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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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LAB CHRONICLE

OrderID:	P4460	**OrderDate:**	10/18/2024 3:24:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4460-04	**WB-303-BOT**	**TCLP**			**10/18/24**			**10/18/24**
			TCLP VOA	8260D			10/22/24	

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Hit Summary Sheet
SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								
				0				

Total Voc :

Total Concentration:

QC SUMMARY

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Surrogate Summary

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4460-04	WB-303-BOT	1,2-Dichloroethane-d4	50	49.6	99	70 (74)	130 (125)
		Dibromofluoromethane	50	49.6	99	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.5	91	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VN1022WBL01	VN1022WBL01	1,2-Dichloroethane-d4	50	45.7	91	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	49.3	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.0	90	70 (77)	130 (121)
VN1022WBS01	VN1022WBS01	1,2-Dichloroethane-d4	50	46.2	92	70 (74)	130 (125)
		Dibromofluoromethane	50	49.5	99	70 (75)	130 (124)
		Toluene-d8	50	48.8	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.0	98	70 (77)	130 (121)
VN1022WBSD0	VN1022WBSD01	1,2-Dichloroethane-d4	50	49.1	98	70 (74)	130 (125)
		Dibromofluoromethane	50	49.5	99	70 (75)	130 (124)
		Toluene-d8	50	48.0	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.9	98	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084453.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1022WBS01	Vinyl chloride	20	16.5	ug/L	83			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.2	ug/L	91			70 (74)	130 (110)	
	2-Butanone	100	87.6	ug/L	88			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.8	ug/L	94			70 (77)	130 (113)	
	Chloroform	20	18.7	ug/L	94			70 (79)	130 (113)	
	Benzene	20	18.7	ug/L	94			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.3	ug/L	92			70 (80)	130 (115)	
	Trichloroethene	20	19.0	ug/L	95			70 (77)	130 (113)	
	Tetrachloroethene	20	18.4	ug/L	92			70 (67)	130 (123)	
	Chlorobenzene	20	18.7	ug/L	94			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084454.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1022WBSD01	Vinyl chloride	20	16.5	ug/L	83	0		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	17.9	ug/L	90	1		70 (74)	130 (110)	20 (20)
	2-Butanone	100	92.3	ug/L	92	4		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	18.6	ug/L	93	1		70 (77)	130 (113)	20 (20)
	Chloroform	20	19.4	ug/L	97	3		70 (79)	130 (113)	20 (20)
	Benzene	20	18.9	ug/L	95	1		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	19.6	ug/L	98	6		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	18.8	ug/L	94	1		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	19.2	ug/L	96	4		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.6	ug/L	98	4		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1022WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

Lab File ID: VN084452.D Lab Sample ID: VN1022WBL01

Date Analyzed: 10/22/2024 Time Analyzed: 13:38

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
VN1022WBS01	VN1022WBS01	VN084453.D	10/22/2024
VN1022WBSD01	VN1022WBSD01	VN084454.D	10/22/2024
WB-303-BOT	P4460-04	VN084463.D	10/22/2024

COMMENTS:

Raw Data: **VN084211.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

Lab File ID: VN084211.D BFB Injection Date: 09/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:24

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	19.9
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	71
175	5.0 - 9.0% of mass 174	5.5 (7.8) 1
176	95.0 - 101.0% of mass 174	69.7 (98.2) 1
177	5.0 - 9.0% of mass 176	4.9 (7) 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
VSTDICC100	VSTDICC100	VN084213.D	09/30/2024	12:25
VSTDICCC050	VSTDICCC050	VN084214.D	09/30/2024	12:49
VSTDICC020	VSTDICC020	VN084215.D	09/30/2024	13:13
VSTDICC010	VSTDICC010	VN084216.D	09/30/2024	13:37
VSTDICC005	VSTDICC005	VN084217.D	09/30/2024	14:00
VSTDICC001	VSTDICC001	VN084218.D	09/30/2024	14:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

Lab File ID: VN084449.D BFB Injection Date: 10/22/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:33

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	51.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	1.2 (1.7) 1
174	50.0 - 100.0% of mass 95	73.9
175	5.0 - 9.0% of mass 174	5.9 (7.9) 1
176	95.0 - 101.0% of mass 174	70.5 (95.4) 1
177	5.0 - 9.0% of mass 176	4.7 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN084450.D	10/22/2024	12:50
VN1022WBL01	VN1022WBL01	VN084452.D	10/22/2024	13:38
VN1022WBS01	VN1022WBS01	VN084453.D	10/22/2024	14:01
VN1022WBSD01	VN1022WBSD01	VN084454.D	10/22/2024	14:45
WB-303-BOT	P4460-04	VN084463.D	10/22/2024	18:46

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

Lab File ID: VN084450.D Date Analyzed: 10/22/2024

Instrument ID: MSVOA_N Time Analyzed: 12:50

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	171974	8.22	293014	9.10	264421	11.87
UPPER LIMIT	343948	8.724	586028	9.6	528842	12.365
LOWER LIMIT	85987	7.724	146507	8.6	132211	11.365
EPA SAMPLE NO.						
WB-303-BOT	163501	8.22	298176	9.10	267301	11.87
VN1022WBL01	195991	8.22	325943	9.10	276681	11.87
VN1022WBS01	177710	8.22	304170	9.10	270028	11.87
VN1022WBSD01	162648	8.22	284290	9.10	251894	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

Lab File ID: VN084450.D Date Analyzed: 10/22/2024

Instrument ID: MSVOA_N Time Analyzed: 12:50

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

	IS4 AREA #	RT #				
12 HOUR STD	131065	13.788				
UPPER LIMIT	262130	14.288				
LOWER LIMIT	65532.5	13.288				
EPA SAMPLE NO.						
WB-303-BOT	97626	13.79				
VN1022WBL01	106919	13.79				
VN1022WBS01	132421	13.79				
VN1022WBSD01	120786	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VN084463.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOT	SDG No.:	P4460
Lab Sample ID:	P4460-04	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084463.D	1		10/22/24 18:46	VN102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		70 (77) - 130 (121)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	8.224			
540-36-3	1,4-Difluorobenzene	298000	9.1			
3114-55-4	Chlorobenzene-d5	267000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	97600	13.794			

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\VN102224\
Data File : VN084463.D
Acq On : 22 Oct 2024 18:46
Operator : JC\MD
Sample : P4460-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

Quant Time: Oct 23 01:32:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

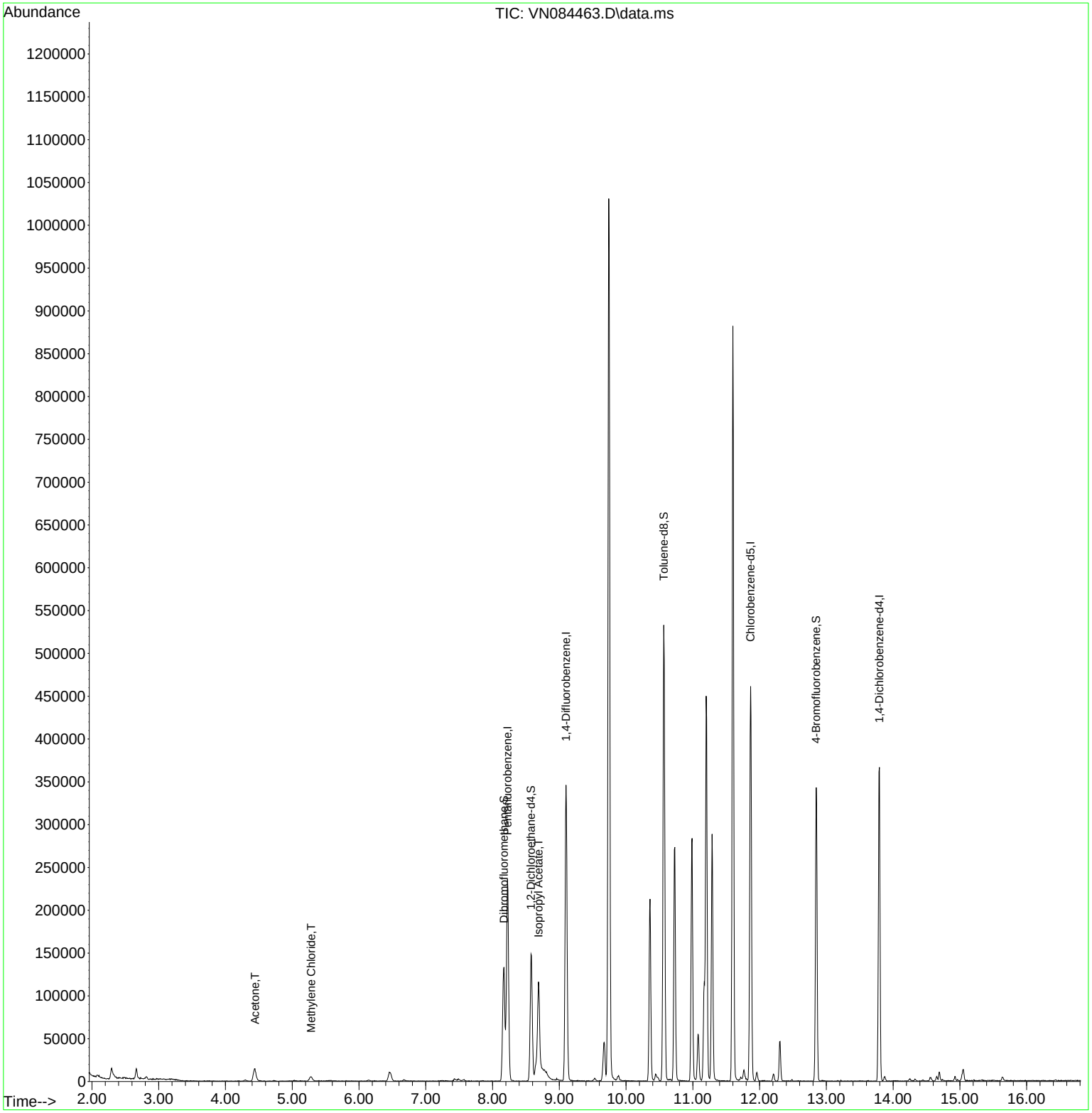
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	163501	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	298176	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	267301	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	97626	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120367	49.652	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.300%			
35) Dibromofluoromethane	8.171	113	97567	49.633	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.260%			
50) Toluene-d8	10.565	98	365187	50.494	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.980%			
62) 4-Bromofluorobenzene	12.847	95	119941	45.522	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.040%			
Target Compounds						Qvalue
16) Acetone	4.442	43	27887	26.779	ug/l	94
20) Methylene Chloride	5.283	84	4490	2.121	ug/l #	66
43) Isopropyl Acetate	8.688	43	154605	26.945	ug/l #	83

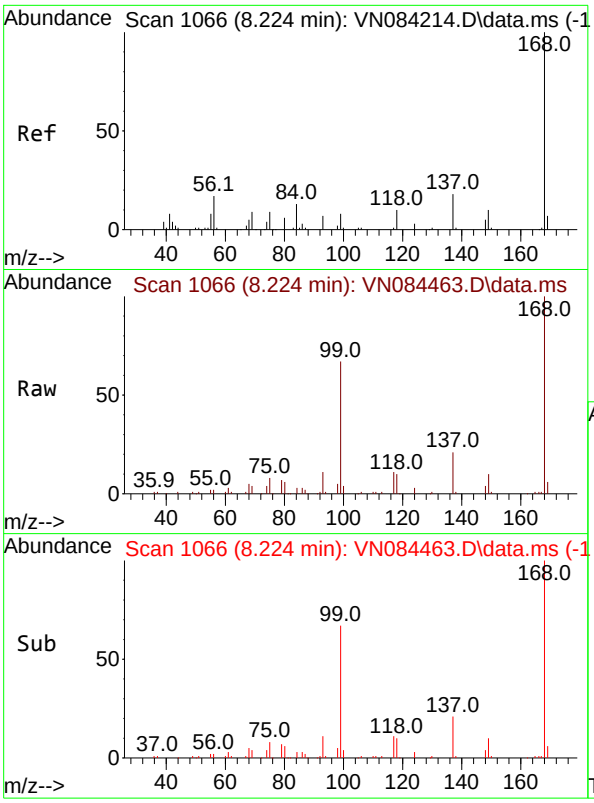
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084463.D
Acq On : 22 Oct 2024 18:46
Operator : JC\MD
Sample : P4460-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

Quant Time: Oct 23 01:32:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



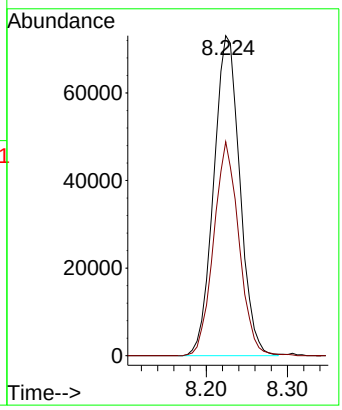


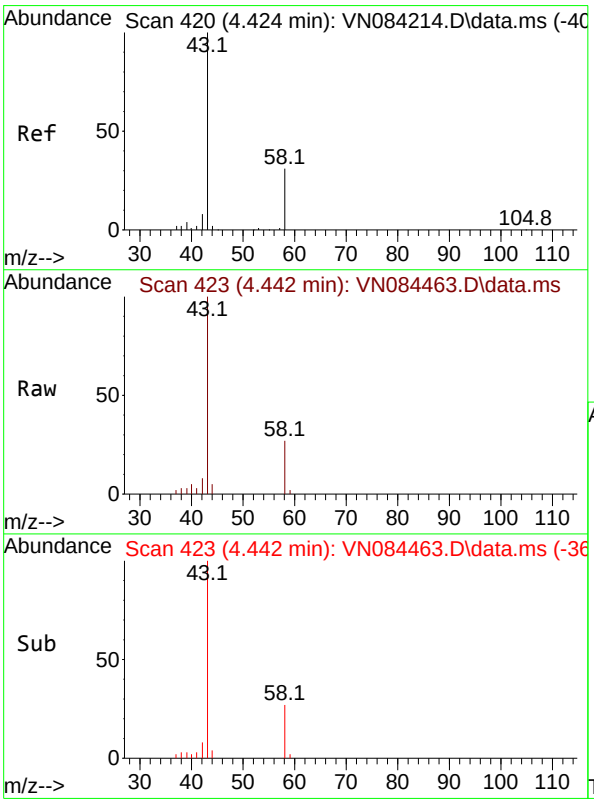
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

Tgt Ion:168 Resp: 163501

Ion	Ratio	Lower	Upper
168	100		
99	66.9	54.2	81.2

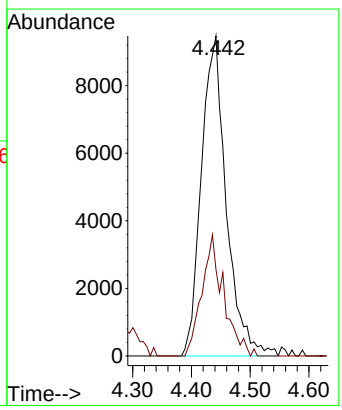


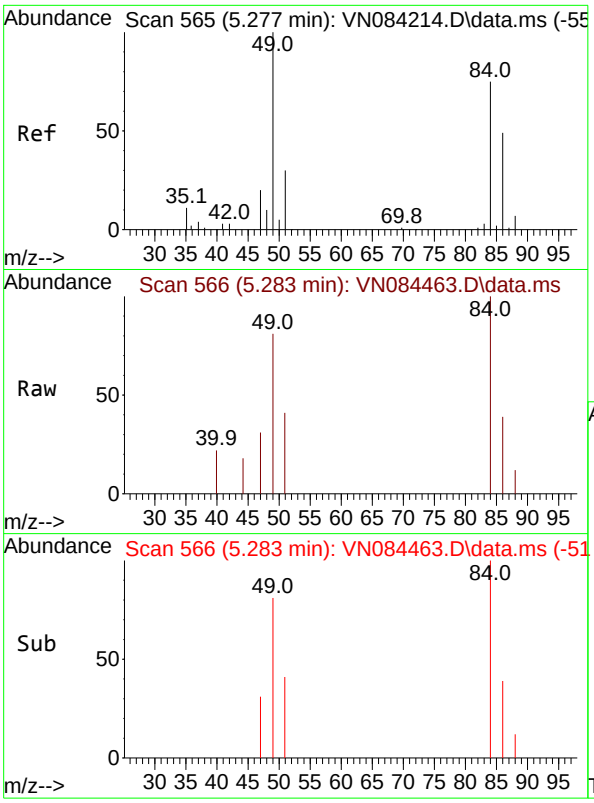


#16
Acetone
Concen: 26.779 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.018 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 43 Resp: 27887

Ion	Ratio	Lower	Upper
43	100		
58	27.0	24.4	36.6



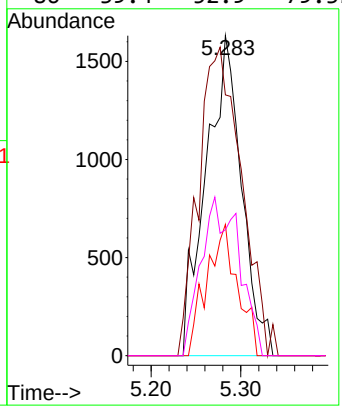


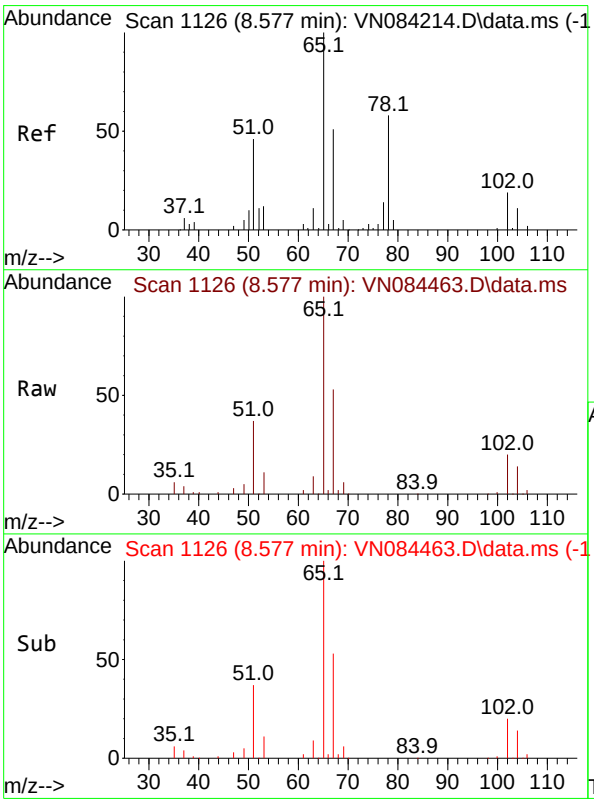
#20
Methylene Chloride
Concen: 2.121 ug/l
RT: 5.283 min Scan# 5
Delta R.T. 0.006 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

Tgt Ion: 84 Resp: 4490

Ion	Ratio	Lower	Upper
84	100		
49	81.5	107.2	160.8#
51	41.0	31.8	47.8
86	39.4	52.9	79.3#

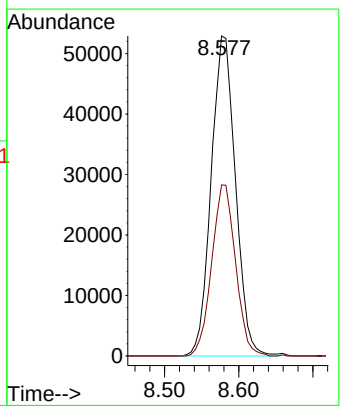


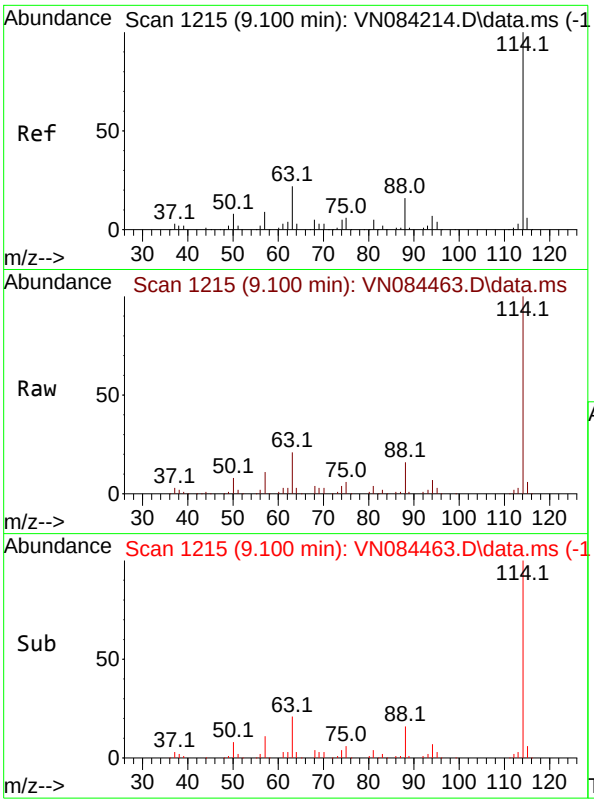


#33
1,2-Dichloroethane-d4
Concen: 49.652 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 65 Resp: 120367

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	102.0



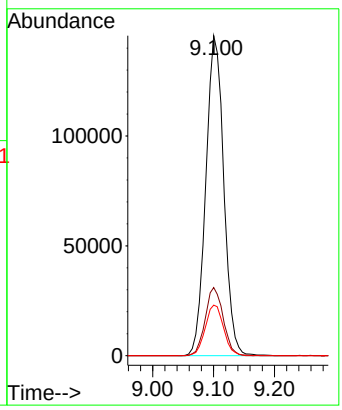


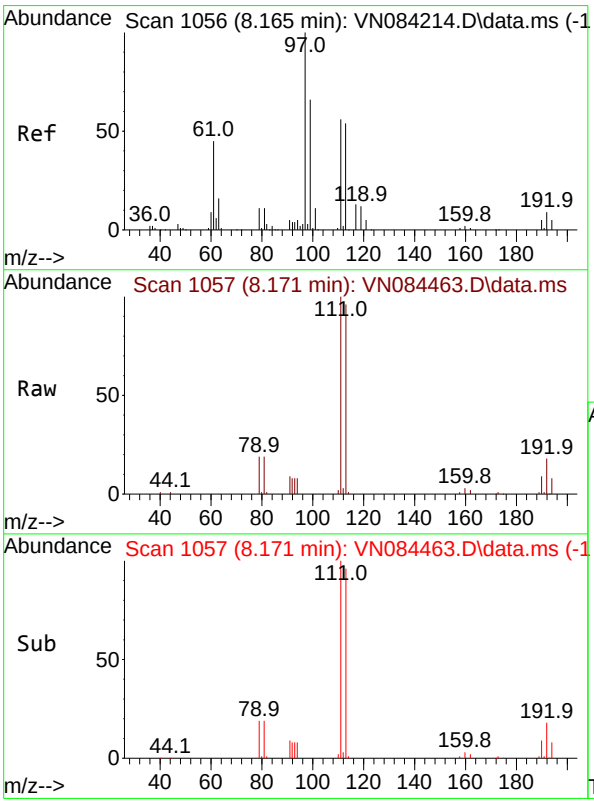
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

Tgt Ion:114 Resp: 298176

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.8
88	15.8	0.0	31.6

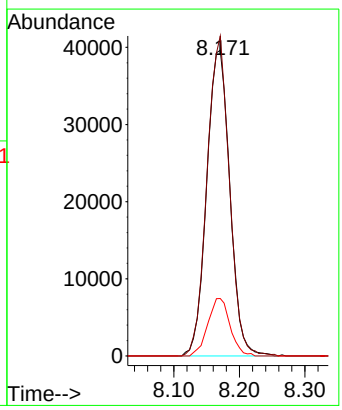


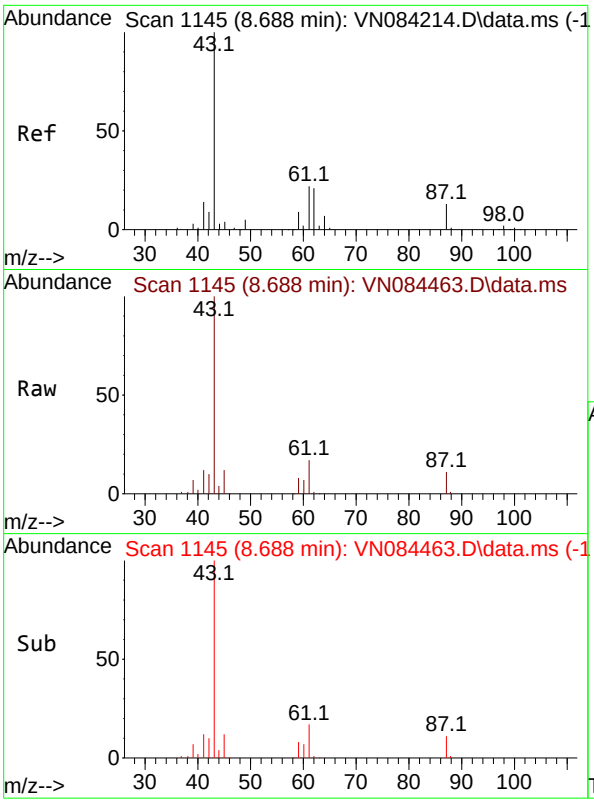


#35
Dibromofluoromethane
Concen: 49.633 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion:113 Resp: 97567

Ion	Ratio	Lower	Upper
113	100		
111	100.9	83.3	124.9
192	18.0	13.5	20.3



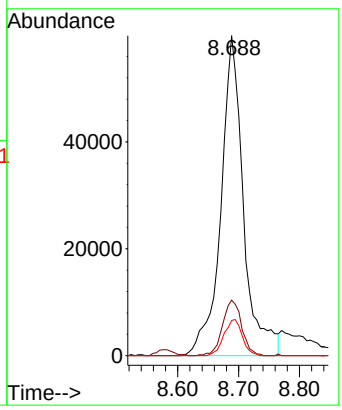


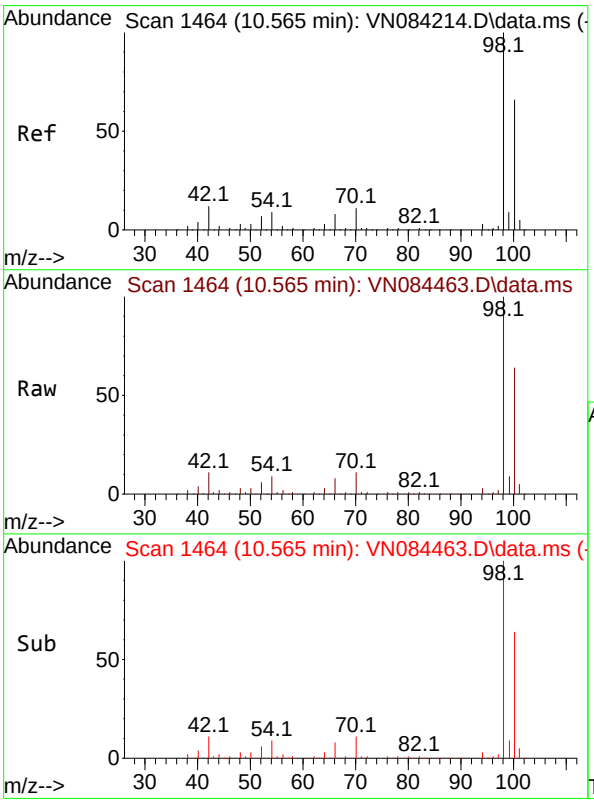
#43
Isopropyl Acetate
Concen: 26.945 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

