN1220WBS01	VN085279.D	20 Dec 2024 13:08	JC\MD	Ok,M
10	VN1220WBSD01	VN085280.D	20 Dec 2024 13:42	JC\MD	Ok,M
11	VN1220WBL01	VN085281.D	20 Dec 2024 14:06	JC\MD	Ok
12	P5328-01	VN085282.D	20 Dec 2024 14:43	JC\MD	Ok
13	P5328-02	VN085283.D	20 Dec 2024 15:07	JC\MD	Ok
14	VSTDCCC020	VN085284.D	20 Dec 2024 16:13	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN010225

Review By	Mahesh Dadoda	Review On	1/3/2025 1:08:39 PM
Supervise By	Semsettin Yesilyurt	Supervise On	1/3/2025 1:09:16 PM
SubDirectory	VN010225	HP Acquire Method	HP Processing Method 624N122024W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132412		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132413,VP132414		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085371.D	02 Jan 2025 10:02	JC\MD	Ok
2	VSTDCCC020	VN085372.D	02 Jan 2025 10:36	JC\MD	Ok,M
3	VN0102WBS01	VN085373.D	02 Jan 2025 11:11	JC\MD	Ok,M
4	VN0102WBSD01	VN085374.D	02 Jan 2025 11:46	JC\MD	Ok,M
5	VN0102WBL01	VN085375.D	02 Jan 2025 12:10	JC\MD	Ok
6	P5399-03	VN085376.D	02 Jan 2025 12:44	JC\MD	Ok,M
7	P5399-04	VN085377.D	02 Jan 2025 13:08	JC\MD	Ok,M
8	VSTDCCC020	VN085378.D	02 Jan 2025 15:33	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN122024

Review By	Semsettin Yesilyurt	Review On	12/23/2024 7:25:05 AM
Supervise By	John Carlone	Supervise On	12/23/2024 9:01:48 AM
SubDirectory	VN122024	HP Acquire Method	HP Processing Method 624N122024W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132256		
Initial Calibration Stds	VP132258,VP132259,VP132260,VP132261,VP132262		
CCC	VP132257		
Internal Standard/PEM			
ICV/I.BLK	VP132262		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085271.D	20 Dec 2024 09:21		JC\MD	Ok
2	VSTDIC005	VSTDIC005	VN085272.D	20 Dec 2024 10:05	V13516	JC\MD	Ok,M
3	VSTDICCC020	VSTDICCC020	VN085273.D	20 Dec 2024 10:29		JC\MD	Ok,M
4	VSTDIC050	VSTDIC050	VN085274.D	20 Dec 2024 10:53		JC\MD	Ok,M
5	VSTDIC100	VSTDIC100	VN085275.D	20 Dec 2024 11:17		JC\MD	Ok,M
6	VSTDIC150	VSTDIC150	VN085276.D	20 Dec 2024 11:42		JC\MD	Ok,M
7	IBLK	IBLK	VN085277.D	20 Dec 2024 12:06		JC\MD	Ok,M
8	VSTDICV020	ICVVN122024	VN085278.D	20 Dec 2024 12:32		JC\MD	Ok,M
9	VN1220WBS01	VN1220WBS01	VN085279.D	20 Dec 2024 13:08		JC\MD	Ok,M
10	VN1220WBSD01	VN1220WBSD01	VN085280.D	20 Dec 2024 13:42		JC\MD	Ok,M
11	VN1220WBL01	VN1220WBL01	VN085281.D	20 Dec 2024 14:06		JC\MD	Ok
12	P5328-01	001-WILLETS-PT-BLVE	VN085282.D	20 Dec 2024 14:43	vial B pH<2	JC\MD	Ok
13	P5328-02	002-35TH-AVE(DEC)	VN085283.D	20 Dec 2024 15:07	vial B pH<2	JC\MD	Ok
14	VSTDCCC020	VSTDCCC020EC	VN085284.D	20 Dec 2024 16:13		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN010225

Review By	Mahesh Dadoda	Review On	1/3/2025 1:08:39 PM
Supervise By	Semsettin Yesilyurt	Supervise On	1/3/2025 1:09:16 PM
SubDirectory	VN010225	HP Acquire Method	HP Processing Method 624N122024W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP132412
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132413,VP132414

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085371.D	02 Jan 2025 10:02		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN085372.D	02 Jan 2025 10:36		JC\MD	Ok,M
3	VN0102WBS01	VN0102WBS01	VN085373.D	02 Jan 2025 11:11		JC\MD	Ok,M
4	VN0102WBSD01	VN0102WBSD01	VN085374.D	02 Jan 2025 11:46		JC\MD	Ok,M
5	VN0102WBL01	VN0102WBL01	VN085375.D	02 Jan 2025 12:10		JC\MD	Ok
6	P5399-03	001 WILLETS PT BLVD	VN085376.D	02 Jan 2025 12:44	vial A pH<2	JC\MD	Ok,M
7	P5399-04	002 35TH AVE (DEC)	VN085377.D	02 Jan 2025 13:08	vial A pH<2	JC\MD	Ok,M
8	VSTDCCC020	VSTDCCC020EC	VN085378.D	02 Jan 2025 15:33		JC\MD	Ok,M

M : Manual Integration



SHIPPING DOCUMENTS

CLIENT INFORMATION			CLIENT PROJECT INFORMATION			CLIENT BILLING INFORMATION												
REPORT TO BE SENT TO: COMPANY: Tully Environmental Inc			PROJECT NAME: Transfer Station SPDES			BILL TO: Same												
ADDRESS: 57 Seaview Blvd			PROJECT NO.: 242113			ADDRESS:												
CITY: Pt Washington STATE: NY ZIP: 11050			PROJECT MANAGER:			CITY:												
ATTENTION: D Deneve			e-mail:			STATE: ZIP:												
PHONE: 718 446 7000			PHONE:			ATTENTION:												
FAX: 718 458 5199			FAX:			PHONE:												
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			ANALYSIS												
FAX (RUSH) _____ DAYS*			☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)															
HARDCOPY (DATA PACKAGE): _____ DAYS*			☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP															
EDD: _____ DAYS*			☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B															
*TO BE APPROVED BY CHEMTECH			☐ + Raw Data ☐ Other _____															
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS			☐ EDD FORMAT															
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION	DATE	TIME	# OF BOTTLES	PRESERVATIVES										COMMENTS
1.	001 Willets Pt Blvd (Nov)	W	✓	✓	12/30	11:15	2	1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER	
2.	002 35th Ave (Nov)	W	✓	✓	12/30	11:15	2	1	2	3	4	5	6	7	8	9		
3.	001 Willets Pt Blvd (Dec)	W	✓	✓	12/30	11:15	2	1	2	3	4	5	6	7	8	9		
4.	002 35th Ave (Dec)	W	✓	✓	12/30	11:15	2	1	2	3	4	5	6	7	8	9		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																		
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:																
1. D Deneve	12/30/24	1.																
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:																
	12-31-24	2.																
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:																
		3.																
Comments: 2.3.1			2.3.1															
Comments: 4.6.1			4.6.1															
Page ____ of ____			Page ____ of ____															
CLIENT: ☐ Hand Delivered ☐ Other			CLIENT: ☐ Hand Delivered ☐ Other															
CHEMTECH: ☐ Picked Up ☐ Field Sampling			CHEMTECH: ☐ Picked Up ☐ Field Sampling															
SHIPMENT COMPLETE ☐ YES ☐ NO			SHIPMENT COMPLETE ☐ YES ☐ NO															



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