Tgt Ion: 43 Resp: 154605

Ion	Ratio	Lower	Upper
43	100		
61	14.7	20.4	30.6#
87	9.1	10.3	15.5#

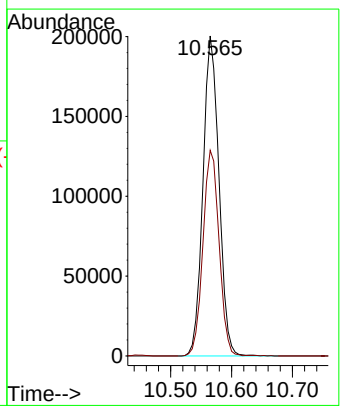


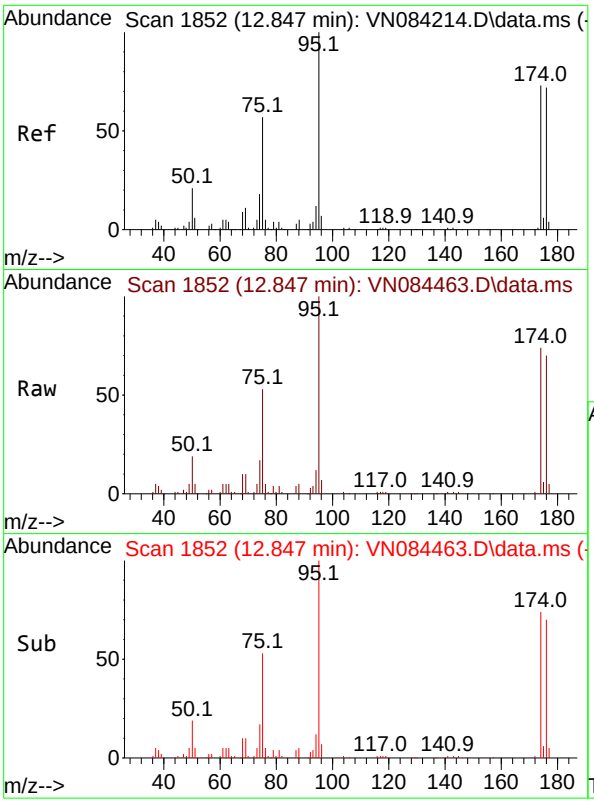


#50
Toluene-d8
Concen: 50.494 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 98 Resp: 365187

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.7	79.1



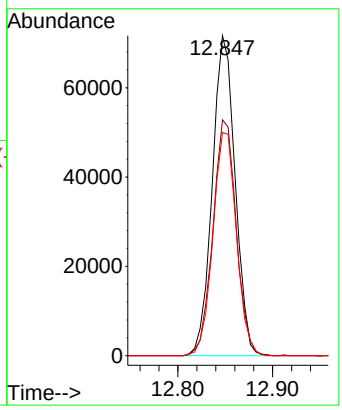


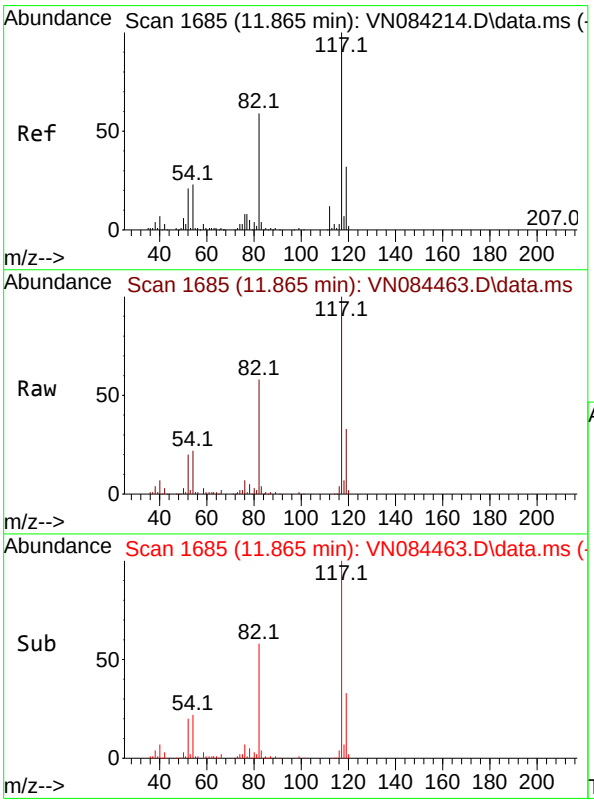
#62
4-Bromofluorobenzene
Concen: 45.522 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

Tgt Ion: 95 Resp: 119941

Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	145.2
176	71.7	0.0	140.0

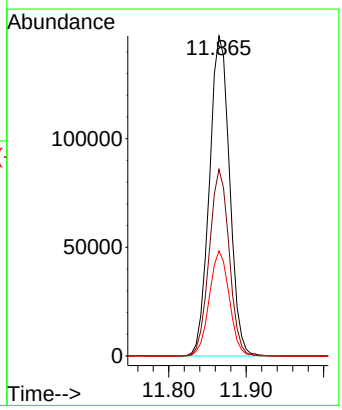


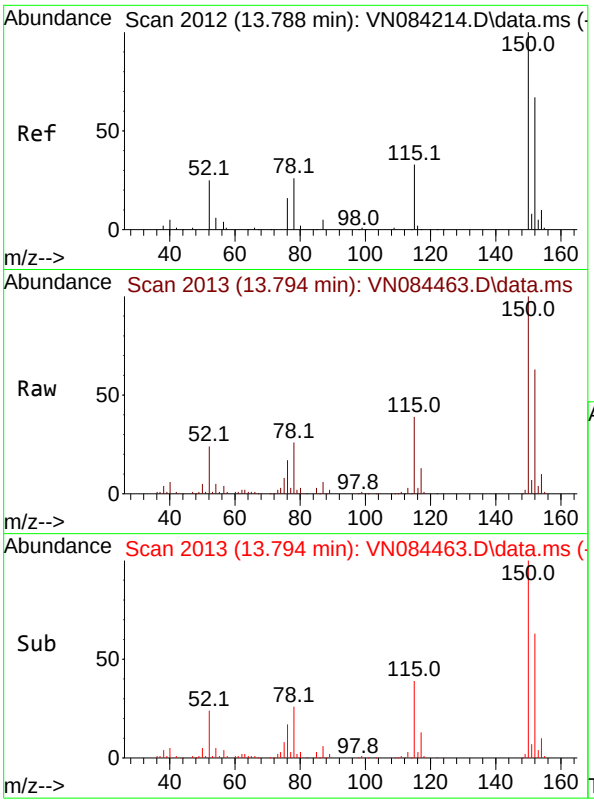


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion:117 Resp: 267301

Ion	Ratio	Lower	Upper
117	100		
82	58.3	47.2	70.8
119	32.8	25.4	38.0



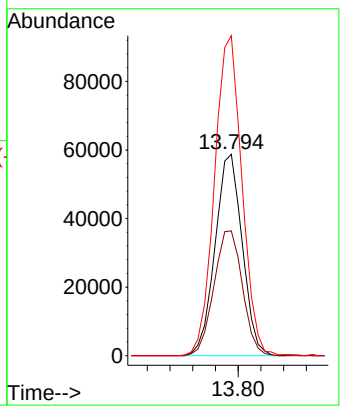


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

Tgt Ion:152 Resp: 97626

Ion	Ratio	Lower	Upper
152	100		
115	65.0	31.3	93.9
150	160.3	0.0	349.8



CALIBRATION SUMMARY

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: MSVOA_N Calibration Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 12:25 14:48

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

LAB FILE ID: RRF100 = VN084213.D RRF050 = VN084214.D RRF020 = VN084215.D
RRF010 = VN084216.D RRF005 = VN084217.D RRF001 = VN084218.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Vinyl Chloride	0.611	0.667	0.665	0.641	0.724	0.617	0.654	6.4
1,1-Dichloroethene	0.538	0.587	0.596	0.533	0.631	0.493	0.563	8.9
2-Butanone	0.395	0.452	0.465	0.419	0.467	0.404	0.434	7.3
Carbon Tetrachloride	0.515	0.549	0.553	0.508	0.545	0.482	0.525	5.4
Chloroform	1.083	1.204	1.205	1.117	1.259	1.181	1.175	5.5
Benzene	1.434	1.553	1.559	1.410	1.574	1.421	1.492	5.2
1,2-Dichloroethane	0.480	0.528	0.524	0.498	0.544	0.460	0.506	6.3
Trichloroethene	0.334	0.362	0.361	0.329	0.379	0.325	0.348	6.3
Tetrachloroethene	0.323	0.359	0.351	0.338	0.373	0.346	0.348	5
Chlorobenzene	1.068	1.170	1.143	1.069	1.173	1.028	1.109	5.5
1,2-Dichloroethane-d4	0.673	0.737	0.764	0.712	0.821		0.741	7.5
Dibromofluoromethane	0.308	0.324	0.341	0.316	0.359		0.330	6.1
Toluene-d8	1.189	1.243	1.242	1.148	1.242		1.213	3.5
4-Bromofluorobenzene	0.447	0.452	0.449	0.406	0.456		0.442	4.6

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

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N093024W.M
Title : SW846 8260
Last Update : Tue Oct 01 07:11:01 2024
Response Via : Initial Calibration

Calibration Files
1 =VN084218.D 5 =VN084217.D 10 =VN084216.D 20 =VN084215.D 50 =VN084214.D 100 =VN084213.
D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.600	0.607	0.562	0.600	0.613	0.567	0.591	3.67
3)	P	Chloromethane	0.690	0.747	0.648	0.677	0.671	0.619	0.675	6.39
4)	C	Vinyl Chloride	0.617	0.724	0.641	0.665	0.667	0.611	0.654	6.37#
5)	T	Bromomethane		0.501	0.424	0.432	0.432	0.368	0.431	10.93
6)	T	Chloroethane	0.632	0.522	0.433	0.430	0.419	0.375	0.468	19.90
7)	T	Trichlorofluor...	0.978	1.113	0.959	1.047	1.060	0.953	1.019	6.36
8)	T	Diethyl Ether	0.363	0.398	0.352	0.408	0.390	0.355	0.378	6.36
9)	T	1,1,2-Trichlor...	0.602	0.633	0.532	0.603	0.590	0.542	0.584	6.68
10)	T	Methyl Iodide		0.764	0.688	0.769	0.806	0.731	0.752	5.87
11)	T	Tert butyl alc...		0.143	0.116	0.128	0.123	0.101	0.122	12.49
12)	CM	1,1-Dichloroet...	0.493	0.631	0.533	0.596	0.587	0.538	0.563	8.94#
13)	T	Acrolein		0.162	0.130	0.135	0.142	0.131	0.140	9.47
14)	T	Allyl chloride	0.888	1.097	0.896	1.086	0.995	0.905	0.978	9.85
15)	T	Acrylonitrile	0.306	0.329	0.300	0.324	0.316	0.277	0.309	6.10
16)	T	Acetone	0.299	0.336	0.298	0.337	0.342	0.299	0.318	6.80
17)	T	Carbon Disulfide	2.080	1.908	1.650	1.746	1.723	1.588	1.782	10.18
18)	T	Methyl Acetate	0.700	0.765	0.691	0.694	0.707	0.607	0.694	7.27
19)	T	Methyl tert-bu...	1.656	2.049	1.802	2.035	2.033	1.825	1.900	8.57
20)	T	Methylene Chlo...	0.686	0.669	0.618	0.661	0.655	0.594	0.647	5.29
21)	T	trans-1,2-Dich...	0.546	0.627	0.570	0.619	0.622	0.555	0.590	6.21
22)	T	Diisopropyl ether	1.756	2.207	1.900	2.170	2.164	1.938	2.022	9.10
23)	T	Vinyl Acetate	1.196	1.585	1.411	1.655	1.648	1.505	1.500	11.67
24)	P	1,1-Dichloroet...	1.046	1.226	1.084	1.163	1.193	1.075	1.131	6.43
25)	T	2-Butanone	0.404	0.467	0.419	0.465	0.452	0.395	0.434	7.35
26)	T	2,2-Dichloropr...	0.904	1.086	0.983	1.078	1.082	0.985	1.020	7.31
27)	T	cis-1,2-Dichlo...	0.703	0.767	0.655	0.741	0.741	0.670	0.713	6.19
28)	T	Bromochloromet...	0.535	0.619	0.423	0.486	0.494	0.472	0.505	13.20
29)	T	Tetrahydrofuran	0.249	0.290	0.266	0.281	0.283	0.236	0.268	8.01
30)	C	Chloroform	1.181	1.259	1.116	1.205	1.204	1.083	1.175	5.49#
31)	T	Cyclohexane		1.321	1.047	1.084	1.068	0.970	1.098	12.01
32)	T	1,1,1-Trichlor...	0.972	1.154	1.018	1.089	1.102	0.997	1.055	6.68
33)	S	1,2-Dichloroet...		0.821	0.712	0.764	0.737	0.673	0.741	7.51
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.359	0.316	0.341	0.324	0.308	0.330	6.14
36)	T	1,1-Dichloropr...	0.417	0.504	0.468	0.501	0.509	0.474	0.479	7.25
37)	T	Ethyl Acetate	0.447	0.560	0.488	0.496	0.503	0.452	0.491	8.34
38)	T	Carbon Tetrach...	0.482	0.545	0.508	0.553	0.549	0.515	0.525	5.41
39)	T	Methylcyclohexane	0.428	0.534	0.507	0.577	0.583	0.567	0.533	11.04
40)	TM	Benzene	1.421	1.574	1.410	1.559	1.553	1.434	1.492	5.18
41)	T	Methacrylonitrile	0.257	0.273	0.251	0.284	0.287	0.247	0.267	6.50
42)	TM	1,2-Dichloroet...	0.460	0.544	0.498	0.524	0.528	0.480	0.506	6.32
43)	T	Isopropyl Acetate	1.312	0.973	0.857	0.930	0.898	0.804	0.962	18.82
44)	TM	Trichloroethene	0.325	0.379	0.329	0.361	0.362	0.334	0.348	6.32
45)	C	1,2-Dichloropr...	0.289	0.388	0.339	0.380	0.375	0.346	0.353	10.44#
46)	T	Dibromomethane	0.197	0.250	0.226	0.258	0.260	0.238	0.238	9.99
47)	T	Bromodichlorom...	0.475	0.570	0.497	0.556	0.557	0.521	0.529	7.17
48)	T	Methyl methacr...	0.314	0.408	0.371	0.411	0.418	0.376	0.383	10.14
49)	T	1,4-Dioxane	0.007	0.007	0.007	0.007	0.007	0.006	0.007	5.48
50)	S	Toluene-d8		1.242	1.148	1.242	1.243	1.189	1.213	3.54
51)	T	4-Methyl-2-Pen...	0.387	0.484	0.468	0.510	0.508	0.449	0.468	9.88
52)	CM	Toluene	0.840	0.920	0.861	0.963	0.970	0.904	0.910	5.79#
53)	T	t-1,3-Dichloro...	0.430	0.564	0.517	0.573	0.590	0.562	0.539	10.92
54)	T	cis-1,3-Dichlo...	0.469	0.606	0.569	0.608	0.638	0.592	0.580	10.18
55)	T	1,1,2-Trichlor...	0.288	0.340	0.316	0.347	0.349	0.317	0.326	7.33

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N093024W.M

56)	T	Ethyl methacry...	0.414	0.548	0.513	0.587	0.602	0.556	0.537	12.63
57)	T	1,3-Dichloropr...	0.533	0.623	0.551	0.618	0.616	0.555	0.583	6.95
58)	T	2-Chloroethyl ...	0.213	0.267	0.233	0.232	0.280	0.268	0.249	10.63
59)	T	2-Hexanone	0.285	0.357	0.340	0.387	0.387	0.341	0.349	10.80
60)	T	Dibromochlorom...	0.330	0.396	0.374	0.409	0.418	0.384	0.385	8.12
61)	T	1,2-Dibromoethane	0.309	0.361	0.315	0.362	0.358	0.328	0.339	7.18
62)	S	4-Bromofluorob...		0.456	0.406	0.449	0.452	0.447	0.442	4.62
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.346	0.373	0.338	0.351	0.359	0.323	0.348	4.98
65)	PM	Chlorobenzene	1.028	1.173	1.069	1.143	1.170	1.068	1.109	5.52
66)	T	1,1,1,2-Tetrac...	0.334	0.409	0.366	0.409	0.404	0.369	0.382	8.01
67)	C	Ethyl Benzene	1.756	2.030	1.840	2.028	2.121	1.988	1.961	6.94#
68)	T	m/p-Xylenes	0.600	0.729	0.695	0.779	0.806	0.741	0.725	10.00
69)	T	o-Xylene	0.491	0.734	0.666	0.738	0.774	0.714	0.686	14.87
70)	T	Styrene	0.918	1.159	1.112	1.238	1.312	1.234	1.162	11.87
71)	P	Bromoform	0.239	0.288	0.260	0.303	0.315	0.282	0.281	9.98
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.428	3.864	3.677	4.055	4.132	3.737	3.815	6.78
74)	T	N-amyl acetate	1.583	1.758	1.705	1.827	1.857	1.636	1.728	6.20
75)	P	1,1,2,2-Tetrac...	1.095	1.291	1.127	1.187	1.183	1.001	1.147	8.52
76)	T	1,2,3-Trichlor...	0.895	1.251	0.999	1.003	1.125	0.851	1.021	14.47
77)	T	Bromobenzene	0.891	0.982	0.896	0.955	0.947	0.851	0.920	5.33
78)	T	n-propylbenzene	3.455	4.544	4.401	4.719	4.906	4.498	4.421	11.44
79)	T	2-Chlorotoluene	2.640	2.948	2.737	2.891	3.013	2.696	2.821	5.34
80)	T	1,3,5-Trimethy...	2.369	3.209	3.077	3.358	3.491	3.170	3.112	12.62
81)	T	trans-1,4-Dich...		0.408	0.428	0.435	0.451	0.407	0.426	4.34
82)	T	4-Chlorotoluene	2.537	2.968	2.777	2.962	3.029	2.765	2.840	6.46
83)	T	tert-Butylbenzene	2.407	2.844	2.681	2.891	3.027	2.748	2.766	7.68
84)	T	1,2,4-Trimethy...	2.334	3.209	3.102	3.449	3.522	3.195	3.135	13.53
85)	T	sec-Butylbenzene	2.842	3.641	3.715	4.021	4.143	3.787	3.691	12.39
86)	T	p-Isopropyltol...	2.204	3.030	2.995	3.361	3.509	3.215	3.052	15.04
87)	T	1,3-Dichlorobe...	1.679	1.843	1.646	1.780	1.787	1.624	1.727	5.13
88)	T	1,4-Dichlorobe...	1.789	1.889	1.638	1.734	1.784	1.628	1.744	5.71
89)	T	n-Butylbenzene	2.386	2.689	2.567	2.961	3.092	2.912	2.768	9.63
90)	T	Hexachloroethane	0.564	0.678	0.608	0.637	0.639	0.590	0.620	6.51
91)	T	1,2-Dichlorobe...	1.770	1.769	1.613	1.740	1.710	1.555	1.693	5.28
92)	T	1,2-Dibromo-3-...	0.207	0.271	0.242	0.253	0.238	0.209	0.237	10.44
93)	T	1,2,4-Trichlor...	0.657	0.839	0.792	0.923	0.933	0.859	0.834	12.15
94)	T	Hexachlorobuta...	0.422	0.460	0.401	0.445	0.397	0.370	0.416	7.98
95)	T	Naphthalene	2.467	2.702	2.657	2.935	3.079	2.747	2.764	7.79
96)	T	1,2,3-Trichlor...	0.751	0.822	0.820	0.903	0.896	0.816	0.835	6.83

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084213.D
Acq On : 30 Sep 2024 12:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	192402	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324582	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	288467	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142880	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.577	65	259018	90.797 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 181.600%#		
35) Dibromofluoromethane	8.165	113	200166	93.542 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 187.080%#		
50) Toluene-d8	10.565	98	772146	98.079 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 196.160%#		
62) 4-Bromofluorobenzene	12.847	95	289867	101.065 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 202.140%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	218015	95.796 ug/l	94
3) Chloromethane	2.359	50	238104	91.628 ug/l	98
4) Vinyl Chloride	2.512	62	234942	93.338 ug/l	99
5) Bromomethane	2.936	94	141604	85.288 ug/l	94
6) Chloroethane	3.112	64	144394	80.099 ug/l	92
7) Trichlorofluoromethane	3.495	101	366907	93.608 ug/l	98
8) Diethyl Ether	3.953	74	136436	93.854 ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	208443	92.811 ug/l	99
10) Methyl Iodide	4.589	142	281269	97.248 ug/l	97
11) Tert butyl alcohol	5.518	59	194750	414.018 ug/l	99
12) 1,1-Dichloroethene	4.336	96	206863	95.491 ug/l	95
13) Acrolein	4.177	56	251811	466.304 ug/l	99
14) Allyl chloride	5.018	41	348108	92.526 ug/l	99
15) Acrylonitrile	5.712	53	533270	448.931 ug/l	99
16) Acetone	4.424	43	576139	470.138 ug/l	99
17) Carbon Disulfide	4.712	76	611042	89.090 ug/l	100
18) Methyl Acetate	5.018	43	233708	87.499 ug/l	99
19) Methyl tert-butyl Ether	5.794	73	702366	96.061 ug/l	99
20) Methylene Chloride	5.277	84	228706	91.809 ug/l	91
21) trans-1,2-Dichloroethene	5.783	96	213704	94.160 ug/l	94
22) Diisopropyl ether	6.671	45	745614	95.811 ug/l	98
23) Vinyl Acetate	6.600	43	2895429	498.979 ug/l	99
24) 1,1-Dichloroethane	6.565	63	413523	95.021 ug/l	99
25) 2-Butanone	7.483	43	759354	454.946 ug/l	100
26) 2,2-Dichloropropane	7.488	77	378893	96.560 ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	257696	93.962 ug/l	99
28) Bromochloromethane	7.812	49	181546	93.497 ug/l	100
29) Tetrahydrofuran	7.836	42	453342	440.124 ug/l	99
30) Chloroform	7.965	83	416595	92.156 ug/l	100
31) Cyclohexane	8.253	56	373445	88.380 ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	383566	94.476 ug/l	98
36) 1,1-Dichloropropene	8.371	75	307616	98.969 ug/l	99
37) Ethyl Acetate	7.559	43	293597	92.073 ug/l	100
38) Carbon Tetrachloride	8.359	117	334398	98.077 ug/l	98
39) Methylcyclohexane	9.600	83	368299	106.466 ug/l	99
40) Benzene	8.606	78	931076	96.145 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084213.D
Acq On : 30 Sep 2024 12:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 06:48:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	160270	92.581 ug/l		97
42) 1,2-Dichloroethane	8.671	62	311563	94.900 ug/l		100
43) Isopropyl Acetate	8.688	43	521814	83.581 ug/l		100
44) Trichloroethene	9.347	130	216678	95.798 ug/l		97
45) 1,2-Dichloropropane	9.618	63	224724	98.095 ug/l		97
46) Dibromomethane	9.706	93	154739	100.091 ug/l		99
47) Bromodichloromethane	9.888	83	338406	98.526 ug/l		99
48) Methyl methacrylate	9.677	41	244061	98.163 ug/l		99
49) 1,4-Dioxane	9.694	88	82854	1810.110 ug/l		99
51) 4-Methyl-2-Pentanone	10.441	43	1456154	479.699 ug/l		100
52) Toluene	10.629	92	586544	99.324 ug/l		100
53) t-1,3-Dichloropropene	10.835	75	365099	104.280 ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	384030	101.975 ug/l		98
55) 1,1,2-Trichloroethane	11.018	97	205711	97.170 ug/l		97
56) Ethyl methacrylate	10.871	69	360916	103.608 ug/l		99
57) 1,3-Dichloropropane	11.165	76	360601	95.326 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	870416	538.640 ug/l		99
59) 2-Hexanone	11.194	43	1105736	487.363 ug/l		99
60) Dibromochloromethane	11.359	129	249435	99.721 ug/l		98
61) 1,2-Dibromoethane	11.465	107	212705	96.694 ug/l		100
64) Tetrachloroethene	11.100	164	186069	92.608 ug/l		99
65) Chlorobenzene	11.888	112	616423	96.376 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	212695	96.546 ug/l		99
67) Ethyl Benzene	11.959	91	1146786	101.385 ug/l		98
68) m/p-Xylenes	12.071	106	855381	204.437 ug/l		100
69) o-Xylene	12.394	106	412098	104.101 ug/l		99
70) Styrene	12.412	104	711855	106.165 ug/l		99
71) Bromoform	12.576	173	162862	100.412 ug/l	#	97
73) Isopropylbenzene	12.694	105	1067798	97.936 ug/l		100
74) N-amyl acetate	12.494	43	467641	94.716 ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.935	83	286161	87.285 ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	243293m	85.433 ug/l		
77) Bromobenzene	12.982	156	243075	92.425 ug/l		100
78) n-propylbenzene	13.035	91	1285399	101.754 ug/l		99
79) 2-Chlorotoluene	13.123	91	770341	95.567 ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	905999	101.869 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	116289	95.579 ug/l		98
82) 4-Chlorotoluene	13.218	91	790045	97.362 ug/l		100
83) tert-Butylbenzene	13.435	119	785331	99.349 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	913037	101.908 ug/l		99
85) sec-Butylbenzene	13.612	105	1082055	102.580 ug/l		100
86) p-Isopropyltoluene	13.729	119	918730	105.328 ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	463998	94.046 ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	465087	93.346 ug/l		99
89) n-Butylbenzene	14.053	91	832034	105.197 ug/l		99
90) Hexachloroethane	14.329	117	168712	95.289 ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	444319	91.843 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	59837	88.446 ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	245477	103.017 ug/l		99
94) Hexachlorobutadiene	15.500	225	105801	89.034 ug/l		98
95) Naphthalene	15.635	128	784876	99.356 ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	233126	97.736 ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084213.D
Acq On : 30 Sep 2024 12:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

ICAL Form

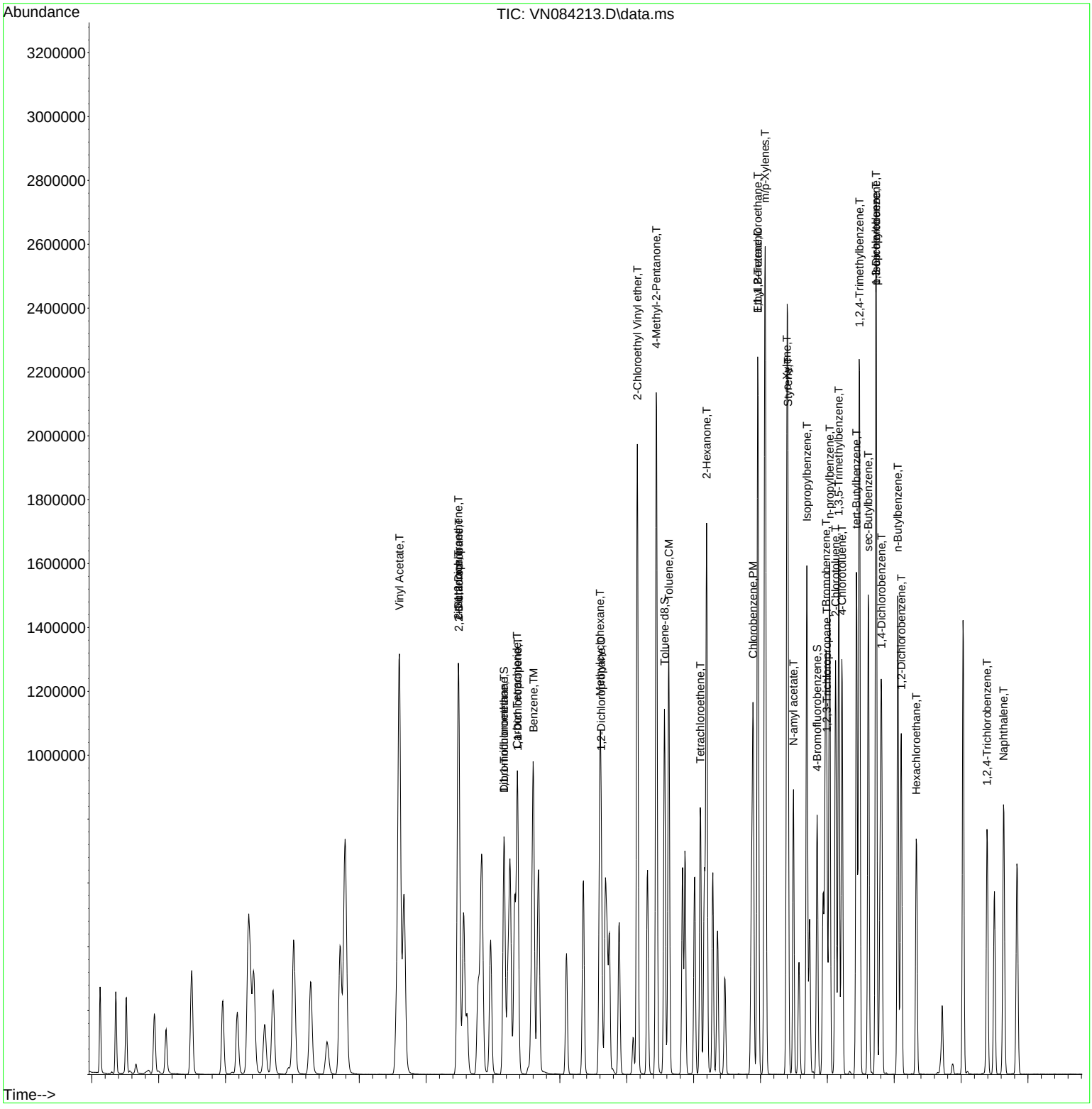
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084213.D
Acq On : 30 Sep 2024 12:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 06:48:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084214.D
Acq On : 30 Sep 2024 12:49
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 01 06:48:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	175379	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304127	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	264820	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127701	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129300	49.725	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.440%			
35) Dibromofluoromethane	8.165	113	98531	49.143	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.280%			
50) Toluene-d8	10.565	98	377886	51.228	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.460%			
62) 4-Bromofluorobenzene	12.847	95	137388	51.124	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	107530	51.835	ug/l	100
3) Chloromethane	2.359	50	117689	49.686	ug/l	100
4) Vinyl Chloride	2.518	62	117031	51.007	ug/l	100
5) Bromomethane	2.953	94	75848	50.118	ug/l	100
6) Chloroethane	3.118	64	73440	44.693	ug/l	100
7) Trichlorofluoromethane	3.495	101	185982	52.055	ug/l	100
8) Diethyl Ether	3.959	74	68385	51.608	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	103552	50.583	ug/l	100
10) Methyl Iodide	4.595	142	141310	53.600	ug/l	100
11) Tert butyl alcohol	5.524	59	107986	251.850	ug/l	100
12) 1,1-Dichloroethene	4.342	96	102934	52.128	ug/l	100
13) Acrolein	4.177	56	124940	253.821	ug/l	100
14) Allyl chloride	5.024	41	174518	50.889	ug/l	100
15) Acrylonitrile	5.718	53	277346	256.145	ug/l	100
16) Acetone	4.424	43	299515	268.132	ug/l	100
17) Carbon Disulfide	4.712	76	302183	48.335	ug/l	100
18) Methyl Acetate	5.018	43	124007	50.934	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	356478	53.487	ug/l	100
20) Methylene Chloride	5.277	84	114918	50.609	ug/l	100
21) trans-1,2-Dichloroethene	5.789	96	109048	52.711	ug/l	100
22) Diisopropyl ether	6.671	45	379516	53.501	ug/l	100
23) Vinyl Acetate	6.600	43	1444909	273.176	ug/l	100
24) 1,1-Dichloroethane	6.571	63	209222	52.742	ug/l	100
25) 2-Butanone	7.483	43	396369	260.524	ug/l	100
26) 2,2-Dichloropropane	7.488	77	189745	53.050	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	129873	51.951	ug/l	100
28) Bromochloromethane	7.812	49	86584	48.919	ug/l	100
29) Tetrahydrofuran	7.835	42	248328	264.488	ug/l	100
30) Chloroform	7.965	83	211178	51.249	ug/l	100
31) Cyclohexane	8.253	56	187282	48.624	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	193315	52.237	ug/l	100
36) 1,1-Dichloropropene	8.371	75	154855	53.172	ug/l	100
37) Ethyl Acetate	7.559	43	153024	51.216	ug/l	100
38) Carbon Tetrachloride	8.359	117	167086	52.301	ug/l	100
39) Methylcyclohexane	9.600	83	177433	54.741	ug/l	100
40) Benzene	8.606	78	472170	52.037	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084214.D
Acq On : 30 Sep 2024 12:49
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	87365	53.861 ug/l	100
42) 1,2-Dichloroethane	8.671	62	160606	52.210 ug/l	100
43) Isopropyl Acetate	8.688	43	272992	46.667 ug/l	100
44) Trichloroethene	9.347	130	110119	51.961 ug/l	100
45) 1,2-Dichloropropane	9.618	63	114143	53.176 ug/l	100
46) Dibromomethane	9.706	93	79007	54.542 ug/l	100
47) Bromodichloromethane	9.888	83	169263	52.595 ug/l	100
48) Methyl methacrylate	9.677	41	127042	54.534 ug/l	100
49) 1,4-Dioxane	9.694	88	44512	1037.858 ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	772927	271.750 ug/l	100
52) Toluene	10.629	92	295099	53.332 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	179453	54.703 ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	193952	54.966 ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	106288	53.583 ug/l	100
56) Ethyl methacrylate	10.871	69	183059	56.085 ug/l	100
57) 1,3-Dichloropropane	11.159	76	187372	52.864 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	426364	281.593 ug/l	100
59) 2-Hexanone	11.194	43	588361	276.767 ug/l	100
60) Dibromochloromethane	11.359	129	126992	54.184 ug/l	100
61) 1,2-Dibromoethane	11.465	107	108817	52.794 ug/l	100
64) Tetrachloroethene	11.100	164	94966	51.486 ug/l	100
65) Chlorobenzene	11.888	112	309849	52.770 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	106981	52.897 ug/l	100
67) Ethyl Benzene	11.959	91	561770	54.100 ug/l	100
68) m/p-Xylenes	12.071	106	427131	111.201 ug/l	100
69) o-Xylene	12.394	106	204854	56.370 ug/l	100
70) Styrene	12.412	104	347383	56.434 ug/l	100
71) Bromoform	12.576	173	83487	56.070 ug/l #	100
73) Isopropylbenzene	12.694	105	527625	54.145 ug/l	100
74) N-amyl acetate	12.494	43	237131	53.738 ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	151079	51.560 ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	143676m	56.449 ug/l	
77) Bromobenzene	12.982	156	120918	51.442 ug/l	100
78) n-propylbenzene	13.035	91	626503	55.490 ug/l	100
79) 2-Chlorotoluene	13.123	91	384795	53.411 ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	445807	56.084 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	57572	52.943 ug/l	100
82) 4-Chlorotoluene	13.217	91	386854	53.341 ug/l	100
83) tert-Butylbenzene	13.435	119	386532	54.711 ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	449720	56.161 ug/l	100
85) sec-Butylbenzene	13.617	105	529076	56.119 ug/l	100
86) p-Isopropyltoluene	13.729	119	448148	57.485 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	228219	51.755 ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	227835	51.163 ug/l	100
89) n-Butylbenzene	14.053	91	394831	55.854 ug/l	100
90) Hexachloroethane	14.329	117	81626	51.582 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	218378	50.506 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30379	50.241 ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	119164	55.953 ug/l	100
94) Hexachlorobutadiene	15.500	225	50680	47.718 ug/l	100
95) Naphthalene	15.635	128	393177	55.688 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	114483	53.701 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084214.D
Acq On : 30 Sep 2024 12:49
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

ICAL Form

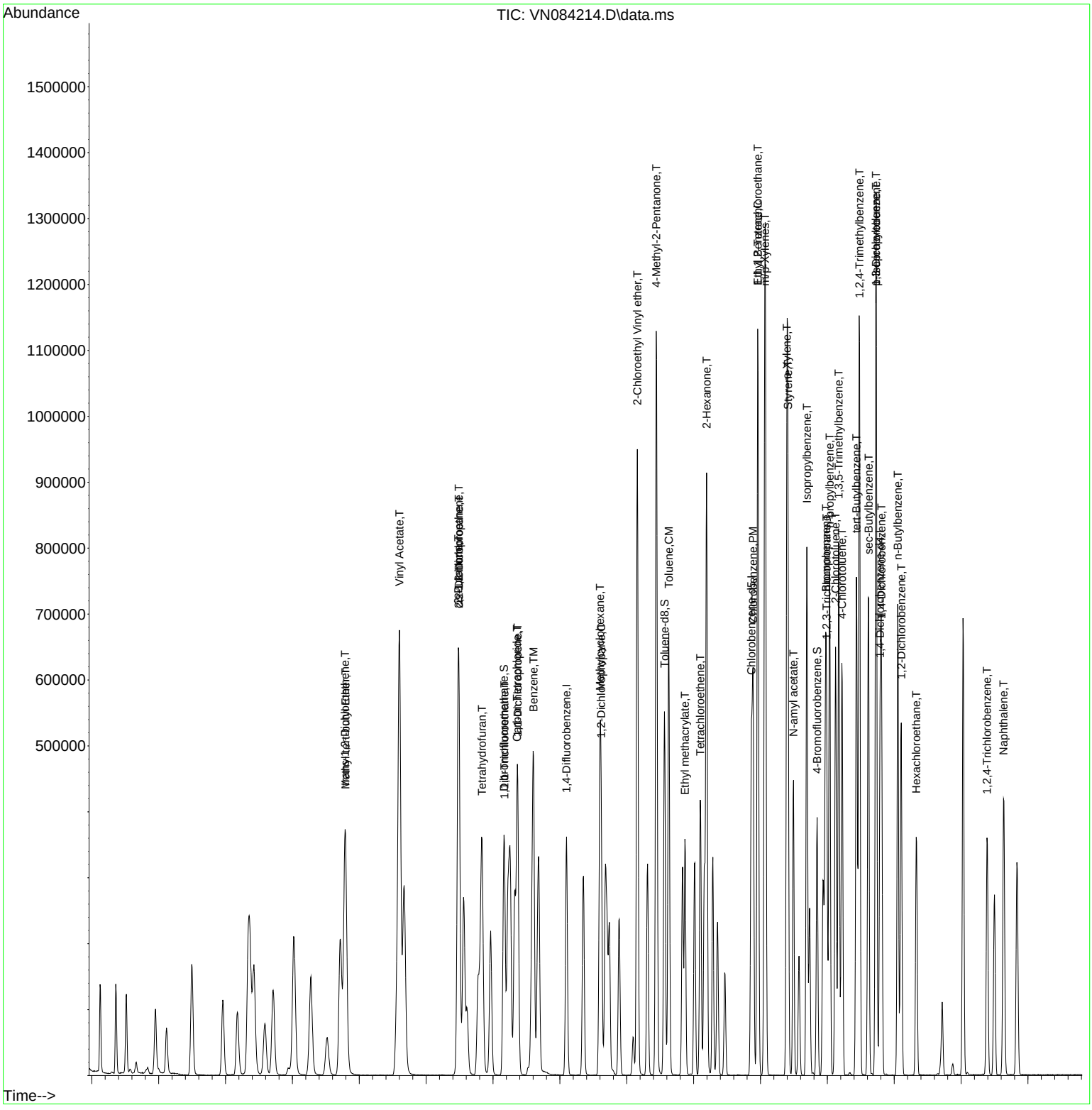
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084214.D
Acq On : 30 Sep 2024 12:49
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 01 06:48:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084215.D
Acq On : 30 Sep 2024 13:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	178087	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	307298	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	270754	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127763	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	54409	20.606	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	41.220%#		
35) Dibromofluoromethane	8.171	113	41903	20.684	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	41.360%#		
50) Toluene-d8	10.565	98	152668	20.483	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	40.960%#		
62) 4-Bromofluorobenzene	12.847	95	55201	20.329	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	40.660%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	42709	20.275	ug/l	94
3) Chloromethane	2.359	50	48218	20.047	ug/l	99
4) Vinyl Chloride	2.518	62	47375	20.334	ug/l	96
5) Bromomethane	2.942	94	30751	20.010	ug/l	97
6) Chloroethane	3.118	64	30650	18.369	ug/l	96
7) Trichlorofluoromethane	3.495	101	74579	20.557	ug/l	95
8) Diethyl Ether	3.959	74	29090	21.619	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	42958	20.665	ug/l	99
10) Methyl Iodide	4.589	142	54769	20.458	ug/l	97
11) Tert butyl alcohol	5.518	59	45501	104.506	ug/l	98
12) 1,1-Dichloroethene	4.336	96	42450	21.171	ug/l	95
13) Acrolein	4.183	56	48261	96.553	ug/l	98
14) Allyl chloride	5.024	41	77338	22.208	ug/l	92
15) Acrylonitrile	5.718	53	115451	105.004	ug/l	99
16) Acetone	4.430	43	119948	105.747	ug/l	98
17) Carbon Disulfide	4.706	76	124366	19.590	ug/l	99
18) Methyl Acetate	5.030	43	49436	19.996	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	144972	21.421	ug/l	100
20) Methylene Chloride	5.271	84	47091	20.423	ug/l	94
21) trans-1,2-Dichloroethene	5.783	96	44064	20.976	ug/l	92
22) Diisopropyl ether	6.671	45	154575	21.460	ug/l	98
23) Vinyl Acetate	6.600	43	589404	109.739	ug/l	99
24) 1,1-Dichloroethane	6.565	63	82821	20.561	ug/l	98
25) 2-Butanone	7.482	43	165762	107.295	ug/l	100
26) 2,2-Dichloropropane	7.494	77	76824	21.152	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	52758	20.783	ug/l	99
28) Bromochloromethane	7.812	49	34591	19.246	ug/l	99
29) Tetrahydrofuran	7.835	42	100146	105.041	ug/l	99
30) Chloroform	7.965	83	85848	20.517	ug/l	99
31) Cyclohexane	8.253	56	77216	19.743	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	77552	20.637	ug/l	97
36) 1,1-Dichloropropene	8.371	75	61556	20.918	ug/l	99
37) Ethyl Acetate	7.559	43	61023	20.213	ug/l	99
38) Carbon Tetrachloride	8.359	117	67913	21.039	ug/l	95
39) Methylcyclohexane	9.600	83	70956	21.665	ug/l	99
40) Benzene	8.606	78	191581	20.896	ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084215.D
Acq On : 30 Sep 2024 13:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	34943	21.320	ug/l		99
42) 1,2-Dichloroethane	8.671	62	64453	20.736	ug/l		99
43) Isopropyl Acetate	8.688	43	114278	19.334	ug/l		99
44) Trichloroethene	9.347	130	44412	20.740	ug/l		98
45) 1,2-Dichloropropane	9.618	63	46651	21.509	ug/l		100
46) Dibromomethane	9.706	93	31672	21.639	ug/l		97
47) Bromodichloromethane	9.888	83	68343	21.017	ug/l		96
48) Methyl methacrylate	9.682	41	50498	21.453	ug/l		98
49) 1,4-Dioxane	9.700	88	18411	424.848	ug/l	#	93
51) 4-Methyl-2-Pentanone	10.441	43	313636	109.132	ug/l		99
52) Toluene	10.629	92	118412	21.179	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	70403	21.240	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	74778	20.973	ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	42631	21.270	ug/l		98
56) Ethyl methacrylate	10.871	69	72159	21.880	ug/l		99
57) 1,3-Dichloropropane	11.159	76	75915	21.197	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	142843	93.367	ug/l		99
59) 2-Hexanone	11.194	43	237694	110.658	ug/l		100
60) Dibromochloromethane	11.359	129	50326	21.251	ug/l		97
61) 1,2-Dibromoethane	11.470	107	44554	21.393	ug/l		98
64) Tetrachloroethene	11.100	164	38055	20.179	ug/l		97
65) Chlorobenzene	11.888	112	123787	20.620	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	44285	21.417	ug/l		96
67) Ethyl Benzene	11.959	91	219635	20.688	ug/l		98
68) m/p-Xylenes	12.070	106	168826	42.989	ug/l		98
69) o-Xylene	12.394	106	79896	21.503	ug/l		98
70) Styrene	12.412	104	134066	21.302	ug/l		98
71) Bromoform	12.576	173	32824	21.561	ug/l	#	99
73) Isopropylbenzene	12.694	105	207217	21.254	ug/l		99
74) N-amyl acetate	12.494	43	93392	21.154	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.935	83	60656	20.690	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	51246m	20.124	ug/l		
77) Bromobenzene	12.976	156	48803	20.752	ug/l		98
78) n-propylbenzene	13.035	91	241164	21.350	ug/l		98
79) 2-Chlorotoluene	13.123	91	147738	20.497	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	171600	21.577	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	22222	20.426	ug/l		92
82) 4-Chlorotoluene	13.217	91	151387	20.864	ug/l		100
83) tert-Butylbenzene	13.435	119	147727	20.899	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	176283	22.004	ug/l		99
85) sec-Butylbenzene	13.611	105	205477	21.784	ug/l		99
86) p-Isopropyltoluene	13.729	119	171766	22.022	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	90970	20.620	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	88628	19.893	ug/l		96
89) n-Butylbenzene	14.053	91	151334	21.398	ug/l		100
90) Hexachloroethane	14.335	117	32554	20.562	ug/l		95
91) 1,2-Dichlorobenzene	14.106	146	88942	20.560	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12914	21.347	ug/l		96
93) 1,2,4-Trichlorobenzene	15.388	180	47149	22.128	ug/l		99
94) Hexachlorobutadiene	15.500	225	22742	21.402	ug/l		97
95) Naphthalene	15.641	128	149988	21.233	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	46153	21.639	ug/l		95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084215.D
Acq On : 30 Sep 2024 13:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

ICAL Form

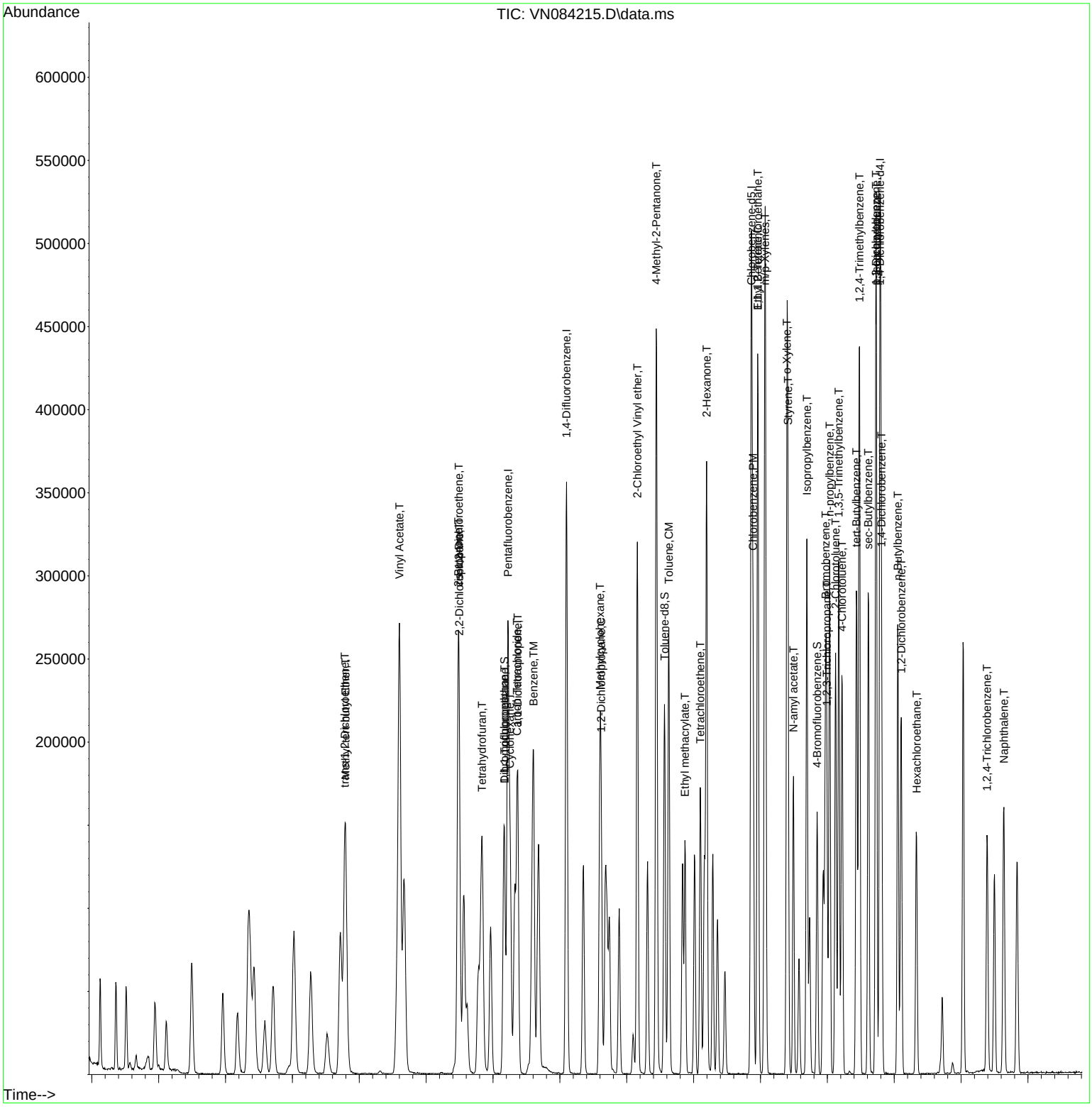
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084215.D
Acq On : 30 Sep 2024 13:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 01 06:48:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084216.D
Acq On : 30 Sep 2024 13:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	176243	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	304981	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	262325	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119657	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.582	65	25083	9.599	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	19.200%#			
35) Dibromofluoromethane	8.165	113	19289	9.594	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	19.180%#			
50) Toluene-d8	10.565	98	70000	9.463	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	18.920%#			
62) 4-Bromofluorobenzene	12.847	95	24756	9.186	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	18.380%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.130	85	19806	9.501	ug/l		96
3) Chloromethane	2.359	50	22840	9.595	ug/l		97
4) Vinyl Chloride	2.518	62	22584	9.795	ug/l		97
5) Bromomethane	2.965	94	14957	9.835	ug/l		96
6) Chloroethane	3.124	64	15254	9.238	ug/l		89
7) Trichlorofluoromethane	3.494	101	33820	9.420	ug/l		99
8) Diethyl Ether	3.965	74	12422	9.328	ug/l		96
9) 1,1,2-Trichlorotrifluo...	4.377	101	18747	9.113	ug/l		98
10) Methyl Iodide	4.594	142	24268	9.160	ug/l		96
11) Tert butyl alcohol	5.512	59	20490	47.553	ug/l	#	86
12) 1,1-Dichloroethene	4.341	96	18798	9.473	ug/l		86
13) Acrolein	4.183	56	22976	46.448	ug/l		98
14) Allyl chloride	5.024	41	31571	9.161	ug/l		98
15) Acrylonitrile	5.718	53	52809	48.533	ug/l		99
16) Acetone	4.424	43	52518	46.785	ug/l		96
17) Carbon Disulfide	4.718	76	58158	9.257	ug/l		99
18) Methyl Acetate	5.024	43	24366	9.959	ug/l		95
19) Methyl tert-butyl Ether	5.794	73	63531	9.486	ug/l		94
20) Methylene Chloride	5.277	84	21801	9.554	ug/l		87
21) trans-1,2-Dichloroethene	5.788	96	20107	9.672	ug/l		85
22) Diisopropyl ether	6.671	45	66959	9.393	ug/l		97
23) Vinyl Acetate	6.606	43	248594	46.769	ug/l		98
24) 1,1-Dichloroethane	6.571	63	38215	9.586	ug/l		99
25) 2-Butanone	7.482	43	73877	48.320	ug/l		99
26) 2,2-Dichloropropane	7.488	77	34655	9.641	ug/l		98
27) cis-1,2-Dichloroethene	7.488	96	23095	9.193	ug/l		98
28) Bromochloromethane	7.812	49	14904	8.379	ug/l		100
29) Tetrahydrofuran	7.835	42	46917	49.725	ug/l		99
30) Chloroform	7.965	83	39355	9.504	ug/l		90
31) Cyclohexane	8.253	56	36916	9.538	ug/l		92
32) 1,1,1-Trichloroethane	8.171	97	35869	9.645	ug/l	#	87
36) 1,1-Dichloropropene	8.377	75	28525	9.767	ug/l		99
37) Ethyl Acetate	7.565	43	29754	9.931	ug/l	#	81
38) Carbon Tetrachloride	8.365	117	30964	9.665	ug/l		92
39) Methylcyclohexane	9.600	83	30932	9.516	ug/l		95
40) Benzene	8.606	78	86029	9.454	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084216.D
Acq On : 30 Sep 2024 13:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 01 06:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	15332	9.426 ug/l		97
42) 1,2-Dichloroethane	8.671	62	30402	9.855 ug/l		97
43) Isopropyl Acetate	8.688	43	52246	8.906 ug/l		99
44) Trichloroethene	9.347	130	20092	9.454 ug/l		99
45) 1,2-Dichloropropane	9.618	63	20703	9.618 ug/l		96
46) Dibromomethane	9.706	93	13770	9.479 ug/l		95
47) Bromodichloromethane	9.888	83	30289	9.385 ug/l	#	98
48) Methyl methacrylate	9.682	41	22612	9.679 ug/l		98
49) 1,4-Dioxane	9.694	88	8627	200.587 ug/l	#	78
51) 4-Methyl-2-Pentanone	10.441	43	142632	50.007 ug/l		99
52) Toluene	10.629	92	52537	9.468 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	31555	9.592 ug/l		93
54) cis-1,3-Dichloropropene	10.312	75	34684	9.802 ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	19245	9.675 ug/l		97
56) Ethyl methacrylate	10.870	69	31262	9.551 ug/l		97
57) 1,3-Dichloropropane	11.165	76	33613	9.457 ug/l		97
58) 2-Chloroethyl Vinyl ether	10.159	63	71035	46.784 ug/l		99
59) 2-Hexanone	11.194	43	103615	48.604 ug/l		100
60) Dibromochloromethane	11.359	129	22833	9.715 ug/l		99
61) 1,2-Dibromoethane	11.470	107	19220	9.299 ug/l		95
64) Tetrachloroethene	11.100	164	17743	9.711 ug/l		97
65) Chlorobenzene	11.894	112	56099	9.645 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	19227	9.597 ug/l		97
67) Ethyl Benzene	11.964	91	96533	9.385 ug/l		97
68) m/p-Xylenes	12.070	106	72910	19.162 ug/l		100
69) o-Xylene	12.394	106	34965	9.713 ug/l		100
70) Styrene	12.412	104	58367	9.572 ug/l		99
71) Bromoform	12.576	173	13618	9.233 ug/l	#	96
73) Isopropylbenzene	12.694	105	88000	9.638 ug/l		99
74) N-amyl acetate	12.494	43	40801	9.868 ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	26966	9.822 ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	23907m	10.024 ug/l		
77) Bromobenzene	12.982	156	21439	9.734 ug/l		99
78) n-propylbenzene	13.035	91	105334	9.957 ug/l		99
79) 2-Chlorotoluene	13.123	91	65511	9.704 ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	73637	9.887 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.729	75	10237	10.047 ug/l		94
82) 4-Chlorotoluene	13.223	91	66449	9.778 ug/l		99
83) tert-Butylbenzene	13.435	119	64152	9.691 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	74245	9.895 ug/l		99
85) sec-Butylbenzene	13.611	105	88913	10.065 ug/l		100
86) p-Isopropyltoluene	13.729	119	71675	9.812 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	39402	9.536 ug/l		98
88) 1,4-Dichlorobenzene	13.811	146	39191	9.392 ug/l		97
89) n-Butylbenzene	14.053	91	61422	9.273 ug/l		99
90) Hexachloroethane	14.335	117	14560	9.820 ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	38594	9.526 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5799	10.235 ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	18960	9.501 ug/l		99
94) Hexachlorobutadiene	15.500	225	9592	9.638 ug/l		95
95) Naphthalene	15.635	128	63596	9.613 ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	19629	9.826 ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084216.D
Acq On : 30 Sep 2024 13:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

ICAL Form

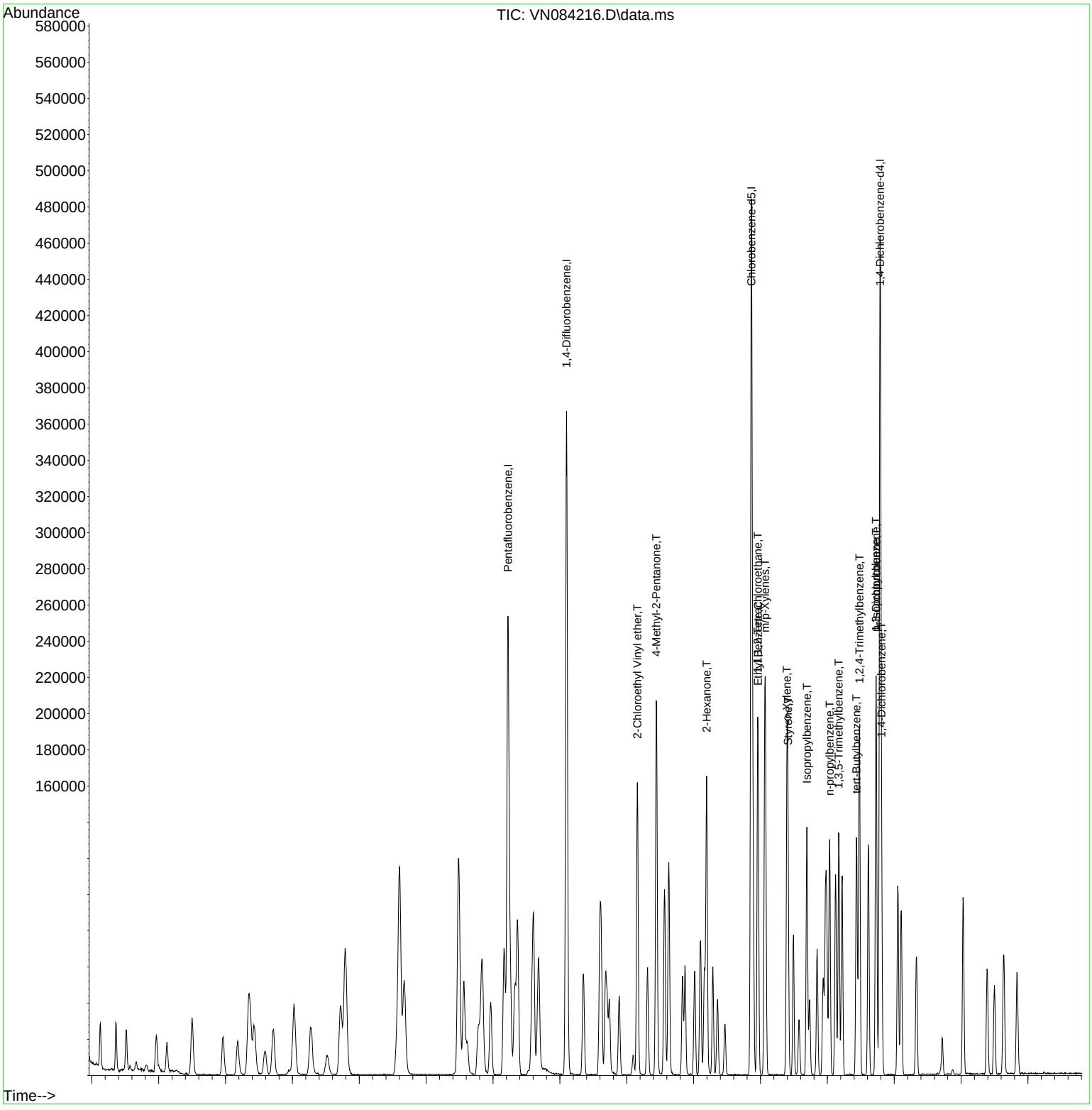
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084216.D
Acq On : 30 Sep 2024 13:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 01 06:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084217.D
Acq On : 30 Sep 2024 14:00
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	161547	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	288067	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	245710	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	112491	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.571	65	13262	5.537	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.080%#			
35) Dibromofluoromethane	8.171	113	10333	5.441	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.880%#			
50) Toluene-d8	10.565	98	35782	5.121	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.240%#			
62) 4-Bromofluorobenzene	12.847	95	13132	5.159	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	10.320%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.130	85	9807	5.132	ug/l		94
3) Chloromethane	2.359	50	12064	5.529	ug/l		92
4) Vinyl Chloride	2.512	62	11701	5.536	ug/l		96
5) Bromomethane	2.947	94	8091	5.804	ug/l		97
6) Chloroethane	3.118	64	8433	5.571	ug/l		94
7) Trichlorofluoromethane	3.495	101	17988	5.466	ug/l		90
8) Diethyl Ether	3.953	74	6430	5.268	ug/l		98
9) 1,1,2-Trichlorotrifluo...	4.365	101	10220m	5.420	ug/l		
10) Methyl Iodide	4.589	142	12344	5.083	ug/l	#	97
11) Tert butyl alcohol	5.512	59	11537	29.211	ug/l	#	91
12) 1,1-Dichloroethene	4.342	96	10191	5.603	ug/l		95
13) Acrolein	4.177	56	13122	28.940	ug/l		99
14) Allyl chloride	5.030	41	17724	5.611	ug/l		90
15) Acrylonitrile	5.718	53	26537	26.607	ug/l		99
16) Acetone	4.430	43	27153	26.389	ug/l		95
17) Carbon Disulfide	4.712	76	30816	5.351	ug/l		97
18) Methyl Acetate	5.024	43	12354	5.509	ug/l	#	72
19) Methyl tert-butyl Ether	5.800	73	33101	5.392	ug/l		97
20) Methylene Chloride	5.265	84	10809	5.168	ug/l		96
21) trans-1,2-Dichloroethene	5.789	96	10126m	5.314	ug/l		
22) Diisopropyl ether	6.671	45	35654	5.457	ug/l		99
23) Vinyl Acetate	6.606	43	128057m	26.284	ug/l		
24) 1,1-Dichloroethane	6.565	63	19800	5.419	ug/l		95
25) 2-Butanone	7.482	43	37739	26.929	ug/l		99
26) 2,2-Dichloropropane	7.488	77	17552	5.327	ug/l		98
27) cis-1,2-Dichloroethene	7.488	96	12388	5.380	ug/l		99
28) Bromochloromethane	7.812	49	9996	6.131	ug/l	#	95
29) Tetrahydrofuran	7.841	42	23456	27.121	ug/l		97
30) Chloroform	7.965	83	20341	5.359	ug/l		92
31) Cyclohexane	8.259	56	21337	6.014	ug/l		99
32) 1,1,1-Trichloroethane	8.171	97	18635	5.467	ug/l	#	53
36) 1,1-Dichloropropene	8.371	75	14527	5.266	ug/l		99
37) Ethyl Acetate	7.565	43	16138	5.702	ug/l		97
38) Carbon Tetrachloride	8.359	117	15700	5.188	ug/l		95
39) Methylcyclohexane	9.594	83	15377	5.009	ug/l		94
40) Benzene	8.606	78	45343	5.276	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084217.D
Acq On : 30 Sep 2024 14:00
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.782	41	7878	5.128 ug/l	93
42) 1,2-Dichloroethane	8.677	62	15661	5.375 ug/l	99
43) Isopropyl Acetate	8.682	43	28029m	5.059 ug/l	
44) Trichloroethene	9.347	130	10921	5.440 ug/l	87
45) 1,2-Dichloropropane	9.618	63	11181	5.499 ug/l	95
46) Dibromomethane	9.706	93	7207	5.253 ug/l	93
47) Bromodichloromethane	9.888	83	16407	5.382 ug/l #	97
48) Methyl methacrylate	9.676	41	11766	5.332 ug/l	97
49) 1,4-Dioxane	9.688	88	4121	101.444 ug/l #	79
51) 4-Methyl-2-Pentanone	10.441	43	69730	25.883 ug/l	99
52) Toluene	10.629	92	26489	5.054 ug/l	96
53) t-1,3-Dichloropropene	10.835	75	16242	5.227 ug/l	94
54) cis-1,3-Dichloropropene	10.312	75	17448	5.220 ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	9805	5.219 ug/l	89
56) Ethyl methacrylate	10.876	69	15794	5.109 ug/l	96
57) 1,3-Dichloropropane	11.159	76	17954	5.348 ug/l	96
58) 2-Chloroethyl Vinyl ether	10.159	63	38417	26.787 ug/l	99
59) 2-Hexanone	11.194	43	51488	25.570 ug/l	98
60) Dibromochloromethane	11.359	129	11412	5.141 ug/l	96
61) 1,2-Dibromoethane	11.470	107	10394	5.324 ug/l	98
64) Tetrachloroethene	11.106	164	9167	5.356 ug/l	90
65) Chlorobenzene	11.888	112	28818	5.290 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	10054	5.358 ug/l	97
67) Ethyl Benzene	11.965	91	49891	5.178 ug/l	97
68) m/p-Xylenes	12.065	106	35820	10.051 ug/l	98
69) o-Xylene	12.400	106	18041	5.350 ug/l	96
70) Styrene	12.412	104	28472	4.985 ug/l	99
71) Bromoform	12.582	173	7067	5.115 ug/l #	95
73) Isopropylbenzene	12.694	105	43468	5.064 ug/l	98
74) N-amyl acetate	12.494	43	19775	5.087 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	14517	5.624 ug/l	94
76) 1,2,3-Trichloropropane	12.994	75	14072m	6.276 ug/l	
77) Bromobenzene	12.976	156	11049	5.336 ug/l	99
78) n-propylbenzene	13.035	91	51120	5.140 ug/l	99
79) 2-Chlorotoluene	13.123	91	33161	5.225 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	36100	5.156 ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	4595	4.797 ug/l #	79
82) 4-Chlorotoluene	13.223	91	33382	5.225 ug/l	99
83) tert-Butylbenzene	13.435	119	31990	5.140 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	36099	5.118 ug/l	100
85) sec-Butylbenzene	13.612	105	40954	4.931 ug/l	98
86) p-Isopropyltoluene	13.729	119	34083	4.963 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	20730	5.337 ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	21249	5.417 ug/l	96
89) n-Butylbenzene	14.059	91	30253	4.858 ug/l	99
90) Hexachloroethane	14.329	117	7628	5.472 ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	19905	5.226 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	3046	5.719 ug/l	92
93) 1,2,4-Trichlorobenzene	15.394	180	9439	5.031 ug/l	95
94) Hexachlorobutadiene	15.500	225	5174	5.530 ug/l	89
95) Naphthalene	15.641	128	30391	4.886 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	9245	4.923 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084217.D
Acq On : 30 Sep 2024 14:00
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

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

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

ICAL Form

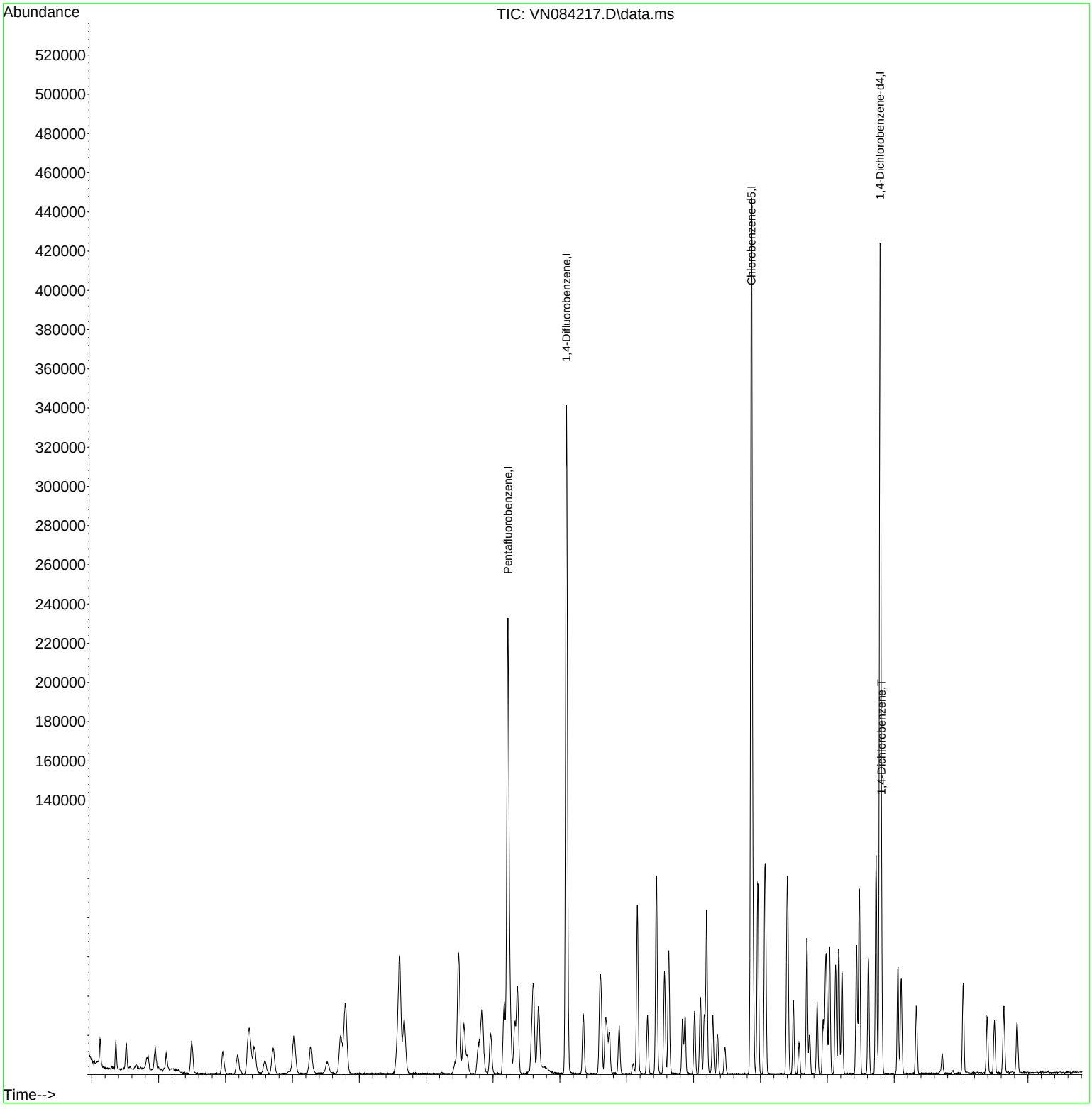
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084217.D
Acq On : 30 Sep 2024 14:00
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084218.D
Acq On : 30 Sep 2024 14:48
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	160573	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	290146	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	244376	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	101963	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	1928	1.015	ug/l		83
3) Chloromethane	2.365	50	2217	1.022	ug/l		99
4) Vinyl Chloride	2.512	62	1981	0.943	ug/l		89
6) Chloroethane	3.124	64	2029	1.349	ug/l		97
7) Trichlorofluoromethane	3.500	101	3140	0.960	ug/l		94
8) Diethyl Ether	3.965	74	1167	0.962	ug/l		88
9) 1,1,2-Trichlorotrifluo...	4.371	101	1934	1.032	ug/l	#	63
12) 1,1-Dichloroethene	4.353	96	1584	0.876	ug/l	#	50
14) Allyl chloride	5.018	41	2852m	0.908	ug/l		
15) Acrylonitrile	5.736	53	4920	4.963	ug/l	#	81
16) Acetone	4.436	43	4799	4.692	ug/l		90
17) Carbon Disulfide	4.718	76	6680	1.167	ug/l		100
18) Methyl Acetate	5.030	43	2249	1.009	ug/l	#	64
19) Methyl tert-butyl Ether	5.806	73	5319	0.872	ug/l	#	83
20) Methylene Chloride	5.277	84	2203	1.060	ug/l	#	83
21) trans-1,2-Dichloroethene	5.783	96	1753	0.925	ug/l		86
22) Diisopropyl ether	6.671	45	5639	0.868	ug/l	#	96
23) Vinyl Acetate	6.606	43	19212m	3.967	ug/l		
24) 1,1-Dichloroethane	6.571	63	3358	0.925	ug/l	#	83
25) 2-Butanone	7.488	43	6488	4.658	ug/l		91
26) 2,2-Dichloropropane	7.494	77	2902	0.886	ug/l		96
27) cis-1,2-Dichloroethene	7.483	96	2259	0.987	ug/l		92
28) Bromochloromethane	7.824	49	1718	1.060	ug/l	#	87
29) Tetrahydrofuran	7.841	42	4006	4.660	ug/l		92
30) Chloroform	7.971	83	3793	1.005	ug/l		99
32) 1,1,1-Trichloroethane	8.171	97	3120	0.921	ug/l	#	53
36) 1,1-Dichloropropene	8.365	75	2420	0.871	ug/l		98
37) Ethyl Acetate	7.559	43	2596	0.911	ug/l	#	78
38) Carbon Tetrachloride	8.359	117	2795	0.917	ug/l		90
39) Methylcyclohexane	9.600	83	2486	0.804	ug/l	#	88
40) Benzene	8.606	78	8245	0.952	ug/l		94
41) Methacrylonitrile	7.782	41	1490	0.963	ug/l	#	66
42) 1,2-Dichloroethane	8.671	62	2669	0.909	ug/l		88
43) Isopropyl Acetate	8.688	43	7614m	1.364	ug/l		
44) Trichloroethene	9.347	130	1885	0.932	ug/l		87
45) 1,2-Dichloropropane	9.624	63	1676	0.818	ug/l	#	44

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084218.D
Acq On : 30 Sep 2024 14:48
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 06:49:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Dibromomethane	9.706	93	1144	0.828 ug/l	87
47) Bromodichloromethane	9.894	83	2754	0.897 ug/l #	93
48) Methyl methacrylate	9.676	41	1824	0.821 ug/l	93
49) 1,4-Dioxane	9.694	88	800	19.552 ug/l #	78
51) 4-Methyl-2-Pentanone	10.447	43	11218	4.134 ug/l	97
52) Toluene	10.629	92	4875	0.923 ug/l	91
53) t-1,3-Dichloropropene	10.829	75	2493	0.797 ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	2720	0.808 ug/l	95
55) 1,1,2-Trichloroethane	11.018	97	1669	0.882 ug/l	90
56) Ethyl methacrylate	10.876	69	2402	0.771 ug/l #	77
57) 1,3-Dichloropropane	11.159	76	3092	0.914 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	6179	4.278 ug/l	98
59) 2-Hexanone	11.194	43	8282	4.084 ug/l	96
60) Dibromochloromethane	11.353	129	1916	0.857 ug/l	91
61) 1,2-Dibromoethane	11.465	107	1795	0.913 ug/l	99
64) Tetrachloroethene	11.106	164	1690	0.993 ug/l #	87
65) Chlorobenzene	11.888	112	5025	0.927 ug/l #	86
66) 1,1,1,2-Tetrachloroethane	11.959	131	1632	0.874 ug/l #	66
67) Ethyl Benzene	11.965	91	8582	0.896 ug/l #	88
68) m/p-Xylenes	12.070	106	5869	1.656 ug/l	95
69) o-Xylene	12.400	106	2398	0.715 ug/l	83
70) Styrene	12.412	104	4489	0.790 ug/l	94
71) Bromoform	12.576	173	1168	0.850 ug/l #	94
73) Isopropylbenzene	12.688	105	6991	0.899 ug/l	97
74) N-amyl acetate	12.494	43	3228	0.916 ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.941	83	2233	0.954 ug/l #	95
76) 1,2,3-Trichloropropane	12.994	75	1826m	0.899 ug/l	
77) Bromobenzene	12.976	156	1818	0.969 ug/l	98
78) n-propylbenzene	13.035	91	7045	0.781 ug/l	95
79) 2-Chlorotoluene	13.129	91	5383	0.936 ug/l	92
80) 1,3,5-Trimethylbenzene	13.170	105	4830	0.761 ug/l	95
82) 4-Chlorotoluene	13.223	91	5174	0.893 ug/l	100
83) tert-Butylbenzene	13.435	119	4909	0.870 ug/l	88
84) 1,2,4-Trimethylbenzene	13.482	105	4760	0.744 ug/l	100
85) sec-Butylbenzene	13.612	105	5795	0.770 ug/l	99
86) p-Isopropyltoluene	13.723	119	4495	0.722 ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	3424	0.972 ug/l	96
88) 1,4-Dichlorobenzene	13.812	146	3648m	1.026 ug/l	
89) n-Butylbenzene	14.053	91	4866	0.862 ug/l	97
90) Hexachloroethane	14.335	117	1151	0.911 ug/l	82
91) 1,2-Dichlorobenzene	14.100	146	3610	1.046 ug/l	92
92) 1,2-Dibromo-3-Chloropr...	14.711	75	423	0.876 ug/l	65
93) 1,2,4-Trichlorobenzene	15.400	180	1340	0.788 ug/l	89
94) Hexachlorobutadiene	15.494	225	861	1.015 ug/l	90
95) Naphthalene	15.641	128	5031	0.892 ug/l	97
96) 1,2,3-Trichlorobenzene	15.847	180	1531	0.899 ug/l	95

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

ICAL Form

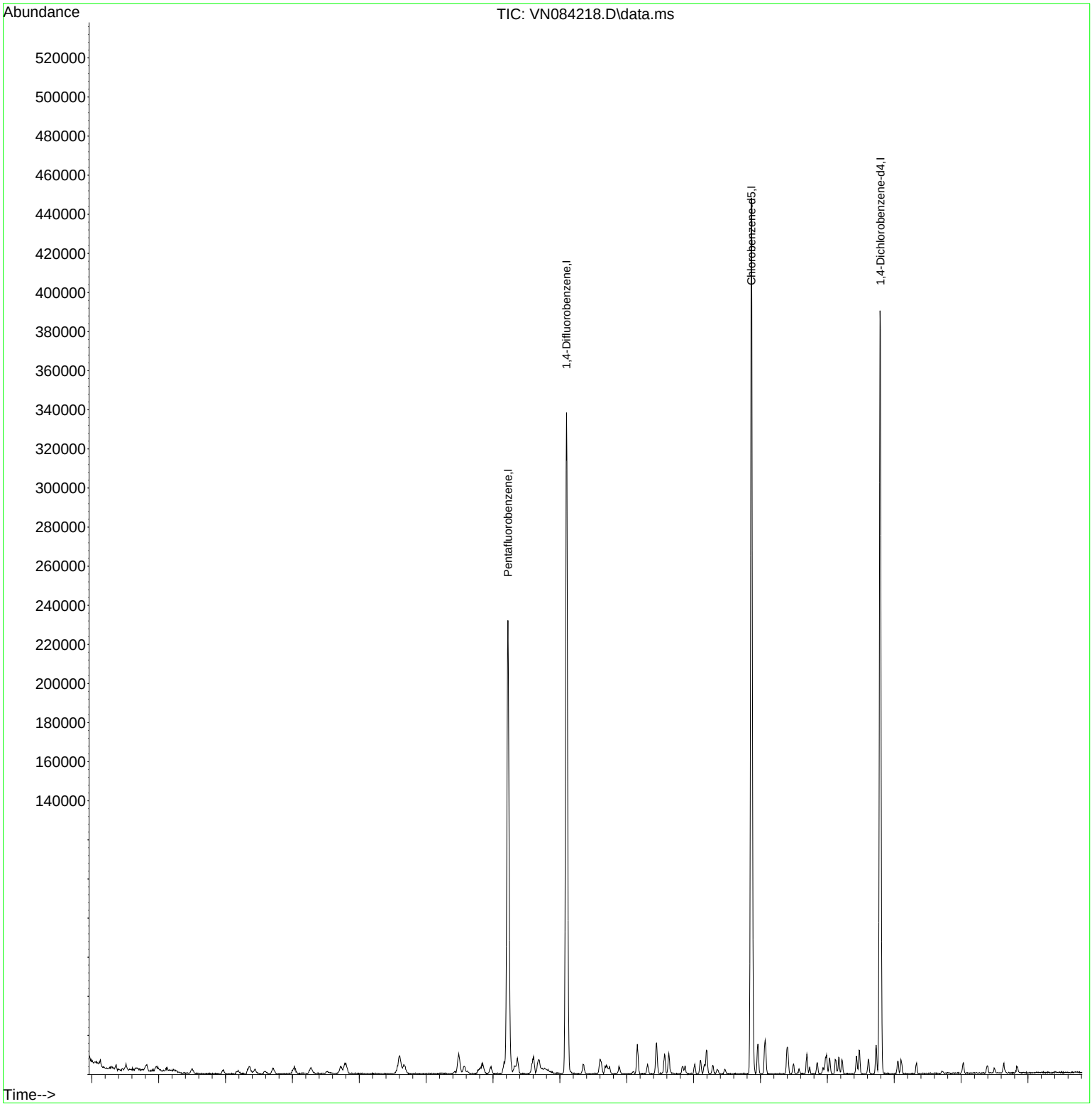
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084218.D
Acq On : 30 Sep 2024 14:48
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 06:49:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	174241	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	300916	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	263364	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	130630	50.564	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.120%			
35) Dibromofluoromethane	8.165	113	100200	50.508	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.020%			
50) Toluene-d8	10.565	98	387775	53.129	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.260%			
62) 4-Bromofluorobenzene	12.847	95	140850	52.971	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	108641	52.712	ug/l	95
3) Chloromethane	2.359	50	121140	51.477	ug/l	97
4) Vinyl Chloride	2.512	62	116792	51.235	ug/l	99
5) Bromomethane	2.947	94	71654	47.656	ug/l	99
6) Chloroethane	3.118	64	73658	45.119	ug/l	94
7) Trichlorofluoromethane	3.495	101	188482	53.099	ug/l	98
8) Diethyl Ether	3.959	74	70360	53.445	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	104895	51.573	ug/l	99
10) Methyl Iodide	4.589	142	141430	53.996	ug/l	92
11) Tert butyl alcohol	5.524	59	109545	257.154	ug/l	99
12) 1,1-Dichloroethene	4.342	96	104103	53.064	ug/l	95
13) Acrolein	4.177	56	125971	257.587	ug/l	97
14) Allyl chloride	5.024	41	174077	51.092	ug/l	100
15) Acrylonitrile	5.718	53	293962	273.264	ug/l	99
16) Acetone	4.430	43	308020	277.547	ug/l	97
17) Carbon Disulfide	4.712	76	302450	48.693	ug/l	100
18) Methyl Acetate	5.024	43	130494	53.948	ug/l	98
19) Methyl tert-butyl Ether	5.800	73	360019	54.371	ug/l	96
20) Methylene Chloride	5.277	84	117572	52.116	ug/l	89
21) trans-1,2-Dichloroethene	5.783	96	108894	52.980	ug/l	97
22) Diisopropyl ether	6.671	45	384647	54.579	ug/l	99
23) Vinyl Acetate	6.600	43	1492704	285.569	ug/l	99
24) 1,1-Dichloroethane	6.565	63	211544	53.676	ug/l	98
25) 2-Butanone	7.482	43	426860	282.397	ug/l	98
26) 2,2-Dichloropropane	7.488	77	189858	53.428	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	128843	51.876	ug/l	98
28) Bromochloromethane	7.818	49	84632	48.129	ug/l	97
29) Tetrahydrofuran	7.835	42	262996	281.940	ug/l	99
30) Chloroform	7.965	83	213634	52.184	ug/l	95
31) Cyclohexane	8.259	56	190602	49.809	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	196319	53.395	ug/l	99
36) 1,1-Dichloropropene	8.371	75	155365	53.917	ug/l	99
37) Ethyl Acetate	7.559	43	159764	54.043	ug/l	99
38) Carbon Tetrachloride	8.359	117	169403	53.593	ug/l	94
39) Methylcyclohexane	9.600	83	181676	56.648	ug/l	98
40) Benzene	8.606	78	478538	53.301	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	89407	55.708	ug/l		98
42) 1,2-Dichloroethane	8.671	62	164758	54.131	ug/l		99
43) Isopropyl Acetate	8.688	43	278668	48.126	ug/l		100
44) Trichloroethene	9.353	130	109810	52.368	ug/l		100
45) 1,2-Dichloropropane	9.618	63	116161	54.694	ug/l		99
46) Dibromomethane	9.706	93	80284	56.015	ug/l		100
47) Bromodichloromethane	9.888	83	173015	54.335	ug/l		98
48) Methyl methacrylate	9.682	41	132287	57.391	ug/l		98
49) 1,4-Dioxane	9.694	88	47169	1111.545	ug/l		99
51) 4-Methyl-2-Pentanone	10.441	43	808630	287.336	ug/l		100
52) Toluene	10.629	92	296651	54.185	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	183153	56.426	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	193475	55.416	ug/l		98
55) 1,1,2-Trichloroethane	11.018	97	108550	55.307	ug/l		98
56) Ethyl methacrylate	10.876	69	189121	58.561	ug/l		100
57) 1,3-Dichloropropane	11.165	76	191966	54.738	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	415454	277.315	ug/l		98
59) 2-Hexanone	11.194	43	621000	295.238	ug/l		100
60) Dibromochloromethane	11.359	129	127786	55.105	ug/l		99
61) 1,2-Dibromoethane	11.470	107	111244	54.548	ug/l		98
64) Tetrachloroethene	11.100	164	96460	52.585	ug/l		99
65) Chlorobenzene	11.888	112	312728	53.555	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	111388	55.381	ug/l		97
67) Ethyl Benzene	11.965	91	573790	55.563	ug/l		99
68) m/p-Xylenes	12.070	106	434515	113.748	ug/l		99
69) o-Xylene	12.400	106	209737	58.032	ug/l		99
70) Styrene	12.412	104	355892	58.136	ug/l		99
71) Bromoform	12.576	173	84787	57.258	ug/l	#	99
73) Isopropylbenzene	12.694	105	535240	53.604	ug/l		100
74) N-amyl acetate	12.494	43	249223	55.118	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	157322	52.398	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	134836m	50.475	ug/l		
77) Bromobenzene	12.976	156	124463	51.676	ug/l		98
78) n-propylbenzene	13.035	91	638464	55.188	ug/l		99
79) 2-Chlorotoluene	13.123	91	390502	52.898	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	456943	56.101	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	58987	52.939	ug/l		99
82) 4-Chlorotoluene	13.217	91	397246	53.455	ug/l		100
83) tert-Butylbenzene	13.435	119	390221	53.903	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	461123	56.199	ug/l		98
85) sec-Butylbenzene	13.617	105	536685	55.556	ug/l		99
86) p-Isopropyltoluene	13.729	119	452245	56.614	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	234190	51.830	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	234070	51.298	ug/l		99
89) n-Butylbenzene	14.053	91	396001	54.671	ug/l		100
90) Hexachloroethane	14.329	117	82363	50.795	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	226320	51.082	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32296	52.125	ug/l		96
93) 1,2,4-Trichlorobenzene	15.394	180	114157	52.311	ug/l		99
94) Hexachlorobutadiene	15.500	225	50461	46.368	ug/l		97
95) Naphthalene	15.641	128	380549	52.602	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	111086	50.853	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

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

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

ICAL Form

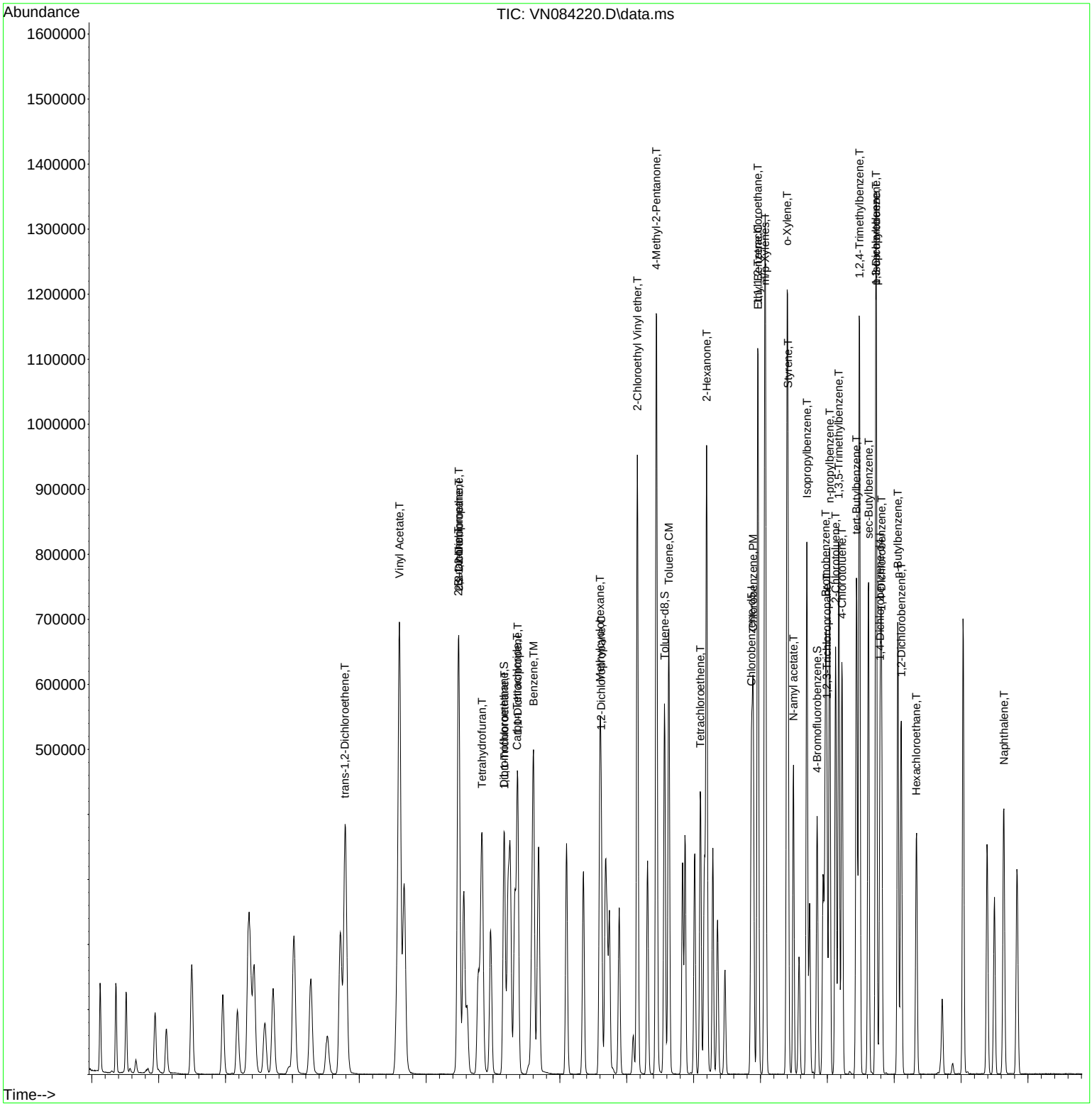
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	Pentafluorobenzene	1.000	1.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	0.591	0.624	-5.6	101	0.00
3	P	Chloromethane	0.675	0.695	-3.0	103	0.00
4	C	Vinyl Chloride	0.654	0.670	-2.4#	100	0.00
5	T	Bromomethane	0.431	0.411	4.6	94	0.00
6	T	Chloroethane	0.468	0.423	9.6	100	0.00
7	T	Trichlorofluoromethane	1.019	1.082	-6.2	101	0.00
8	T	Diethyl Ether	0.378	0.404	-6.9	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.584	0.602	-3.1	101	0.00
10	T	Methyl Iodide	0.752	0.812	-8.0	100	0.00
11	T	Tert butyl alcohol	0.122	0.126	-3.3	101	0.00
12	CM	1,1-Dichloroethene	0.563	0.597	-6.0#	101	0.00
13	T	Acrolein	0.140	0.145	-3.6	101	0.00
14	T	Allyl chloride	0.978	0.999	-2.1	100	0.00
15	T	Acrylonitrile	0.309	0.337	-9.1	106	0.00
16	T	Acetone	0.318	0.354	-11.3	103	0.00
17	T	Carbon Disulfide	1.782	1.736	2.6	100	0.00
18	T	Methyl Acetate	0.694	0.749	-7.9	105	0.00
19	T	Methyl tert-butyl Ether	1.900	2.066	-8.7	101	0.00
20	T	Methylene Chloride	0.647	0.675	-4.3	102	0.00
21	T	trans-1,2-Dichloroethene	0.590	0.625	-5.9	100	0.00
22	T	Diisopropyl ether	2.022	2.208	-9.2	101	0.00
23	T	Vinyl Acetate	1.500	1.713	-14.2	103	0.00
24	P	1,1-Dichloroethane	1.131	1.214	-7.3	101	0.00
25	T	2-Butanone	0.434	0.490	-12.9	108	0.00
26	T	2,2-Dichloropropane	1.020	1.090	-6.9	100	0.00
27	T	cis-1,2-Dichloroethene	0.713	0.739	-3.6	99	0.00
28	T	Bromochloromethane	0.505	0.486	3.8	98	0.00
29	T	Tetrahydrofuran	0.268	0.302	-12.7	106	0.00
30	C	Chloroform	1.175	1.226	-4.3#	101	0.00
31	T	Cyclohexane	1.098	1.094	0.4	102	0.00
32	T	1,1,1-Trichloroethane	1.055	1.127	-6.8	102	0.00
33	S	1,2-Dichloroethane-d4	0.741	0.750	-1.2	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.330	0.333	-0.9	102	0.00
36	T	1,1-Dichloropropene	0.479	0.516	-7.7	100	0.00
37	T	Ethyl Acetate	0.491	0.531	-8.1	104	0.00
38	T	Carbon Tetrachloride	0.525	0.563	-7.2	101	0.00
39	T	Methylcyclohexane	0.533	0.604	-13.3	102	0.00
40	TM	Benzene	1.492	1.590	-6.6	101	0.00
41	T	Methacrylonitrile	0.267	0.297	-11.2	102	0.00
42	TM	1,2-Dichloroethane	0.506	0.548	-8.3	103	0.00
43	T	Isopropyl Acetate	0.962	0.926	3.7	102	0.00
44	TM	Trichloroethene	0.348	0.365	-4.9	100	0.00
45	C	1,2-Dichloropropane	0.353	0.386	-9.3#	102	0.00
46	T	Dibromomethane	0.238	0.267	-12.2	102	0.00
47	T	Bromodichloromethane	0.529	0.575	-8.7	102	0.00
48	T	Methyl methacrylate	0.383	0.440	-14.9	104	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	1,4-Dioxane	0.007	0.008	-14.3	106	0.00
50	S	Toluene-d8	1.213	1.289	-6.3	103	0.00
51	T	4-Methyl-2-Pentanone	0.468	0.537	-14.7	105	0.00
52	CM	Toluene	0.910	0.986	-8.4#	101	0.00
53	T	t-1,3-Dichloropropene	0.539	0.609	-13.0	102	0.00
54	T	cis-1,3-Dichloropropene	0.580	0.643	-10.9	100	0.00
55	T	1,1,2-Trichloroethane	0.326	0.361	-10.7	102	0.00
56	T	Ethyl methacrylate	0.537	0.628	-16.9	103	0.00
57	T	1,3-Dichloropropane	0.583	0.638	-9.4	102	0.00
58	T	2-Chloroethyl Vinyl ether	0.249	0.276	-10.8	97	0.00
59	T	2-Hexanone	0.349	0.413	-18.3	106	0.00
60	T	Dibromochloromethane	0.385	0.425	-10.4	101	0.00
61	T	1,2-Dibromoethane	0.339	0.370	-9.1	102	0.00
62	S	4-Bromofluorobenzene	0.442	0.468	-5.9	103	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64	T	Tetrachloroethene	0.348	0.366	-5.2	102	0.00
65	PM	Chlorobenzene	1.109	1.187	-7.0	101	0.00
66	T	1,1,1,2-Tetrachloroethane	0.382	0.423	-10.7	104	0.00
67	C	Ethyl Benzene	1.961	2.179	-11.1#	102	0.00
68	T	m/p-Xylenes	0.725	0.825	-13.8	102	0.00
69	T	o-Xylene	0.686	0.796	-16.0	102	0.00
70	T	Styrene	1.162	1.351	-16.3	102	0.00
71	P	Bromoform	0.281	0.322	-14.6	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73	T	Isopropylbenzene	3.815	4.090	-7.2	101	0.00
74	T	N-amyl acetate	1.728	1.905	-10.2	105	0.00
75	P	1,1,2,2-Tetrachloroethane	1.147	1.202	-4.8	104	0.00
76	T	1,2,3-Trichloropropane	1.021	1.030	-0.9	94	0.00
77	T	Bromobenzene	0.920	0.951	-3.4	103	0.00
78	T	n-propylbenzene	4.421	4.879	-10.4	102	0.00
79	T	2-Chlorotoluene	2.821	2.984	-5.8	101	0.00
80	T	1,3,5-Trimethylbenzene	3.112	3.492	-12.2	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.426	0.451	-5.9	102	0.00
82	T	4-Chlorotoluene	2.840	3.036	-6.9	103	0.00
83	T	tert-Butylbenzene	2.766	2.982	-7.8	101	0.00
84	T	1,2,4-Trimethylbenzene	3.135	3.524	-12.4	103	0.00
85	T	sec-Butylbenzene	3.691	4.101	-11.1	101	0.00
86	T	p-Isopropyltoluene	3.052	3.456	-13.2	101	0.00
87	T	1,3-Dichlorobenzene	1.727	1.790	-3.6	103	0.00
88	T	1,4-Dichlorobenzene	1.744	1.789	-2.6	103	0.00
89	T	n-Butylbenzene	2.768	3.026	-9.3	100	0.00
90	T	Hexachloroethane	0.620	0.629	-1.5	101	0.00
91	T	1,2-Dichlorobenzene	1.693	1.730	-2.2	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.247	-4.2	106	0.00
93	T	1,2,4-Trichlorobenzene	0.834	0.872	-4.6	96	0.00
94	T	Hexachlorobutadiene	0.416	0.386	7.2	100	0.00
95	T	Naphthalene	2.764	2.908	-5.2	97	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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)
96 T	1,2,3-Trichlorobenzene	0.835	0.849	-1.7	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	Pentafluorobenzene	50.000	50.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	50.000	52.712	-5.4	101	0.00
3	P	Chloromethane	50.000	51.477	-3.0	103	0.00
4	C	Vinyl Chloride	50.000	51.235	-2.5#	100	0.00
5	T	Bromomethane	50.000	47.656	4.7	94	0.00
6	T	Chloroethane	50.000	45.119	9.8	100	0.00
7	T	Trichlorofluoromethane	50.000	53.099	-6.2	101	0.00
8	T	Diethyl Ether	50.000	53.445	-6.9	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.573	-3.1	101	0.00
10	T	Methyl Iodide	50.000	53.996	-8.0	100	0.00
11	T	Tert butyl alcohol	250.000	257.154	-2.9	101	0.00
12	CM	1,1-Dichloroethene	50.000	53.064	-6.1#	101	0.00
13	T	Acrolein	250.000	257.587	-3.0	101	0.00
14	T	Allyl chloride	50.000	51.092	-2.2	100	0.00
15	T	Acrylonitrile	250.000	273.264	-9.3	106	0.00
16	T	Acetone	250.000	277.547	-11.0	103	0.00
17	T	Carbon Disulfide	50.000	48.693	2.6	100	0.00
18	T	Methyl Acetate	50.000	53.948	-7.9	105	0.00
19	T	Methyl tert-butyl Ether	50.000	54.371	-8.7	101	0.00
20	T	Methylene Chloride	50.000	52.116	-4.2	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.980	-6.0	100	0.00
22	T	Diisopropyl ether	50.000	54.579	-9.2	101	0.00
23	T	Vinyl Acetate	250.000	285.569	-14.2	103	0.00
24	P	1,1-Dichloroethane	50.000	53.676	-7.4	101	0.00
25	T	2-Butanone	250.000	282.397	-13.0	108	0.00
26	T	2,2-Dichloropropane	50.000	53.428	-6.9	100	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.876	-3.8	99	0.00
28	T	Bromochloromethane	50.000	48.129	3.7	98	0.00
29	T	Tetrahydrofuran	250.000	281.940	-12.8	106	0.00
30	C	Chloroform	50.000	52.184	-4.4#	101	0.00
31	T	Cyclohexane	50.000	49.809	0.4	102	0.00
32	T	1,1,1-Trichloroethane	50.000	53.395	-6.8	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.564	-1.1	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	50.508	-1.0	102	0.00
36	T	1,1-Dichloropropene	50.000	53.917	-7.8	100	0.00
37	T	Ethyl Acetate	50.000	54.043	-8.1	104	0.00
38	T	Carbon Tetrachloride	50.000	53.593	-7.2	101	0.00
39	T	Methylcyclohexane	50.000	56.648	-13.3	102	0.00
40	TM	Benzene	50.000	53.301	-6.6	101	0.00
41	T	Methacrylonitrile	50.000	55.708	-11.4	102	0.00
42	TM	1,2-Dichloroethane	50.000	54.131	-8.3	103	0.00
43	T	Isopropyl Acetate	50.000	48.126	3.7	102	0.00
44	TM	Trichloroethene	50.000	52.368	-4.7	100	0.00
45	C	1,2-Dichloropropane	50.000	54.694	-9.4#	102	0.00
46	T	Dibromomethane	50.000	56.015	-12.0	102	0.00
47	T	Bromodichloromethane	50.000	54.335	-8.7	102	0.00
48	T	Methyl methacrylate	50.000	57.391	-14.8	104	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	1,4-Dioxane	1000.000	1111.545	-11.2	106	0.00
50	S	Toluene-d8	50.000	53.129	-6.3	103	0.00
51	T	4-Methyl-2-Pentanone	250.000	287.336	-14.9	105	0.00
52	CM	Toluene	50.000	54.185	-8.4#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	56.426	-12.9	102	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.416	-10.8	100	0.00
55	T	1,1,2-Trichloroethane	50.000	55.307	-10.6	102	0.00
56	T	Ethyl methacrylate	50.000	58.561	-17.1	103	0.00
57	T	1,3-Dichloropropane	50.000	54.738	-9.5	102	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	277.315	-10.9	97	0.00
59	T	2-Hexanone	250.000	295.238	-18.1	106	0.00
60	T	Dibromochloromethane	50.000	55.105	-10.2	101	0.00
61	T	1,2-Dibromoethane	50.000	54.548	-9.1	102	0.00
62	S	4-Bromofluorobenzene	50.000	52.971	-5.9	103	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64	T	Tetrachloroethene	50.000	52.585	-5.2	102	0.00
65	PM	Chlorobenzene	50.000	53.555	-7.1	101	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	55.381	-10.8	104	0.00
67	C	Ethyl Benzene	50.000	55.563	-11.1#	102	0.00
68	T	m/p-Xylenes	100.000	113.748	-13.7	102	0.00
69	T	o-Xylene	50.000	58.032	-16.1	102	0.00
70	T	Styrene	50.000	58.136	-16.3	102	0.00
71	P	Bromoform	50.000	57.258	-14.5	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73	T	Isopropylbenzene	50.000	53.604	-7.2	101	0.00
74	T	N-amyl acetate	50.000	55.118	-10.2	105	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.398	-4.8	104	0.00
76	T	1,2,3-Trichloropropane	50.000	50.475	-1.0	94	0.00
77	T	Bromobenzene	50.000	51.676	-3.4	103	0.00
78	T	n-propylbenzene	50.000	55.188	-10.4	102	0.00
79	T	2-Chlorotoluene	50.000	52.898	-5.8	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.101	-12.2	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.939	-5.9	102	0.00
82	T	4-Chlorotoluene	50.000	53.455	-6.9	103	0.00
83	T	tert-Butylbenzene	50.000	53.903	-7.8	101	0.00
84	T	1,2,4-Trimethylbenzene	50.000	56.199	-12.4	103	0.00
85	T	sec-Butylbenzene	50.000	55.556	-11.1	101	0.00
86	T	p-Isopropyltoluene	50.000	56.614	-13.2	101	0.00
87	T	1,3-Dichlorobenzene	50.000	51.830	-3.7	103	0.00
88	T	1,4-Dichlorobenzene	50.000	51.298	-2.6	103	0.00
89	T	n-Butylbenzene	50.000	54.671	-9.3	100	0.00
90	T	Hexachloroethane	50.000	50.795	-1.6	101	0.00
91	T	1,2-Dichlorobenzene	50.000	51.082	-2.2	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.125	-4.3	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.311	-4.6	96	0.00
94	T	Hexachlorobutadiene	50.000	46.368	7.3	100	0.00
95	T	Naphthalene	50.000	52.602	-5.2	97	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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)
96 T	1,2,3-Trichlorobenzene	50.000	50.853	-1.7	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: MSVOA_N Calibration Date/Time: 10/22/2024 12:50

Lab File ID: VN084450.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.654	0.602		-7.95	20
1,1-Dichloroethene	0.563	0.575		2.13	20
2-Butanone	0.434	0.422		-2.77	20
Carbon Tetrachloride	0.525	0.551		4.95	20
Chloroform	1.175	1.210		2.98	20
Benzene	1.492	1.558		4.42	20
1,2-Dichloroethane	0.506	0.521		2.96	20
Trichloroethene	0.348	0.369		6.03	20
Tetrachloroethene	0.348	0.359		3.16	20
Chlorobenzene	1.109	1.161	0.3	4.69	20
1,2-Dichloroethane-d4	0.741	0.701		-5.4	20
Dibromofluoromethane	0.330	0.335		1.51	20
Toluene-d8	1.213	1.224		0.91	20
4-Bromofluorobenzene	0.442	0.456		3.17	20

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\VN102224\
Data File : VN084450.D
Acq On : 22 Oct 2024 12:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 23 01:25:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	171974	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	293014	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	264421	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131065	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120579	47.289	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.580%			
35) Dibromofluoromethane	8.165	113	98248	50.860	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.720%			
50) Toluene-d8	10.565	98	358680	50.468	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.940%			
62) 4-Bromofluorobenzene	12.847	95	133654	51.620	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	82254	40.436	ug/l	95
3) Chloromethane	2.359	50	100723	43.365	ug/l	97
4) Vinyl Chloride	2.512	62	103481	45.994	ug/l	99
5) Bromomethane	2.942	94	65682	44.260	ug/l	98
6) Chloroethane	3.112	64	66444	41.236	ug/l	96
7) Trichlorofluoromethane	3.495	101	172264	49.170	ug/l	97
8) Diethyl Ether	3.959	74	63668	48.999	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	99832	49.731	ug/l	98
10) Methyl Iodide	4.583	142	131239	50.766	ug/l	99
11) Tert butyl alcohol	5.524	59	90656	215.618	ug/l	100
12) 1,1-Dichloroethene	4.342	96	98864	51.058	ug/l	98
13) Acrolein	4.183	56	109819	227.519	ug/l	100
14) Allyl chloride	5.024	41	173481	51.588	ug/l	90
15) Acrylonitrile	5.718	53	265121	249.703	ug/l	98
16) Acetone	4.424	43	261105	238.375	ug/l	95
17) Carbon Disulfide	4.706	76	280239	45.712	ug/l	100
18) Methyl Acetate	5.024	43	115965	48.574	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	335397	51.320	ug/l	99
20) Methylene Chloride	5.271	84	110864	49.790	ug/l	92
21) trans-1,2-Dichloroethene	5.783	96	105749	52.129	ug/l	99
22) Diisopropyl ether	6.671	45	351223	50.493	ug/l	98
23) Vinyl Acetate	6.600	43	1340680	259.866	ug/l	99
24) 1,1-Dichloroethane	6.565	63	198970	51.151	ug/l	99
25) 2-Butanone	7.483	43	362565	243.024	ug/l	99
26) 2,2-Dichloropropane	7.488	77	179346	51.135	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	125320	51.122	ug/l	98
28) Bromochloromethane	7.812	49	83517	48.121	ug/l	98
29) Tetrahydrofuran	7.835	42	216232	234.864	ug/l	95
30) Chloroform	7.965	83	208060	51.493	ug/l	100
31) Cyclohexane	8.259	56	172015	45.545	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	186384	51.361	ug/l	98
36) 1,1-Dichloropropene	8.371	75	146576	52.238	ug/l	100
37) Ethyl Acetate	7.559	43	137478	47.758	ug/l	98
38) Carbon Tetrachloride	8.359	117	161513	52.474	ug/l	100
39) Methylcyclohexane	9.600	83	169802	54.374	ug/l	96
40) Benzene	8.606	78	456615	52.231	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084450.D
Acq On : 22 Oct 2024 12:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 23 01:25:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	80630	51.594	ug/l		98
42) 1,2-Dichloroethane	8.671	62	152654	51.507	ug/l		100
43) Isopropyl Acetate	8.688	43	237917	42.196	ug/l		98
44) Trichloroethene	9.353	130	108146	52.965	ug/l		97
45) 1,2-Dichloropropane	9.624	63	111202	53.771	ug/l		99
46) Dibromomethane	9.706	93	76980	55.158	ug/l		97
47) Bromodichloromethane	9.888	83	165466	53.365	ug/l		99
48) Methyl methacrylate	9.682	41	115233	51.341	ug/l		98
49) 1,4-Dioxane	9.694	88	42211	1021.535	ug/l		98
51) 4-Methyl-2-Pentanone	10.441	43	714612	260.776	ug/l		99
52) Toluene	10.629	92	287688	53.965	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	169316	53.570	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	184315	54.216	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	104956	54.918	ug/l		96
56) Ethyl methacrylate	10.876	69	172502	54.855	ug/l		98
57) 1,3-Dichloropropane	11.165	76	180331	52.807	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	399737	274.020	ug/l		98
59) 2-Hexanone	11.194	43	527091	257.349	ug/l		97
60) Dibromochloromethane	11.359	129	124650	55.202	ug/l		99
61) 1,2-Dibromoethane	11.471	107	104654	52.700	ug/l		99
64) Tetrachloroethene	11.100	164	95043	51.605	ug/l		98
65) Chlorobenzene	11.888	112	306935	52.353	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.959	131	106232	52.606	ug/l		99
67) Ethyl Benzene	11.965	91	546876	52.745	ug/l		100
68) m/p-Xylenes	12.070	106	417795	108.934	ug/l		100
69) o-Xylene	12.400	106	200130	55.153	ug/l		98
70) Styrene	12.412	104	345696	56.245	ug/l		99
71) Bromoform	12.576	173	80848	54.380	ug/l	#	99
73) Isopropylbenzene	12.694	105	516056	51.598	ug/l		100
74) N-amyl acetate	12.494	43	216664	47.839	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	148124	49.254	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	122497m	45.781	ug/l		
77) Bromobenzene	12.976	156	123066	51.012	ug/l		96
78) n-propylbenzene	13.035	91	621310	53.618	ug/l		99
79) 2-Chlorotoluene	13.123	91	377092	50.998	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	439162	53.830	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	53008	47.495	ug/l		99
82) 4-Chlorotoluene	13.217	91	384836	51.701	ug/l		99
83) tert-Butylbenzene	13.435	119	374897	51.702	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	444051	54.030	ug/l		100
85) sec-Butylbenzene	13.612	105	524213	54.176	ug/l		99
86) p-Isopropyltoluene	13.729	119	442063	55.249	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	233492	51.592	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	233732	51.140	ug/l		99
89) n-Butylbenzene	14.053	91	383538	52.864	ug/l		99
90) Hexachloroethane	14.329	117	80426	49.520	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	223911	50.456	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28998	46.726	ug/l		96
93) 1,2,4-Trichlorobenzene	15.394	180	119635	54.732	ug/l		99
94) Hexachlorobutadiene	15.500	225	54127	49.655	ug/l		97
95) Naphthalene	15.641	128	369388	50.976	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	116662	53.319	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084450.D
Acq On : 22 Oct 2024 12:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 23 01:25:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

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

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

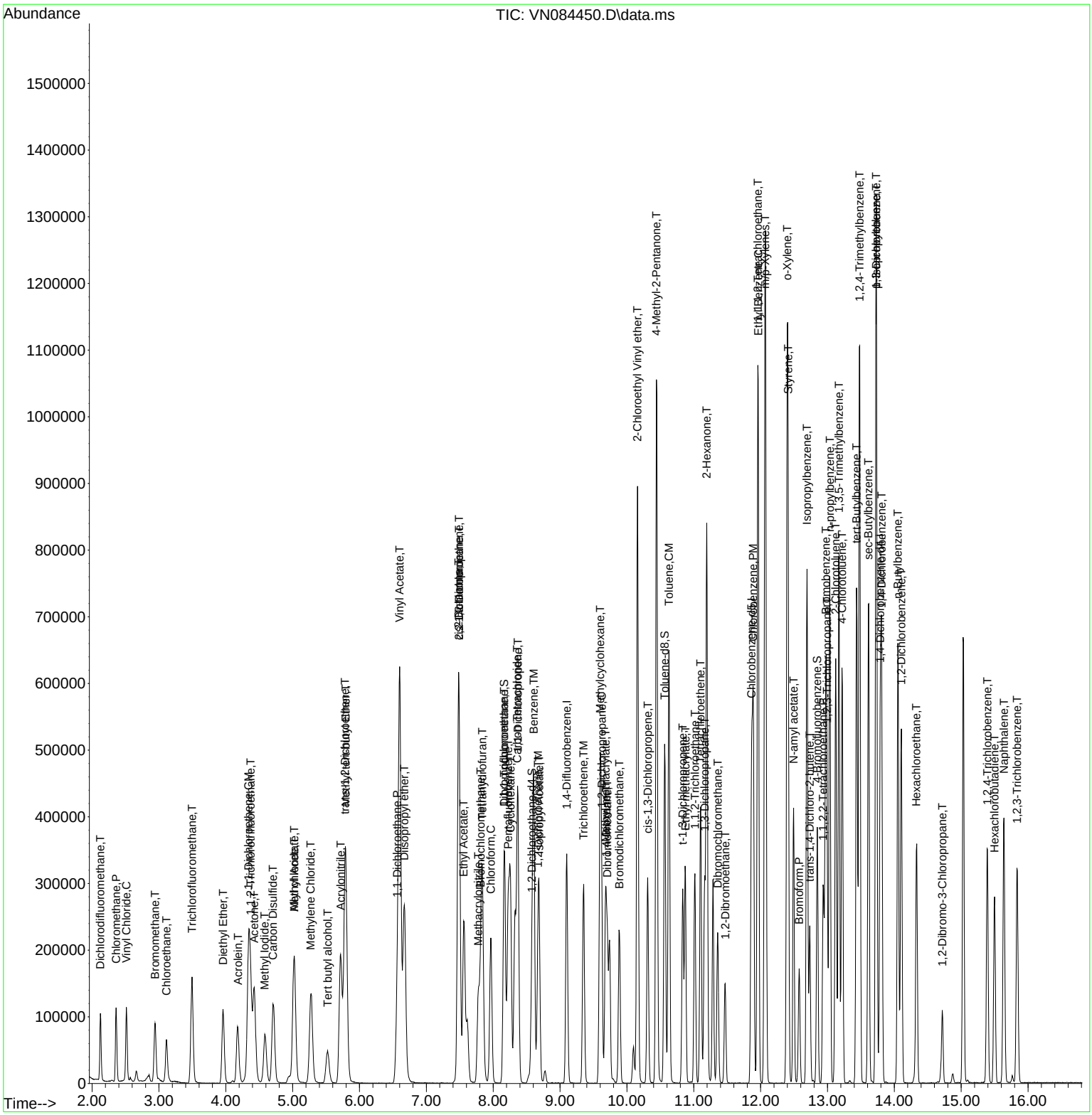
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084450.D
Acq On : 22 Oct 2024 12:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 23 01:25:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024



Sample Results: **VN084450.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084450.D
Acq On : 22 Oct 2024 12:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 23 01:25:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	0.591	0.478	19.1	76	0.00
3	P	Chloromethane	0.675	0.586	13.2	86	0.00
4	C	Vinyl Chloride	0.654	0.602	8.0#	88	0.00
5	T	Bromomethane	0.431	0.382	11.4	87	-0.01
6	T	Chloroethane	0.468	0.386	17.5	90	0.00
7	T	Trichlorofluoromethane	1.019	1.002	1.7	93	0.00
8	T	Diethyl Ether	0.378	0.370	2.1	93	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.584	0.581	0.5	96	0.00
10	T	Methyl Iodide	0.752	0.763	-1.5	93	-0.01
11	T	Tert butyl alcohol	0.122	0.105	13.9	84	0.00
12	CM	1,1-Dichloroethene	0.563	0.575	-2.1#	96	0.00
13	T	Acrolein	0.140	0.128	8.6	88	0.00
14	T	Allyl chloride	0.978	1.009	-3.2	99	0.00
15	T	Acrylonitrile	0.309	0.308	0.3	96	0.00
16	T	Acetone	0.318	0.304	4.4	87	0.00
17	T	Carbon Disulfide	1.782	1.630	8.5	93	0.00
18	T	Methyl Acetate	0.694	0.674	2.9	94	0.00
19	T	Methyl tert-butyl Ether	1.900	1.950	-2.6	94	0.00
20	T	Methylene Chloride	0.647	0.645	0.3	96	0.00
21	T	trans-1,2-Dichloroethene	0.590	0.615	-4.2	97	0.00
22	T	Diisopropyl ether	2.022	2.042	-1.0	93	0.00
23	T	Vinyl Acetate	1.500	1.559	-3.9	93	0.00
24	P	1,1-Dichloroethane	1.131	1.157	-2.3	95	0.00
25	T	2-Butanone	0.434	0.422	2.8	91	0.00
26	T	2,2-Dichloropropane	1.020	1.043	-2.3	95	0.00
27	T	cis-1,2-Dichloroethene	0.713	0.729	-2.2	96	0.00
28	T	Bromochloromethane	0.505	0.486	3.8	96	0.00
29	T	Tetrahydrofuran	0.268	0.251	6.3	87	0.00
30	C	Chloroform	1.175	1.210	-3.0#	99	0.00
31	T	Cyclohexane	1.098	1.000	8.9	92	0.00
32	T	1,1,1-Trichloroethane	1.055	1.084	-2.7	96	0.00
33	S	1,2-Dichloroethane-d4	0.741	0.701	5.4	93	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
35	S	Dibromofluoromethane	0.330	0.335	-1.5	100	0.00
36	T	1,1-Dichloropropene	0.479	0.500	-4.4	95	0.00
37	T	Ethyl Acetate	0.491	0.469	4.5	90	0.00
38	T	Carbon Tetrachloride	0.525	0.551	-5.0	97	0.00
39	T	Methylcyclohexane	0.533	0.580	-8.8	96	0.00
40	TM	Benzene	1.492	1.558	-4.4	97	0.00
41	T	Methacrylonitrile	0.267	0.275	-3.0	92	0.00
42	TM	1,2-Dichloroethane	0.506	0.521	-3.0	95	0.00
43	T	Isopropyl Acetate	0.962	0.812	15.6	87	0.00
44	TM	Trichloroethene	0.348	0.369	-6.0	98	0.00
45	C	1,2-Dichloropropane	0.353	0.380	-7.6#	97	0.00
46	T	Dibromomethane	0.238	0.263	-10.5	97	0.00
47	T	Bromodichloromethane	0.529	0.565	-6.8	98	0.00
48	T	Methyl methacrylate	0.383	0.393	-2.6	91	0.00

Sample Results: **VN084450.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084450.D
Acq On : 22 Oct 2024 12:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 23 01:25:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	1,4-Dioxane	0.007	0.007	0.0	95	0.00
50	S	Toluene-d8	1.213	1.224	-0.9	95	0.00
51	T	4-Methyl-2-Pentanone	0.468	0.488	-4.3	92	0.00
52	CM	Toluene	0.910	0.982	-7.9#	97	0.00
53	T	t-1,3-Dichloropropene	0.539	0.578	-7.2	94	0.00
54	T	cis-1,3-Dichloropropene	0.580	0.629	-8.4	95	0.00
55	T	1,1,2-Trichloroethane	0.326	0.358	-9.8	99	0.00
56	T	Ethyl methacrylate	0.537	0.589	-9.7	94	0.00
57	T	1,3-Dichloropropane	0.583	0.615	-5.5	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.249	0.273	-9.6	94	0.00
59	T	2-Hexanone	0.349	0.360	-3.2	90	0.00
60	T	Dibromochloromethane	0.385	0.425	-10.4	98	0.00
61	T	1,2-Dibromoethane	0.339	0.357	-5.3	96	0.00
62	S	4-Bromofluorobenzene	0.442	0.456	-3.2	97	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
64	T	Tetrachloroethene	0.348	0.359	-3.2	100	0.00
65	PM	Chlorobenzene	1.109	1.161	-4.7	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.382	0.402	-5.2	99	0.00
67	C	Ethyl Benzene	1.961	2.068	-5.5#	97	0.00
68	T	m/p-Xylenes	0.725	0.790	-9.0	98	0.00
69	T	o-Xylene	0.686	0.757	-10.3	98	0.00
70	T	Styrene	1.162	1.307	-12.5	100	0.00
71	P	Bromoform	0.281	0.306	-8.9	97	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.815	3.937	-3.2	98	0.00
74	T	N-amyl acetate	1.728	1.653	4.3	91	0.00
75	P	1,1,2,2-Tetrachloroethane	1.147	1.130	1.5	98	0.00
76	T	1,2,3-Trichloropropane	1.021	0.935	8.4	85	0.00
77	T	Bromobenzene	0.920	0.939	-2.1	102	0.00
78	T	n-propylbenzene	4.421	4.740	-7.2	99	0.00
79	T	2-Chlorotoluene	2.821	2.877	-2.0	98	0.00
80	T	1,3,5-Trimethylbenzene	3.112	3.351	-7.7	99	0.00
81	T	trans-1,4-Dichloro-2-butene	0.426	0.404	5.2	92	0.00
82	T	4-Chlorotoluene	2.840	2.936	-3.4	99	0.00
83	T	tert-Butylbenzene	2.766	2.860	-3.4	97	0.00
84	T	1,2,4-Trimethylbenzene	3.135	3.388	-8.1	99	0.00
85	T	sec-Butylbenzene	3.691	4.000	-8.4	99	0.00
86	T	p-Isopropyltoluene	3.052	3.373	-10.5	99	0.00
87	T	1,3-Dichlorobenzene	1.727	1.781	-3.1	102	0.00
88	T	1,4-Dichlorobenzene	1.744	1.783	-2.2	103	0.00
89	T	n-Butylbenzene	2.768	2.926	-5.7	97	0.00
90	T	Hexachloroethane	0.620	0.614	1.0	99	0.00
91	T	1,2-Dichlorobenzene	1.693	1.708	-0.9	103	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.221	6.8	95	0.00
93	T	1,2,4-Trichlorobenzene	0.834	0.913	-9.5	100	0.00
94	T	Hexachlorobutadiene	0.416	0.413	0.7	107	0.00
95	T	Naphthalene	2.764	2.818	-2.0	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084450.D
Acq On : 22 Oct 2024 12:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 23 01:25:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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)
96 T	1,2,3-Trichlorobenzene	0.835	0.890	-6.6	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VN084450.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084450.D
Acq On : 22 Oct 2024 12:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 23 01:25:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	50.000	40.436	19.1	76	0.00
3	P	Chloromethane	50.000	43.365	13.3	86	0.00
4	C	Vinyl Chloride	50.000	45.994	8.0#	88	0.00
5	T	Bromomethane	50.000	44.260	11.5	87	-0.01
6	T	Chloroethane	50.000	41.236	17.5	90	0.00
7	T	Trichlorofluoromethane	50.000	49.170	1.7	93	0.00
8	T	Diethyl Ether	50.000	48.999	2.0	93	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.731	0.5	96	0.00
10	T	Methyl Iodide	50.000	50.766	-1.5	93	-0.01
11	T	Tert butyl alcohol	250.000	215.618	13.8	84	0.00
12	CM	1,1-Dichloroethene	50.000	51.058	-2.1#	96	0.00
13	T	Acrolein	250.000	227.519	9.0	88	0.00
14	T	Allyl chloride	50.000	51.588	-3.2	99	0.00
15	T	Acrylonitrile	250.000	249.703	0.1	96	0.00
16	T	Acetone	250.000	238.375	4.7	87	0.00
17	T	Carbon Disulfide	50.000	45.712	8.6	93	0.00
18	T	Methyl Acetate	50.000	48.574	2.9	94	0.00
19	T	Methyl tert-butyl Ether	50.000	51.320	-2.6	94	0.00
20	T	Methylene Chloride	50.000	49.790	0.4	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.129	-4.3	97	0.00
22	T	Diisopropyl ether	50.000	50.493	-1.0	93	0.00
23	T	Vinyl Acetate	250.000	259.866	-3.9	93	0.00
24	P	1,1-Dichloroethane	50.000	51.151	-2.3	95	0.00
25	T	2-Butanone	250.000	243.024	2.8	91	0.00
26	T	2,2-Dichloropropane	50.000	51.135	-2.3	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.122	-2.2	96	0.00
28	T	Bromochloromethane	50.000	48.121	3.8	96	0.00
29	T	Tetrahydrofuran	250.000	234.864	6.1	87	0.00
30	C	Chloroform	50.000	51.493	-3.0#	99	0.00
31	T	Cyclohexane	50.000	45.545	8.9	92	0.00
32	T	1,1,1-Trichloroethane	50.000	51.361	-2.7	96	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.289	5.4	93	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	96	0.00
35	S	Dibromofluoromethane	50.000	50.860	-1.7	100	0.00
36	T	1,1-Dichloropropene	50.000	52.238	-4.5	95	0.00
37	T	Ethyl Acetate	50.000	47.758	4.5	90	0.00
38	T	Carbon Tetrachloride	50.000	52.474	-4.9	97	0.00
39	T	Methylcyclohexane	50.000	54.374	-8.7	96	0.00
40	TM	Benzene	50.000	52.231	-4.5	97	0.00
41	T	Methacrylonitrile	50.000	51.594	-3.2	92	0.00
42	TM	1,2-Dichloroethane	50.000	51.507	-3.0	95	0.00
43	T	Isopropyl Acetate	50.000	42.196	15.6	87	0.00
44	TM	Trichloroethene	50.000	52.965	-5.9	98	0.00
45	C	1,2-Dichloropropane	50.000	53.771	-7.5#	97	0.00
46	T	Dibromomethane	50.000	55.158	-10.3	97	0.00
47	T	Bromodichloromethane	50.000	53.365	-6.7	98	0.00
48	T	Methyl methacrylate	50.000	51.341	-2.7	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084450.D
Acq On : 22 Oct 2024 12:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 23 01:25:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	1,4-Dioxane	1000.000	1021.535	-2.2	95	0.00
50	S	Toluene-d8	50.000	50.468	-0.9	95	0.00
51	T	4-Methyl-2-Pentanone	250.000	260.776	-4.3	92	0.00
52	CM	Toluene	50.000	53.965	-7.9#	97	0.00
53	T	t-1,3-Dichloropropene	50.000	53.570	-7.1	94	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.216	-8.4	95	0.00
55	T	1,1,2-Trichloroethane	50.000	54.918	-9.8	99	0.00
56	T	Ethyl methacrylate	50.000	54.855	-9.7	94	0.00
57	T	1,3-Dichloropropane	50.000	52.807	-5.6	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	274.020	-9.6	94	0.00
59	T	2-Hexanone	250.000	257.349	-2.9	90	0.00
60	T	Dibromochloromethane	50.000	55.202	-10.4	98	0.00
61	T	1,2-Dibromoethane	50.000	52.700	-5.4	96	0.00
62	S	4-Bromofluorobenzene	50.000	51.620	-3.2	97	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	100	0.00
64	T	Tetrachloroethene	50.000	51.605	-3.2	100	0.00
65	PM	Chlorobenzene	50.000	52.353	-4.7	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.606	-5.2	99	0.00
67	C	Ethyl Benzene	50.000	52.745	-5.5#	97	0.00
68	T	m/p-Xylenes	100.000	108.934	-8.9	98	0.00
69	T	o-Xylene	50.000	55.153	-10.3	98	0.00
70	T	Styrene	50.000	56.245	-12.5	100	0.00
71	P	Bromoform	50.000	54.380	-8.8	97	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	51.598	-3.2	98	0.00
74	T	N-amyl acetate	50.000	47.839	4.3	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.254	1.5	98	0.00
76	T	1,2,3-Trichloropropane	50.000	45.781	8.4	85	0.00
77	T	Bromobenzene	50.000	51.012	-2.0	102	0.00
78	T	n-propylbenzene	50.000	53.618	-7.2	99	0.00
79	T	2-Chlorotoluene	50.000	50.998	-2.0	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.830	-7.7	99	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.495	5.0	92	0.00
82	T	4-Chlorotoluene	50.000	51.701	-3.4	99	0.00
83	T	tert-Butylbenzene	50.000	51.702	-3.4	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.030	-8.1	99	0.00
85	T	sec-Butylbenzene	50.000	54.176	-8.4	99	0.00
86	T	p-Isopropyltoluene	50.000	55.249	-10.5	99	0.00
87	T	1,3-Dichlorobenzene	50.000	51.592	-3.2	102	0.00
88	T	1,4-Dichlorobenzene	50.000	51.140	-2.3	103	0.00
89	T	n-Butylbenzene	50.000	52.864	-5.7	97	0.00
90	T	Hexachloroethane	50.000	49.520	1.0	99	0.00
91	T	1,2-Dichlorobenzene	50.000	50.456	-0.9	103	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.726	6.5	95	0.00
93	T	1,2,4-Trichlorobenzene	50.000	54.732	-9.5	100	0.00
94	T	Hexachlorobutadiene	50.000	49.655	0.7	107	0.00
95	T	Naphthalene	50.000	50.976	-2.0	94	0.00

Sample Results: **VN084450.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084450.D
Acq On : 22 Oct 2024 12:50
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 23 01:25:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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)
96 T	1,2,3-Trichlorobenzene	50.000	53.319	-6.6	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

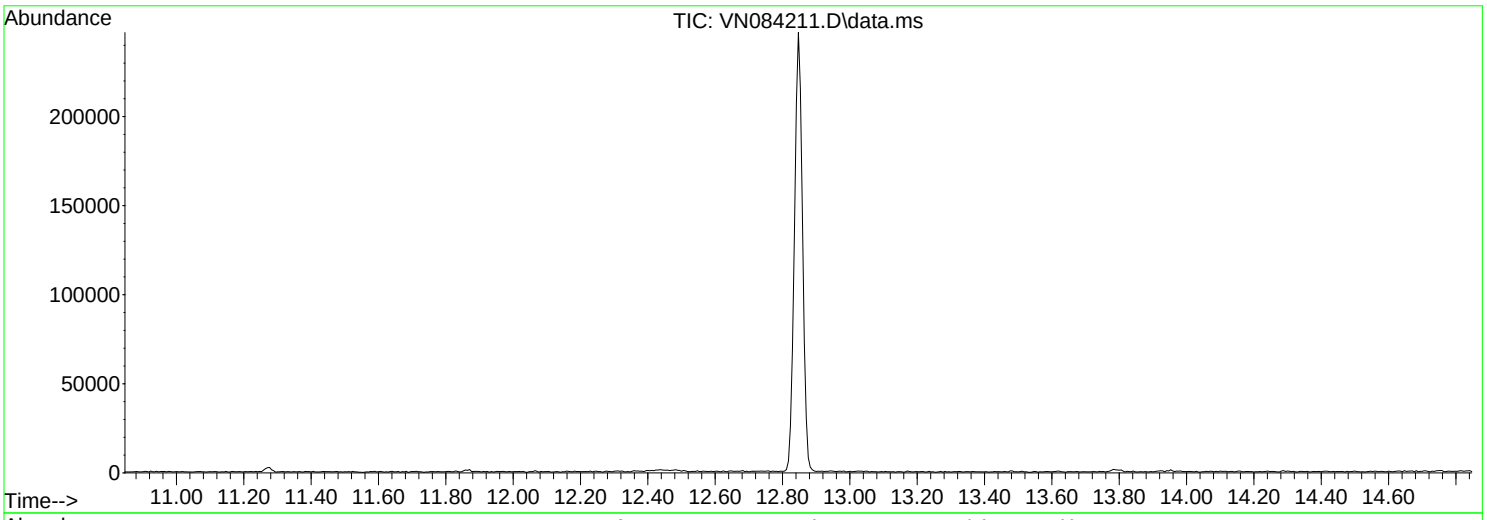
Sample Results: **VN084211.D**

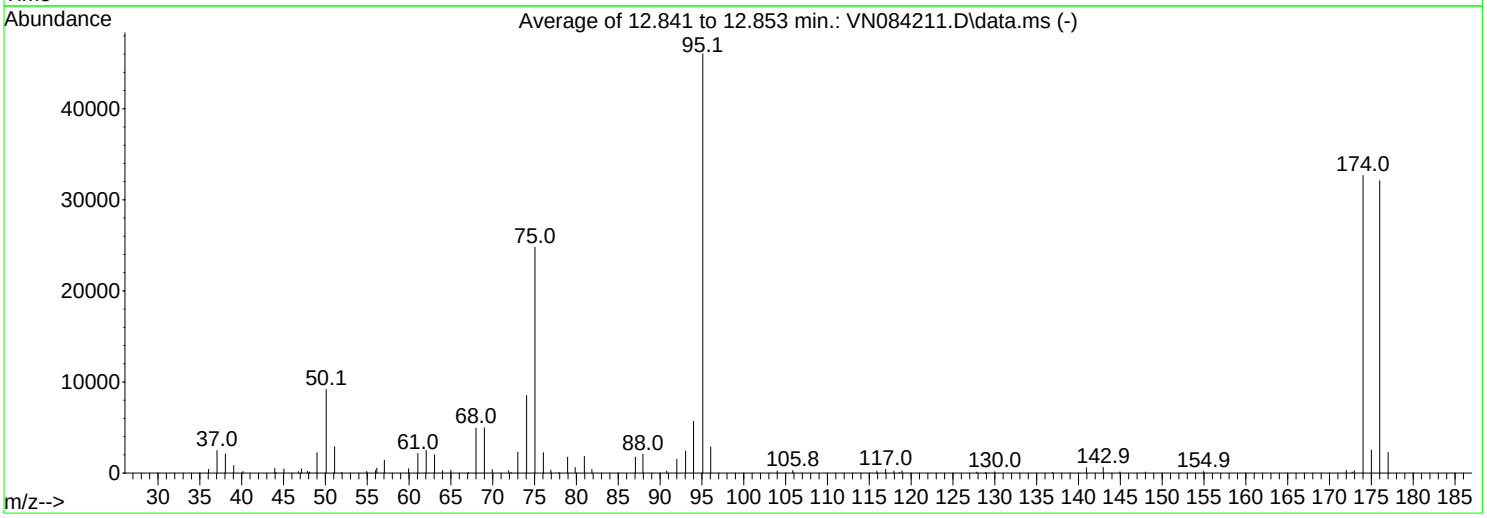
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084211.D
Acq On : 30 Sep 2024 09:24
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Title : SW846 8260
Last Update : Tue Oct 01 07:11:01 2024





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	9177	PASS
75	95	30	60	53.9	24795	PASS
95	95	100	100	100.0	46040	PASS
96	95	5	9	6.3	2879	PASS
173	174	0.00	2	0.8	259	PASS
174	95	50	100	71.0	32685	PASS
175	174	5	9	7.8	2541	PASS
176	174	95	101	98.2	32104	PASS
177	176	5	9	7.0	2260	PASS

Average of 12.841 to 12.853 min.: VN084211.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	419	48.10	111	62.05	2483	74.05	8516
37.05	2481	49.00	2237	63.05	2007	75.05	24795
38.05	2101	50.10	9177	64.00	258	76.05	2255
39.05	836	51.10	2891	65.00	322	76.95	323
40.15	179	51.90	55	67.10	55	77.90	67
43.95	503	54.95	179	68.00	4945	78.95	1743
44.10	59	56.00	274	69.00	4971	79.85	625
45.05	462	56.15	545	69.95	382	80.95	1822
46.80	174	57.05	1406	71.90	264	81.85	418
47.15	455	59.95	485	72.20	67	87.05	1750
47.85	183	61.05	2172	73.00	2306	87.95	2078

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084211.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.80	219	118.60	60	172.00	305		
92.00	1521	118.90	261	172.70	115		
93.05	2424	127.85	111	172.95	259		
94.00	5677	128.90	54	174.00	32685		
95.10	46040	130.00	156	175.00	2541		
96.05	2879	136.90	63	176.00	32104		
104.00	245	140.95	584	177.00	2260		
105.85	277	142.95	633				
115.90	223	144.95	142				
116.95	410	148.00	113				
117.95	228	154.95	185				

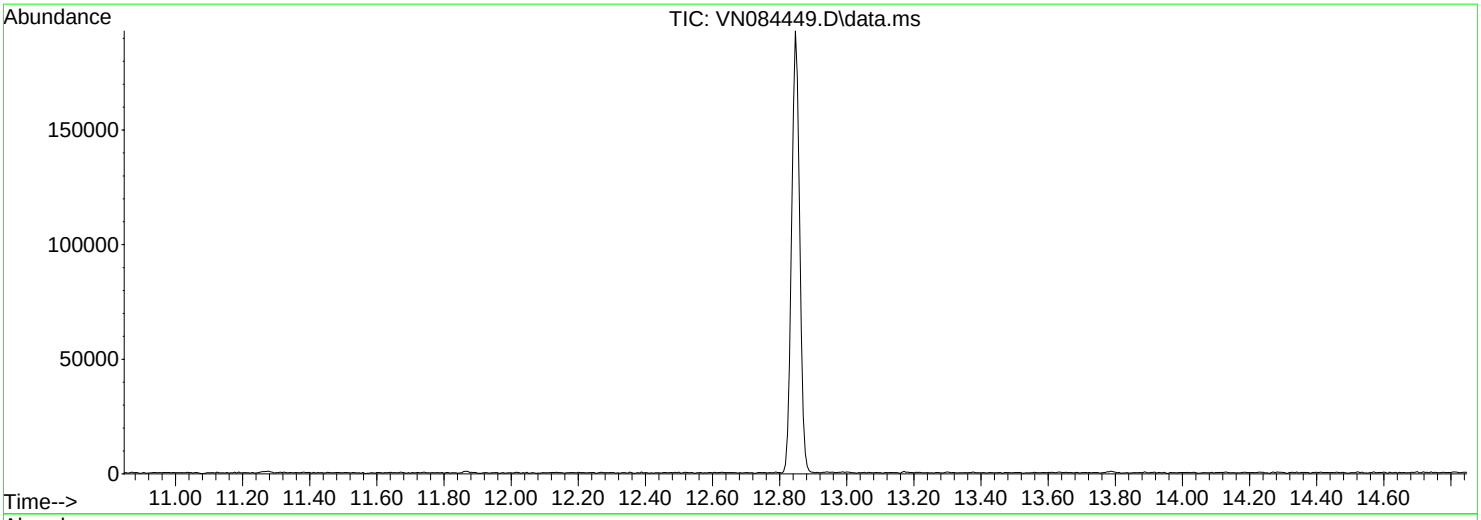
Sample Results: **VN084449.D**

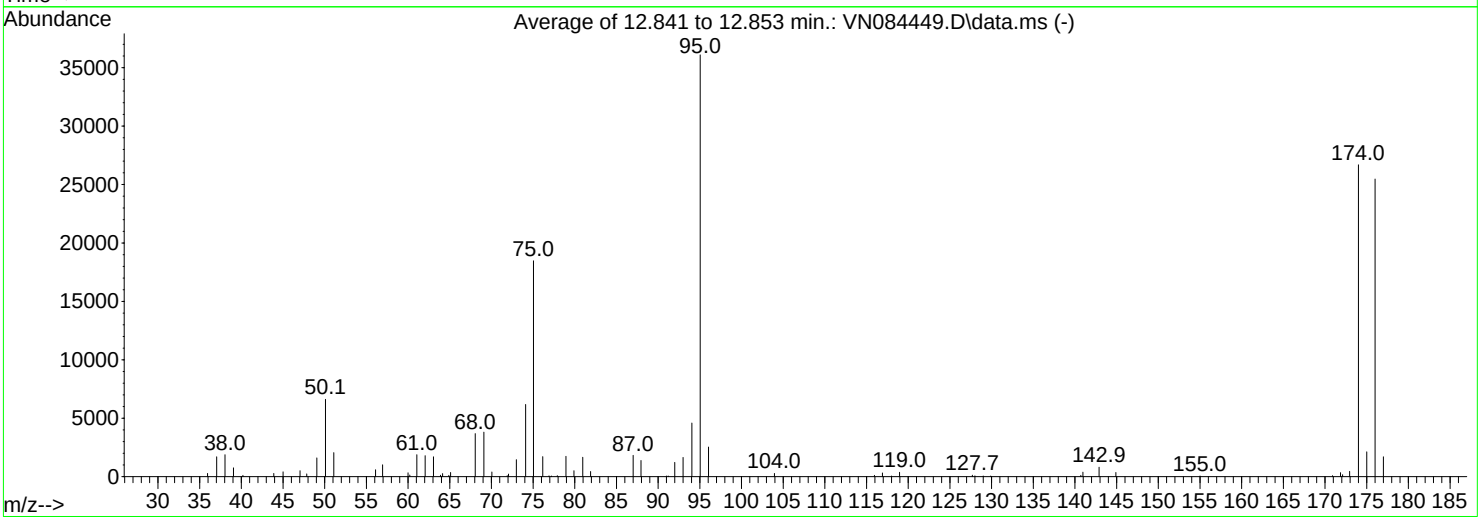
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084449.D
Acq On : 22 Oct 2024 08:33
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Title : SW846 8260
Last Update : Tue Oct 01 07:11:01 2024





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	6621	PASS
75	95	30	60	51.2	18475	PASS
95	95	100	100	100.0	36101	PASS
96	95	5	9	7.0	2529	PASS
173	174	0.00	2	1.7	450	PASS
174	95	50	100	73.9	26696	PASS
175	174	5	9	7.9	2121	PASS
176	174	95	101	95.4	25467	PASS
177	176	5	9	6.7	1699	PASS

Average of 12.841 to 12.853 min.: VN084449.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	269	51.10	2048	65.10	358	77.20	6
37.05	1703	56.10	596	68.05	3681	77.90	8
38.05	1879	56.95	1016	69.10	3809	78.95	174
39.05	753	60.00	334	70.05	396	79.90	50
40.20	114	60.20	138	71.90	89	80.95	1659
43.90	270	61.05	1873	72.05	223	81.90	436
45.00	419	62.05	1793	73.00	1459	87.00	1816
47.05	510	63.05	1703	74.10	6180	87.95	1391
47.85	233	63.90	118	75.05	18475	91.00	54
49.05	1602	64.15	262	76.15	1707	91.20	56
50.10	6621	64.90	116	76.90	73	92.00	1224

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084449.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	1646	129.00	52	174.00	26696		
94.05	4594	129.90	60	175.00	2121		
95.05	36101	140.70	114	176.00	25467		
96.05	2529	140.95	391	177.00	1699		
103.95	278	142.90	812				
115.95	112	144.90	355				
116.90	314	155.00	51				
118.00	63	170.90	78				
118.95	376	171.85	349				
127.70	122	172.10	170				
128.00	74	172.95	450				

Raw Data: **VN084452.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1022WBL01	SDG No.:	P4460
Lab Sample ID:	VN1022WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084452.D	1		10/22/24 13:38	VN102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.7		70 (74) - 130 (125)	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	49.3		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		70 (77) - 130 (121)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	196000	8.224			
540-36-3	1,4-Difluorobenzene	326000	9.1			
3114-55-4	Chlorobenzene-d5	277000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	107000	13.788			

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\VN102224\
Data File : VN084452.D
Acq On : 22 Oct 2024 13:38
Operator : JC\MD
Sample : VN1022WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Quant Time: Oct 23 01:26:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

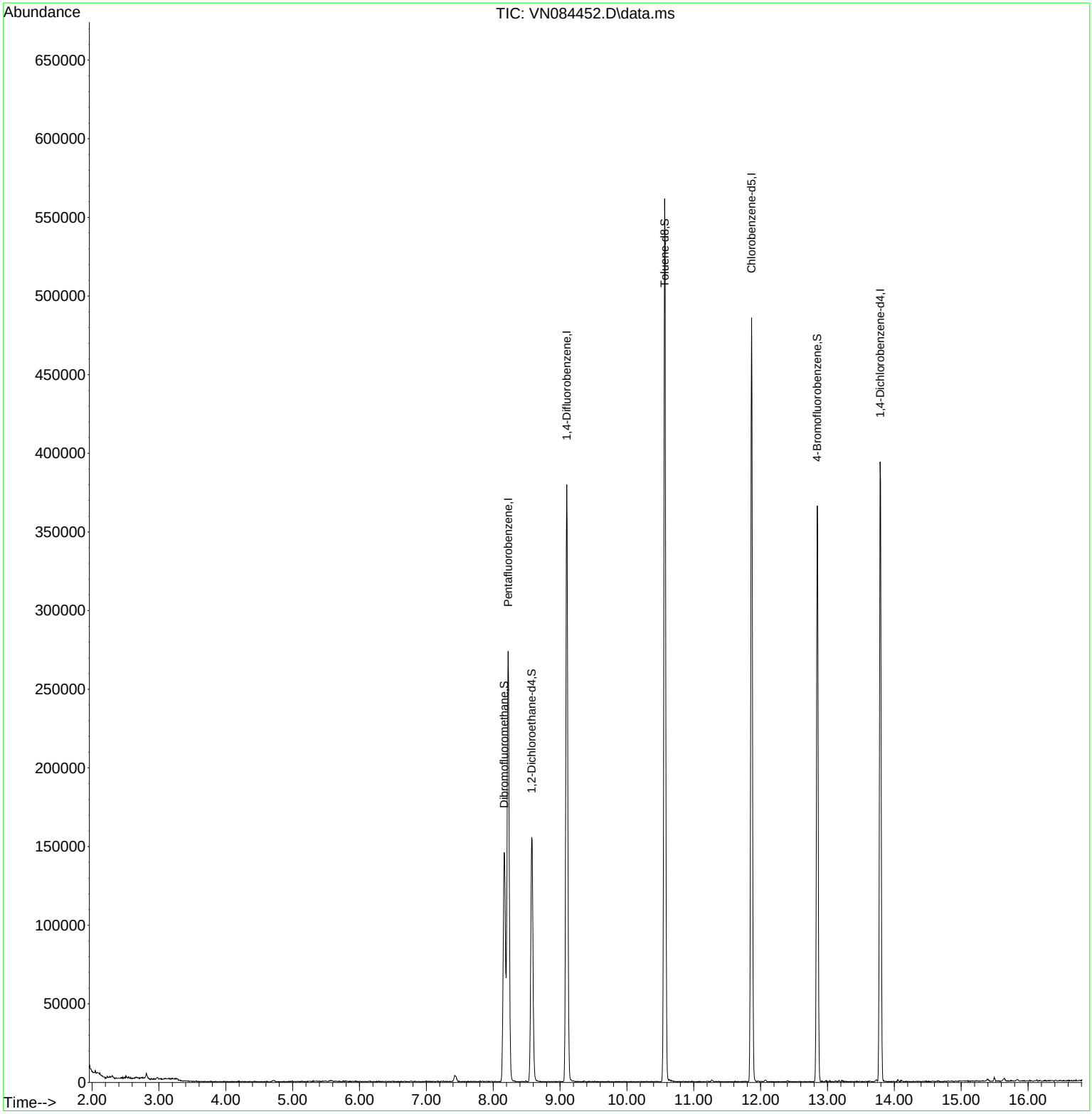
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	195991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	325943	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	276681	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	106919	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132772	45.690	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.380%		
35) Dibromofluoromethane	8.165	113	107332	49.949	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.900%		
50) Toluene-d8	10.565	98	389764	49.301	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.600%		
62) 4-Bromofluorobenzene	12.847	95	129594	44.996	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	90.000%		
Target Compounds						Qvalue

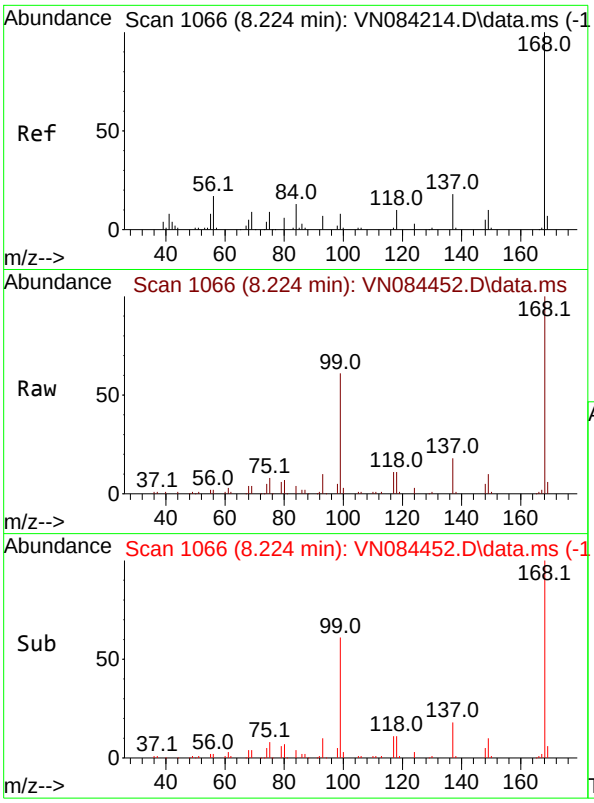
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084452.D
Acq On : 22 Oct 2024 13:38
Operator : JC\MD
Sample : VN1022WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Quant Time: Oct 23 01:26:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



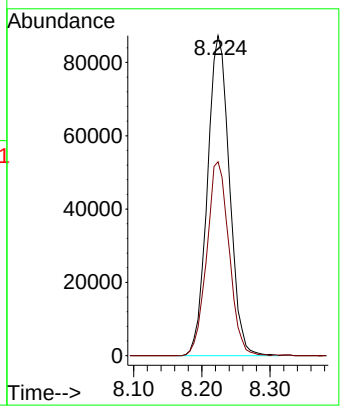


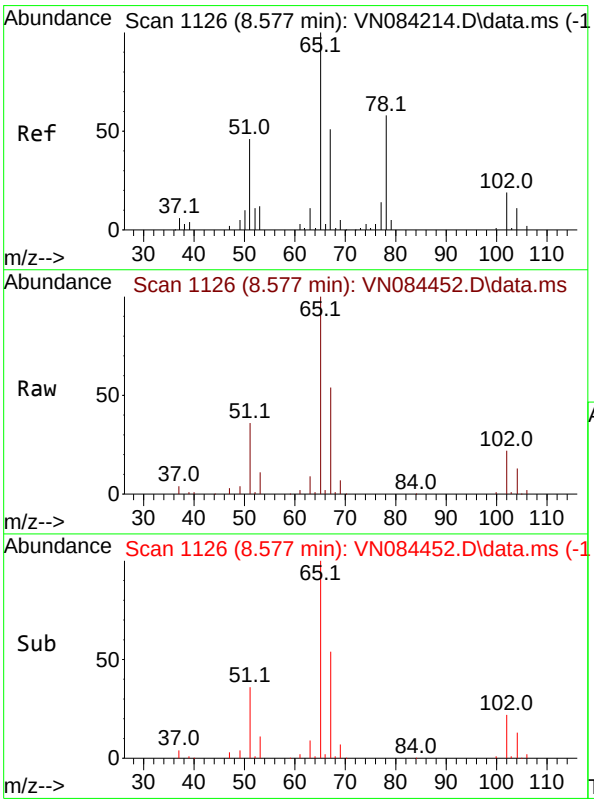
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Tgt Ion:168 Resp: 195991

Ion	Ratio	Lower	Upper
168	100		
99	60.6	54.2	81.2

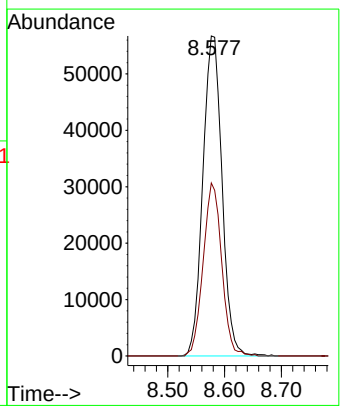


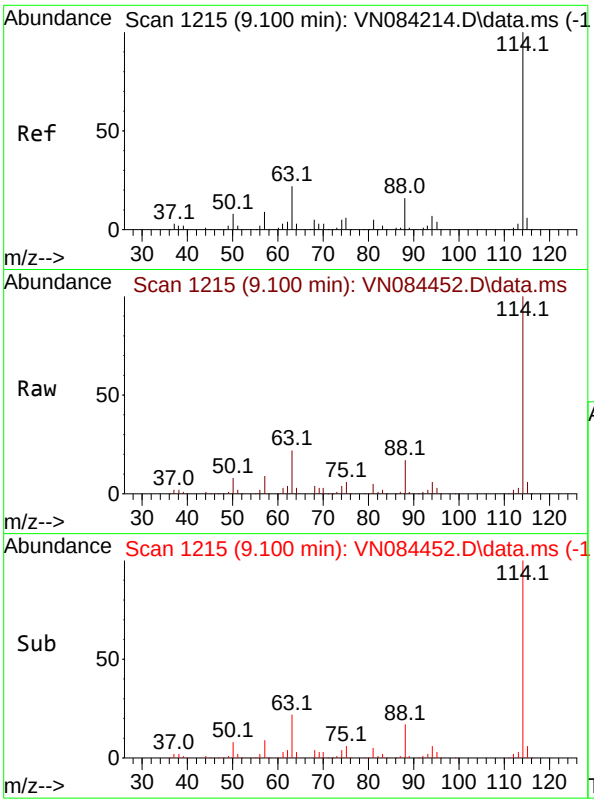


#33
1,2-Dichloroethane-d4
Concen: 45.690 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Tgt Ion: 65 Resp: 132772

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	102.0



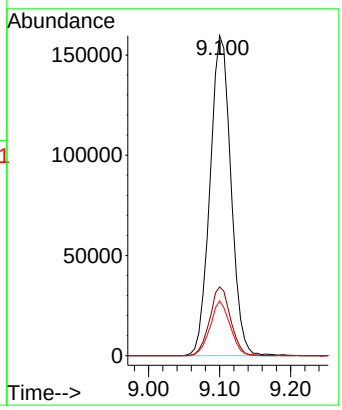


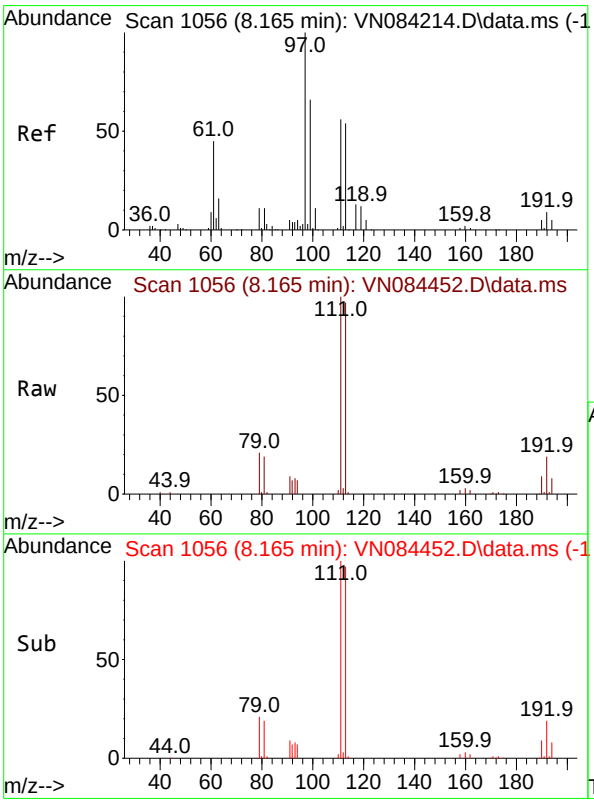
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Tgt Ion:114 Resp: 325943

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	43.8
88	17.1	0.0	31.6

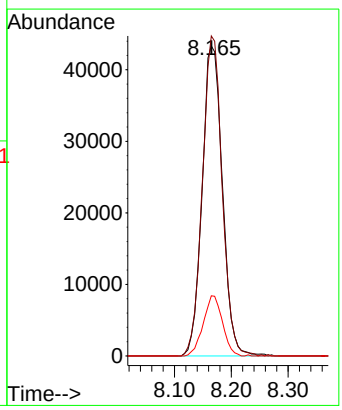


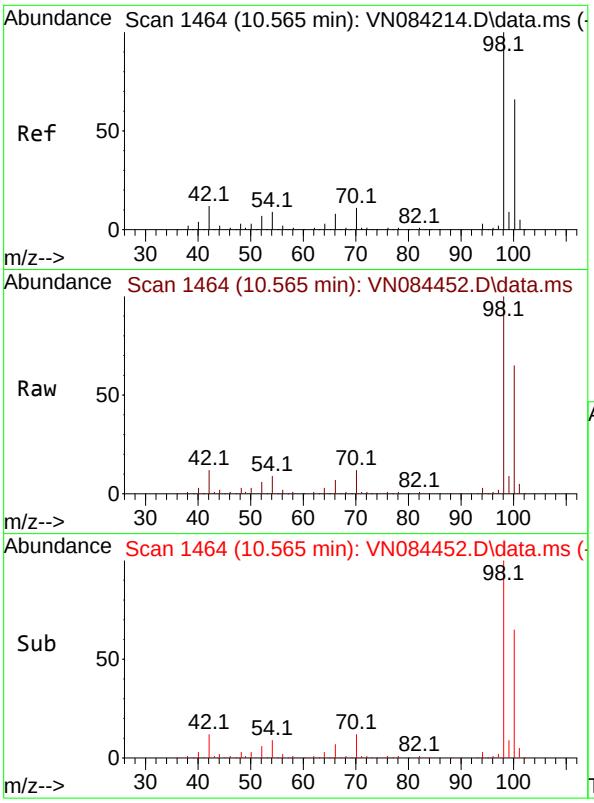


#35
Dibromofluoromethane
Concen: 49.949 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Tgt Ion:113 Resp: 107332

Ion	Ratio	Lower	Upper
113	100		
111	100.4	83.3	124.9
192	18.4	13.5	20.3



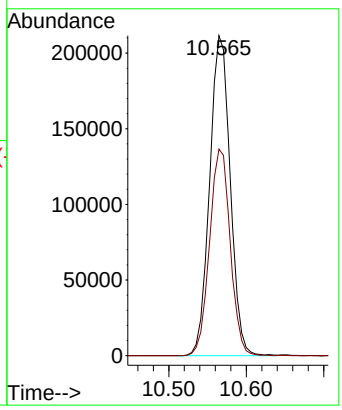


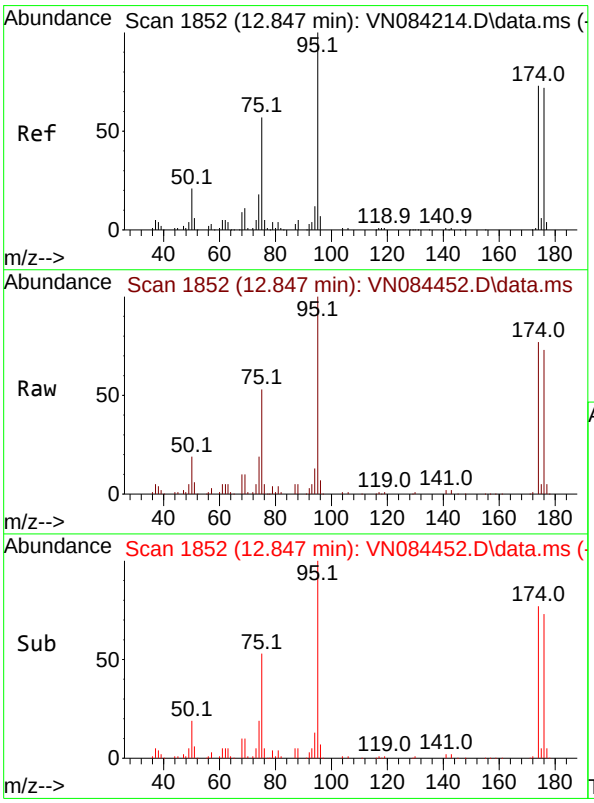
#50
Toluene-d8
Concen: 49.301 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Tgt Ion: 98 Resp: 389764

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.7	79.1

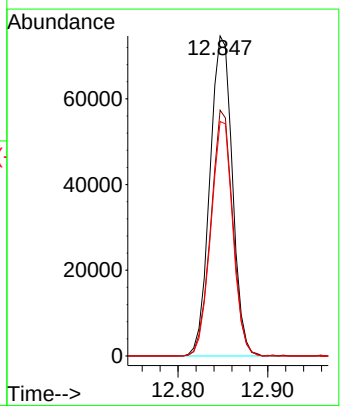


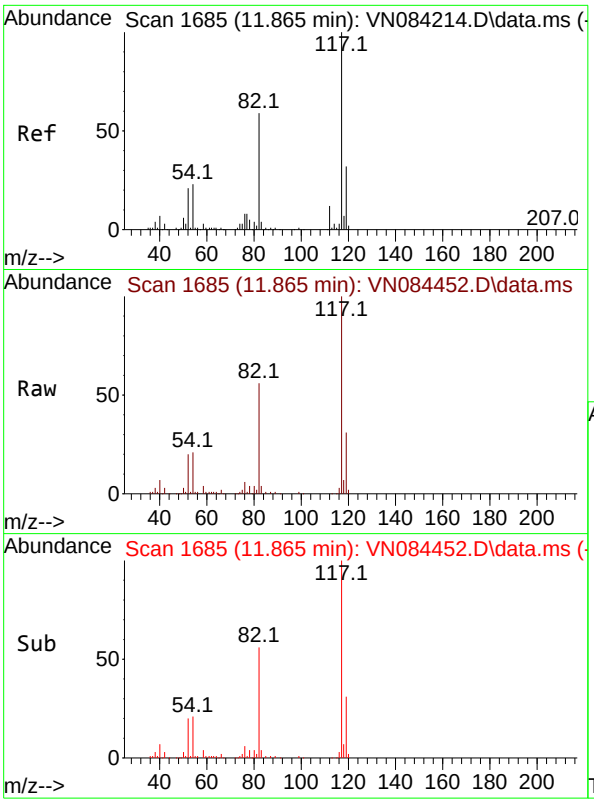


#62
4-Bromofluorobenzene
Concen: 44.996 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Tgt Ion: 95 Resp: 129594

Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	145.2
176	71.8	0.0	140.0



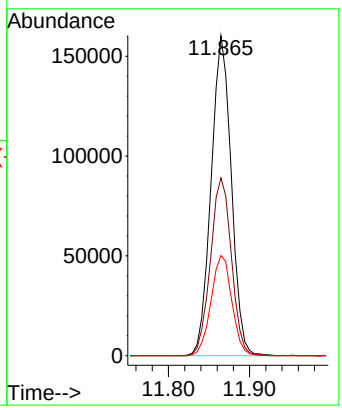


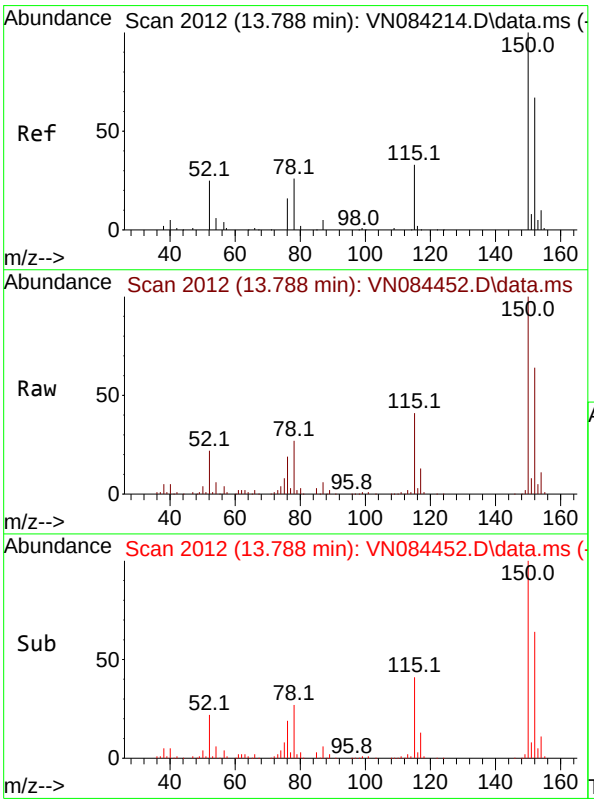
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBL01

Tgt Ion:117 Resp: 276681

Ion	Ratio	Lower	Upper
117	100		
82	55.5	47.2	70.8
119	31.3	25.4	38.0

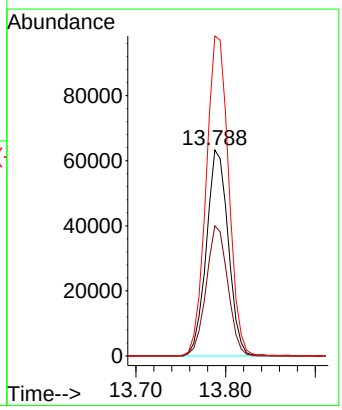




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084452.D
Acq: 22 Oct 2024 13:38

Tgt Ion:152 Resp: 106919

Ion	Ratio	Lower	Upper
152	100		
115	62.5	31.3	93.9
150	160.2	0.0	349.8



Raw Data: **VN084453.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1022WBS01	SDG No.:	P4460
Lab Sample ID:	VN1022WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084453.D	1		10/22/24 14:01	VN102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.5		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.26	1.00	ug/L
78-93-3	2-Butanone	87.6		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.8		0.25	1.00	ug/L
67-66-3	Chloroform	18.7		0.26	1.00	ug/L
71-43-2	Benzene	18.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.0		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.7		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.2		70 (74) - 130 (125)	92%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	8.224			
540-36-3	1,4-Difluorobenzene	304000	9.1			
3114-55-4	Chlorobenzene-d5	270000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.788			

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\VN102224\
Data File : VN084453.D
Acq On : 22 Oct 2024 14:01
Operator : JC\MD
Sample : VN1022WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 01:27:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	177710	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304170	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	270028	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132421	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	121628	46.161	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.320%			
35) Dibromofluoromethane	8.165	113	99350	49.544	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.080%			
50) Toluene-d8	10.565	98	359697	48.755	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.520%			
62) 4-Bromofluorobenzene	12.847	95	131806	49.040	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.080%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	30405	14.464	ug/l	88
3) Chloromethane	2.365	50	38245	15.934	ug/l	92
4) Vinyl Chloride	2.512	62	38348	16.494	ug/l	99
5) Bromomethane	2.953	94	26015	16.964	ug/l	96
6) Chloroethane	3.118	64	24567	14.755	ug/l	93
7) Trichlorofluoromethane	3.494	101	62625	17.298	ug/l	100
8) Diethyl Ether	3.959	74	23561	17.547	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.365	101	36860	17.769	ug/l	98
10) Methyl Iodide	4.589	142	46339	17.346	ug/l	99
11) Tert butyl alcohol	5.524	59	34138	78.574	ug/l	100
12) 1,1-Dichloroethene	4.347	96	36354	18.169	ug/l	90
13) Acrolein	4.177	56	28493	57.125	ug/l	99
14) Allyl chloride	5.024	41	57894	16.660	ug/l	96
15) Acrylonitrile	5.724	53	99053	90.281	ug/l	99
16) Acetone	4.430	43	92502	81.724	ug/l	100
17) Carbon Disulfide	4.712	76	103059	16.268	ug/l	100
18) Methyl Acetate	5.024	43	43324	17.561	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	119560	17.704	ug/l	98
20) Methylene Chloride	5.277	84	41973	18.242	ug/l	94
21) trans-1,2-Dichloroethene	5.788	96	37752	18.009	ug/l	97
22) Diisopropyl ether	6.671	45	129644	18.037	ug/l	96
23) Vinyl Acetate	6.606	43	460216	86.325	ug/l	100
24) 1,1-Dichloroethane	6.565	63	74312	18.487	ug/l	99
25) 2-Butanone	7.482	43	134974	87.552	ug/l	99
26) 2,2-Dichloropropane	7.488	77	64580	17.819	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	46201	18.239	ug/l	97
28) Bromochloromethane	7.818	49	33275	18.553	ug/l	95
29) Tetrahydrofuran	7.841	42	84149	88.450	ug/l	99
30) Chloroform	7.971	83	78076	18.699	ug/l	96
31) Cyclohexane	8.253	56	66769	17.108	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	68084	18.156	ug/l	96
36) 1,1-Dichloropropene	8.371	75	53919	18.511	ug/l	99
37) Ethyl Acetate	7.559	43	53127	17.779	ug/l	99
38) Carbon Tetrachloride	8.365	117	60111	18.813	ug/l	99
39) Methylcyclohexane	9.600	83	56729	17.499	ug/l	98
40) Benzene	8.606	78	169698	18.699	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084453.D
Acq On : 22 Oct 2024 14:01
Operator : JC\MD
Sample : VN1022WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 01:27:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	28308	17.450	ug/l		98
42) 1,2-Dichloroethane	8.671	62	56388	18.328	ug/l		99
43) Isopropyl Acetate	8.688	43	87191	14.897	ug/l		98
44) Trichloroethene	9.353	130	40177	18.955	ug/l		98
45) 1,2-Dichloropropane	9.623	63	40840	19.023	ug/l		96
46) Dibromomethane	9.706	93	28768	19.857	ug/l		98
47) Bromodichloromethane	9.882	83	61279	19.038	ug/l		91
48) Methyl methacrylate	9.676	41	41050	17.619	ug/l		98
49) 1,4-Dioxane	9.694	88	14851	346.222	ug/l	#	90
51) 4-Methyl-2-Pentanone	10.447	43	262197	92.172	ug/l		99
52) Toluene	10.629	92	106505	19.246	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	61026	18.600	ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	64908	18.392	ug/l		99
55) 1,1,2-Trichloroethane	11.018	97	40314	20.321	ug/l		92
56) Ethyl methacrylate	10.870	69	59750	18.303	ug/l		95
57) 1,3-Dichloropropane	11.165	76	65745	18.546	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	124774	82.396	ug/l		98
59) 2-Hexanone	11.194	43	194266	91.370	ug/l		100
60) Dibromochloromethane	11.359	129	45869	19.568	ug/l		100
61) 1,2-Dibromoethane	11.470	107	39273	19.051	ug/l		100
64) Tetrachloroethene	11.106	164	34680	18.439	ug/l		96
65) Chlorobenzene	11.894	112	111661	18.650	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	38900	18.863	ug/l		99
67) Ethyl Benzene	11.964	91	192042	18.137	ug/l		99
68) m/p-Xylenes	12.070	106	148188	37.836	ug/l		99
69) o-Xylene	12.400	106	70695	19.078	ug/l		98
70) Styrene	12.412	104	120254	19.159	ug/l		98
71) Bromoform	12.576	173	29221	19.246	ug/l	#	96
73) Isopropylbenzene	12.694	105	182230	18.034	ug/l		98
74) N-amyl acetate	12.494	43	76299	16.674	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	55947	18.413	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	52772m	19.521	ug/l		
77) Bromobenzene	12.976	156	44866	18.407	ug/l		95
78) n-propylbenzene	13.035	91	213398	18.227	ug/l		99
79) 2-Chlorotoluene	13.123	91	134753	18.038	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	154916	18.794	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	21723	19.264	ug/l		87
82) 4-Chlorotoluene	13.217	91	137196	18.243	ug/l		99
83) tert-Butylbenzene	13.435	119	127869	17.454	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	153680	18.508	ug/l		97
85) sec-Butylbenzene	13.617	105	176234	18.027	ug/l		100
86) p-Isopropyltoluene	13.729	119	146590	18.133	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	83239	18.204	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	81325	17.612	ug/l		99
89) n-Butylbenzene	14.053	91	122182	16.668	ug/l		99
90) Hexachloroethane	14.329	117	28246	17.213	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	79655	17.766	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10211	16.285	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	36971	16.741	ug/l		99
94) Hexachlorobutadiene	15.500	225	18220	16.544	ug/l		96
95) Naphthalene	15.641	128	109289	14.927	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	36215	16.382	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084453.D
Acq On : 22 Oct 2024 14:01
Operator : JC\MD
Sample : VN1022WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 01:27:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

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

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

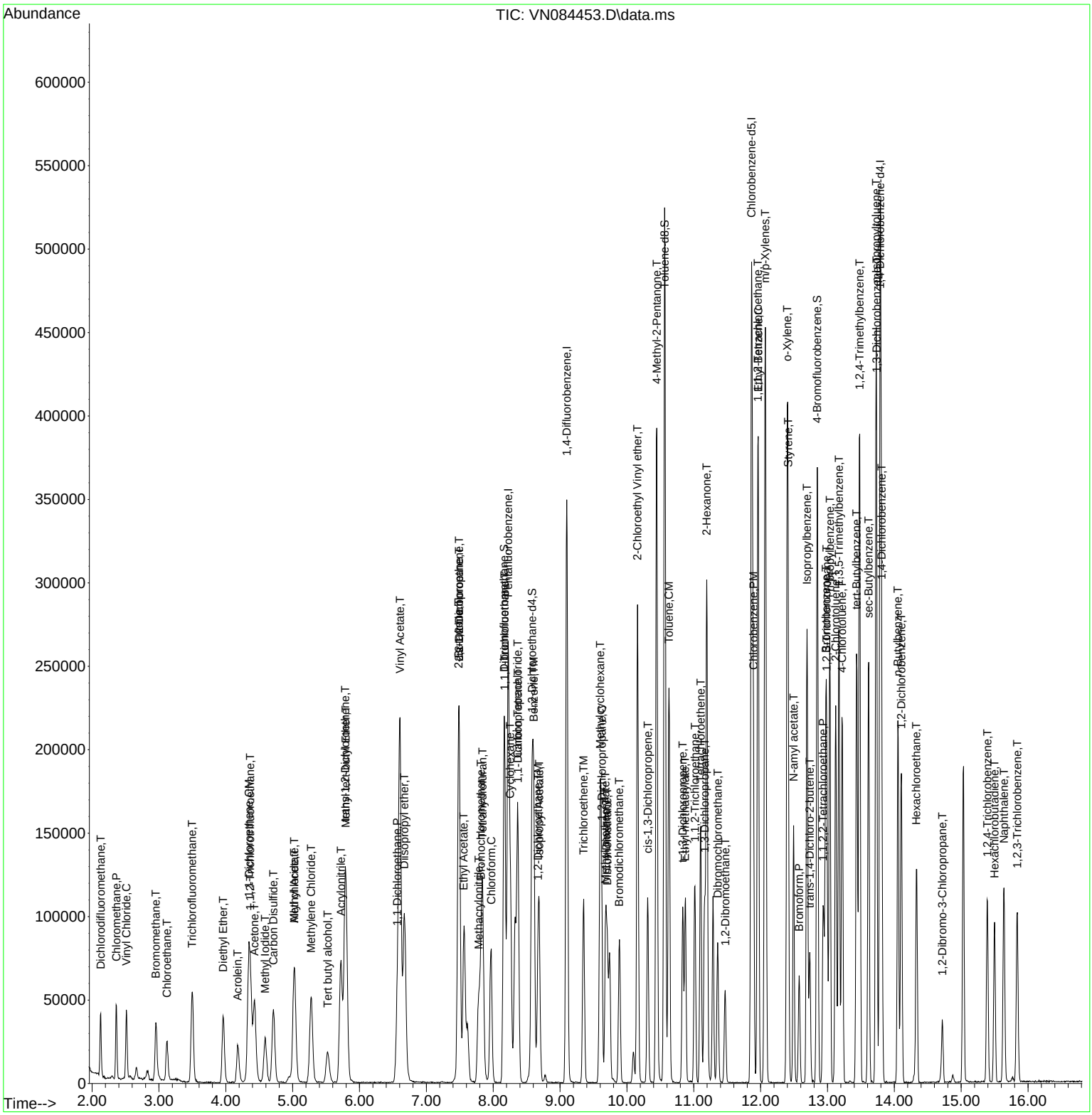
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084453.D
Acq On : 22 Oct 2024 14:01
Operator : JC\MD
Sample : VN1022WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 01:27:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024



Raw Data: **VN084454.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1022WBSD01	SDG No.:	P4460
Lab Sample ID:	VN1022WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084454.D	1		10/22/24 14:45	VN102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.5		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.26	1.00	ug/L
78-93-3	2-Butanone	92.3		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.6		0.25	1.00	ug/L
67-66-3	Chloroform	19.4		0.26	1.00	ug/L
71-43-2	Benzene	18.9		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.8		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	48.0		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	163000	8.224			
540-36-3	1,4-Difluorobenzene	284000	9.1			
3114-55-4	Chlorobenzene-d5	252000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.794			

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\VN102224\
Data File : VN084454.D
Acq On : 22 Oct 2024 14:45
Operator : JC\MD
Sample : VN1022WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 23 01:28:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	162648	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	284290	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	251894	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	120786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118385	49.091	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.180%			
35) Dibromofluoromethane	8.165	113	92800	49.514	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.020%			
50) Toluene-d8	10.565	98	331212	48.033	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.060%			
62) 4-Bromofluorobenzene	12.847	95	122807	48.887	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	28241	14.679	ug/l	88
3) Chloromethane	2.359	50	35405	16.117	ug/l	99
4) Vinyl Chloride	2.512	62	35054	16.474	ug/l	95
5) Bromomethane	2.959	94	25307	18.031	ug/l	95
6) Chloroethane	3.124	64	23899	15.683	ug/l	98
7) Trichlorofluoromethane	3.494	101	59328	17.905	ug/l	91
8) Diethyl Ether	3.959	74	22634	18.418	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	34776	18.317	ug/l	99
10) Methyl Iodide	4.589	142	44688	18.277	ug/l	99
11) Tert butyl alcohol	5.518	59	34892	87.746	ug/l	100
12) 1,1-Dichloroethene	4.341	96	32769	17.894	ug/l	93
13) Acrolein	4.177	56	29404	64.411	ug/l	98
14) Allyl chloride	5.024	41	53581	16.847	ug/l	98
15) Acrylonitrile	5.718	53	97676	97.270	ug/l	99
16) Acetone	4.430	43	87135	84.111	ug/l	96
17) Carbon Disulfide	4.718	76	96268	16.603	ug/l	97
18) Methyl Acetate	5.030	43	44581	19.744	ug/l	99
19) Methyl tert-butyl Ether	5.800	73	121253	19.617	ug/l	98
20) Methylene Chloride	5.277	84	41617	19.762	ug/l	95
21) trans-1,2-Dichloroethene	5.788	96	36611	19.082	ug/l	99
22) Diisopropyl ether	6.671	45	127788	19.425	ug/l	95
23) Vinyl Acetate	6.600	43	471205	96.571	ug/l	99
24) 1,1-Dichloroethane	6.571	63	72140	19.609	ug/l	98
25) 2-Butanone	7.482	43	130207	92.281	ug/l	100
26) 2,2-Dichloropropane	7.488	77	58286	17.571	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	44657	19.262	ug/l	96
28) Bromochloromethane	7.812	49	32800	19.982	ug/l	98
29) Tetrahydrofuran	7.841	42	84216	96.717	ug/l	98
30) Chloroform	7.965	83	74218	19.421	ug/l	94
31) Cyclohexane	8.259	56	59952	16.784	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	64815	18.885	ug/l	94
36) 1,1-Dichloropropene	8.371	75	50527	18.560	ug/l	98
37) Ethyl Acetate	7.559	43	53479	19.148	ug/l	97
38) Carbon Tetrachloride	8.359	117	55533	18.596	ug/l	92
39) Methylcyclohexane	9.600	83	52431	17.305	ug/l	95
40) Benzene	8.606	78	160063	18.871	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084454.D
Acq On : 22 Oct 2024 14:45
Operator : JC\MD
Sample : VN1022WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 23 01:28:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	29208	19.263	ug/l		96
42) 1,2-Dichloroethane	8.671	62	56362	19.601	ug/l		99
43) Isopropyl Acetate	8.688	43	87329	15.964	ug/l		97
44) Trichloroethene	9.353	130	37196	18.776	ug/l		95
45) 1,2-Dichloropropane	9.618	63	40032	19.951	ug/l		100
46) Dibromomethane	9.706	93	28247	20.861	ug/l		98
47) Bromodichloromethane	9.888	83	59421	19.752	ug/l		96
48) Methyl methacrylate	9.676	41	39452	18.117	ug/l		98
49) 1,4-Dioxane	9.694	88	15410	384.377	ug/l		97
51) 4-Methyl-2-Pentanone	10.447	43	265413	99.827	ug/l		99
52) Toluene	10.629	92	98137	18.974	ug/l		98
53) t-1,3-Dichloropropene	10.835	75	58118	18.952	ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	62876	19.062	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	38703	20.873	ug/l		96
56) Ethyl methacrylate	10.876	69	58523	19.181	ug/l		99
57) 1,3-Dichloropropane	11.159	76	67142	20.265	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	124778	88.160	ug/l		99
59) 2-Hexanone	11.194	43	191652	96.444	ug/l		99
60) Dibromochloromethane	11.359	129	45689	20.855	ug/l		98
61) 1,2-Dibromoethane	11.470	107	39095	20.291	ug/l		98
64) Tetrachloroethene	11.106	164	33764	19.244	ug/l		97
65) Chlorobenzene	11.888	112	109394	19.587	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.965	131	36735	19.096	ug/l		98
67) Ethyl Benzene	11.965	91	180220	18.246	ug/l		99
68) m/p-Xylenes	12.070	106	141783	38.806	ug/l		97
69) o-Xylene	12.400	106	65662	18.995	ug/l		96
70) Styrene	12.412	104	113796	19.435	ug/l		98
71) Bromoform	12.582	173	28447	20.085	ug/l	#	95
73) Isopropylbenzene	12.694	105	167871	18.213	ug/l		99
74) N-amyl acetate	12.494	43	74246	17.789	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	55170	19.906	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	51860m	21.031	ug/l		
77) Bromobenzene	12.982	156	42558	19.142	ug/l		96
78) n-propylbenzene	13.035	91	202008	18.916	ug/l		100
79) 2-Chlorotoluene	13.123	91	126589	18.577	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	144609	19.234	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.741	75	18211	17.706	ug/l		96
82) 4-Chlorotoluene	13.223	91	130226	18.984	ug/l		99
83) tert-Butylbenzene	13.435	119	120683	18.060	ug/l		97
84) 1,2,4-Trimethylbenzene	13.482	105	146120	19.292	ug/l		99
85) sec-Butylbenzene	13.617	105	166811	18.707	ug/l		100
86) p-Isopropyltoluene	13.729	119	139521	18.921	ug/l		98
87) 1,3-Dichlorobenzene	13.735	146	78103	18.726	ug/l		100
88) 1,4-Dichlorobenzene	13.811	146	79624	18.904	ug/l		100
89) n-Butylbenzene	14.053	91	118654	17.746	ug/l		99
90) Hexachloroethane	14.335	117	26884	17.962	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	75541	18.471	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10570	18.481	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	36540	18.139	ug/l		99
94) Hexachlorobutadiene	15.500	225	17391	17.312	ug/l		97
95) Naphthalene	15.641	128	109616	16.414	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	35947	17.827	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084454.D
Acq On : 22 Oct 2024 14:45
Operator : JC\MD
Sample : VN1022WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 23 01:28:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

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

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

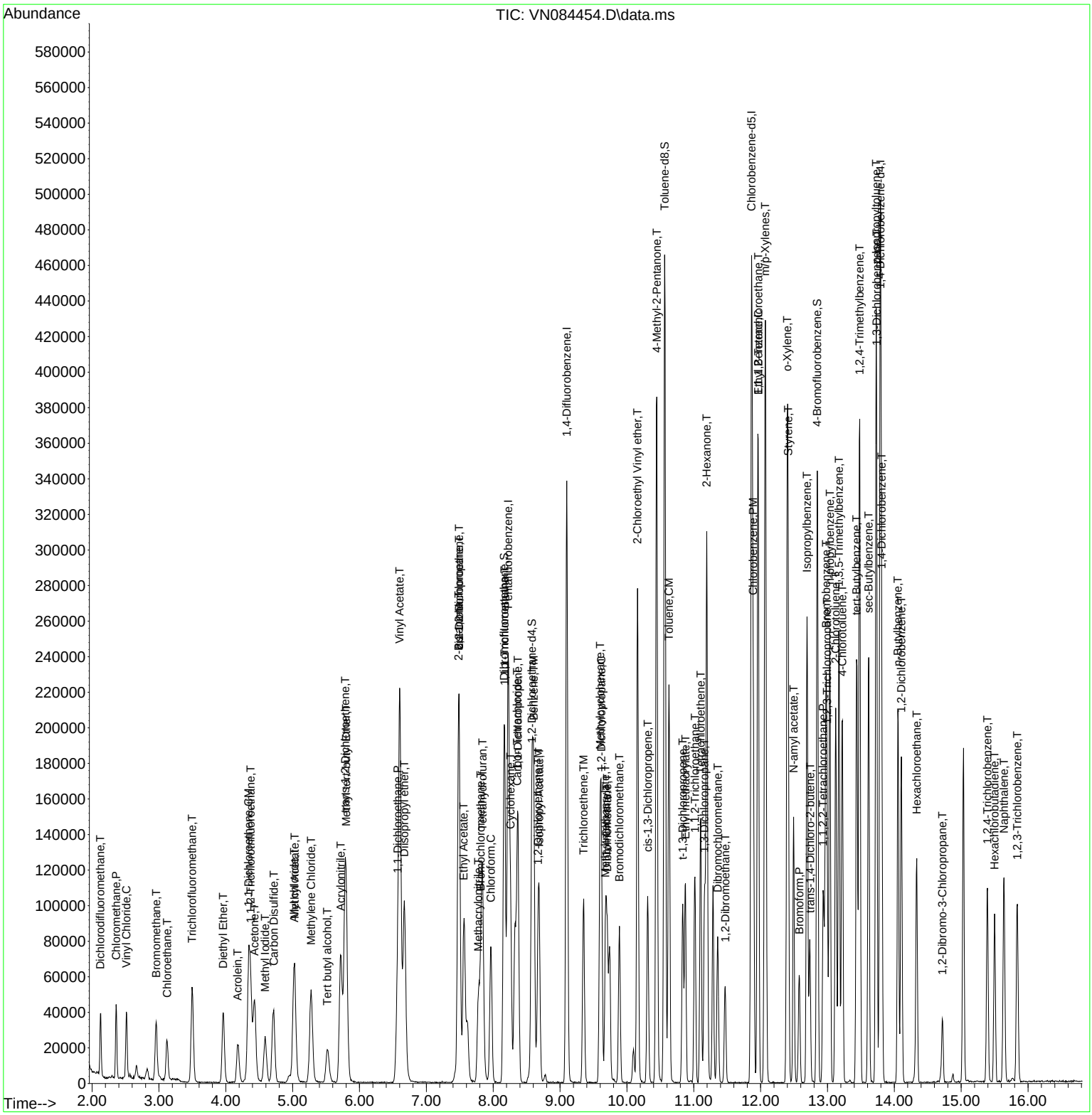
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
Data File : VN084454.D
Acq On : 22 Oct 2024 14:45
Operator : JC\MD
Sample : VN1022WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 23 01:28:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1022WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024



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

Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084213.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:48 AM	MMDadoda	10/1/2024 5:34:17 PM	Peak Integrated by Software
VSTDICCC050	VN084214.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:52 AM	MMDadoda	10/1/2024 5:34:19 PM	Peak Integrated by Software
VSTDICC020	VN084215.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:57 AM	MMDadoda	10/1/2024 5:34:21 PM	Peak Integrated by Software
VSTDICC010	VN084216.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:06 AM	MMDadoda	10/1/2024 5:34:22 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,1,2-Trichlorotrifluoroethane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	trans-1,2-Dichloroethene	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Vinyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,4-Dichlorobenzene	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Allyl chloride	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN084218.D	Vinyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICV050	VN084220.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:01 AM	MMDadoda	10/1/2024 5:34:27 PM	Peak Integrated by Software
VSTDCCC050	VN084229.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:17 AM	MMDadoda	10/1/2024 5:34:32 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN102224	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084450.D	1,2,3-Trichloropropane	SAM	10/23/2024 9:49:28 AM	MMDadoda	10/23/2024 1:06:30 PM	Peak Integrated by Software
VN1022WBS01	VN084453.D	1,2,3-Trichloropropane	SAM	10/23/2024 9:49:33 AM	MMDadoda	10/23/2024 1:06:30 PM	Peak Integrated by Software
VN1022WBSD01	VN084454.D	1,2,3-Trichloropropane	SAM	10/23/2024 9:49:38 AM	MMDadoda	10/23/2024 1:06:29 PM	Peak Integrated by Software
VSTDCCC050	VN084464.D	1,2,3-Trichloropropane	SAM	10/23/2024 9:49:49 AM	MMDadoda	10/23/2024 1:06:32 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084211.D	30 Sep 2024 09:24	JC\MD	Ok
2	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	JC\MD	Not Ok
3	VSTDICC100	VN084213.D	30 Sep 2024 12:25	JC\MD	Ok,M
4	VSTDICCC050	VN084214.D	30 Sep 2024 12:49	JC\MD	Ok,M
5	VSTDICC020	VN084215.D	30 Sep 2024 13:13	JC\MD	Ok,M
6	VSTDICC010	VN084216.D	30 Sep 2024 13:37	JC\MD	Ok,M
7	VSTDICC005	VN084217.D	30 Sep 2024 14:00	JC\MD	Ok,M
8	VSTDICC001	VN084218.D	30 Sep 2024 14:48	JC\MD	Ok,M
9	IBLK	VN084219.D	30 Sep 2024 15:12	JC\MD	Ok
10	VSTDICV050	VN084220.D	30 Sep 2024 15:36	JC\MD	Ok,M
11	VN0930MBL01	VN084221.D	30 Sep 2024 16:11	JC\MD	Ok
12	VN0930WBL01	VN084222.D	30 Sep 2024 16:35	JC\MD	Ok
13	VN0930WBS01	VN084223.D	30 Sep 2024 17:42	JC\MD	Ok,M
14	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06	JC\MD	Ok,M
15	P4116-24	VN084225.D	30 Sep 2024 18:30	JC\MD	Dilution
16	P4116-25	VN084226.D	30 Sep 2024 18:54	JC\MD	Dilution
17	P4116-26	VN084227.D	30 Sep 2024 19:18	JC\MD	Dilution
18	P4116-27	VN084228.D	30 Sep 2024 19:42	JC\MD	Dilution
19	VSTDCCC050	VN084229.D	30 Sep 2024 20:06	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102224

Review By	Semsettin Yesilyurt	Review On	10/23/2024 9:50:24 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/23/2024 1:06:37 PM		
SubDirectory	VN102224	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131018
Initial Calibration Stds	
CCC	VP131019,VP131020
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084449.D	22 Oct 2024 08:33	JC\MD	Ok
2	VSTDCCC050	VN084450.D	22 Oct 2024 12:50	JC\MD	Ok,M
3	VN1022MBL01	VN084451.D	22 Oct 2024 13:14	JC\MD	Ok
4	VN1022WBL01	VN084452.D	22 Oct 2024 13:38	JC\MD	Ok
5	VN1022WBS01	VN084453.D	22 Oct 2024 14:01	JC\MD	Ok,M
6	VN1022WBSD01	VN084454.D	22 Oct 2024 14:45	JC\MD	Ok,M
7	P4475-04	VN084455.D	22 Oct 2024 15:09	JC\MD	Ok
8	P4475-01	VN084456.D	22 Oct 2024 15:33	JC\MD	Ok
9	IBLK	VN084457.D	22 Oct 2024 16:21	JC\MD	Ok
10	P4475-05	VN084458.D	22 Oct 2024 16:45	JC\MD	Ok
11	P4475-06	VN084459.D	22 Oct 2024 17:09	JC\MD	Ok
12	P4475-03	VN084460.D	22 Oct 2024 17:33	JC\MD	Ok
13	P4475-02	VN084461.D	22 Oct 2024 17:57	JC\MD	Ok
14	P4397-06	VN084462.D	22 Oct 2024 18:21	JC\MD	Ok,M
15	P4460-04	VN084463.D	22 Oct 2024 18:46	JC\MD	Ok
16	VSTDCCC050	VN084464.D	22 Oct 2024 19:10	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084211.D	30 Sep 2024 09:24		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	Need ICAL	JC\MD	Not Ok
3	VSTDICC100	VSTDICC100	VN084213.D	30 Sep 2024 12:25		JC\MD	Ok,M
4	VSTDICCC050	VSTDICCC050	VN084214.D	30 Sep 2024 12:49		JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN084215.D	30 Sep 2024 13:13		JC\MD	Ok,M
6	VSTDICC010	VSTDICC010	VN084216.D	30 Sep 2024 13:37		JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN084217.D	30 Sep 2024 14:00		JC\MD	Ok,M
8	VSTDICC001	VSTDICC001	VN084218.D	30 Sep 2024 14:48		JC\MD	Ok,M
9	IBLK	IBLK	VN084219.D	30 Sep 2024 15:12		JC\MD	Ok
10	VSTDICV050	ICVVN093024	VN084220.D	30 Sep 2024 15:36		JC\MD	Ok,M
11	VN0930MBL01	VN0930MBL01	VN084221.D	30 Sep 2024 16:11		JC\MD	Ok
12	VN0930WBL01	VN0930WBL01	VN084222.D	30 Sep 2024 16:35		JC\MD	Ok
13	VN0930WBS01	VN0930WBS01	VN084223.D	30 Sep 2024 17:42		JC\MD	Ok,M
14	VN0930WBSD01	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06		JC\MD	Ok,M
15	P4116-24	RE132D5-20240918	VN084225.D	30 Sep 2024 18:30	vial A pH<2 Need 2x	JC\MD	Dilution
16	P4116-25	RE132D6-20240918	VN084226.D	30 Sep 2024 18:54	vial A pH<2 Need 40X	JC\MD	Dilution
17	P4116-26	RE132D7-20240918	VN084227.D	30 Sep 2024 19:18	vial A pH<2 Need 40X	JC\MD	Dilution
18	P4116-27	DUP05-20240918	VN084228.D	30 Sep 2024 19:42	vial A pH<2 Need 2x	JC\MD	Dilution

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VN084229.D	30 Sep 2024 20:06		JC\MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102224

Review By	Semsettin Yesilyurt	Review On	10/23/2024 9:50:24 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/23/2024 1:06:37 PM		
SubDirectory	VN102224	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131018
Initial Calibration Stds	
CCC	VP131019,VP131020
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084449.D	22 Oct 2024 08:33		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084450.D	22 Oct 2024 12:50		JC\MD	Ok,M
3	VN1022MBL01	VN1022MBL01	VN084451.D	22 Oct 2024 13:14		JC\MD	Ok
4	VN1022WBL01	VN1022WBL01	VN084452.D	22 Oct 2024 13:38		JC\MD	Ok
5	VN1022WBS01	VN1022WBS01	VN084453.D	22 Oct 2024 14:01		JC\MD	Ok,M
6	VN1022WBSD01	VN1022WBSD01	VN084454.D	22 Oct 2024 14:45		JC\MD	Ok,M
7	P4475-04	BP-VPB-190-GW-238-2	VN084455.D	22 Oct 2024 15:09		JC\MD	Ok
8	P4475-01	BP-VPB-190-TB-20241	VN084456.D	22 Oct 2024 15:33	TB	JC\MD	Ok
9	IBLK	IBLK	VN084457.D	22 Oct 2024 16:21		JC\MD	Ok
10	P4475-05	BP-VPB-190-GW-258-2	VN084458.D	22 Oct 2024 16:45		JC\MD	Ok
11	P4475-06	BP-VPB-190-GW-278-2	VN084459.D	22 Oct 2024 17:09		JC\MD	Ok
12	P4475-03	BP-VPB-190-GW-223-2	VN084460.D	22 Oct 2024 17:33		JC\MD	Ok
13	P4475-02	BP-VPB-190-DUP-2024	VN084461.D	22 Oct 2024 17:57		JC\MD	Ok
14	P4397-06	WB-301-BOT	VN084462.D	22 Oct 2024 18:21		JC\MD	Ok,M
15	P4460-04	WB-303-BOT	VN084463.D	22 Oct 2024 18:46		JC\MD	Ok
16	VSTDCCC050	VSTDCCC050EC	VN084464.D	22 Oct 2024 19:10		JC\MD	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164262

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : ZHE-1

TCLP Filter ID : 50223706

Start Prep Date : 10/18/2024 **Time :** 17:00

End Prep Date : 10/19/2024 **Time :** 10:15

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JR

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	22437	N/A

Extraction Conformance/Non-Conformance Comments:

TUMBLER ZHE-1 checked,30 rpm. ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 mintues of tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/21/24 08:00	JP Ref Room	MD NOCLab.
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164262

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4397-06	WB-301-BOT	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4443-05	OG-315-HR-502-COMP-29	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4443-10	OG-315-HR-502-COMP-30	03	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4458-02	280517	04	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4460-04	WB-303-BOT	05	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
PB164262TB	LEB262	06	N/A	500	N/A	N/A	N/A	4.93	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4397-06	WB-301-BOT	N/A	N/A	N/A	N/A	100	N/A
P4443-05	OG-315-HR-502-COMP-29	N/A	N/A	N/A	N/A	100	N/A
P4443-10	OG-315-HR-502-COMP-30	N/A	N/A	N/A	N/A	100	N/A
P4458-02	280517	N/A	N/A	N/A	N/A	100	N/A
P4460-04	WB-303-BOT	N/A	N/A	N/A	N/A	100	N/A
PB164262TB	LEB262	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE P4397 **WorkList ID :** 184596 **Department :** TCLP Extraction **Date :** 10-18-2024 14:05:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4397-06	WB-301-BOT	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06		10/10/2024	1311 ZHE
P4443-05	OG-315-HR-502-COMP-29	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311 ZHE
P4443-10	OG-315-HR-502-COMP-30	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K51	10/17/2024	1311 ZHE
P4458-02	280517	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K51	10/18/2024	1311 ZHE
P4460-04	WB-303-BOT	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	K51	10/18/2024	1311 ZHE

Date/Time 10-18-24 16:20
Raw Sample Received by: JD WC
Raw Sample Relinquished by: CR SM

Date/Time 10-18-24 18:30
Raw Sample Received by: CR SM
Raw Sample Relinquished by: JD WC

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

for Vrunda

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. P4460/61
COC Number 2042033

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: GANNETT FLEMING
ADDRESS: 1010 ADAMS AVENUE
CITY AUDUBON STATE: PA ZIP: 19403
ATTENTION: JOE KRUPANSKY
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ANTRAK'S REPLACEMENT OF BRIDGE SAWTOOTH
PROJECT NO.: 9500000818 LOCATION: KEARNY, NJ
PROJECT MANAGER: JOE KRUPANSKY
e-mail: QAQC@bemgs.com
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: CHemtech PO#:
ADDRESS: 284 Sheffield St.
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha PHONE 908-728-3148

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT BEM EDD

ANALYSIS

1 TCL VOC+10 · 2 TCL PAH · 3 PCB · 4 TAL METALS · 5 Cr(VI), Cr(III) · 6 EPH · 7 FULL TCLP · 8 RCRA PARAMETERS · 9 TOX

PRESERVATIVES

A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

COMMENTS

← Specify Preservatives

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9
								A			B	F				
1.	WB-303-SH	GW	X		10/18	9:00	7	X	X	X	X	X	X			
2.	WB-303-TOP	S	X		10/18	9:50	11	X	X	X	X	X	X			
3.	WB-303-BOT	S	X		10/18	10:40	11	X	X	X	X	X	X	X	X	X
4.	TB-10182024	W			10/18	LAB	2	X								
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. Nate Mirarchi	10/18/24 1450	1. 1450 10-18-24
2.	DATE/TIME:	2.
3.	DATE/TIME: 1600 10-18-24	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
Comments: _____

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4460 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 10/18/2024 3:24:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 10/18/2024 4:00:00 PM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4460-02	WB-303-TOP	Solid	10/18/2024	09:50					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4460-03	WB-303-BOT	Solid	10/18/2024	10:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4460-05	TB-10182024	Water	10/18/2024	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
P4460-06	WB-303-SW	Water	10/18/2024	09:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By:
Date / Time : 10-18-24 1620

Received By :
Date / Time : 4:45 PM 10/18/24

Storage Area : VOA Refridgerator Room